Full wwPDB EM Validation Report ⓘ

Apr 3, 2025 – 02:06 pm BST

PDB ID	:	9GSX / pdb_00009gsx
EMDB ID	:	EMD-51557
Title	:	Campylobacter hook-filament junction-cap complex
Authors	:	Qin, K.; Gonzalez-Rodriguez, N.; Shmakova, E.; Beeby, M.; Bergeron, J.R.C.
Deposited on	:	2024-09-16
Resolution	:	6.50 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references ⓘ) were used in the production of this report:

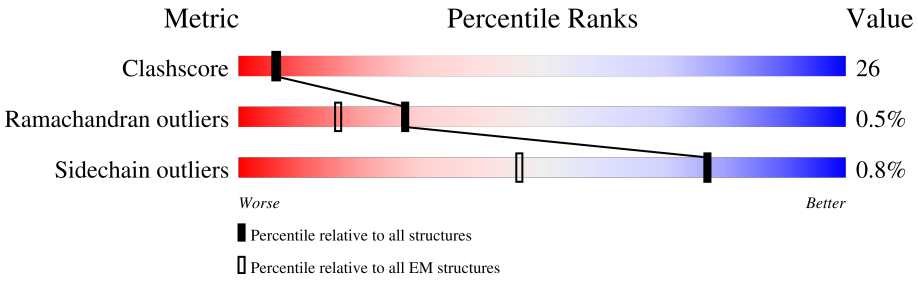
EMDB validation analysis	:	0.0.1.dev117
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.42

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 6.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=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	750	16% 58% 41%
1	B	750	14% 52% 47%
1	C	750	10% 50% 50%
1	D	750	29% 62% 37%
1	E	750	13% 56% 43%
1	F	750	36% 62% 38%
1	G	750	16% 57% 43%
1	H	750	17% 52% 48%

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Mol	Chain	Length	Quality of chain
1	I	750	15% 54% 45%
1	J	750	15% 53% 47%
1	K	750	16% 50% 49%
2	L	608	15% 56% 44%
2	M	608	18% 42% 57%
2	N	608	21% 47% 51%
2	O	608	15% 45% 53%
2	P	608	15% 51% 47%
2	Q	608	22% 53% 46%
2	R	608	17% 53% 46%
2	S	608	14% 49% 50%
2	T	608	19% 49% 48%
2	U	608	24% 48% 50%
2	V	608	40% 57% 41%
3	W	642	29% 57% 42%
3	X	642	16% 50% 48%
3	Y	642	15% 52% 45%
3	Z	642	41% 63% 35%
3	a	642	51% 98%

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 274343 atoms, of which 135044 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 Flagellin.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	744	Total	C	H	N	O	S	0	0
			11209	3511	5509	959	1208	22		
1	B	750	Total	C	H	N	O	S	0	0
			11321	3542	5570	970	1216	23		
1	C	750	Total	C	H	N	O	S	0	0
			11321	3542	5570	970	1216	23		
1	D	750	Total	C	H	N	O	S	0	0
			11321	3542	5570	970	1216	23		
1	E	750	Total	C	H	N	O	S	0	0
			11321	3542	5570	970	1216	23		
1	F	750	Total	C	H	N	O	S	0	0
			11321	3542	5570	970	1216	23		
1	G	750	Total	C	H	N	O	S	0	0
			11321	3542	5570	970	1216	23		
1	H	750	Total	C	H	N	O	S	0	0
			11321	3542	5570	970	1216	23		
1	I	750	Total	C	H	N	O	S	0	0
			11321	3542	5570	970	1216	23		
1	J	750	Total	C	H	N	O	S	0	0
			11321	3542	5570	970	1216	23		
1	K	750	Total	C	H	N	O	S	0	0
			11321	3542	5570	970	1216	23		

- Molecule 2 is a protein called Flagellar hook-associated protein 1.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	L	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		
2	M	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		
2	N	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		
2	O	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		

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Mol	Chain	Residues	Atoms						AltConf	Trace
2	P	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		
2	Q	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		
2	R	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		
2	S	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		
2	T	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		
2	U	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		
2	V	608	Total	C	H	N	O	S	0	0
			9272	2918	4554	791	999	10		

- Molecule 3 is a protein called Flagellar hook-associated protein 2.

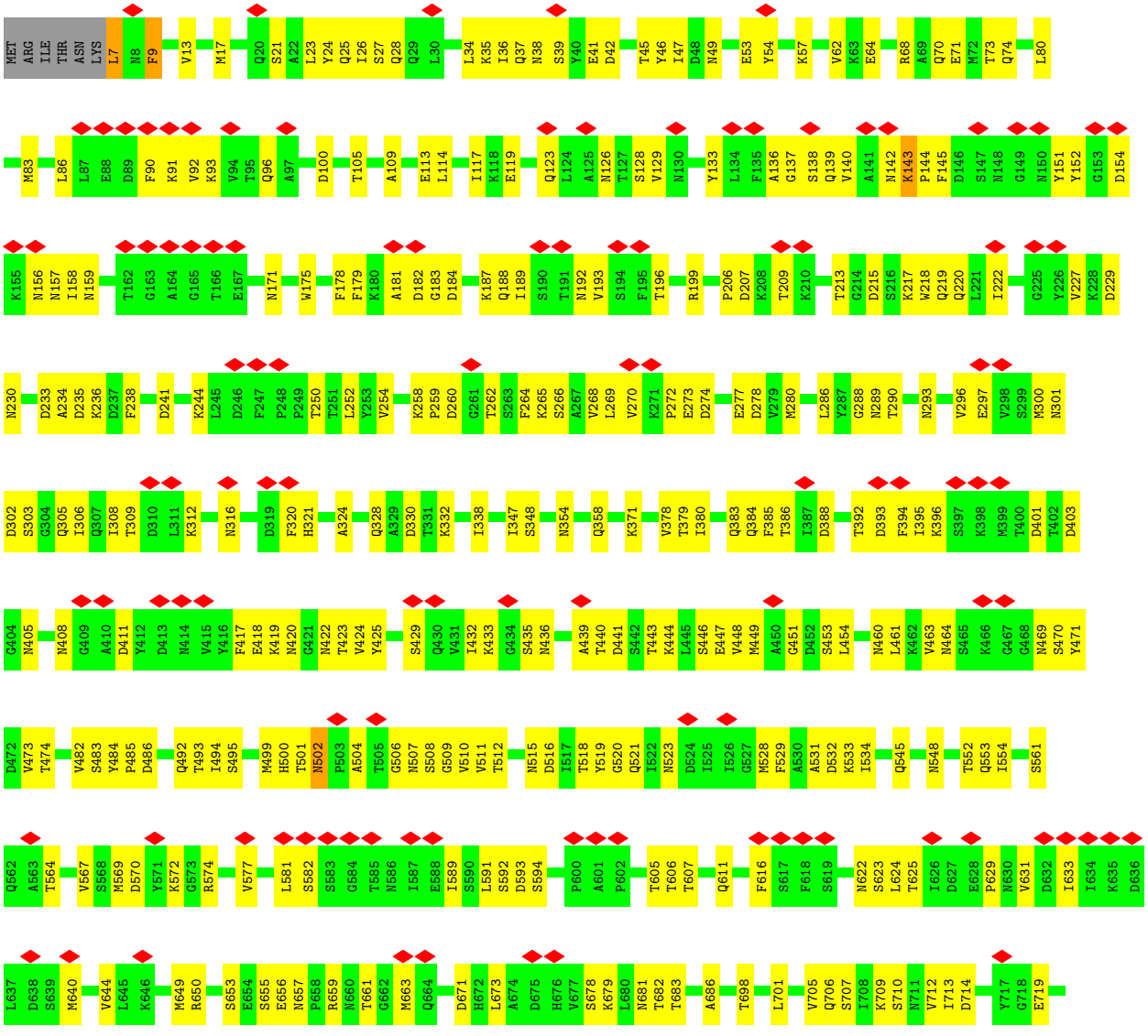
Mol	Chain	Residues	Atoms						AltConf	Trace
3	W	636	Total	C	H	N	O	S	0	0
			9631	3007	4769	812	1033	10		
3	X	635	Total	C	H	N	O	S	0	0
			9620	3004	4764	811	1031	10		
3	Y	629	Total	C	H	N	O	S	0	0
			9545	2979	4728	805	1023	10		
3	Z	630	Total	C	H	N	O	S	0	0
			9556	2982	4733	806	1025	10		
3	a	632	Total	C	H	N	O	S	0	0
			9580	2993	4747	806	1024	10		

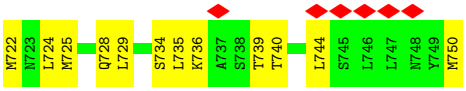
3 Residue-property plots (i)

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: Flagellin

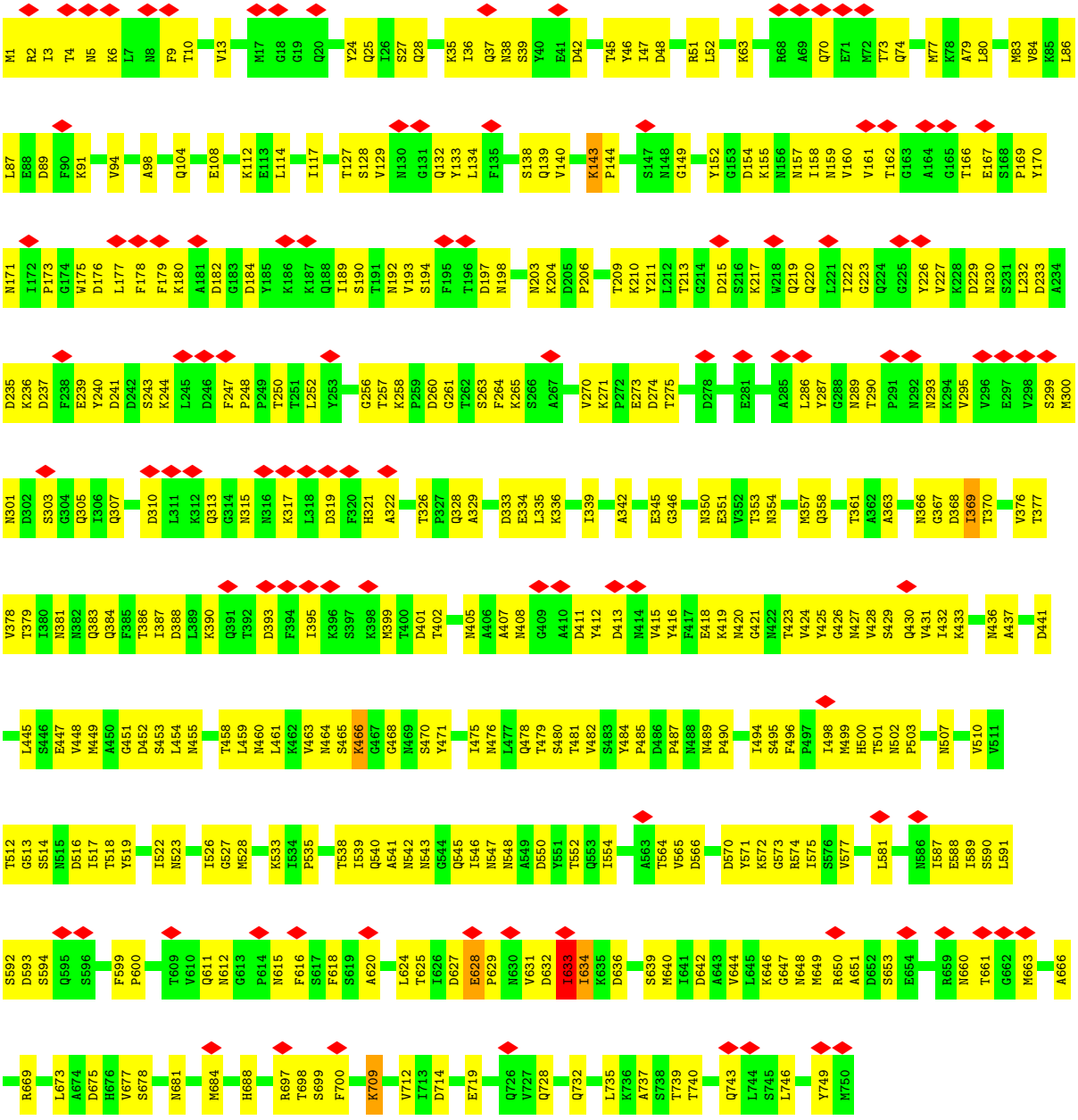
Chain A:





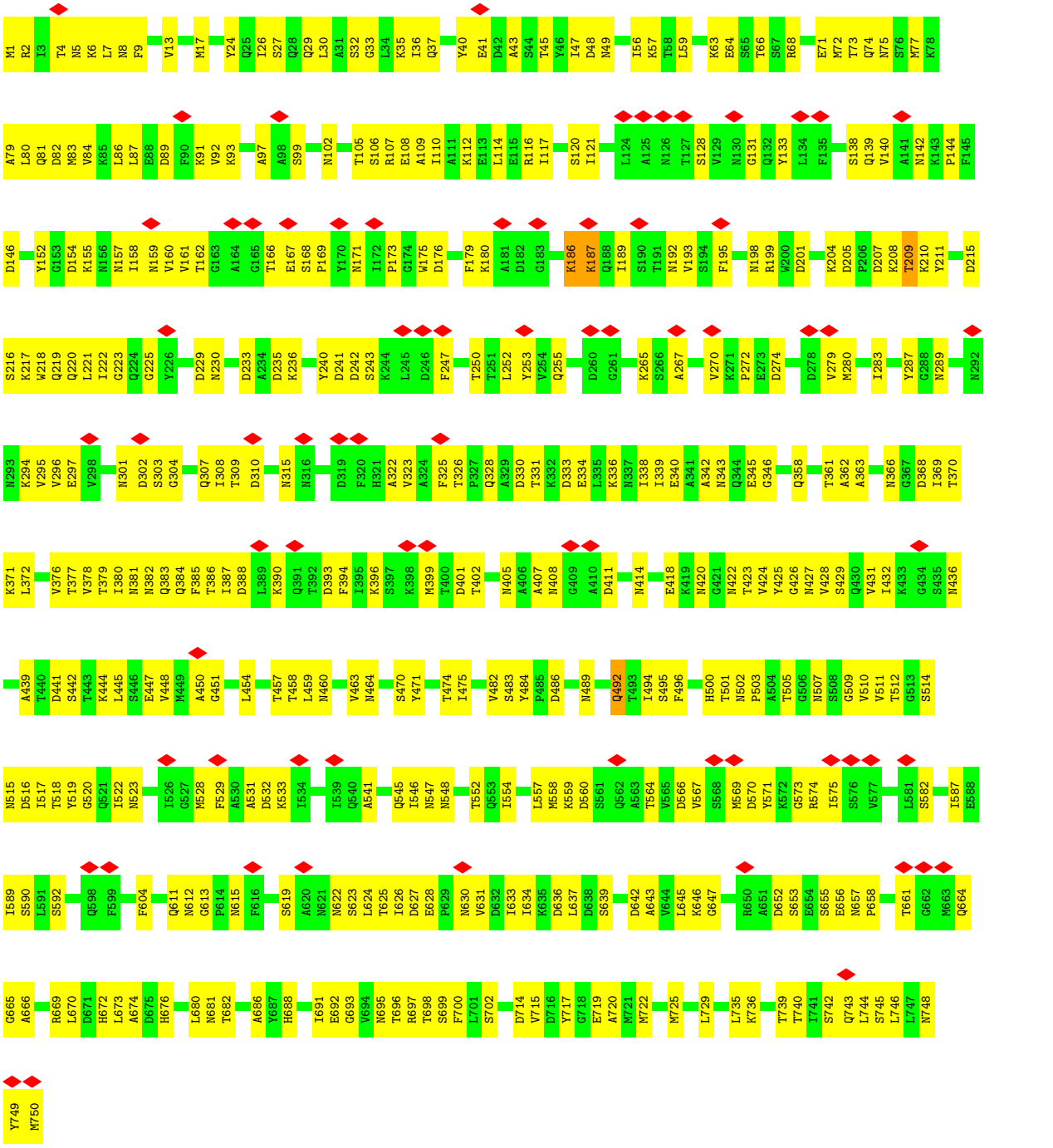
• Molecule 1: Flagellin

Chain B:



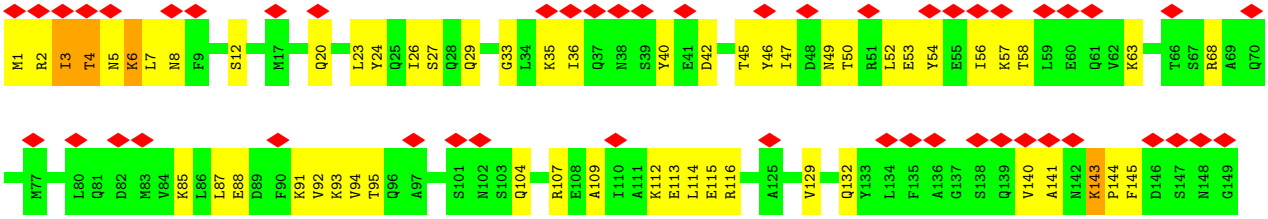
• Molecule 1: Flagellin

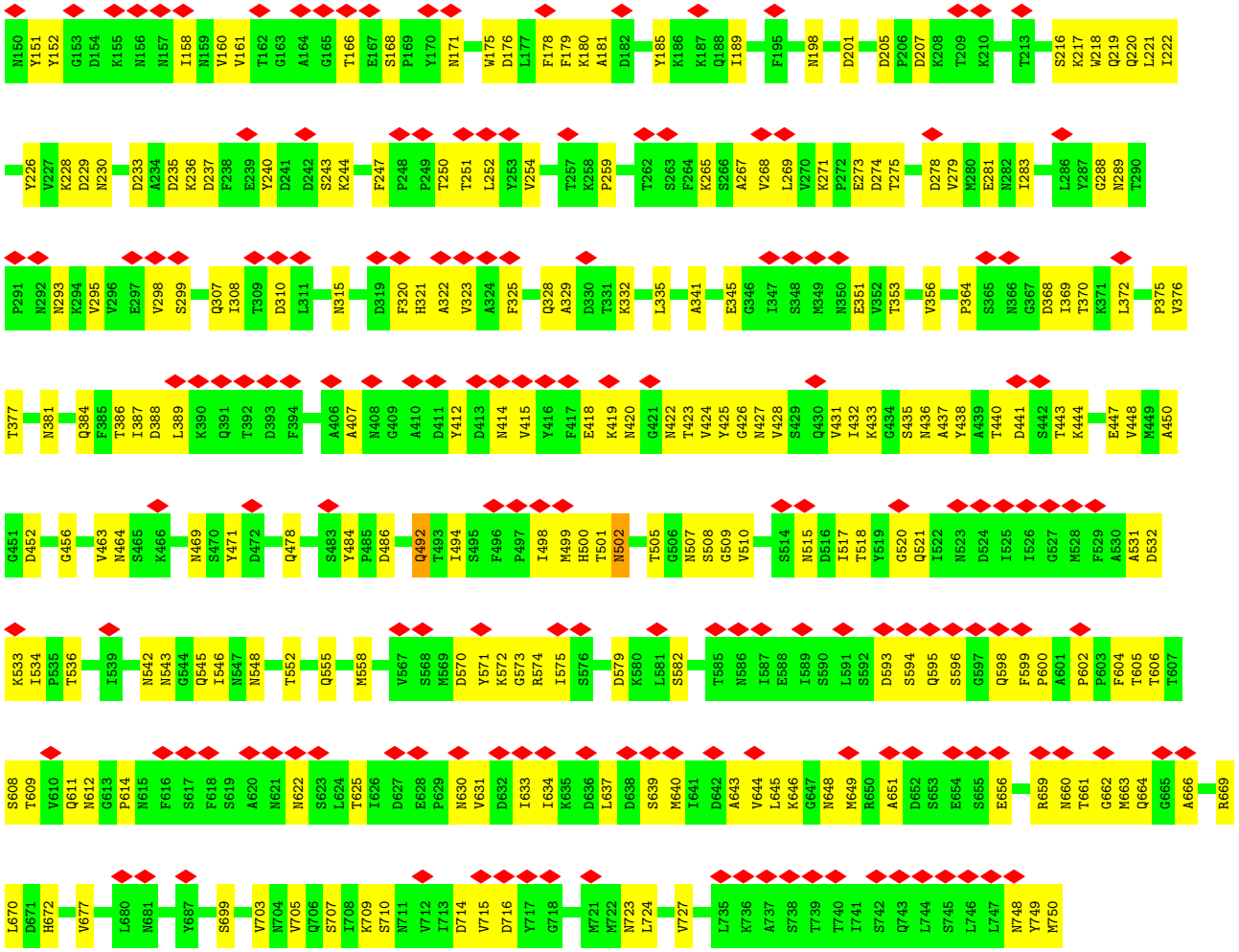
Chain C:



• Molecule 1: Flagellin

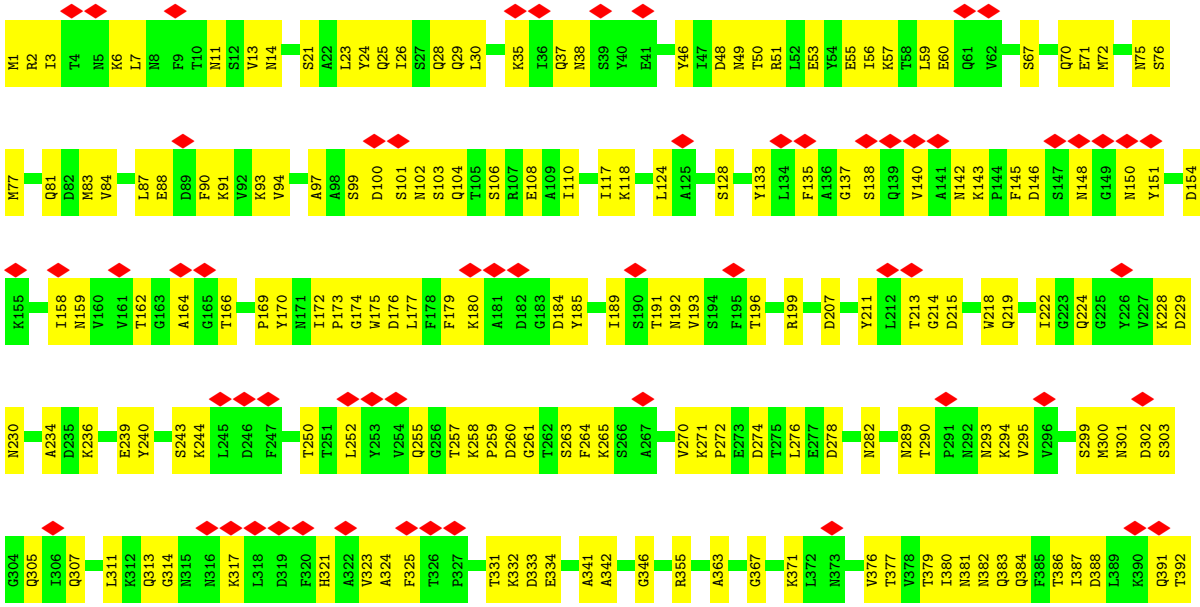
Chain D:

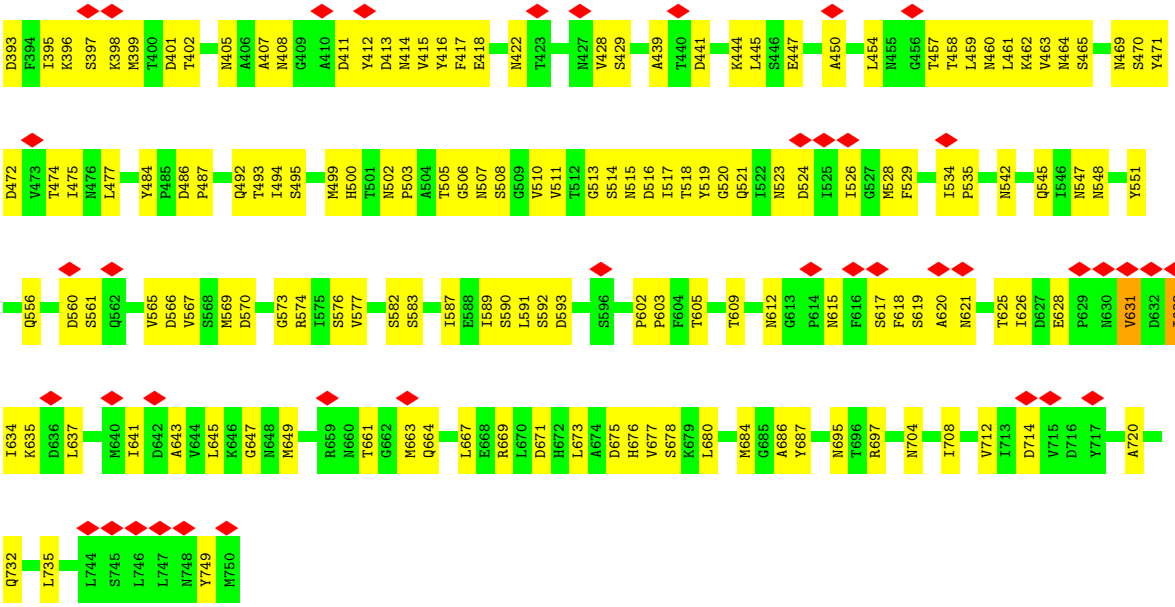




• Molecule 1: Flagellin

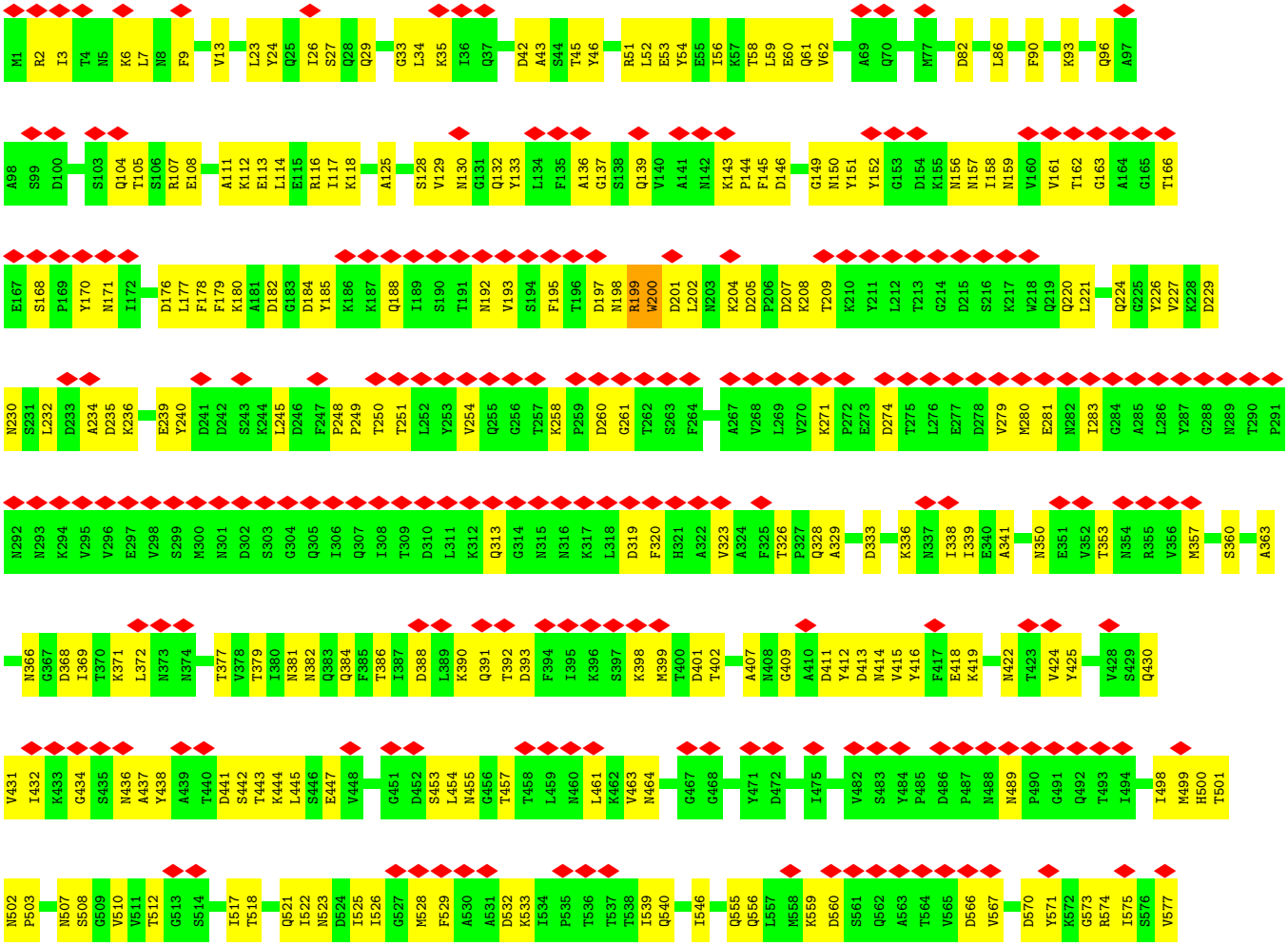
Chain E:

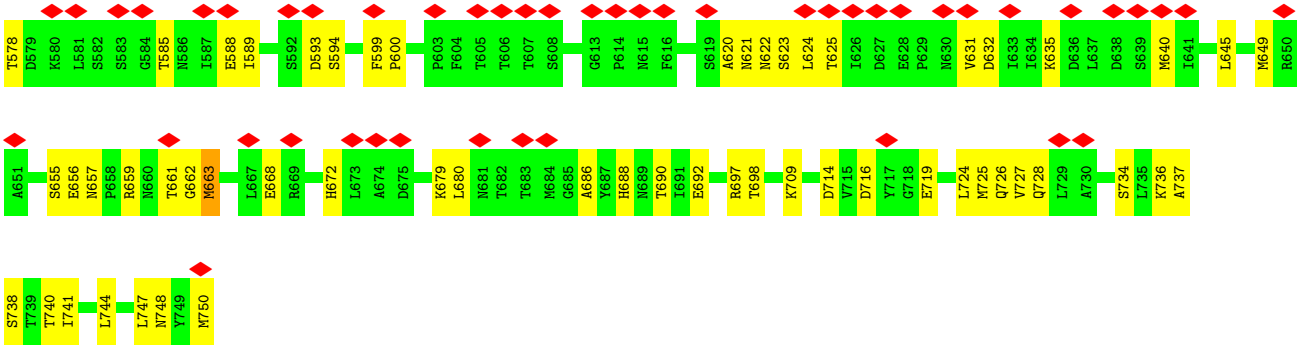




• Molecule 1: Flagellin

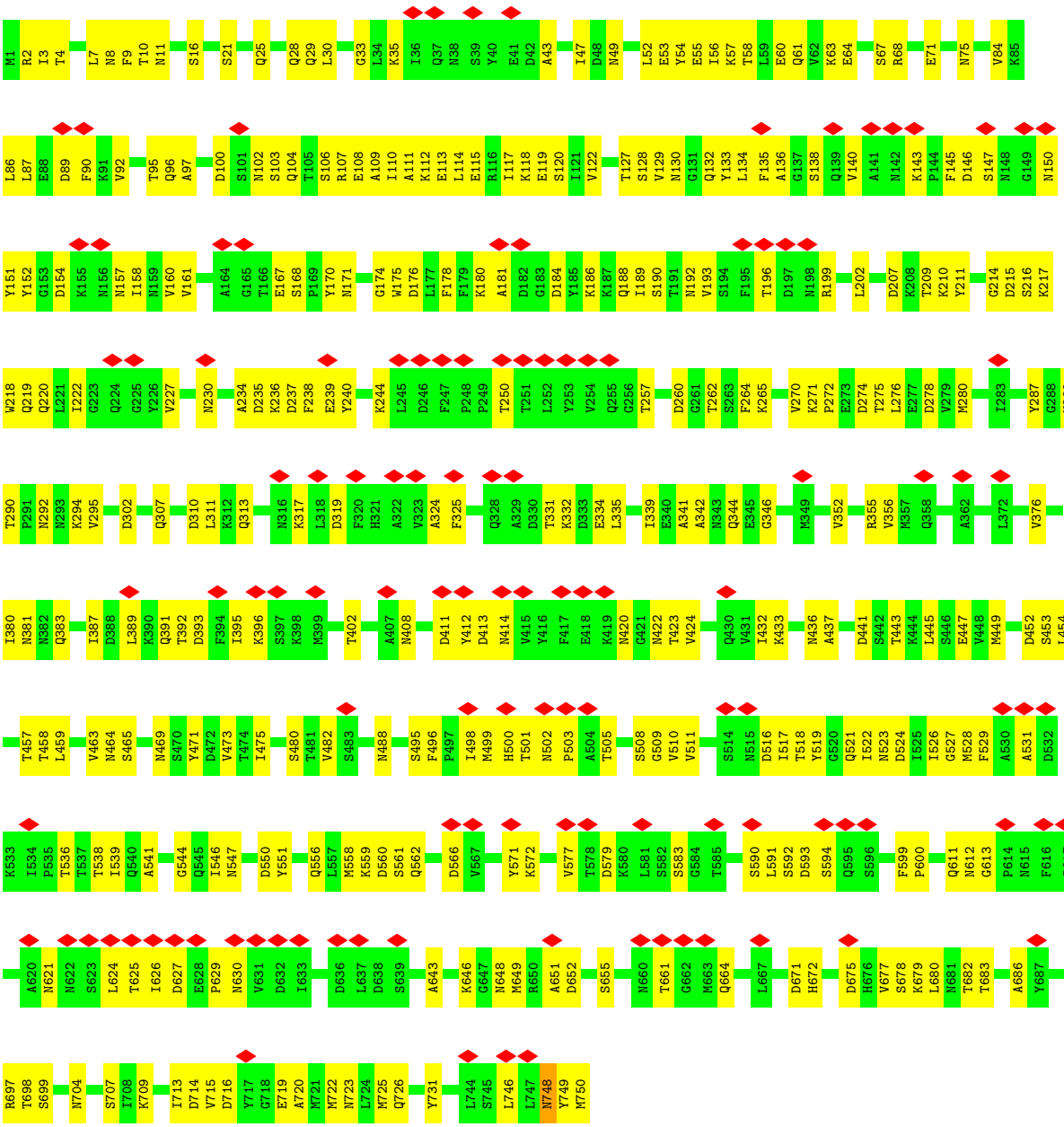
Chain F:





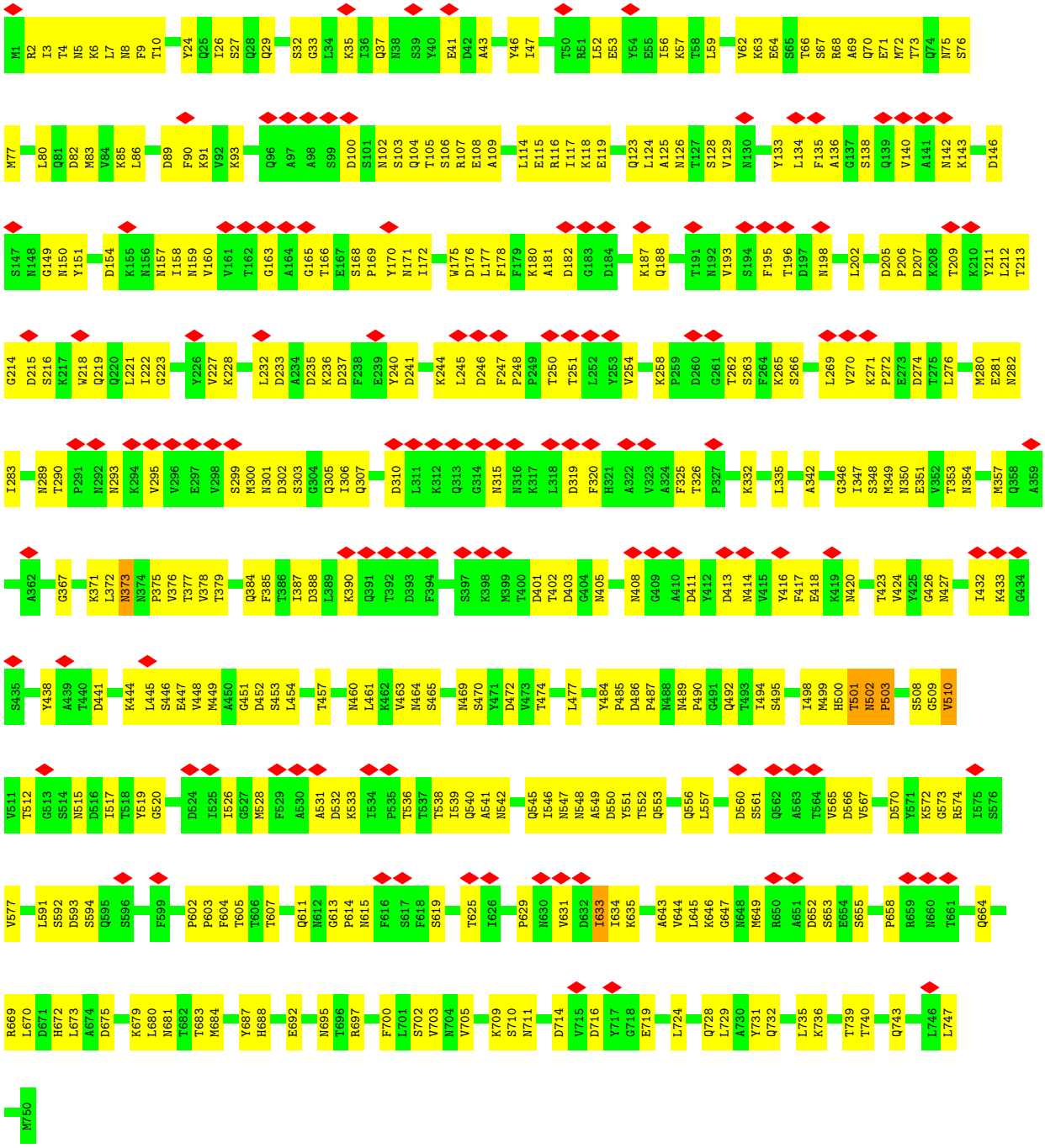
• Molecule 1: Flagellin

Chain G:



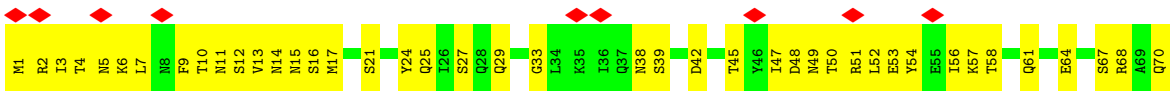
• Molecule 1: Flagellin

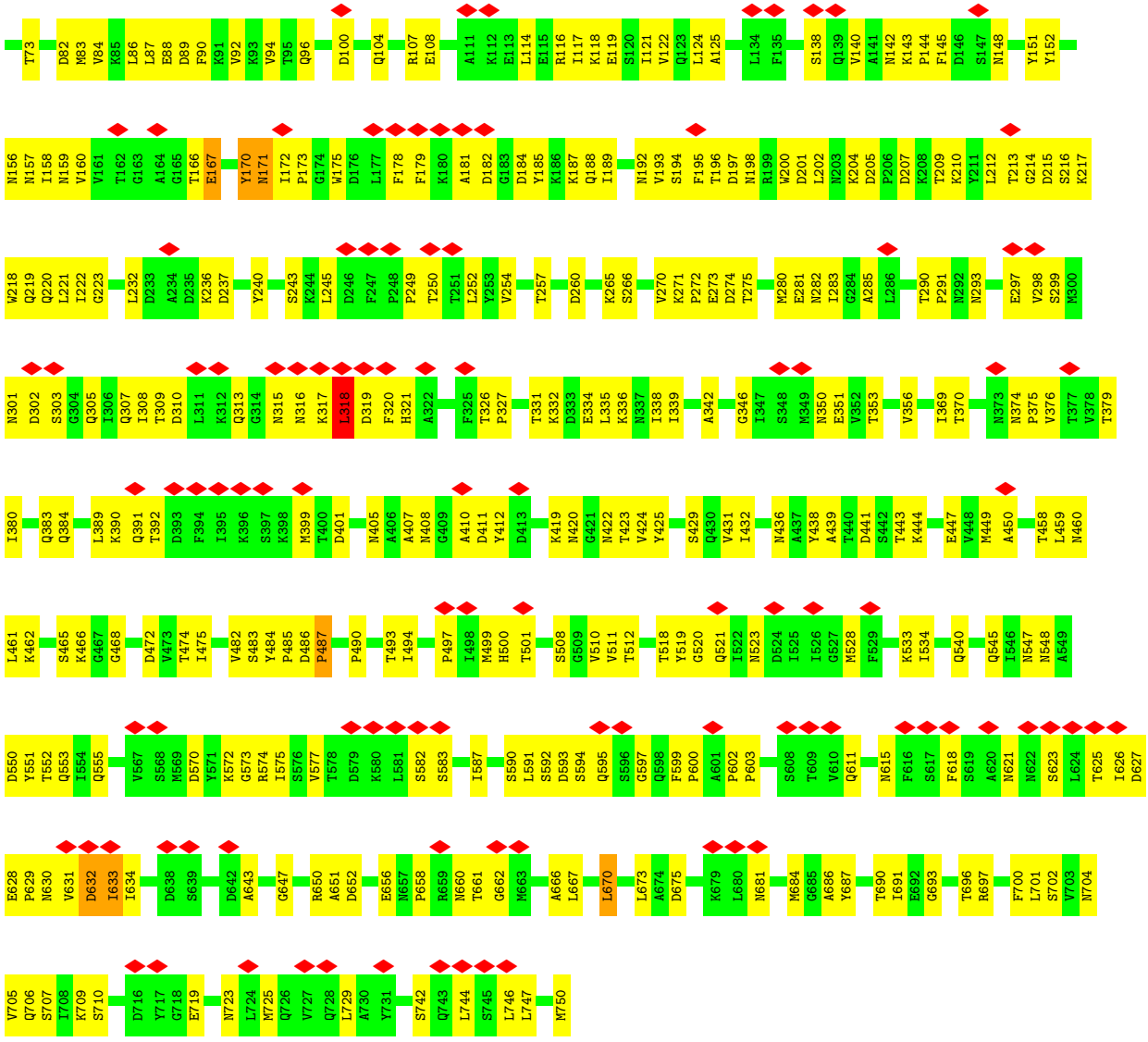
Chain H:



• Molecule 1: Flagellin

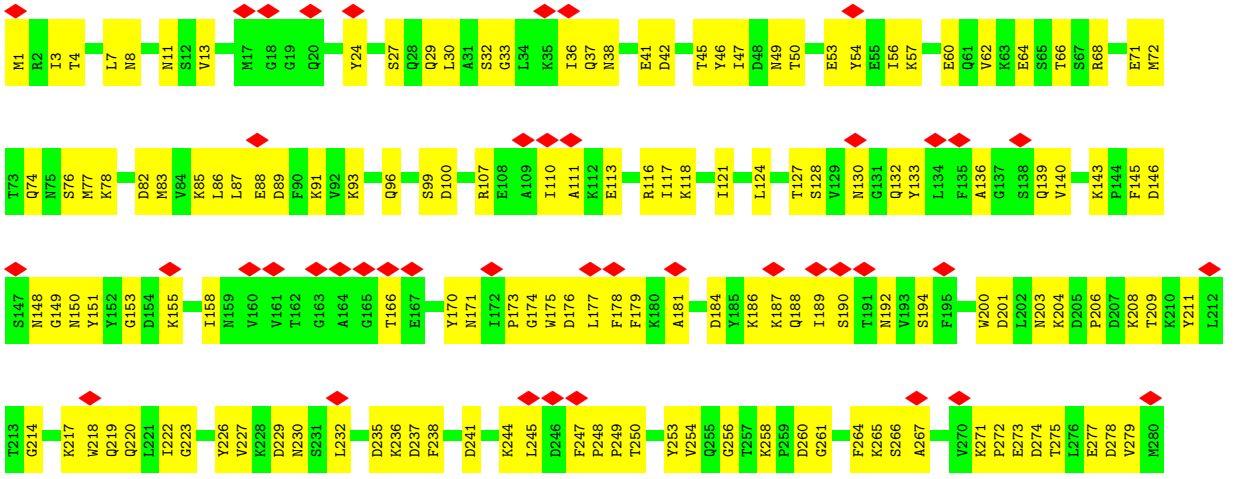
Chain I:

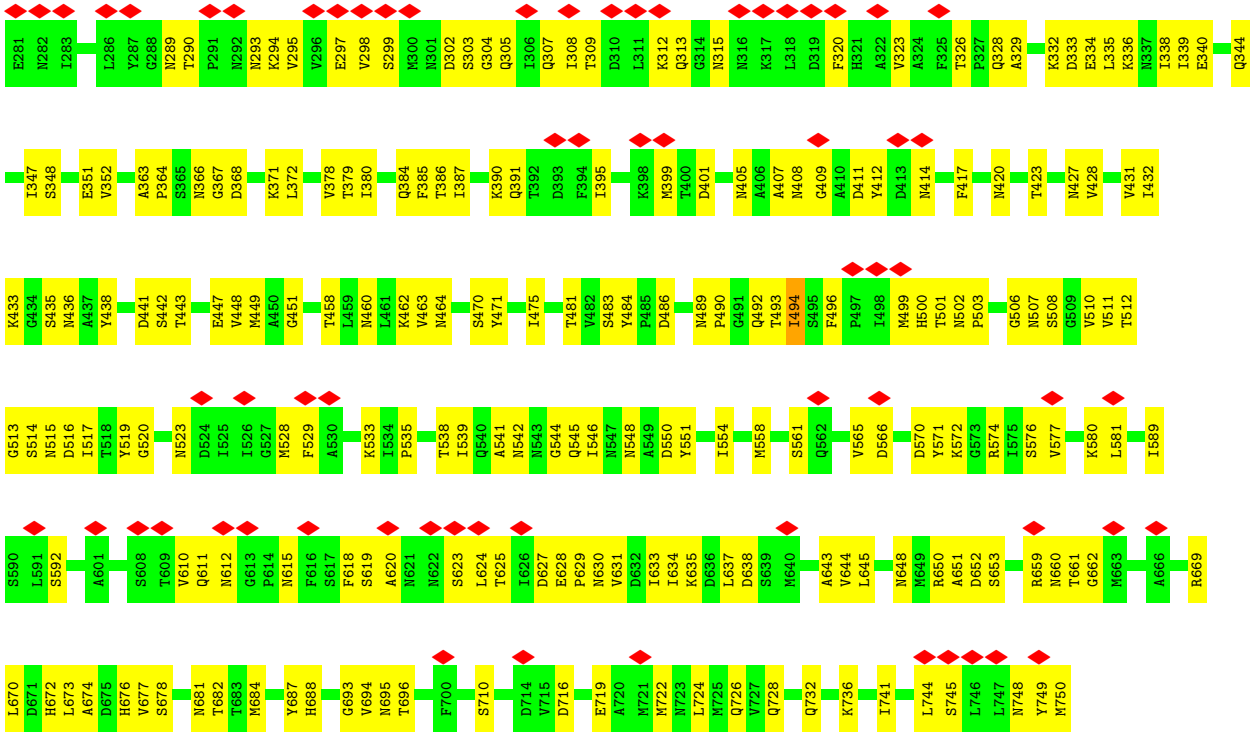




• Molecule 1: Flagellin

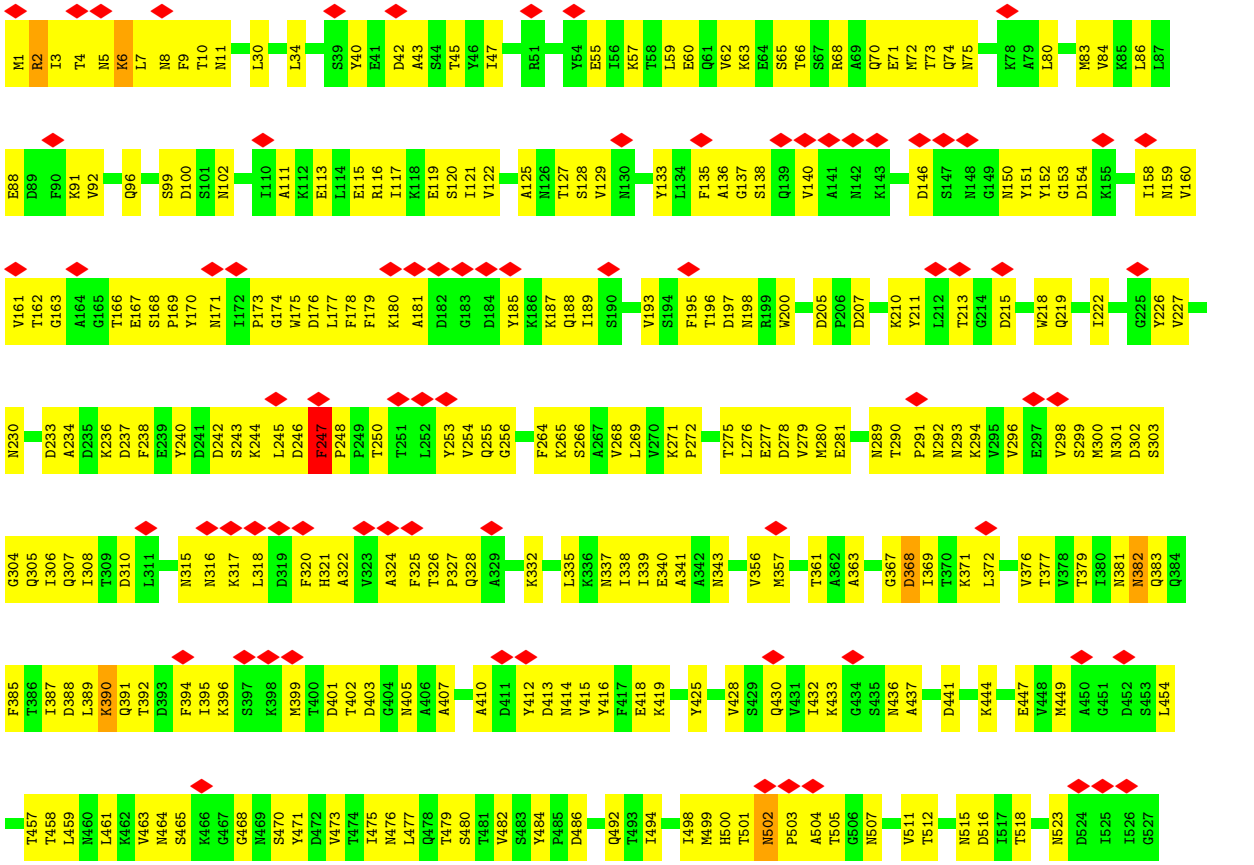
Chain J:

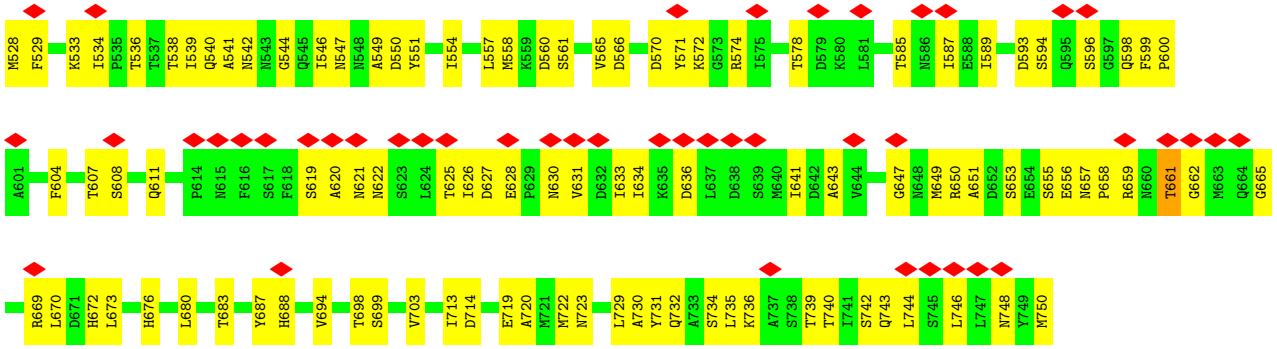




• Molecule 1: Flagellin

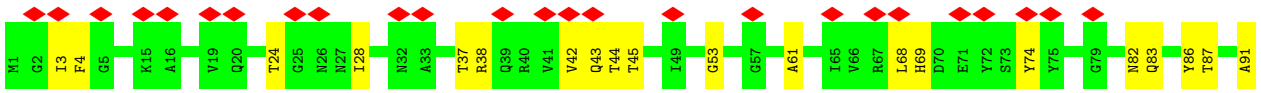
Chain K:

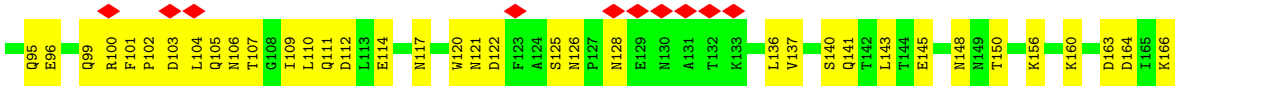


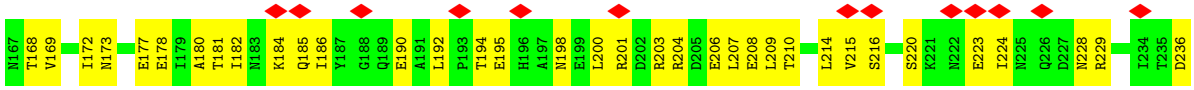


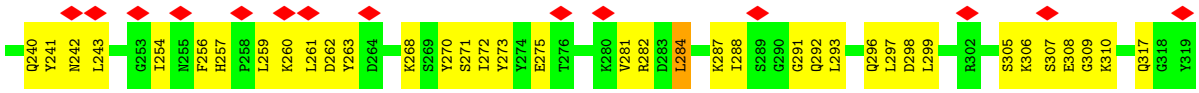
• Molecule 2: Flagellar hook-associated protein 1

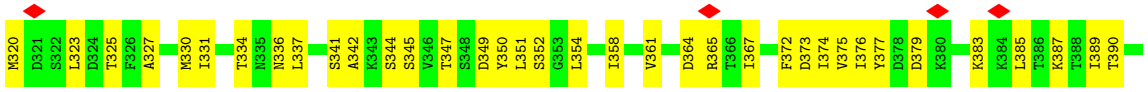
Chain L:

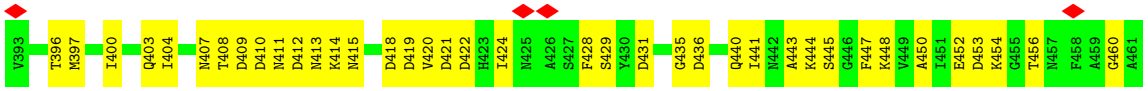


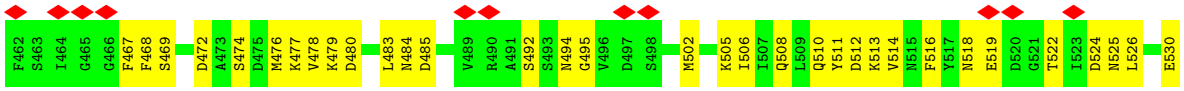


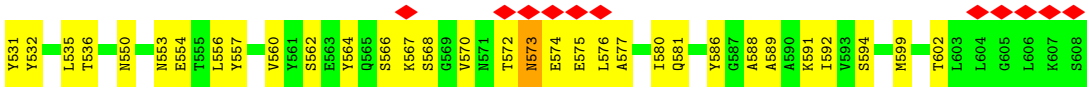






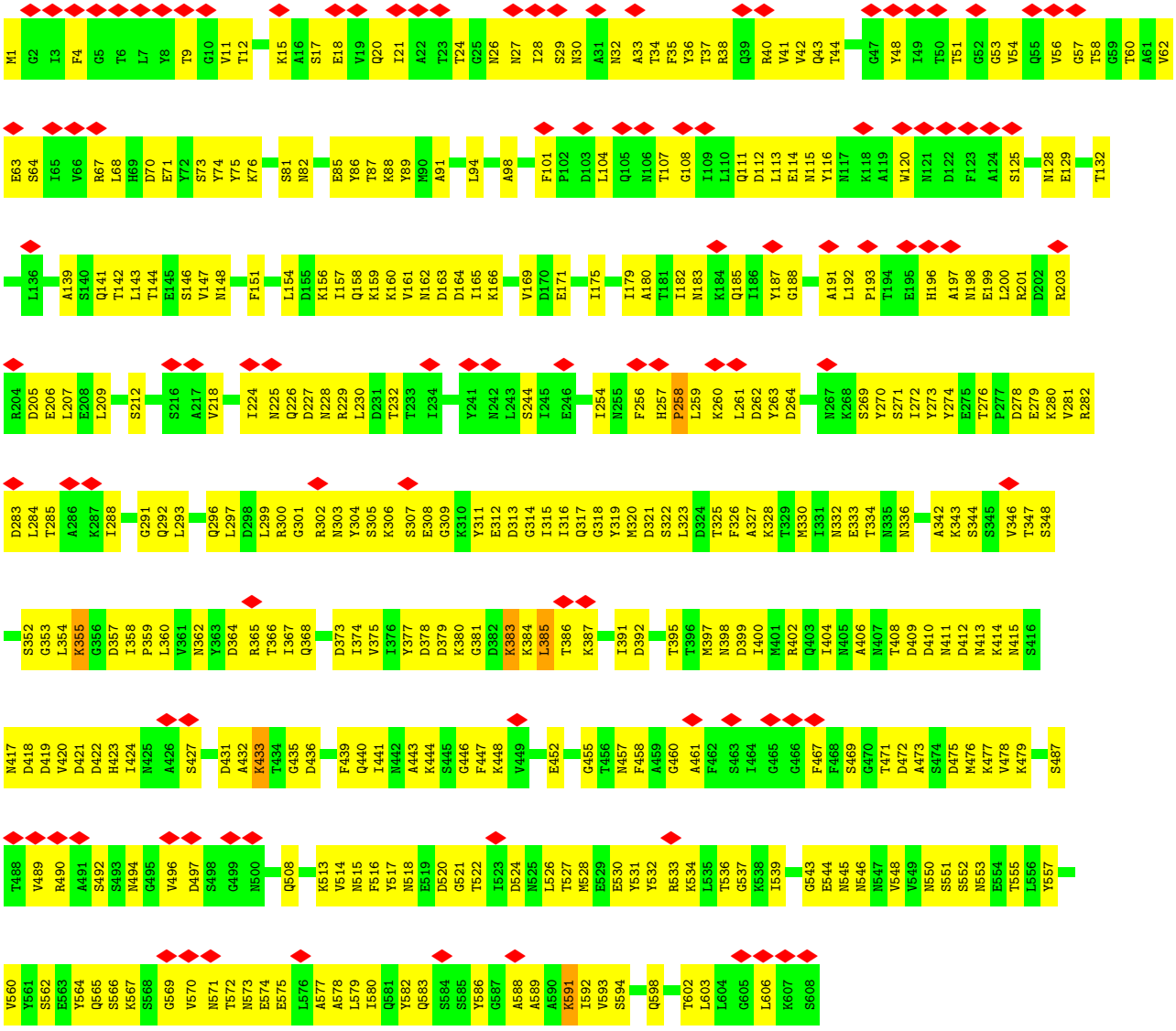






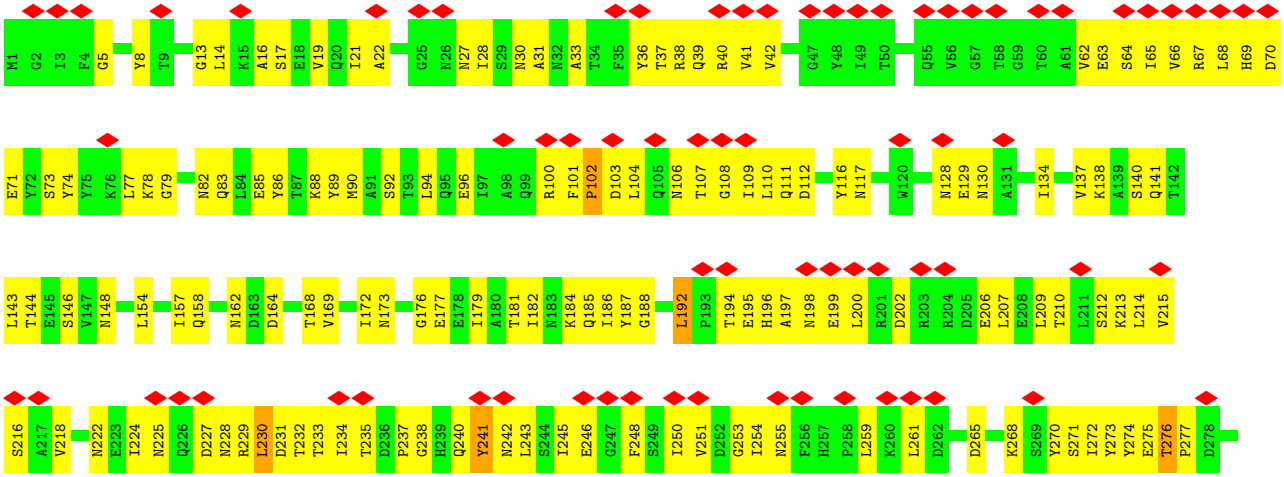
• Molecule 2: Flagellar hook-associated protein 1

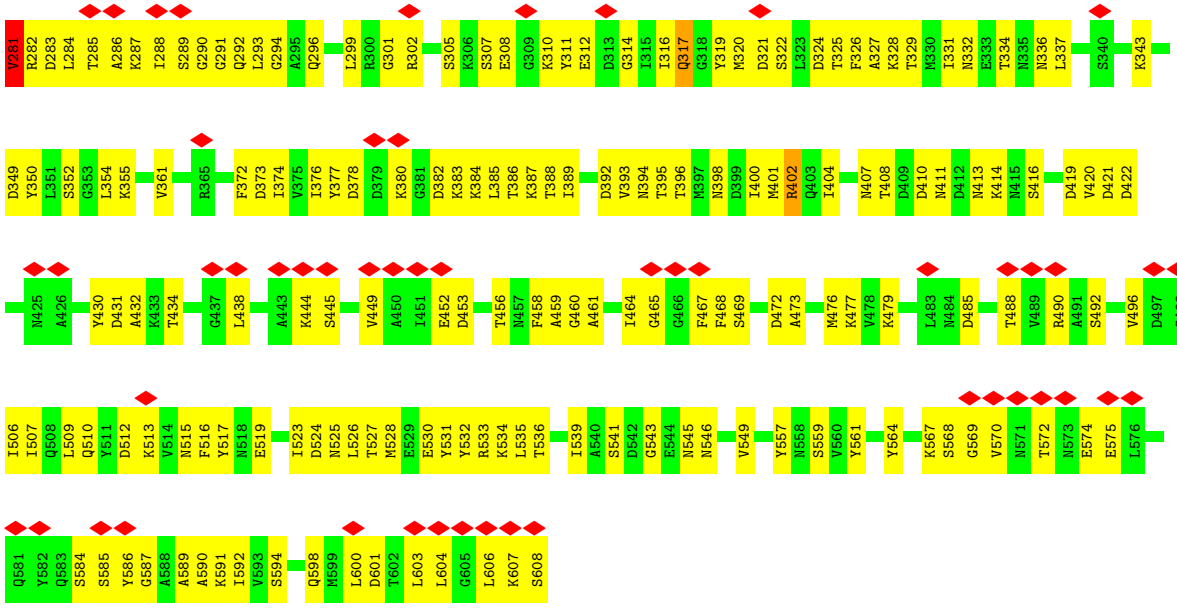
Chain M:



• Molecule 2: Flagellar hook-associated protein 1

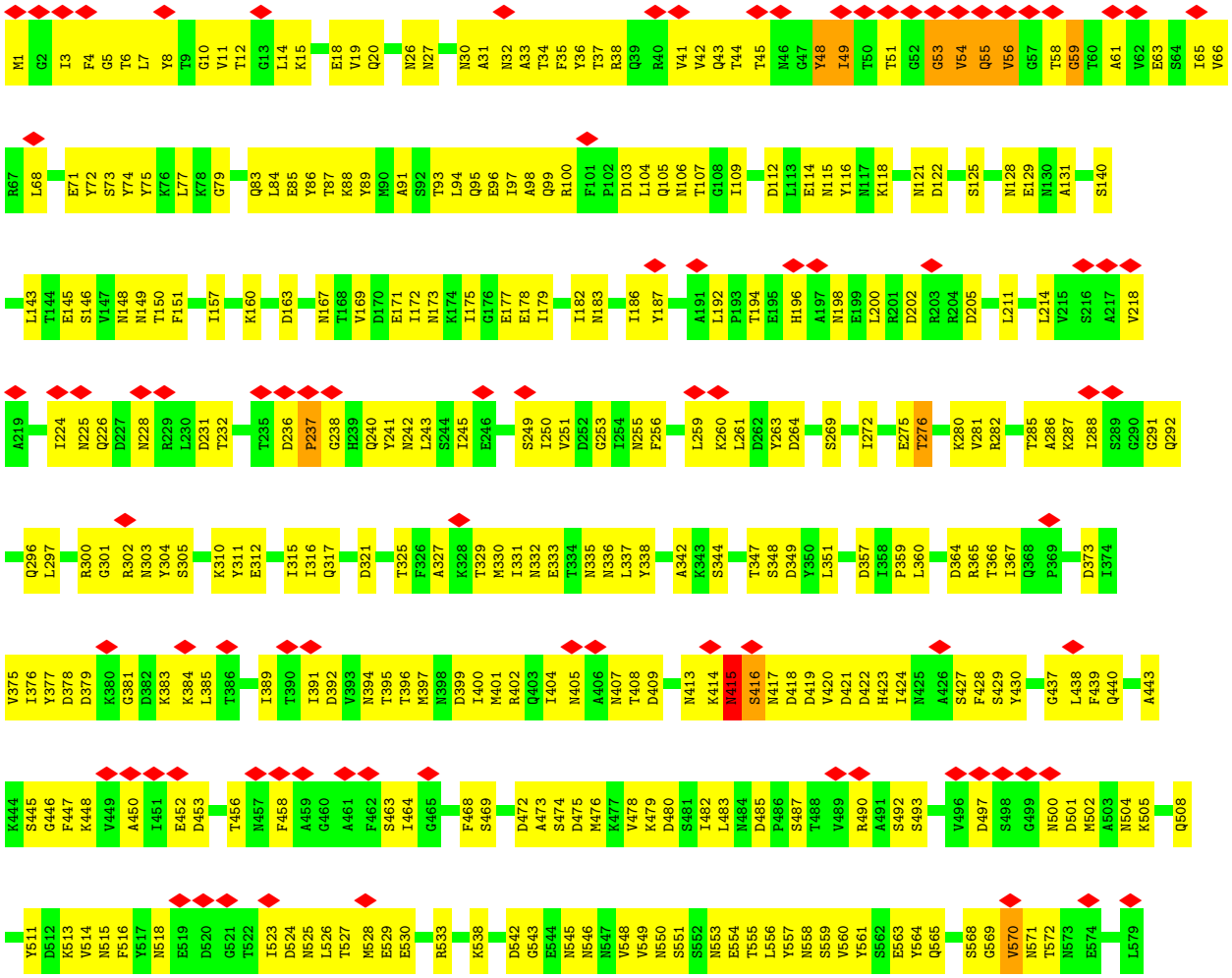
Chain N:

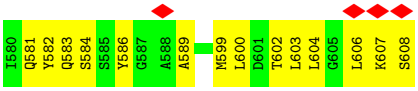




• Molecule 2: Flagellar hook-associated protein 1

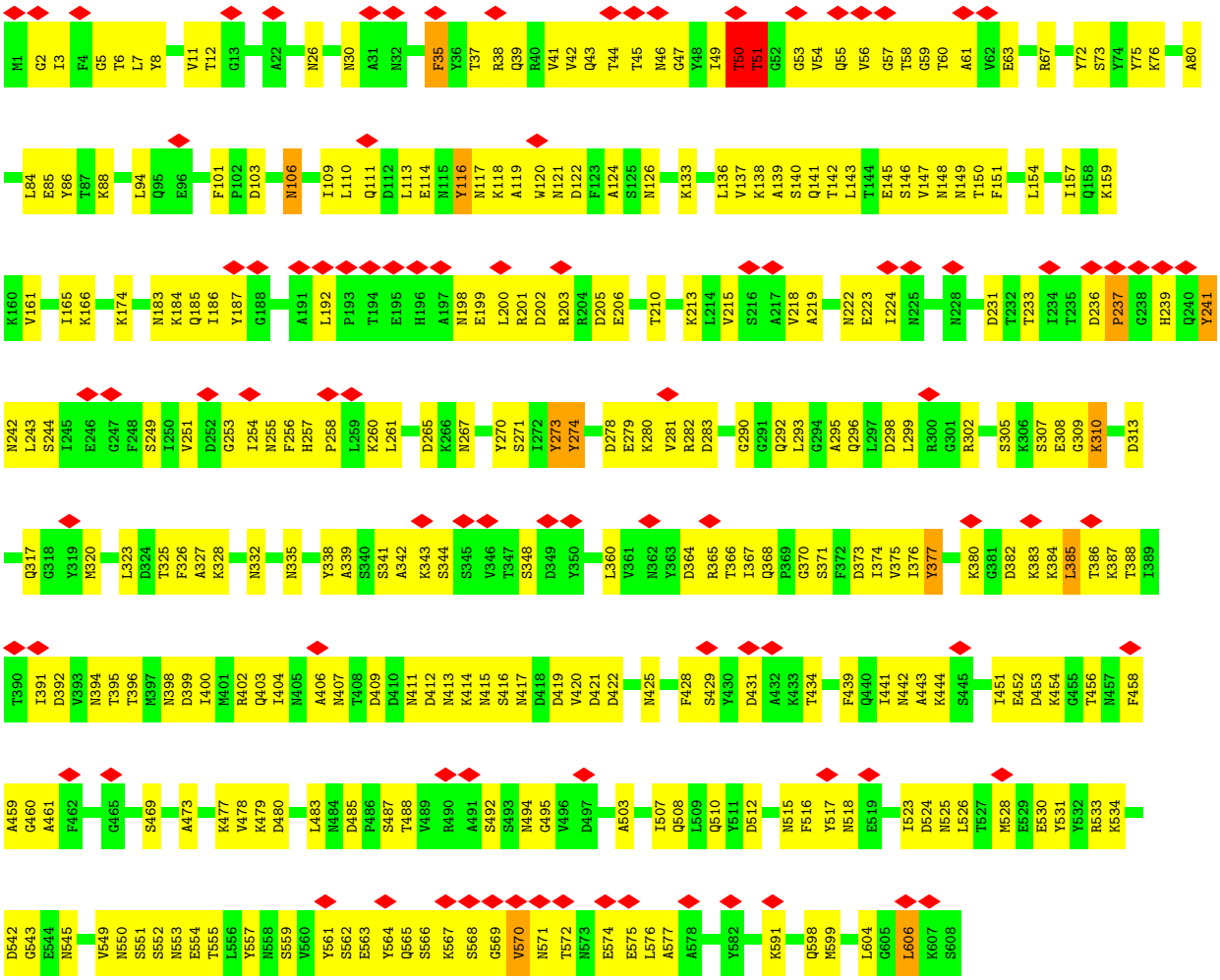
Chain O:





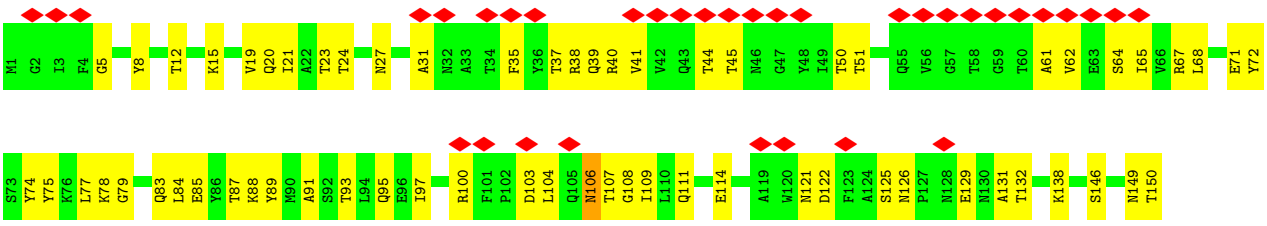
• Molecule 2: Flagellar hook-associated protein 1

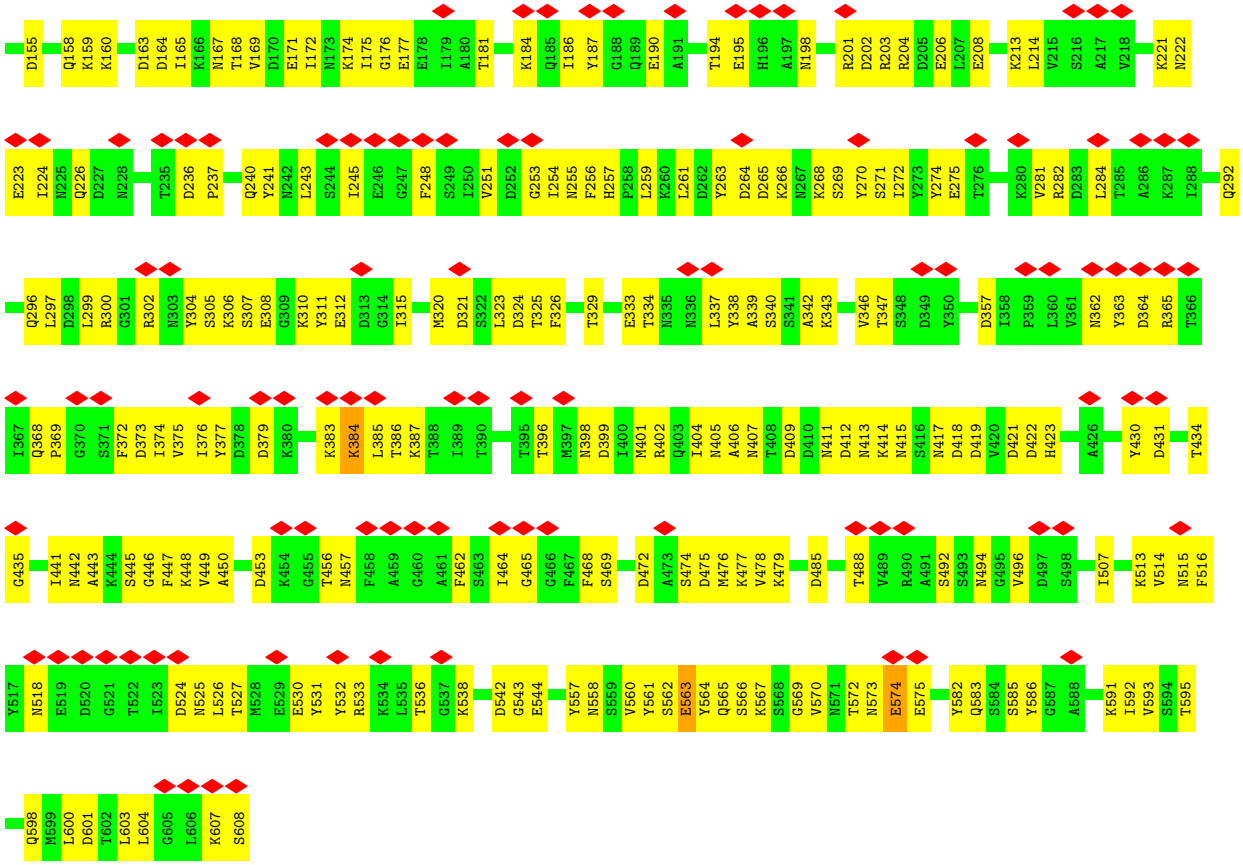
Chain P:



• Molecule 2: Flagellar hook-associated protein 1

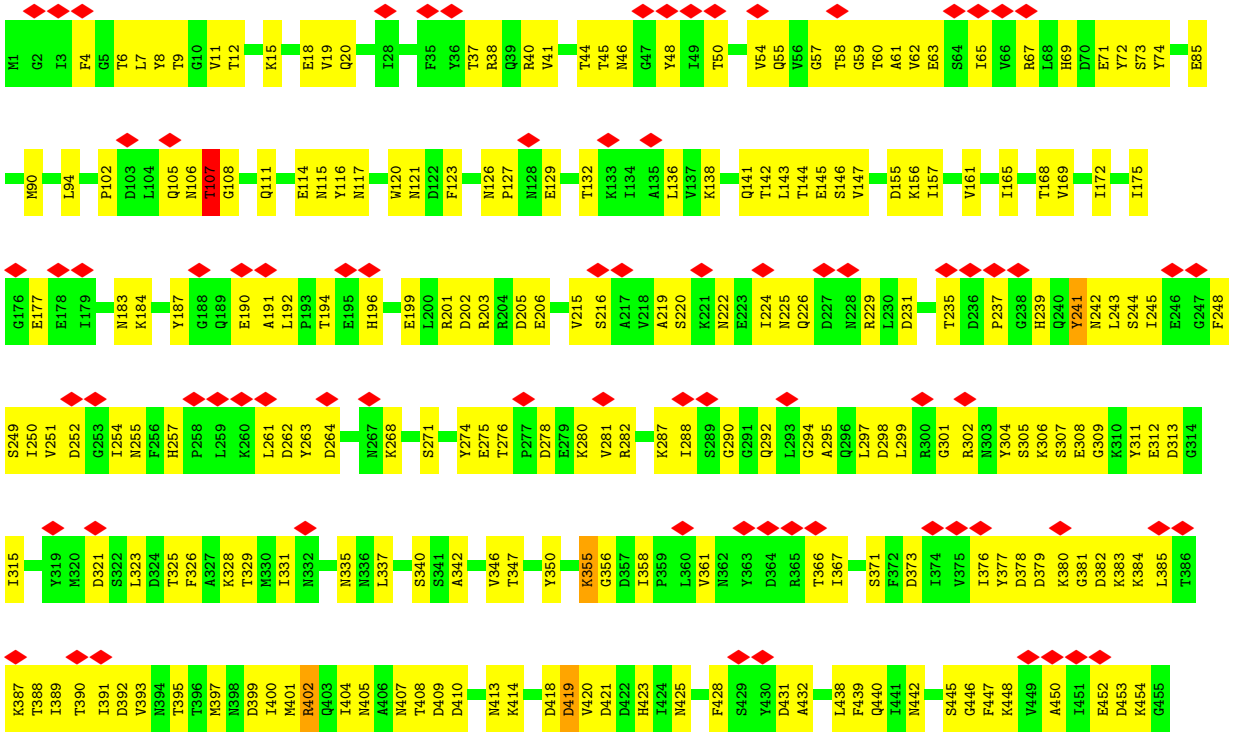
Chain Q:

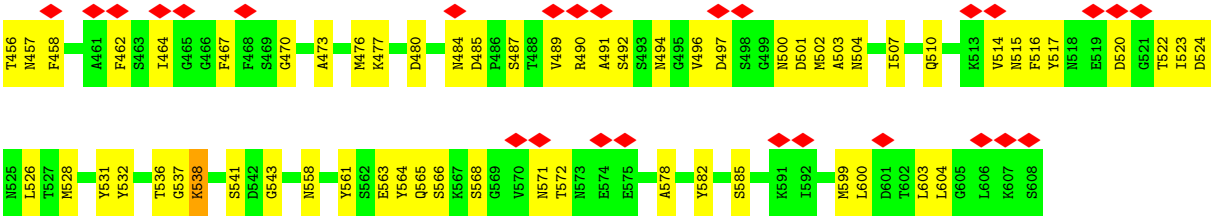




• Molecule 2: Flagellar hook-associated protein 1

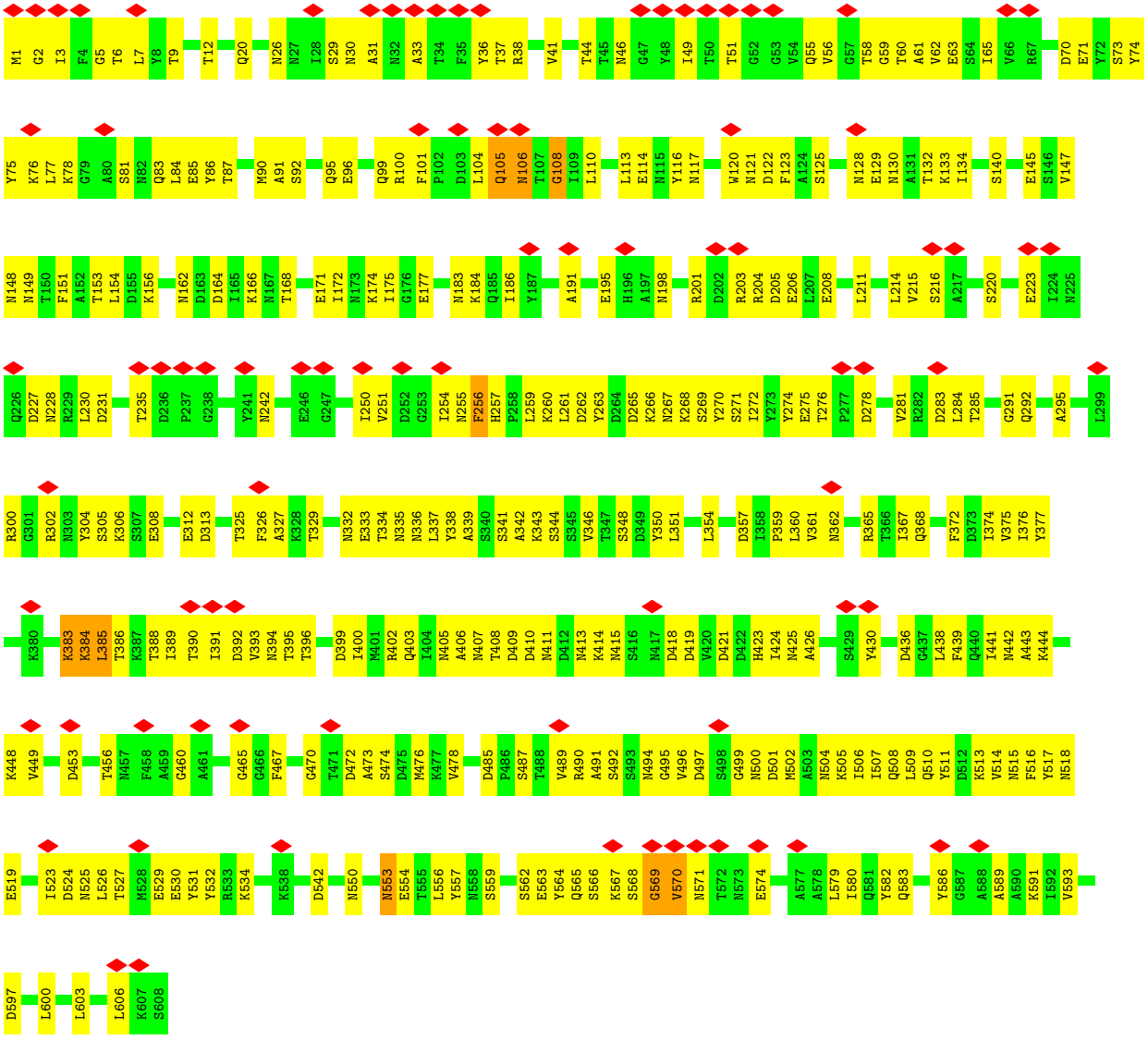
Chain R:





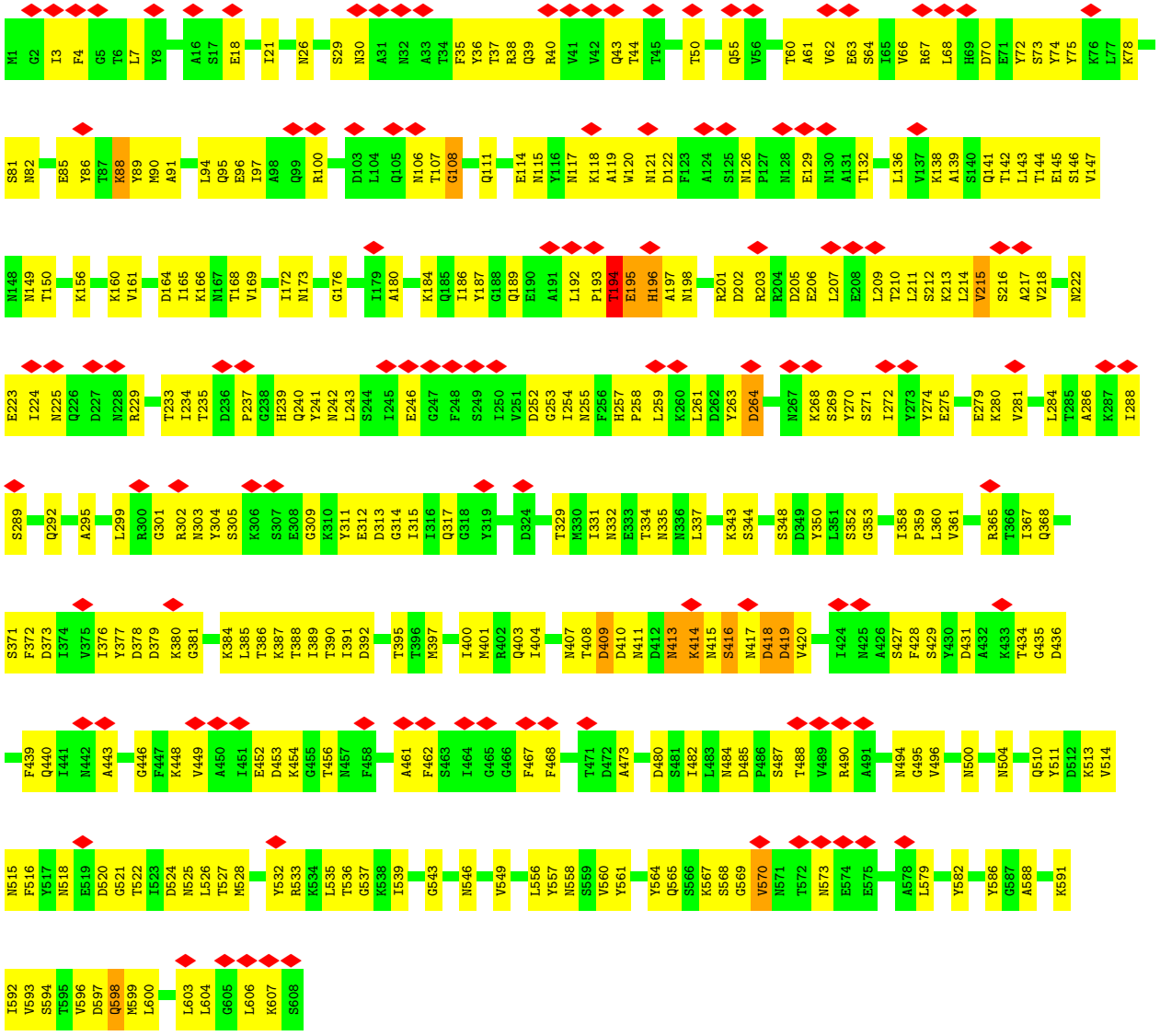
• Molecule 2: Flagellar hook-associated protein 1

Chain S:



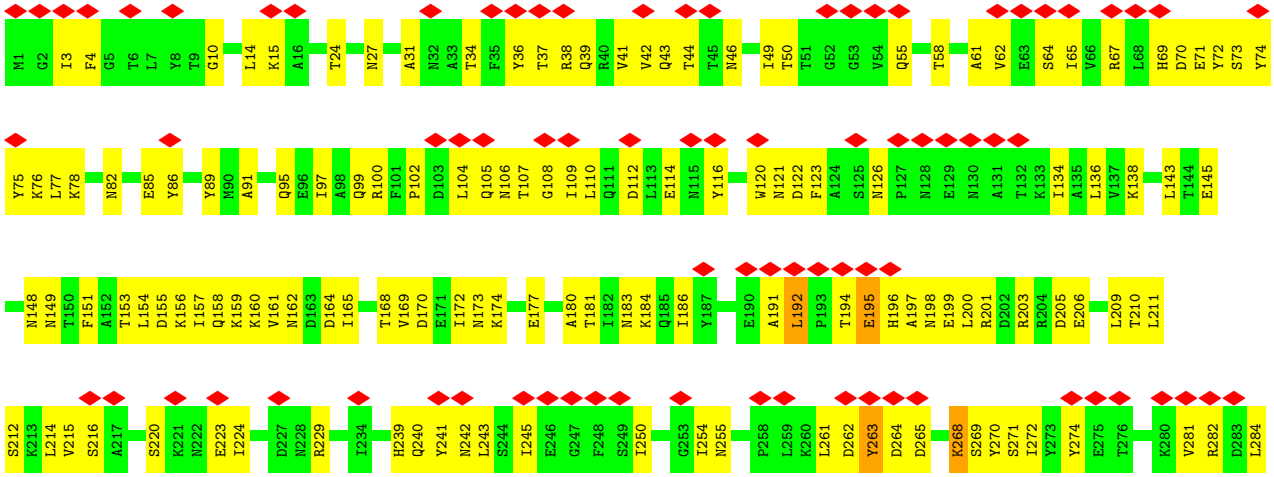
• Molecule 2: Flagellar hook-associated protein 1

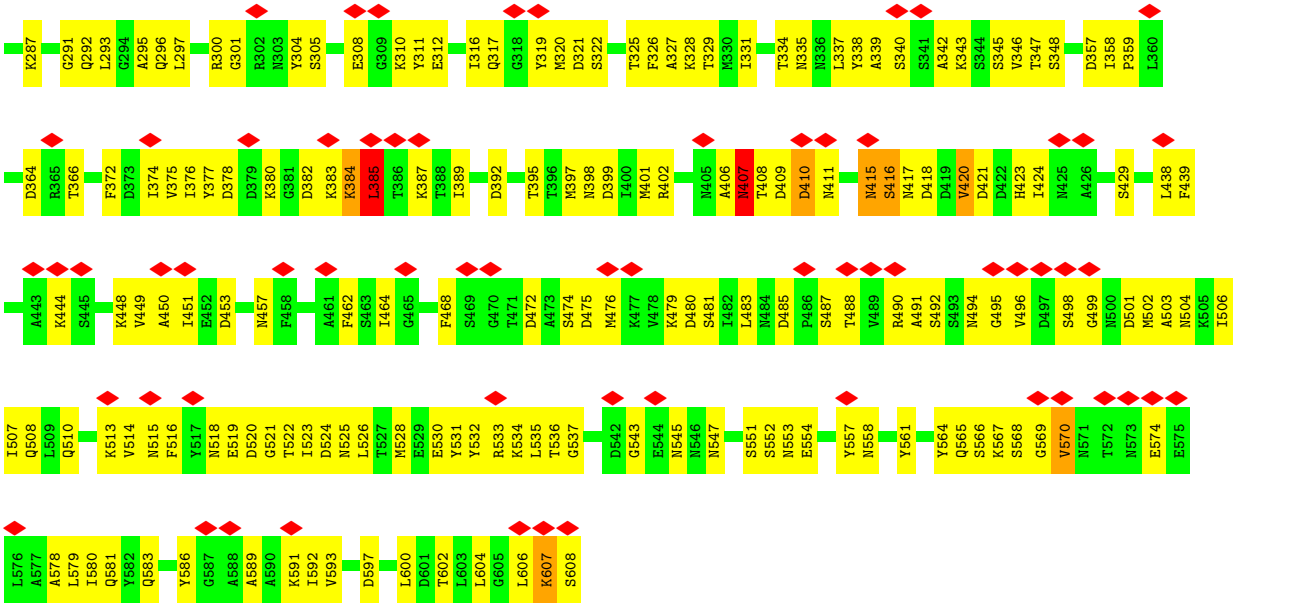
Chain T:



• Molecule 2: Flagellar hook-associated protein 1

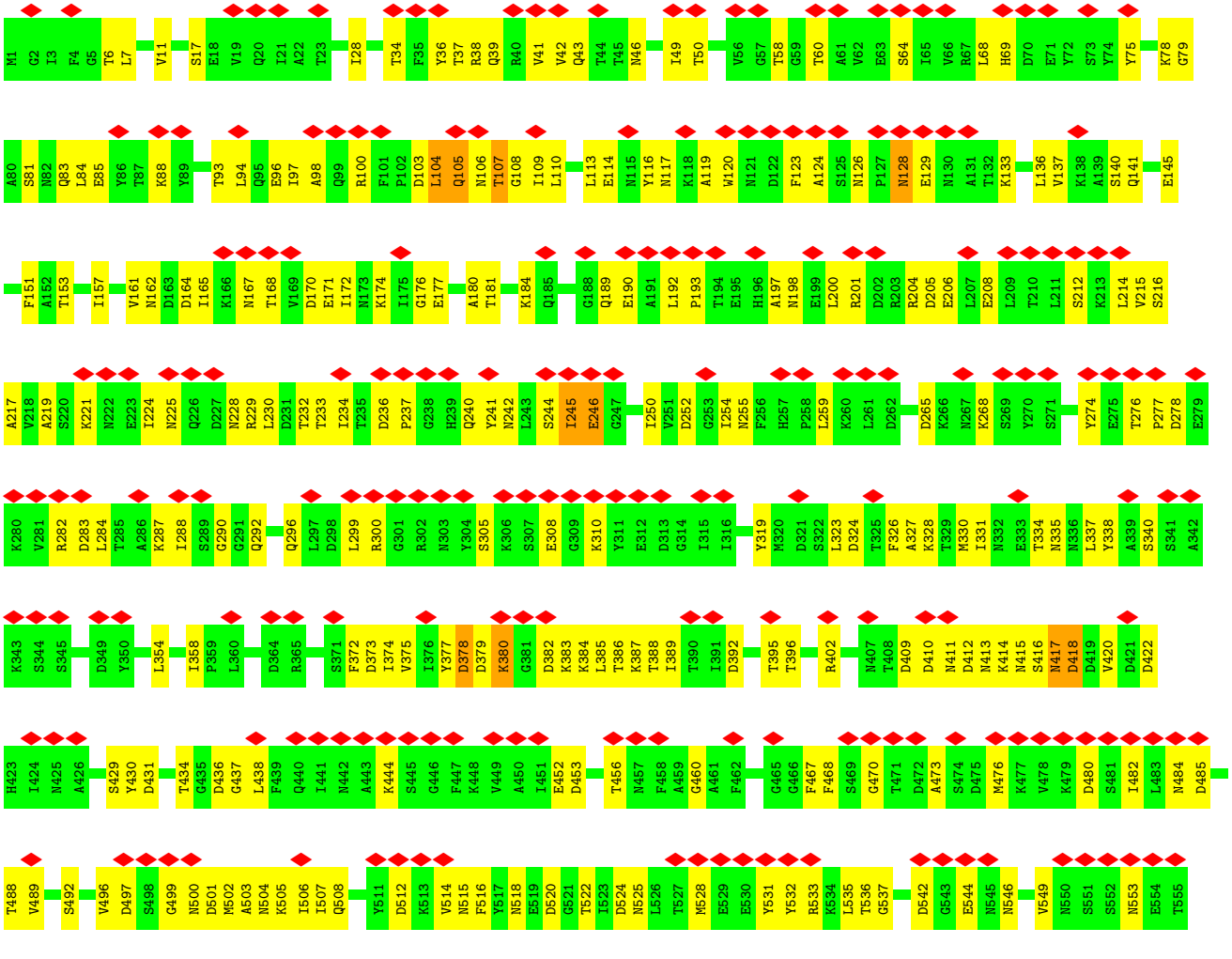
Chain U:





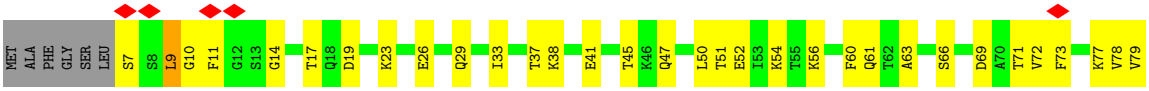
• Molecule 2: Flagellar hook-associated protein 1

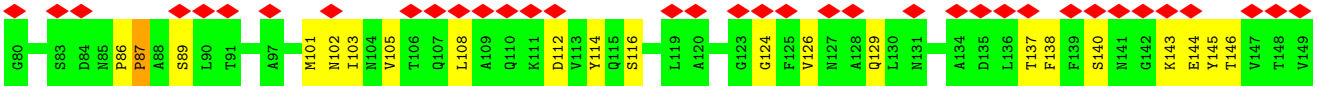
Chain V:

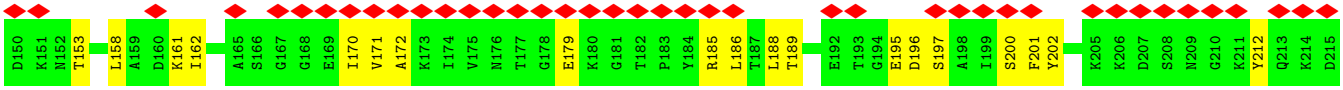


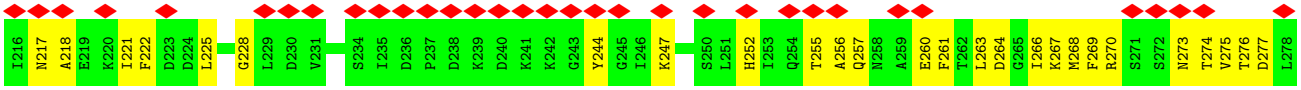
• Molecule 3: Flagellar hook-associated protein 2

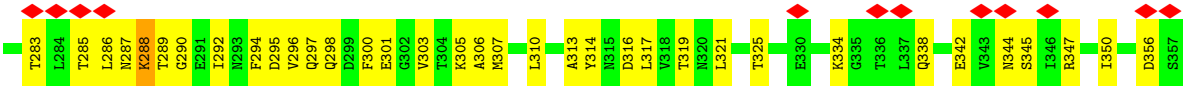
Chain W:

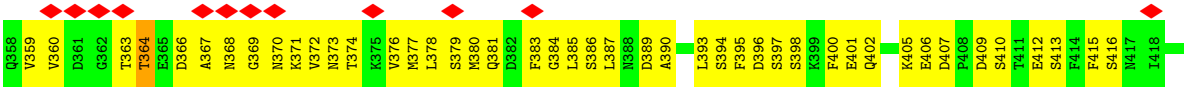


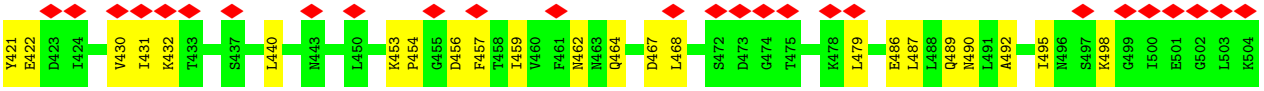


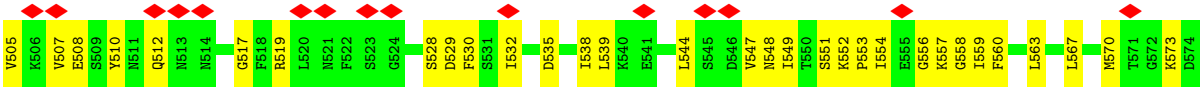


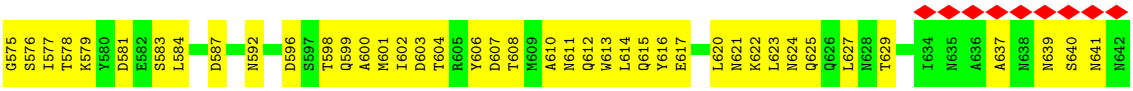






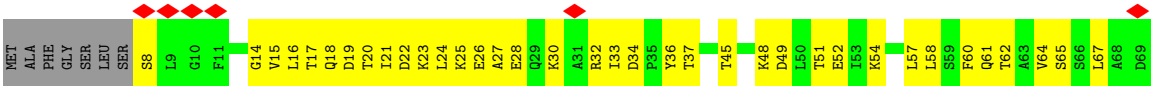


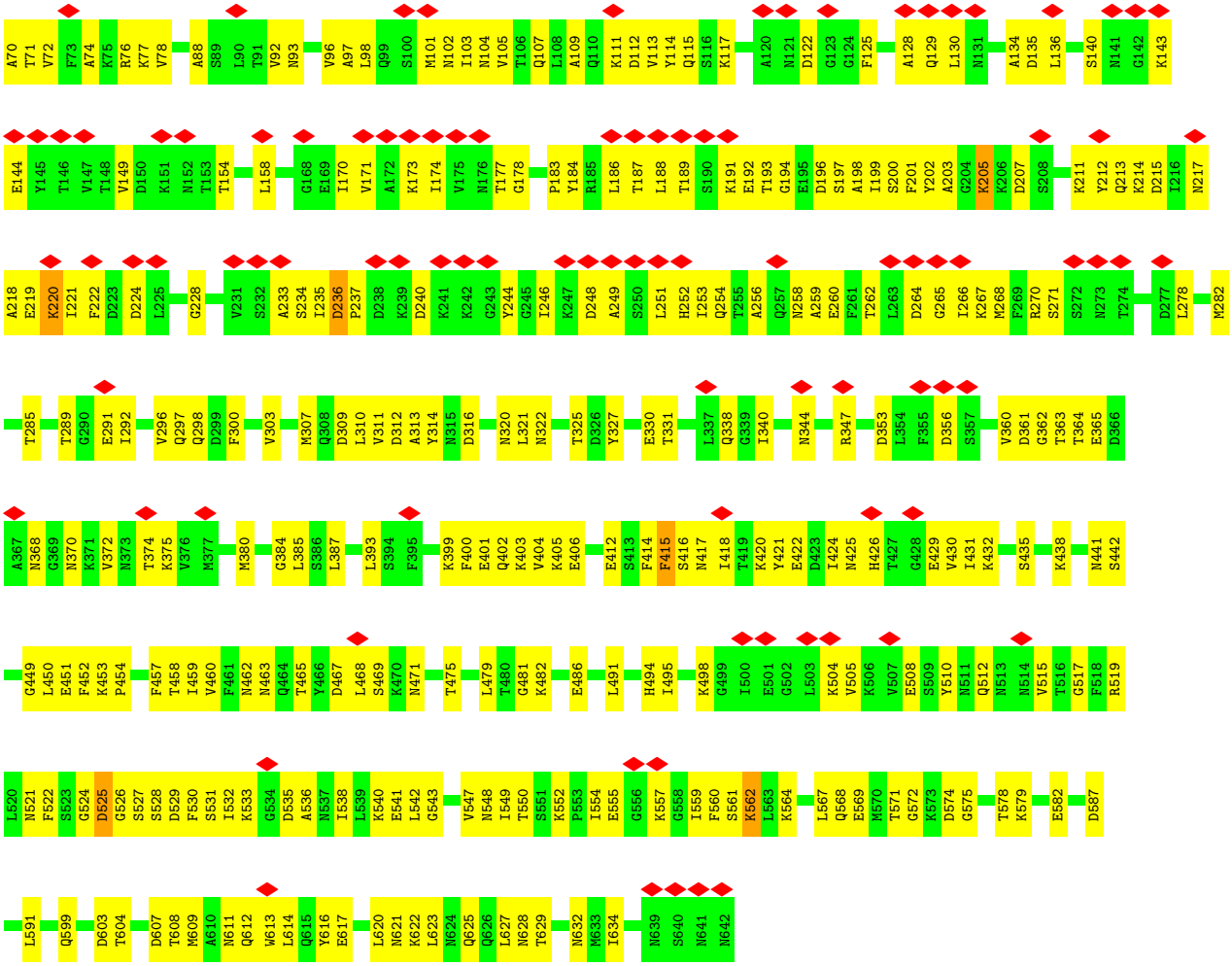




• Molecule 3: Flagellar hook-associated protein 2

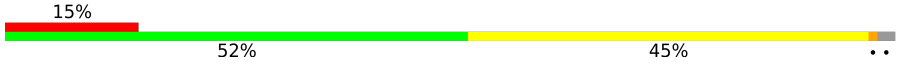
Chain X:

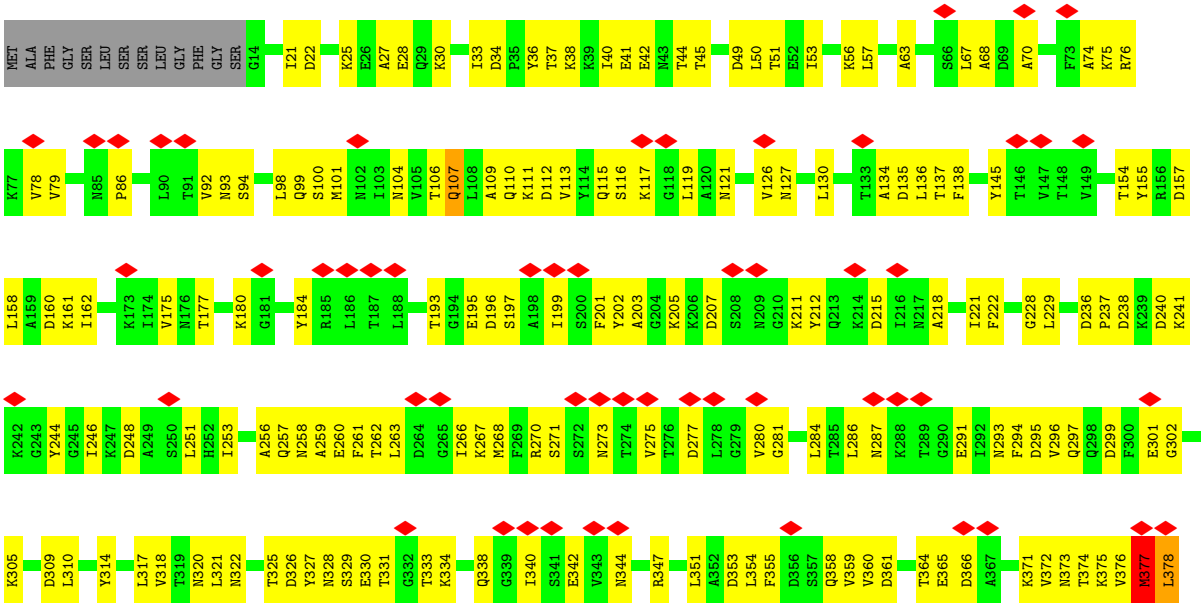


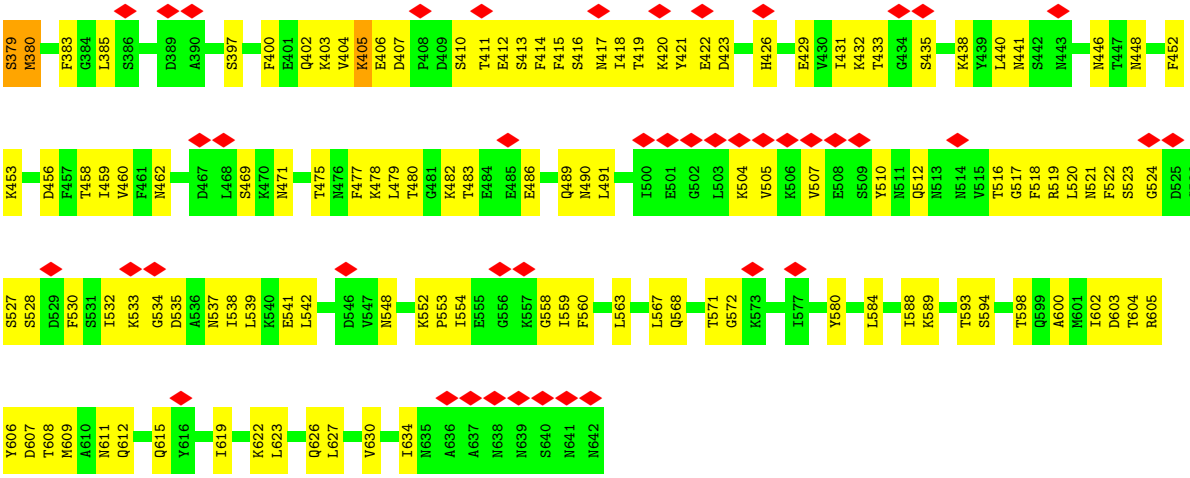


• Molecule 3: Flagellar hook-associated protein 2

Chain Y:

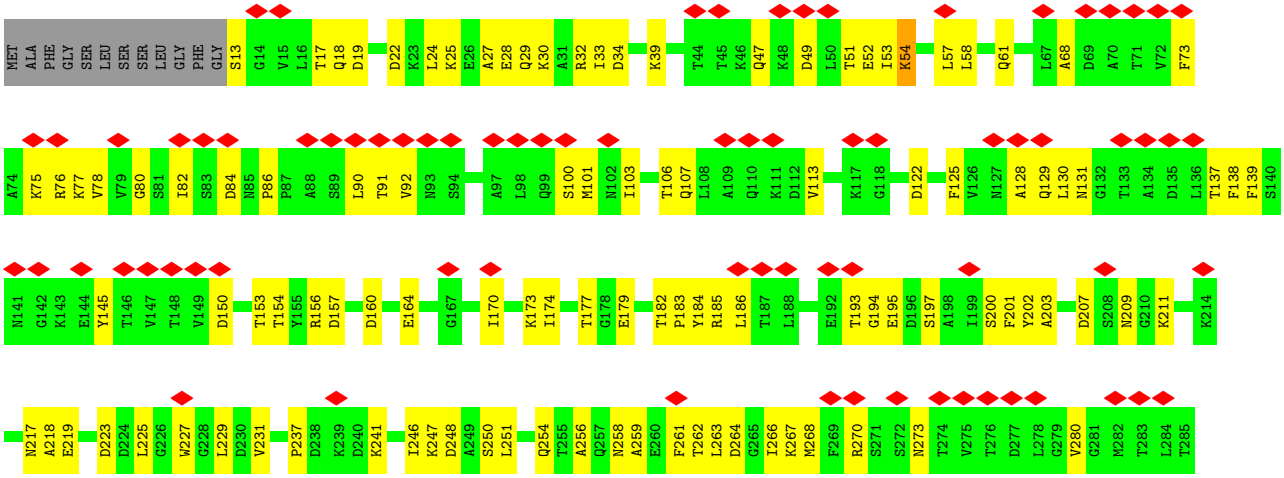


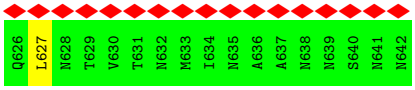




• Molecule 3: Flagellar hook-associated protein 2

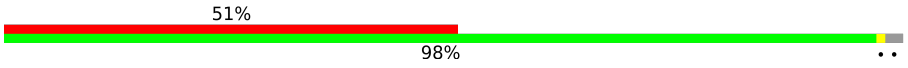
Chain Z:

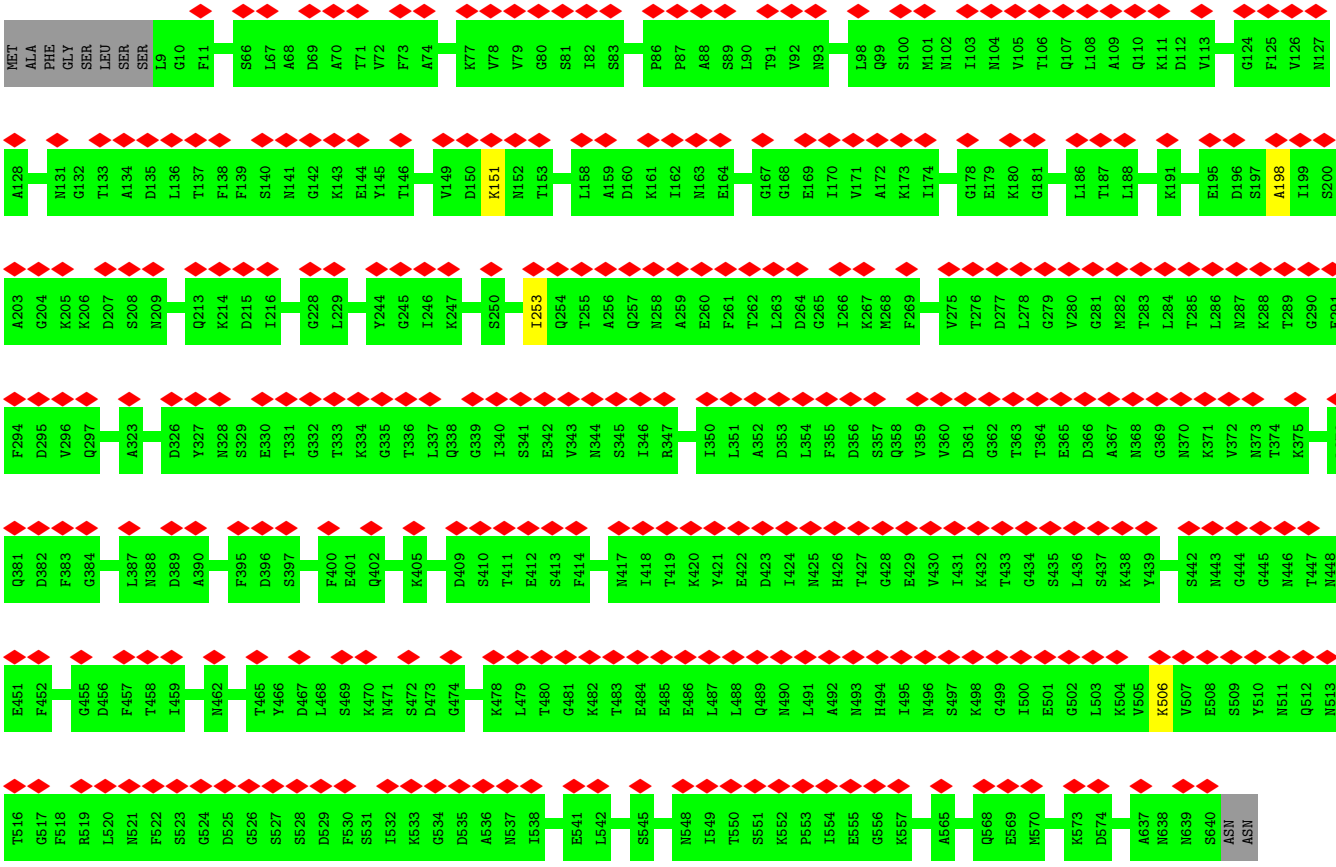




• Molecule 3: Flagellar hook-associated protein 2

Chain a:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	15077	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 BASE (4k x 4k)	Depositor
Maximum map value	0.070	Depositor
Minimum map value	-0.049	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.003	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	660.0, 660.0, 660.0	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.2, 2.2, 2.2	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.28	0/5783	0.50	0/7847
1	B	0.28	0/5834	0.51	0/7914
1	C	0.27	0/5834	0.52	1/7914 (0.0%)
1	D	0.27	0/5834	0.51	0/7914
1	E	0.28	0/5834	0.50	0/7914
1	F	0.26	0/5834	0.51	1/7914 (0.0%)
1	G	0.28	0/5834	0.50	0/7914
1	H	0.28	0/5834	0.52	1/7914 (0.0%)
1	I	0.28	0/5834	0.52	0/7914
1	J	0.28	0/5834	0.52	0/7914
1	K	0.29	0/5834	0.56	4/7914 (0.1%)
2	L	0.28	0/4782	0.52	0/6471
2	M	0.31	1/4782 (0.0%)	0.58	0/6471
2	N	0.29	0/4782	0.54	2/6471 (0.0%)
2	O	0.32	0/4782	0.58	2/6471 (0.0%)
2	P	0.31	0/4782	0.62	6/6471 (0.1%)
2	Q	0.29	0/4782	0.54	0/6471
2	R	0.29	0/4782	0.55	3/6471 (0.0%)
2	S	0.32	0/4782	0.59	4/6471 (0.1%)
2	T	0.29	0/4782	0.60	5/6471 (0.1%)
2	U	0.30	0/4782	0.55	0/6471
2	V	0.31	0/4782	0.57	3/6471 (0.0%)
3	W	0.28	0/4919	0.53	2/6637 (0.0%)
3	X	0.29	0/4913	0.55	4/6629 (0.1%)
3	Y	0.28	0/4873	0.52	0/6576
3	Z	0.27	0/4879	0.49	0/6584
3	a	0.26	0/4890	0.49	0/6599
All	All	0.29	1/141199 (0.0%)	0.54	38/191193 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	385	LEU	C-N	-5.89	1.20	1.34

All (38) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	S	569	GLY	N-CA-C	8.87	135.28	113.10
2	V	378	ASP	N-CA-C	-7.86	89.77	111.00
3	W	364	THR	N-CA-C	7.71	131.82	111.00
1	K	662	GLY	N-CA-C	7.71	132.37	113.10
3	X	236	ASP	N-CA-C	-7.62	90.44	111.00
2	N	230	LEU	N-CA-C	-7.30	91.30	111.00
2	O	415	ASN	CB-CA-C	7.25	124.90	110.40
2	T	414	LYS	N-CA-C	6.56	128.71	111.00
2	P	273	TYR	CB-CA-C	-6.48	97.45	110.40
2	S	105	GLN	N-CA-C	-6.40	93.72	111.00
2	V	590	ALA	O-C-N	-6.33	112.58	122.70
1	K	661	THR	N-CA-C	-6.23	94.17	111.00
1	K	247	PHE	C-N-CD	-6.20	106.96	120.60
3	W	364	THR	CB-CA-C	-6.17	94.93	111.60
2	T	419	ASP	N-CA-C	6.15	127.61	111.00
2	T	409	ASP	N-CA-C	6.14	127.57	111.00
2	S	230	LEU	N-CA-C	-5.98	94.85	111.00
1	F	199	ARG	N-CA-C	-5.87	95.17	111.00
1	C	187	LYS	N-CA-C	5.81	126.68	111.00
2	R	241	TYR	N-CA-C	5.79	126.64	111.00
2	P	50	THR	N-CA-C	5.77	126.59	111.00
2	T	194	THR	N-CA-C	5.77	126.59	111.00
2	P	274	TYR	N-CA-C	-5.64	95.77	111.00
2	P	385	LEU	CA-CB-CG	5.61	128.19	115.30
2	V	568	SER	N-CA-C	5.55	125.97	111.00
2	N	281	VAL	N-CA-C	5.51	125.87	111.00
1	K	2	ARG	N-CA-CB	-5.49	100.72	110.60
2	O	59	GLY	N-CA-C	-5.38	99.66	113.10
2	T	195	GLU	N-CA-C	5.25	125.17	111.00
1	H	502	ASN	N-CA-C	5.23	125.12	111.00
2	S	108	GLY	N-CA-C	5.18	126.06	113.10
2	R	419	ASP	N-CA-C	5.17	124.96	111.00
3	X	525	ASP	N-CA-C	5.11	124.80	111.00
3	X	234	SER	N-CA-C	-5.07	97.30	111.00
3	X	235	ILE	N-CA-C	5.07	124.69	111.00
2	P	51	THR	N-CA-C	-5.07	97.31	111.00
2	P	236	ASP	N-CA-C	-5.05	97.36	111.00
2	R	107	THR	N-CA-C	-5.03	97.42	111.00

There are no chirality outliers.

There are no planarity outliers.

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	5700	5509	5505	273	0
1	B	5751	5570	5567	310	0
1	C	5751	5570	5567	315	0
1	D	5751	5570	5567	232	0
1	E	5751	5570	5567	265	0
1	F	5751	5570	5567	226	0
1	G	5751	5570	5567	293	0
1	H	5751	5570	5567	322	0
1	I	5751	5570	5567	343	0
1	J	5751	5570	5567	314	0
1	K	5751	5570	5567	395	0
2	L	4718	4554	4562	235	0
2	M	4718	4554	4562	320	0
2	N	4718	4554	4563	285	0
2	O	4718	4554	4563	353	0
2	P	4718	4554	4563	354	0
2	Q	4718	4554	4563	268	0
2	R	4718	4554	4563	236	0
2	S	4718	4554	4563	342	0
2	T	4718	4554	4563	321	0
2	U	4718	4554	4563	295	0
2	V	4718	4554	4563	229	0
3	W	4862	4769	4767	236	0
3	X	4856	4764	4763	289	0
3	Y	4817	4728	4727	257	0
3	Z	4823	4733	4732	176	0
3	a	4833	4747	4746	0	0
All	All	139299	135044	135101	6948	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 26.

All (6948) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:632:ASP:OD1	1:B:633:ILE:HG13	1.47	1.14
3:W:9:LEU:HB3	3:W:624:ASN:OD1	1.48	1.12
3:Z:361:ASP:OD1	3:Z:375:LYS:NZ	1.86	1.08
1:B:628:GLU:HB2	1:B:631:VAL:HG22	1.37	1.05
2:S:332:ASN:OD1	2:S:336:ASN:ND2	1.90	1.05
2:R:399:ASP:OD1	2:R:402:ARG:NH2	1.91	1.03
2:L:409:ASP:OD2	2:L:414:LYS:N	1.94	1.00
1:K:3:ILE:O	2:S:565:GLN:N	1.95	1.00
2:N:102:PRO:HA	2:N:106:ASN:OD1	1.62	0.99
2:Q:453:ASP:OD1	2:Q:456:THR:OG1	1.79	0.99
1:K:3:ILE:H	2:S:567:LYS:N	1.60	0.98
1:B:572:LYS:HE3	1:B:631:VAL:HG12	1.42	0.98
1:D:328:GLN:NE2	1:D:329:ALA:O	1.97	0.98
1:G:290:THR:OG1	1:G:292:ASN:OD1	1.81	0.98
1:B:213:THR:OG1	1:B:215:ASP:OD1	1.80	0.97
1:B:378:VAL:HG22	1:B:387:ILE:HD11	1.47	0.96
3:X:420:LYS:O	3:X:554:ILE:N	1.97	0.96
2:U:160:LYS:NZ	2:U:164:ASP:OD1	1.97	0.96
1:B:162:THR:O	1:B:166:THR:OG1	1.80	0.96
1:J:501:THR:O	2:T:415:ASN:N	1.98	0.96
2:M:411:ASN:ND2	2:M:419:ASP:OD1	1.98	0.96
1:A:719:GLU:OE1	3:W:616:TYR:OH	1.84	0.96
1:I:3:ILE:O	2:P:565:GLN:N	1.96	0.96
1:B:184:ASP:O	1:B:313:GLN:NE2	1.98	0.95
3:X:173:LYS:O	3:X:187:THR:OG1	1.84	0.95
2:P:54:VAL:CG1	2:T:197:ALA:HB3	1.97	0.94
2:Q:305:SER:OG	2:Q:308:GLU:OE2	1.86	0.94
1:K:3:ILE:HG23	2:S:563:GLU:O	1.68	0.93
2:N:396:THR:OG1	2:N:398:ASN:OD1	1.86	0.93
1:E:524:ASP:OD2	2:L:415:ASN:ND2	2.01	0.93
1:C:464:ASN:OD1	1:C:470:SER:OG	1.86	0.92
2:R:194:THR:OG1	2:R:226:GLN:OE1	1.87	0.92
3:W:7:SER:O	3:W:11:PHE:CD2	2.21	0.92
1:I:3:ILE:O	2:P:564:TYR:N	2.01	0.92
2:U:392:ASP:OD1	2:U:395:THR:OG1	1.87	0.92
1:G:157:ASN:ND2	1:G:171:ASN:O	2.03	0.91
2:M:32:ASN:N	2:M:36:TYR:OH	2.02	0.91
2:V:141:GLN:NE2	2:V:145:GLU:OE2	2.03	0.91
1:H:138:SER:OG	1:H:154:ASP:OD2	1.85	0.91
1:B:138:SER:OG	1:B:154:ASP:OD2	1.88	0.91
2:U:319:TYR:O	2:U:322:SER:OG	1.89	0.91
1:C:402:THR:OG1	1:C:414:ASN:OD1	1.89	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:402:THR:OG1	1:F:414:ASN:OD1	1.89	0.91
2:O:364:ASP:OD2	2:O:366:THR:OG1	1.88	0.91
1:A:189:ILE:HG23	1:A:308:ILE:HB	1.53	0.90
2:L:163:ASP:OD1	2:L:270:TYR:OH	1.88	0.90
1:K:138:SER:OG	1:K:154:ASP:OD2	1.87	0.90
2:O:554:GLU:O	2:O:558:ASN:ND2	2.04	0.90
2:L:305:SER:OG	2:L:308:GLU:OE1	1.88	0.90
2:S:73:SER:O	2:S:564:TYR:OH	1.89	0.90
2:O:243:LEU:O	2:O:249:SER:OG	1.89	0.90
3:X:112:ASP:OD1	3:X:256:ALA:N	2.04	0.90
3:X:71:THR:HG1	3:X:416:SER:HG	0.93	0.90
3:W:412:GLU:OE2	3:W:416:SER:OG	1.89	0.90
2:S:49:ILE:HD12	2:S:58:THR:HG21	1.54	0.89
3:X:322:ASN:OD1	3:X:347:ARG:NH2	2.04	0.89
1:I:181:ALA:HB1	1:I:629:PRO:HB2	1.53	0.89
3:X:62:THR:O	3:X:65:SER:OG	1.89	0.89
1:F:502:ASN:N	2:V:415:ASN:O	2.06	0.89
1:K:71:GLU:OE2	1:K:75:ASN:ND2	2.06	0.89
3:X:17:THR:O	3:X:20:THR:OG1	1.90	0.89
2:U:265:ASP:OD1	2:U:268:LYS:N	2.06	0.88
2:O:555:THR:O	2:U:99:GLN:NE2	2.06	0.88
2:T:207:LEU:O	2:T:210:THR:OG1	1.90	0.88
2:M:571:ASN:O	2:M:572:THR:HG23	1.73	0.88
3:X:102:ASN:ND2	3:X:291:GLU:OE2	2.07	0.88
1:E:331:THR:OG1	1:E:333:ASP:OD1	1.91	0.88
3:X:14:GLY:O	3:X:17:THR:OG1	1.91	0.88
3:Y:441:ASN:ND2	3:Y:480:THR:OG1	2.06	0.88
1:H:556:GLN:NE2	1:H:560:ASP:OD2	2.06	0.88
2:P:542:ASP:OD1	2:T:138:LYS:NZ	2.07	0.88
1:I:143:LYS:NZ	1:I:145:PHE:O	2.07	0.87
3:W:19:ASP:OD2	3:W:23:LYS:NZ	2.07	0.87
1:A:301:ASN:OD1	1:A:305:GLN:N	2.07	0.87
2:P:56:VAL:HG13	2:T:195:GLU:HB2	1.54	0.87
2:Q:111:GLN:NE2	2:Q:114:GLU:OE2	2.07	0.87
3:W:89:SER:OG	3:W:285:THR:OG1	1.92	0.87
1:A:507:ASN:O	1:A:545:GLN:NE2	2.08	0.87
2:U:487:SER:O	2:U:490:ARG:NH1	2.08	0.87
3:Z:18:GLN:NE2	3:Z:22:ASP:OD2	2.07	0.87
1:K:2:ARG:H	2:S:566:SER:CA	1.88	0.86
1:A:330:ASP:OD2	1:A:386:THR:OG1	1.92	0.86
1:J:190:SER:OG	1:J:307:GLN:OE1	1.93	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:383:LYS:NZ	2:N:384:LYS:O	2.08	0.86
1:D:42:ASP:OD2	1:D:45:THR:OG1	1.93	0.86
1:B:42:ASP:OD2	1:B:45:THR:OG1	1.92	0.86
1:J:441:ASP:OD1	1:J:523:ASN:ND2	2.09	0.86
2:R:582:TYR:O	2:R:585:SER:OG	1.92	0.86
1:A:605:THR:HG1	1:A:607:THR:HG1	1.03	0.86
1:C:1:MET:N	2:M:566:SER:OG	2.09	0.86
1:K:3:ILE:C	2:S:565:GLN:H	1.78	0.86
2:M:162:ASN:OD1	2:M:300:ARG:NH1	2.08	0.86
1:C:142:ASN:ND2	1:C:152:TYR:O	2.09	0.86
1:C:162:THR:O	1:C:166:THR:OG1	1.92	0.86
1:H:63:LYS:NZ	1:H:695:ASN:OD1	2.09	0.86
2:O:305:SER:N	2:O:310:LYS:O	2.09	0.86
1:B:379:THR:OG1	1:B:384:GLN:OE1	1.93	0.85
1:J:226:TYR:OH	1:J:250:THR:OG1	1.94	0.85
1:G:501:THR:OG1	2:O:417:ASN:O	1.94	0.85
1:K:3:ILE:O	2:S:564:TYR:N	2.09	0.85
2:M:87:THR:OG1	2:M:550:ASN:OD1	1.94	0.85
2:M:409:ASP:OD1	2:M:414:LYS:N	2.07	0.85
2:Q:158:GLN:NE2	2:Q:320:MET:SD	2.49	0.85
1:D:49:ASN:ND2	1:D:53:GLU:OE2	2.09	0.85
1:B:484:TYR:OH	1:B:535:PRO:O	1.94	0.85
1:I:429:SER:OG	1:I:572:LYS:O	1.95	0.85
2:O:87:THR:O	2:O:91:ALA:N	2.09	0.85
2:N:453:ASP:OD1	2:N:456:THR:OG1	1.94	0.85
2:R:517:TYR:CE1	2:R:523:ILE:HG23	2.11	0.85
3:W:54:LYS:NZ	3:W:581:ASP:OD2	2.09	0.85
1:B:460:ASN:OD1	1:B:592:SER:OG	1.94	0.85
2:R:492:SER:OG	2:R:494:ASN:OD1	1.95	0.85
2:M:48:TYR:OH	2:M:58:THR:N	2.10	0.84
2:P:406:ALA:N	2:P:421:ASP:OD2	2.10	0.84
1:H:57:LYS:NZ	2:U:106:ASN:OD1	2.09	0.84
1:H:418:GLU:OE2	1:H:427:ASN:ND2	2.10	0.84
2:S:492:SER:OG	2:S:494:ASN:OD1	1.94	0.84
1:D:237:ASP:OD2	1:D:332:LYS:NZ	2.10	0.84
1:G:214:GLY:O	1:G:276:LEU:N	2.09	0.84
2:T:37:THR:HG1	2:T:564:TYR:HH	1.17	0.84
1:B:628:GLU:HB2	1:B:631:VAL:CG2	2.08	0.84
3:Z:408:PRO:O	3:Z:411:THR:OG1	1.96	0.84
1:B:204:LYS:NZ	1:K:291:PRO:O	2.10	0.84
3:Y:415:PHE:O	3:Y:416:SER:OG	1.95	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:86:TYR:OH	2:L:298:ASP:OD2	1.95	0.84
2:S:453:ASP:OD1	2:S:456:THR:OG1	1.96	0.84
1:J:484:TYR:OH	1:J:535:PRO:O	1.94	0.83
1:J:158:ILE:HG22	1:J:171:ASN:HB3	1.60	0.83
1:K:2:ARG:H	2:S:566:SER:C	1.82	0.83
1:J:24:TYR:O	1:J:27:SER:OG	1.95	0.83
2:M:264:ASP:N	2:M:269:SER:O	2.10	0.83
2:L:141:GLN:NE2	2:L:145:GLU:OE2	2.10	0.83
2:T:37:THR:OG1	2:T:564:TYR:OH	1.93	0.83
1:G:54:TYR:O	1:G:58:THR:OG1	1.97	0.83
2:T:50:THR:OG1	2:T:55:GLN:OE1	1.95	0.83
2:T:224:ILE:HD11	2:T:239:HIS:HB3	1.60	0.83
1:A:736:LYS:O	1:A:739:THR:OG1	1.96	0.83
1:B:632:ASP:OD1	1:B:633:ILE:CG1	2.25	0.83
1:G:559:LYS:NZ	2:O:418:ASP:OD1	2.10	0.83
2:R:129:GLU:OE2	2:R:132:THR:OG1	1.97	0.83
3:Z:131:ASN:OD1	3:Z:217:ASN:ND2	2.10	0.83
3:Z:388:ASN:OD1	3:Z:392:THR:OG1	1.95	0.83
1:A:136:ALA:HB3	1:A:140:VAL:HA	1.61	0.83
1:A:265:LYS:N	1:A:611:GLN:O	2.12	0.83
1:E:505:THR:OG1	1:E:507:ASN:OD1	1.97	0.83
1:H:32:SER:OG	1:H:37:GLN:NE2	2.12	0.83
1:K:533:LYS:NZ	1:K:560:ASP:OD2	2.10	0.83
2:U:337:LEU:O	2:U:340:SER:OG	1.96	0.83
1:E:103:SER:HG	1:E:106:SER:HG	0.88	0.82
1:H:7:LEU:O	1:H:10:THR:OG1	1.96	0.82
2:O:469:SER:OG	2:O:478:VAL:O	1.97	0.82
1:I:3:ILE:H	2:P:567:LYS:N	1.77	0.82
2:M:33:ALA:N	2:M:36:TYR:OH	2.12	0.82
2:T:201:ARG:O	2:T:205:ASP:N	2.12	0.82
2:U:220:SER:O	2:U:241:TYR:OH	1.97	0.82
1:K:3:ILE:N	2:S:566:SER:N	2.27	0.82
2:O:379:ASP:OD2	2:O:446:GLY:N	2.12	0.82
1:I:423:THR:OG1	1:I:577:VAL:O	1.95	0.82
2:T:21:ILE:HG23	2:T:579:LEU:HD11	1.62	0.82
2:O:74:TYR:OH	2:O:205:ASP:O	1.97	0.82
1:D:8:ASN:OD1	1:E:24:TYR:OH	1.97	0.81
2:R:50:THR:OG1	2:R:54:VAL:O	1.96	0.81
2:S:410:ASP:OD1	2:S:415:ASN:ND2	2.12	0.81
1:A:157:ASN:OD1	1:A:171:ASN:N	2.12	0.81
3:W:316:ASP:OD1	3:W:317:LEU:N	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:104:GLN:NE2	1:H:644:VAL:O	2.13	0.81
2:O:79:GLY:O	2:O:83:GLN:NE2	2.12	0.81
2:V:204:ARG:NH1	2:V:208:GLU:OE2	2.13	0.81
3:Y:75:LYS:O	3:Y:76:ARG:NE	2.12	0.81
1:C:371:LYS:NZ	1:C:411:ASP:OD1	2.14	0.81
3:X:599:GLN:NE2	3:X:603:ASP:OD2	2.14	0.81
2:U:107:THR:O	2:U:110:LEU:N	2.13	0.81
1:G:275:THR:OG1	1:G:278:ASP:OD1	1.98	0.81
1:J:265:LYS:N	1:J:611:GLN:O	2.14	0.81
2:M:9:THR:O	2:M:12:THR:OG1	1.99	0.81
2:P:376:ILE:HD13	2:P:420:VAL:HG22	1.63	0.81
2:Q:407:ASN:N	2:Q:421:ASP:OD2	2.14	0.81
2:V:410:ASP:OD1	2:V:411:ASN:ND2	2.13	0.81
1:C:739:THR:O	1:C:742:SER:N	2.12	0.81
2:R:571:ASN:OD1	2:R:572:THR:N	2.13	0.81
2:R:41:VAL:HG22	2:R:65:ILE:HG13	1.63	0.80
2:U:383:LYS:NZ	2:U:501:ASP:OD2	2.13	0.80
2:U:543:GLY:O	2:U:547:ASN:ND2	2.14	0.80
1:G:118:LYS:NZ	1:G:147:SER:O	2.11	0.80
1:K:473:VAL:HG12	1:K:475:ILE:HD11	1.64	0.80
2:L:325:THR:OG1	2:L:519:GLU:OE1	1.98	0.80
2:T:85:GLU:OE1	2:T:292:GLN:NE2	2.15	0.80
1:A:42:ASP:OD2	1:A:45:THR:OG1	1.99	0.80
1:A:504:ALA:O	2:R:414:LYS:NZ	2.14	0.80
1:K:40:TYR:OH	2:S:99:GLN:NE2	2.15	0.80
3:W:112:ASP:OD1	3:W:256:ALA:N	2.15	0.80
1:A:96:GLN:OE1	3:W:381:GLN:NE2	2.15	0.80
1:B:572:LYS:CE	1:B:631:VAL:HG12	2.12	0.80
2:O:501:ASP:OD1	2:O:502:MET:N	2.14	0.80
1:E:176:ASP:OD1	1:E:177:LEU:N	2.15	0.80
1:K:238:PHE:O	1:K:244:LYS:NZ	2.13	0.80
2:O:48:TYR:CE2	2:O:54:VAL:HA	2.17	0.80
1:H:80:LEU:HD11	1:H:684:MET:HG3	1.64	0.80
1:J:512:THR:HG21	1:J:517:ILE:HD11	1.63	0.80
1:K:3:ILE:N	2:S:566:SER:H	1.77	0.80
1:C:331:THR:OG1	1:C:333:ASP:OD1	2.00	0.80
1:C:532:ASP:OD1	1:C:533:LYS:NZ	2.14	0.80
1:F:556:GLN:NE2	1:F:560:ASP:OD2	2.15	0.80
1:A:217:LYS:N	1:A:220:GLN:OE1	2.15	0.79
2:P:559:SER:O	2:P:562:SER:OG	2.00	0.79
1:J:4:THR:O	1:J:8:ASN:N	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:553:ASN:OD1	2:L:554:GLU:N	2.14	0.79
1:E:7:LEU:HD12	1:E:11:ASN:ND2	1.97	0.79
2:N:182:ILE:HG23	2:N:200:LEU:HD22	1.62	0.79
2:R:321:ASP:O	2:R:325:THR:OG1	2.00	0.79
1:G:68:ARG:NH1	2:O:125:SER:OG	2.14	0.79
1:K:7:LEU:O	1:K:11:ASN:N	2.14	0.79
2:M:272:ILE:HG22	2:M:284:LEU:HB2	1.64	0.79
2:M:513:LYS:HD2	2:M:527:THR:HG23	1.63	0.79
2:Q:492:SER:OG	2:Q:494:ASN:OD1	1.98	0.79
2:R:73:SER:C	2:R:564:TYR:OH	2.20	0.79
1:B:628:GLU:CB	1:B:631:VAL:HG22	2.11	0.79
1:E:7:LEU:HD12	1:E:11:ASN:HD21	1.45	0.79
1:J:158:ILE:HG22	1:J:171:ASN:CB	2.12	0.79
2:M:364:ASP:OD2	2:M:366:THR:OG1	1.98	0.79
1:E:7:LEU:O	1:E:11:ASN:ND2	2.16	0.79
2:N:162:ASN:ND2	2:N:311:TYR:OH	2.16	0.79
2:R:73:SER:O	2:R:564:TYR:OH	2.00	0.79
2:M:492:SER:OG	2:M:494:ASN:OD1	1.98	0.79
1:E:162:THR:O	1:E:166:THR:OG1	2.01	0.79
1:E:518:THR:OG1	2:L:413:ASN:O	1.99	0.79
2:Q:307:SER:OG	2:Q:308:GLU:OE2	2.01	0.79
3:W:342:GLU:OE2	3:W:576:SER:OG	2.00	0.79
1:K:167:GLU:OE2	2:S:508:GLN:NE2	2.17	0.78
3:X:258:ASN:OD1	3:X:259:ALA:N	2.17	0.78
1:J:378:VAL:HG12	1:J:387:ILE:HD11	1.66	0.78
1:K:3:ILE:C	2:S:565:GLN:N	2.37	0.78
2:Q:582:TYR:O	2:Q:585:SER:OG	2.02	0.78
1:A:441:ASP:OD1	1:A:523:ASN:ND2	2.16	0.78
1:B:376:VAL:O	1:B:387:ILE:N	2.16	0.78
2:P:44:THR:HG23	2:P:61:ALA:HB3	1.64	0.78
2:U:376:ILE:HD13	2:U:449:VAL:HG23	1.66	0.78
2:P:54:VAL:HG12	2:T:197:ALA:HB3	1.64	0.78
2:R:288:ILE:O	2:R:302:ARG:NH2	2.16	0.78
3:W:9:LEU:CB	3:W:624:ASN:OD1	2.31	0.78
1:H:235:ASP:OD1	1:H:236:LYS:N	2.16	0.78
3:W:386:SER:HG	3:W:394:SER:HG	1.28	0.78
3:Z:179:GLU:OE2	3:Z:182:THR:OG1	2.00	0.78
1:K:6:LYS:N	2:S:565:GLN:HB3	1.98	0.78
2:M:332:ASN:ND2	2:M:457:ASN:O	2.16	0.78
2:T:91:ALA:O	2:T:95:GLN:NE2	2.17	0.78
2:N:422:ASP:O	2:N:444:LYS:NZ	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:409:ASP:OD1	2:S:415:ASN:N	2.17	0.77
3:Y:338:GLN:OE1	3:Y:338:GLN:N	2.16	0.77
3:Z:374:THR:HG23	3:Z:375:LYS:H	1.48	0.77
1:A:707:SER:O	1:A:710:SER:OG	2.01	0.77
1:G:219:GLN:OE1	1:G:220:GLN:NE2	2.17	0.77
1:F:139:GLN:NE2	2:V:497:ASP:O	2.16	0.77
1:I:189:ILE:HD12	1:I:320:PHE:CD1	2.20	0.77
2:P:380:LYS:NZ	2:P:382:ASP:OD2	2.16	0.77
3:Z:150:ASP:OD1	3:Z:153:THR:OG1	2.02	0.77
1:K:65:SER:OG	2:S:121:ASN:ND2	2.16	0.77
1:K:187:LYS:NZ	1:K:318:LEU:O	2.15	0.77
1:K:213:THR:OG1	1:K:215:ASP:OD1	2.03	0.77
2:M:44:THR:O	2:M:60:THR:HG23	1.84	0.77
1:B:447:GLU:N	1:B:447:GLU:OE2	2.17	0.77
1:B:570:ASP:O	1:B:573:GLY:N	2.18	0.77
3:W:7:SER:O	3:W:11:PHE:HD2	1.66	0.77
3:Y:446:ASN:O	3:Y:478:LYS:NZ	2.18	0.77
3:Z:386:SER:N	3:Z:394:SER:O	2.18	0.77
1:K:3:ILE:C	2:S:566:SER:H	1.89	0.77
1:K:248:PRO:HD3	1:K:335:LEU:HD21	1.66	0.77
2:M:73:SER:OG	2:M:567:LYS:NZ	2.16	0.77
3:X:621:ASN:O	3:X:625:GLN:NE2	2.18	0.77
1:K:158:ILE:N	1:K:171:ASN:OD1	2.18	0.77
2:P:384:LYS:O	2:P:385:LEU:HD12	1.85	0.77
2:Q:396:THR:OG1	2:Q:399:ASP:OD2	2.00	0.77
2:V:265:ASP:O	2:V:268:LYS:NZ	2.12	0.77
3:X:214:LYS:NZ	3:X:219:GLU:OE2	2.18	0.77
2:R:262:ASP:O	2:R:271:SER:N	2.18	0.77
1:F:132:GLN:NE2	2:V:126:ASN:OD1	2.17	0.76
1:J:184:ASP:OD1	1:J:313:GLN:NE2	2.18	0.76
2:Q:184:LYS:HG2	2:Q:254:ILE:HD12	1.66	0.76
2:T:391:ILE:HG22	2:T:392:ASP:O	1.84	0.76
2:U:27:ASN:ND2	2:U:36:TYR:OH	2.18	0.76
1:G:250:THR:O	1:G:270:VAL:N	2.16	0.76
1:I:291:PRO:O	1:J:203:ASN:ND2	2.18	0.76
1:K:72:MET:CE	1:K:129:VAL:HG21	2.14	0.76
3:X:67:LEU:HD11	3:X:310:LEU:HD13	1.66	0.76
1:B:5:ASN:ND2	2:R:18:GLU:OE2	2.18	0.76
1:G:675:ASP:O	1:G:678:SER:OG	2.03	0.76
2:M:28:ILE:HD12	2:M:578:ALA:HB1	1.66	0.76
2:S:9:THR:O	2:S:12:THR:OG1	2.02	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:71:GLU:O	2:S:74:TYR:N	2.18	0.76
1:B:265:LYS:N	1:B:611:GLN:O	2.18	0.76
1:F:377:THR:OG1	1:F:384:GLN:NE2	2.18	0.76
2:U:407:ASN:ND2	2:U:420:VAL:O	2.19	0.76
1:I:704:ASN:OD1	1:I:705:VAL:N	2.19	0.76
1:K:441:ASP:OD1	1:K:523:ASN:ND2	2.18	0.76
1:E:333:ASP:OD1	1:E:334:GLU:N	2.18	0.76
1:E:441:ASP:O	1:E:520:GLY:N	2.19	0.76
1:I:379:THR:OG1	1:I:384:GLN:OE1	2.01	0.76
1:G:265:LYS:N	1:G:611:GLN:O	2.18	0.76
1:J:175:TRP:O	1:J:179:PHE:N	2.18	0.75
2:V:177:GLU:OE2	2:V:181:THR:OG1	2.04	0.75
2:O:48:TYR:CD2	2:O:54:VAL:HA	2.22	0.75
2:V:79:GLY:O	2:V:83:GLN:NE2	2.18	0.75
1:J:46:TYR:O	1:J:50:THR:HG23	1.86	0.75
3:X:451:GLU:OE1	3:X:451:GLU:N	2.19	0.75
1:D:707:SER:O	1:D:710:SER:OG	2.03	0.75
2:T:74:TYR:OH	2:T:205:ASP:O	2.03	0.75
3:X:109:ALA:O	3:X:193:THR:OG1	2.04	0.75
1:D:505:THR:OG1	1:D:510:VAL:HG23	1.87	0.75
2:N:307:SER:OG	2:N:308:GLU:OE1	2.03	0.75
2:N:380:LYS:NZ	2:N:382:ASP:OD2	2.18	0.75
3:X:102:ASN:N	3:X:264:ASP:OD1	2.18	0.75
3:Y:135:ASP:OD2	3:Y:205:LYS:NZ	2.13	0.75
1:E:463:VAL:HG23	1:E:589:ILE:HG13	1.67	0.75
1:E:1:MET:SD	2:L:566:SER:OG	2.42	0.75
2:S:485:ASP:OD2	2:S:487:SER:OG	2.04	0.75
2:V:496:VAL:HG23	2:V:497:ASP:H	1.52	0.75
1:B:636:ASP:OD2	1:B:669:ARG:NH2	2.20	0.75
2:O:226:GLN:NE2	2:O:228:ASN:OD1	2.20	0.75
2:Q:419:ASP:O	2:Q:422:ASP:N	2.20	0.75
3:Z:223:ASP:OD1	3:Z:247:LYS:NZ	2.20	0.75
1:G:686:ALA:HB3	1:H:116:ARG:HH11	1.52	0.74
2:L:185:GLN:HG2	2:L:200:LEU:HD12	1.68	0.74
2:V:453:ASP:OD1	2:V:456:THR:OG1	2.04	0.74
1:A:213:THR:OG1	1:A:215:ASP:OD1	2.05	0.74
2:P:411:ASN:ND2	2:P:419:ASP:OD1	2.20	0.74
2:R:281:VAL:O	2:R:282:ARG:NE	2.20	0.74
2:R:378:ASP:OD2	2:R:380:LYS:NZ	2.18	0.74
1:A:70:GLN:O	1:A:73:THR:OG1	2.05	0.74
1:G:447:GLU:OE1	1:G:447:GLU:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:64:GLU:OE1	2:T:121:ASN:ND2	2.20	0.74
2:M:141:GLN:NE2	2:M:142:THR:HG23	2.02	0.74
1:B:271:LYS:N	1:B:274:ASP:OD2	2.19	0.74
1:D:432:ILE:N	1:D:437:ALA:O	2.19	0.74
2:R:141:GLN:O	2:R:144:THR:N	2.21	0.74
1:I:462:LYS:N	1:I:590:SER:O	2.21	0.74
1:J:89:ASP:OD1	1:J:93:LYS:NZ	2.20	0.74
2:Q:346:VAL:HG11	2:Q:464:ILE:HG23	1.69	0.74
1:B:310:ASP:OD2	1:B:315:ASN:ND2	2.20	0.74
1:K:3:ILE:HD12	2:S:567:LYS:HE3	1.68	0.74
2:P:305:SER:OG	2:P:310:LYS:O	2.05	0.74
3:Z:261:PHE:O	3:Z:268:MET:N	2.20	0.74
2:M:37:THR:OG1	2:M:68:LEU:N	2.21	0.74
2:N:431:ASP:OD1	2:N:432:ALA:N	2.20	0.74
2:S:519:GLU:OE1	2:S:519:GLU:N	2.21	0.74
1:F:441:ASP:OD1	1:F:442:SER:N	2.21	0.74
1:H:77:MET:HA	1:H:80:LEU:HD12	1.68	0.74
2:R:155:ASP:OD1	2:R:156:LYS:N	2.21	0.74
3:Y:594:SER:O	3:Y:598:THR:OG1	2.03	0.74
1:B:217:LYS:N	1:B:220:GLN:OE1	2.20	0.73
1:C:144:PRO:O	1:C:152:TYR:N	2.20	0.73
2:O:396:THR:OG1	2:O:399:ASP:OD2	2.06	0.73
3:X:203:ALA:HB2	3:X:222:PHE:HE1	1.52	0.73
3:Y:99:GLN:NE2	3:Y:100:SER:O	2.21	0.73
2:U:121:ASN:OD1	2:U:122:ASP:N	2.21	0.73
3:Y:361:ASP:OD2	3:Y:374:THR:OG1	2.07	0.73
1:G:441:ASP:OD1	1:G:523:ASN:ND2	2.22	0.73
2:M:365:ARG:O	2:M:368:GLN:NE2	2.21	0.73
2:Q:362:ASN:OD1	2:Q:363:TYR:N	2.20	0.73
2:R:262:ASP:N	2:R:271:SER:O	2.21	0.73
3:X:174:ILE:HD12	3:X:186:LEU:HD12	1.70	0.73
3:X:628:ASN:OD1	3:X:629:THR:N	2.22	0.73
1:A:515:ASN:OD1	1:A:516:ASP:N	2.20	0.73
1:J:643:ALA:O	1:J:648:ASN:N	2.20	0.73
2:R:485:ASP:OD2	2:R:487:SER:OG	2.06	0.73
1:B:631:VAL:HG23	1:B:669:ARG:HH22	1.54	0.73
1:D:53:GLU:N	1:D:53:GLU:OE1	2.21	0.73
1:I:49:ASN:ND2	1:I:53:GLU:OE2	2.22	0.73
2:P:44:THR:O	2:P:61:ALA:N	2.21	0.73
1:K:3:ILE:HA	2:S:564:TYR:HA	1.71	0.73
2:O:407:ASN:ND2	2:O:422:ASP:OD1	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:604:LEU:O	2:Q:604:LEU:HD23	1.88	0.73
2:U:524:ASP:OD2	2:U:534:LYS:NZ	2.21	0.73
3:W:9:LEU:HD22	3:W:10:GLY:N	2.03	0.73
1:B:381:ASN:O	1:B:383:GLN:NE2	2.20	0.73
1:C:175:TRP:O	1:C:179:PHE:N	2.20	0.73
1:C:189:ILE:HG22	1:C:625:THR:OG1	1.89	0.73
1:G:402:THR:HG22	1:G:590:SER:OG	1.89	0.73
2:Q:274:TYR:CD2	2:Q:284:LEU:HD11	2.24	0.73
2:R:46:ASN:N	2:R:59:GLY:O	2.21	0.73
2:S:220:SER:N	2:S:242:ASN:OD1	2.21	0.73
2:U:106:ASN:ND2	2:U:114:GLU:OE1	2.21	0.73
1:B:345:GLU:OE1	1:B:381:ASN:N	2.22	0.73
2:P:550:ASN:O	2:P:553:ASN:N	2.22	0.73
2:Q:39:GLN:O	2:Q:40:ARG:NE	2.22	0.73
1:B:37:GLN:N	1:B:46:TYR:OH	2.22	0.72
1:K:4:THR:N	2:S:566:SER:H	1.87	0.72
2:N:407:ASN:ND2	2:N:421:ASP:OD2	2.20	0.72
2:S:365:ARG:O	2:S:368:GLN:NE2	2.22	0.72
1:B:432:ILE:N	1:B:437:ALA:O	2.21	0.72
1:H:157:ASN:OD1	1:H:158:ILE:N	2.22	0.72
1:K:432:ILE:N	1:K:437:ALA:O	2.22	0.72
2:L:96:GLU:O	2:L:100:ARG:NE	2.21	0.72
1:A:133:TYR:O	1:A:140:VAL:HG13	1.89	0.72
1:B:464:ASN:OD1	1:B:470:SER:OG	2.04	0.72
2:L:307:SER:OG	2:L:308:GLU:OE1	2.07	0.72
2:Q:21:ILE:O	2:Q:24:THR:OG1	2.07	0.72
2:V:516:PHE:O	2:V:524:ASP:N	2.23	0.72
2:L:516:PHE:N	2:L:524:ASP:O	2.21	0.72
2:M:399:ASP:OD1	2:M:402:ARG:NH2	2.22	0.72
2:N:82:ASN:ND2	2:N:214:LEU:O	2.23	0.72
3:X:362:GLY:N	3:X:374:THR:O	2.21	0.72
1:A:144:PRO:O	1:A:152:TYR:N	2.21	0.72
1:K:100:ASP:OD1	3:X:364:THR:OG1	2.05	0.72
2:N:270:TYR:O	2:N:271:SER:OG	2.06	0.72
2:Q:357:ASP:OD2	2:Q:398:ASN:ND2	2.22	0.72
2:R:161:VAL:O	2:R:165:ILE:HD12	1.89	0.72
1:K:73:THR:OG1	1:K:688:HIS:ND1	2.20	0.72
2:S:490:ARG:NE	2:S:495:GLY:O	2.22	0.72
2:V:113:LEU:O	2:V:117:ASN:N	2.22	0.72
1:F:501:THR:O	2:V:413:ASN:N	2.22	0.72
1:G:64:GLU:OE2	1:G:68:ARG:NE	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:261:LEU:HD21	2:P:270:TYR:HB3	1.72	0.72
1:C:326:THR:O	1:C:390:LYS:N	2.23	0.72
2:P:243:LEU:O	2:P:249:SER:OG	2.05	0.72
2:Q:375:VAL:HG11	2:Q:383:LYS:HG3	1.72	0.72
2:S:87:THR:OG1	2:S:550:ASN:OD1	2.06	0.72
3:W:364:THR:N	3:W:372:VAL:O	2.22	0.72
1:A:91:LYS:NZ	1:A:671:ASP:OD1	2.23	0.72
1:A:189:ILE:O	1:A:308:ILE:N	2.22	0.72
1:H:646:LYS:NZ	1:H:655:SER:OG	2.22	0.72
1:B:217:LYS:NZ	1:B:273:GLU:O	2.21	0.71
2:L:407:ASN:ND2	2:L:422:ASP:OD2	2.23	0.71
2:U:305:SER:OG	2:U:308:GLU:OE1	2.08	0.71
3:W:126:VAL:HG11	3:W:221:ILE:HG12	1.71	0.71
1:H:102:ASN:O	1:H:107:ARG:NH1	2.23	0.71
1:K:498:ILE:O	1:K:512:THR:OG1	2.07	0.71
3:Z:425:ASN:OD1	3:Z:426:HIS:N	2.23	0.71
1:A:302:ASP:OD1	1:A:303:SER:N	2.23	0.71
1:G:646:LYS:O	3:Z:373:ASN:ND2	2.23	0.71
1:J:512:THR:HG21	1:J:517:ILE:CD1	2.20	0.71
2:L:389:ILE:HG21	2:L:400:ILE:HD12	1.72	0.71
2:N:73:SER:O	2:N:564:TYR:OH	2.08	0.71
2:T:513:LYS:HD2	2:T:527:THR:HG23	1.73	0.71
1:C:99:SER:OG	1:C:102:ASN:OD1	2.08	0.71
2:P:154:LEU:HD22	2:P:320:MET:SD	2.31	0.71
2:U:161:VAL:O	2:U:165:ILE:HD12	1.90	0.71
1:C:116:ARG:O	1:C:120:SER:N	2.22	0.71
1:E:342:ALA:O	1:E:346:GLY:N	2.22	0.71
1:H:133:TYR:N	1:H:140:VAL:O	2.22	0.71
2:M:53:GLY:O	2:M:54:VAL:HG23	1.90	0.71
2:Q:384:LYS:O	2:Q:385:LEU:HG	1.91	0.71
2:T:431:ASP:OD1	2:T:434:THR:OG1	2.07	0.71
1:J:494:ILE:HG22	1:J:496:PHE:CE2	2.26	0.71
2:L:508:GLN:NE2	2:L:512:ASP:OD1	2.23	0.71
1:B:157:ASN:OD1	1:B:158:ILE:N	2.22	0.71
1:B:350:ASN:OD1	1:B:351:GLU:N	2.24	0.71
2:M:182:ILE:HG21	2:M:203:ARG:HH22	1.54	0.71
1:A:679:LYS:O	1:A:682:THR:OG1	2.08	0.71
1:B:539:ILE:O	1:B:540:GLN:NE2	2.24	0.71
1:K:719:GLU:OE2	1:K:723:ASN:ND2	2.23	0.71
2:O:149:ASN:OD1	2:O:150:THR:N	2.23	0.71
1:K:505:THR:OG1	1:K:507:ASN:O	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:344:SER:O	2:S:443:ALA:N	2.24	0.71
2:T:143:LEU:O	2:T:146:SER:OG	2.08	0.71
2:T:252:ASP:OD1	2:T:253:GLY:N	2.24	0.71
2:U:91:ALA:O	2:U:95:GLN:NE2	2.24	0.71
3:Z:90:LEU:HD13	3:Z:101:MET:SD	2.31	0.71
1:H:353:THR:O	1:H:357:MET:HE1	1.91	0.70
1:K:2:ARG:HB3	2:S:568:SER:C	2.10	0.70
2:N:90:MET:O	2:N:94:LEU:HD13	1.90	0.70
2:U:214:LEU:HB3	2:U:293:LEU:HD13	1.72	0.70
1:B:194:SER:OG	1:B:305:GLN:NE2	2.24	0.70
1:H:350:ASN:OD1	1:H:351:GLU:N	2.24	0.70
2:T:453:ASP:OD2	2:T:456:THR:OG1	2.09	0.70
1:B:677:VAL:O	1:B:681:ASN:ND2	2.24	0.70
1:E:236:LYS:O	1:E:243:SER:OG	2.07	0.70
1:H:420:ASN:N	1:H:423:THR:O	2.22	0.70
2:M:24:THR:HG22	2:M:28:ILE:HG23	1.71	0.70
2:Q:149:ASN:OD1	2:Q:150:THR:N	2.24	0.70
2:T:261:LEU:HD13	2:T:272:ILE:HG12	1.74	0.70
3:Y:322:ASN:O	3:Y:325:THR:OG1	2.09	0.70
1:I:189:ILE:HD12	1:I:320:PHE:HD1	1.57	0.70
1:K:277:GLU:OE1	1:K:277:GLU:N	2.23	0.70
3:W:397:SER:O	3:W:400:PHE:N	2.24	0.70
1:D:229:ASP:OD1	1:D:230:ASN:N	2.25	0.70
1:G:146:ASP:OD2	1:G:150:ASN:ND2	2.23	0.70
1:G:240:TYR:O	1:G:244:LYS:N	2.24	0.70
2:L:44:THR:N	2:L:61:ALA:O	2.24	0.70
2:U:89:TYR:OH	2:U:164:ASP:OD2	2.08	0.70
3:X:171:VAL:O	3:X:189:THR:N	2.21	0.70
1:F:555:GLN:OE1	1:F:559:LYS:NZ	2.22	0.70
2:L:345:SER:OG	2:L:441:ILE:O	2.03	0.70
2:N:254:ILE:O	2:N:254:ILE:HG22	1.91	0.70
2:O:329:THR:HG21	2:O:516:PHE:CD1	2.27	0.70
3:Y:435:SER:O	3:Y:438:LYS:NZ	2.24	0.70
1:A:354:ASN:O	1:A:358:GLN:N	2.22	0.70
1:G:8:ASN:OD1	1:G:9:PHE:N	2.24	0.70
1:H:73:THR:O	1:H:76:SER:OG	2.09	0.70
1:B:52:LEU:HD23	1:B:709:LYS:HB3	1.73	0.70
2:L:409:ASP:OD2	2:L:413:ASN:N	2.24	0.70
2:M:107:THR:HG22	2:M:108:GLY:H	1.56	0.70
2:O:84:LEU:O	2:O:87:THR:N	2.24	0.70
2:Q:163:ASP:OD1	2:Q:164:ASP:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:360:LEU:HB3	2:T:367:ILE:HG21	1.73	0.70
2:V:237:PRO:O	2:V:241:TYR:N	2.25	0.70
3:Z:75:LYS:O	3:Z:298:GLN:NE2	2.24	0.70
1:J:462:LYS:NZ	1:J:592:SER:OG	2.25	0.70
3:Z:429:GLU:N	3:Z:543:GLY:O	2.25	0.70
1:A:593:ASP:OD1	1:A:594:SER:N	2.25	0.70
2:R:373:ASP:N	2:R:452:GLU:O	2.24	0.70
2:S:337:LEU:HD13	2:S:506:ILE:HG13	1.74	0.70
3:Y:342:GLU:OE1	3:Y:580:TYR:OH	2.05	0.70
1:E:376:VAL:O	1:E:387:ILE:N	2.25	0.69
1:H:90:PHE:CZ	1:H:117:ILE:HG22	2.27	0.69
1:I:6:LYS:HB3	2:P:565:GLN:HB3	1.73	0.69
1:I:265:LYS:O	1:I:611:GLN:N	2.24	0.69
2:Q:592:ILE:O	2:Q:595:THR:OG1	2.09	0.69
2:V:382:ASP:OD1	2:V:383:LYS:N	2.24	0.69
1:H:159:ASN:O	2:U:504:ASN:ND2	2.25	0.69
1:K:226:TYR:CE1	1:K:247:PHE:HB3	2.27	0.69
2:N:128:ASN:OD1	2:N:129:GLU:N	2.25	0.69
2:O:44:THR:HG23	2:O:61:ALA:HB3	1.74	0.69
2:P:54:VAL:HG13	2:T:197:ALA:HB3	1.74	0.69
2:R:379:ASP:OD2	2:R:446:GLY:N	2.24	0.69
3:X:201:PHE:O	3:X:244:TYR:N	2.26	0.69
1:E:250:THR:O	1:E:270:VAL:N	2.22	0.69
2:S:411:ASN:OD1	2:S:413:ASN:N	2.22	0.69
2:T:209:LEU:O	2:T:212:SER:OG	2.05	0.69
1:C:48:ASP:OD1	1:C:49:ASN:N	2.25	0.69
1:F:570:ASP:OD1	1:F:574:ARG:N	2.24	0.69
1:I:350:ASN:OD1	1:I:351:GLU:N	2.25	0.69
2:T:279:GLU:OE2	2:T:280:LYS:NZ	2.21	0.69
3:W:625:GLN:O	3:W:629:THR:HG23	1.92	0.69
2:R:192:LEU:HD12	2:R:192:LEU:O	1.92	0.69
2:S:184:LYS:HA	2:S:254:ILE:HG22	1.74	0.69
1:J:289:ASN:OD1	1:J:295:VAL:N	2.25	0.69
2:O:542:ASP:HA	2:U:138:LYS:HZ1	1.57	0.69
2:S:365:ARG:NH2	2:S:517:TYR:O	2.25	0.69
3:W:298:GLN:OE1	3:W:300:PHE:N	2.26	0.69
2:M:574:GLU:O	2:M:578:ALA:N	2.25	0.69
2:T:261:LEU:HD13	2:T:272:ILE:CG1	2.23	0.69
3:X:435:SER:O	3:X:438:LYS:NZ	2.23	0.69
3:Y:109:ALA:HB2	3:Y:259:ALA:HB2	1.73	0.69
1:A:290:THR:N	1:A:293:ASN:O	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:48:ASP:OD1	1:E:49:ASN:N	2.24	0.69
1:E:252:LEU:HD13	1:E:324:ALA:HB2	1.74	0.69
3:X:177:THR:OG1	3:X:184:TYR:N	2.26	0.69
1:K:486:ASP:HA	1:K:536:THR:HG21	1.75	0.69
1:A:241:ASP:OD1	1:A:244:LYS:NZ	2.19	0.68
1:B:193:VAL:HG22	1:B:653:SER:OG	1.92	0.68
1:C:102:ASN:O	1:C:107:ARG:NH1	2.25	0.68
1:E:462:LYS:NZ	1:E:464:ASN:OD1	2.25	0.68
3:X:77:LYS:HG2	3:X:298:GLN:HB2	1.76	0.68
1:E:90:PHE:CZ	1:E:117:ILE:HG22	2.27	0.68
1:K:72:MET:HE3	1:K:129:VAL:HG21	1.75	0.68
2:N:182:ILE:HG23	2:N:200:LEU:CD2	2.22	0.68
3:X:613:TRP:O	3:X:617:GLU:N	2.25	0.68
1:B:149:GLY:N	1:B:634:ILE:HG21	2.08	0.68
1:K:500:HIS:O	1:K:501:THR:HG22	1.93	0.68
2:M:262:ASP:OD1	2:M:263:TYR:N	2.26	0.68
3:W:266:ILE:HD11	3:X:115:GLN:OE1	1.93	0.68
3:W:344:ASN:OD1	3:W:345:SER:N	2.27	0.68
1:B:464:ASN:ND2	1:B:588:GLU:O	2.25	0.68
1:I:3:ILE:N	2:P:566:SER:H	1.91	0.68
1:J:722:MET:O	1:J:726:GLN:NE2	2.25	0.68
1:K:340:GLU:OE1	1:K:343:ASN:ND2	2.27	0.68
2:N:117:ASN:ND2	2:N:510:GLN:OE1	2.26	0.68
2:T:288:ILE:O	2:T:302:ARG:NH2	2.27	0.68
2:V:563:GLU:O	2:V:566:SER:OG	2.09	0.68
1:A:250:THR:O	1:A:270:VAL:N	2.26	0.68
1:B:441:ASP:OD1	1:B:523:ASN:ND2	2.26	0.68
1:I:3:ILE:C	2:P:565:GLN:H	1.96	0.68
2:P:2:GLY:O	2:P:6:THR:N	2.25	0.68
2:R:278:ASP:OD1	2:R:280:LYS:NZ	2.27	0.68
3:Z:100:SER:OG	3:Z:295:ASP:OD1	2.12	0.68
3:Z:492:ALA:HB2	3:Z:507:VAL:HG21	1.76	0.68
1:A:252:LEU:HD13	1:A:324:ALA:HB2	1.75	0.68
1:J:194:SER:OG	1:J:305:GLN:NE2	2.25	0.68
1:K:176:ASP:OD1	1:K:180:LYS:HD2	1.93	0.68
2:O:93:THR:O	2:O:97:ILE:HD12	1.93	0.68
1:G:186:LYS:NZ	1:G:311:LEU:O	2.24	0.68
1:H:43:ALA:O	1:H:47:ILE:HD12	1.94	0.68
2:L:121:ASN:O	2:L:125:SER:N	2.22	0.68
2:N:206:GLU:N	2:N:206:GLU:OE2	2.25	0.68
2:S:513:LYS:O	2:S:525:ASN:ND2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:144:PRO:O	1:B:152:TYR:N	2.27	0.68
2:O:377:TYR:O	2:O:448:LYS:N	2.24	0.68
3:X:266:ILE:HG23	3:Y:115:GLN:OE1	1.94	0.68
1:E:118:LYS:HD3	1:E:637:LEU:HD12	1.76	0.68
1:I:188:GLN:O	1:I:625:THR:OG1	2.06	0.68
1:I:254:VAL:O	1:I:266:SER:N	2.27	0.68
1:K:247:PHE:HB3	1:K:248:PRO:HD2	1.74	0.68
2:Q:532:TYR:CE2	2:Q:536:THR:HG21	2.28	0.68
3:X:115:GLN:HB3	3:X:187:THR:HG22	1.76	0.68
1:H:282:ASN:ND2	1:I:583:SER:OG	2.27	0.68
2:N:169:VAL:HG12	2:N:173:ASN:OD1	1.93	0.68
2:O:420:VAL:O	2:O:424:ILE:N	2.26	0.68
2:S:204:ARG:NH1	2:S:208:GLU:OE2	2.27	0.68
2:V:228:ASN:OD1	2:V:229:ARG:NH2	2.27	0.68
2:V:319:TYR:OH	2:V:542:ASP:OD2	2.12	0.68
2:P:47:GLY:N	2:P:58:THR:O	2.26	0.67
2:Q:259:LEU:HD12	2:Q:272:ILE:HG21	1.76	0.67
2:Q:297:LEU:HD21	2:Q:302:ARG:HG2	1.76	0.67
2:S:338:TYR:HA	2:S:502:MET:CE	2.24	0.67
2:S:357:ASP:OD1	2:S:396:THR:HG22	1.93	0.67
2:S:385:LEU:HD13	2:S:410:ASP:CG	2.14	0.67
1:E:185:TYR:O	1:E:314:GLY:N	2.26	0.67
1:J:254:VAL:O	1:J:266:SER:N	2.27	0.67
1:J:302:ASP:OD1	1:J:650:ARG:NH2	2.28	0.67
2:N:290:GLY:O	2:N:294:GLY:N	2.25	0.67
2:O:84:LEU:HD12	2:O:87:THR:OG1	1.94	0.67
2:P:37:THR:HG22	2:P:38:ARG:H	1.58	0.67
1:A:417:PHE:O	1:A:419:LYS:NZ	2.23	0.67
1:C:570:ASP:OD1	1:C:574:ARG:N	2.27	0.67
1:F:424:VAL:HG13	1:F:585:THR:HG21	1.76	0.67
1:H:3:ILE:N	2:U:569:GLY:O	2.27	0.67
2:O:514:VAL:O	2:O:526:LEU:N	2.27	0.67
1:G:686:ALA:HB3	1:H:116:ARG:NH1	2.09	0.67
1:I:3:ILE:C	2:P:565:GLN:N	2.47	0.67
1:K:290:THR:N	1:K:293:ASN:O	2.26	0.67
2:M:42:VAL:HG12	2:M:64:SER:HB3	1.75	0.67
2:M:89:TYR:OH	2:M:296:GLN:OE1	2.10	0.67
2:O:214:LEU:O	2:O:291:GLY:N	2.28	0.67
3:Y:330:GLU:O	3:Y:334:LYS:N	2.28	0.67
1:G:649:MET:CE	3:Z:375:LYS:HE2	2.24	0.67
2:M:129:GLU:O	2:M:132:THR:OG1	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:215:VAL:HG22	2:V:216:SER:H	1.58	0.67
1:B:420:ASN:N	1:B:423:THR:O	2.26	0.67
1:D:500:HIS:ND1	1:D:510:VAL:O	2.28	0.67
1:G:89:ASP:OD1	1:G:117:ILE:HD11	1.95	0.67
2:M:288:ILE:O	2:M:302:ARG:NH2	2.26	0.67
2:O:286:ALA:O	2:O:302:ARG:NH1	2.28	0.67
2:T:94:LEU:HD13	2:T:543:GLY:HA2	1.74	0.67
3:Z:452:PHE:O	3:Z:476:ASN:ND2	2.28	0.67
1:A:419:LYS:HD3	1:A:424:VAL:HG12	1.76	0.67
1:J:420:ASN:N	1:J:423:THR:O	2.26	0.67
2:L:347:THR:OG1	2:L:440:GLN:OE1	2.02	0.67
1:A:24:TYR:O	1:A:27:SER:OG	2.06	0.67
1:D:36:ILE:HG21	1:D:42:ASP:HB3	1.75	0.67
1:G:132:GLN:NE2	2:O:128:ASN:OD1	2.28	0.67
1:J:100:ASP:OD1	1:J:107:ARG:NH1	2.28	0.67
1:K:136:ALA:HB3	1:K:140:VAL:HA	1.77	0.67
1:K:502:ASN:HB3	1:K:503:PRO:HD2	1.76	0.67
2:P:425:ASN:OD1	2:P:444:LYS:NZ	2.27	0.67
2:T:335:ASN:OD1	2:T:467:PHE:N	2.27	0.67
3:Z:385:LEU:HD11	3:Z:393:LEU:HB3	1.76	0.67
1:D:23:LEU:HD23	1:D:724:LEU:HD12	1.76	0.67
1:E:637:LEU:O	1:E:641:ILE:HD12	1.95	0.67
1:H:222:ILE:HG23	1:H:326:THR:HG21	1.76	0.67
2:M:303:ASN:ND2	2:M:312:GLU:OE1	2.28	0.67
3:W:9:LEU:HB2	3:W:620:LEU:HG	1.77	0.67
1:D:50:THR:OG1	2:Q:533:ARG:NE	2.27	0.67
1:K:3:ILE:CA	2:S:566:SER:H	2.07	0.67
2:R:71:GLU:O	2:R:74:TYR:N	2.27	0.67
2:R:143:LEU:O	2:R:146:SER:OG	2.13	0.67
2:U:65:ILE:HG21	2:U:195:GLU:HG3	1.75	0.67
1:E:146:ASP:OD2	1:E:150:ASN:ND2	2.28	0.66
1:K:4:THR:N	2:S:566:SER:N	2.43	0.66
1:K:135:PHE:O	1:K:174:GLY:N	2.27	0.66
2:L:410:ASP:OD1	2:L:411:ASN:N	2.26	0.66
2:Q:129:GLU:OE1	2:Q:132:THR:N	2.27	0.66
3:X:140:SER:OG	3:X:192:GLU:OE1	2.08	0.66
3:X:312:ASP:OD1	3:X:313:ALA:N	2.29	0.66
3:Y:137:THR:N	3:Y:202:TYR:O	2.27	0.66
1:A:461:LEU:HD11	1:A:473:VAL:HB	1.78	0.66
1:A:501:THR:O	2:R:414:LYS:HE2	1.95	0.66
1:H:649:MET:SD	1:H:664:GLN:NE2	2.67	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2:ARG:N	2:S:566:SER:CA	2.58	0.66
2:Q:453:ASP:OD2	2:Q:457:ASN:N	2.25	0.66
3:W:325:THR:OG1	3:W:347:ARG:NH1	2.28	0.66
3:X:115:GLN:CB	3:X:187:THR:HG22	2.25	0.66
1:C:68:ARG:NH1	2:M:125:SER:OG	2.27	0.66
1:G:7:LEU:O	1:G:11:ASN:N	2.23	0.66
1:I:408:ASN:OD1	1:I:410:ALA:N	2.28	0.66
1:I:420:ASN:N	1:I:423:THR:O	2.28	0.66
1:I:501:THR:OG1	2:P:412:ASP:OD1	2.10	0.66
1:J:630:ASN:O	1:J:669:ARG:NH2	2.24	0.66
2:N:89:TYR:O	2:N:92:SER:OG	2.08	0.66
2:O:183:ASN:ND2	2:O:253:GLY:O	2.27	0.66
2:S:603:LEU:HD23	2:S:606:LEU:HD12	1.77	0.66
1:E:643:ALA:O	1:E:647:GLY:N	2.28	0.66
1:F:161:VAL:HG23	2:V:504:ASN:HB3	1.78	0.66
1:G:217:LYS:N	1:G:220:GLN:OE1	2.29	0.66
1:I:90:PHE:CE1	1:I:117:ILE:HG22	2.29	0.66
2:Q:257:HIS:O	2:Q:274:TYR:OH	2.13	0.66
1:A:105:THR:O	1:A:109:ALA:N	2.27	0.66
1:I:4:THR:N	2:P:566:SER:H	1.93	0.66
1:I:64:GLU:O	1:I:67:SER:OG	2.14	0.66
2:M:108:GLY:O	2:M:112:ASP:N	2.24	0.66
2:Q:155:ASP:OD1	2:Q:159:LYS:NZ	2.17	0.66
2:Q:346:VAL:CG1	2:Q:464:ILE:HG23	2.24	0.66
2:Q:513:LYS:CD	2:Q:527:THR:HG23	2.26	0.66
2:R:46:ASN:ND2	2:R:60:THR:O	2.28	0.66
3:X:482:LYS:N	3:X:486:GLU:OE1	2.28	0.66
1:F:508:SER:OG	2:V:416:SER:OG	2.05	0.66
1:J:3:ILE:HG22	2:T:565:GLN:O	1.95	0.66
2:Q:237:PRO:O	2:Q:240:GLN:N	2.28	0.66
2:Q:431:ASP:OD2	2:Q:434:THR:OG1	2.10	0.66
1:F:748:ASN:N	2:O:586:TYR:OH	2.29	0.66
1:G:518:THR:O	1:G:521:GLN:NE2	2.28	0.66
1:H:494:ILE:HG23	1:H:538:THR:OG1	1.95	0.66
1:J:500:HIS:N	2:T:415:ASN:OD1	2.29	0.66
1:K:4:THR:OG1	2:S:566:SER:HB2	1.95	0.66
2:L:413:ASN:OD1	2:L:415:ASN:N	2.28	0.66
2:S:329:THR:O	2:S:332:ASN:N	2.29	0.66
2:U:162:ASN:O	2:U:270:TYR:OH	2.12	0.66
3:X:400:PHE:O	3:X:403:LYS:N	2.29	0.66
1:C:342:ALA:O	1:C:346:GLY:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:84:VAL:O	1:E:87:LEU:N	2.27	0.66
2:P:373:ASP:OD2	2:P:454:LYS:NZ	2.29	0.66
2:R:514:VAL:O	2:R:531:TYR:OH	2.14	0.66
1:A:740:THR:HG22	1:A:744:LEU:HD11	1.78	0.66
1:C:160:VAL:HG12	1:C:168:SER:O	1.95	0.66
1:H:378:VAL:O	1:H:385:PHE:N	2.28	0.66
1:K:3:ILE:N	2:S:568:SER:H	1.93	0.66
1:K:7:LEU:HD22	2:S:562:SER:HA	1.78	0.66
2:M:572:THR:OG1	2:M:575:GLU:OE1	2.04	0.66
1:D:201:ASP:O	1:D:205:ASP:N	2.28	0.66
1:H:187:LYS:HA	1:H:625:THR:HG21	1.78	0.66
1:K:42:ASP:OD2	1:K:45:THR:OG1	2.09	0.66
2:M:424:ILE:O	2:M:444:LYS:NZ	2.28	0.66
2:S:385:LEU:HD12	2:S:385:LEU:C	2.16	0.66
2:U:3:ILE:HD13	2:U:597:ASP:OD1	1.96	0.66
1:G:3:ILE:HG23	2:O:569:GLY:N	2.11	0.65
1:I:195:PHE:HD2	1:I:212:LEU:HD12	1.60	0.65
2:M:551:SER:OG	2:Q:203:ARG:NH1	2.28	0.65
2:O:250:ILE:O	2:O:250:ILE:HG22	1.94	0.65
2:M:377:TYR:N	2:M:448:LYS:O	2.29	0.65
1:G:104:GLN:OE1	1:G:107:ARG:NH2	2.29	0.65
2:P:508:GLN:NE2	2:P:512:ASP:OD1	2.30	0.65
3:X:201:PHE:N	3:X:244:TYR:O	2.28	0.65
1:G:317:LYS:NZ	1:G:436:ASN:OD1	2.27	0.65
1:H:484:TYR:CE1	1:H:494:ILE:HB	2.31	0.65
1:H:731:TYR:CE2	1:H:735:LEU:HD11	2.32	0.65
1:K:226:TYR:CD1	1:K:248:PRO:HD2	2.31	0.65
1:K:539:ILE:HB	1:K:554:ILE:HD11	1.79	0.65
2:N:71:GLU:O	2:N:74:TYR:N	2.29	0.65
2:S:276:THR:O	2:S:278:ASP:N	2.30	0.65
1:A:433:LYS:NZ	1:A:451:GLY:O	2.29	0.65
1:C:84:VAL:HA	1:C:87:LEU:HD12	1.78	0.65
1:C:289:ASN:OD1	1:C:295:VAL:HG22	1.97	0.65
1:I:408:ASN:N	1:I:411:ASP:OD2	2.29	0.65
1:J:179:PHE:O	1:J:630:ASN:ND2	2.30	0.65
1:K:529:PHE:CE2	1:K:534:ILE:HG22	2.32	0.65
2:M:326:PHE:CD2	2:M:531:TYR:CE2	2.84	0.65
2:N:38:ARG:HE	2:N:39:GLN:H	1.45	0.65
2:O:121:ASN:OD1	2:O:122:ASP:N	2.30	0.65
1:A:217:LYS:NZ	1:A:273:GLU:O	2.29	0.65
1:G:192:ASN:ND2	1:G:396:LYS:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:157:ASN:ND2	1:H:169:PRO:O	2.30	0.65
1:K:356:VAL:HG22	1:K:376:VAL:HG21	1.78	0.65
3:X:362:GLY:O	3:X:374:THR:N	2.25	0.65
3:Y:371:LYS:NZ	3:Y:372:VAL:O	2.27	0.65
1:F:188:GLN:NE2	1:F:668:GLU:OE1	2.30	0.65
1:I:52:LEU:HB2	1:I:709:LYS:HZ2	1.62	0.65
1:J:96:GLN:O	1:J:99:SER:OG	2.14	0.65
2:M:158:GLN:NE2	2:M:320:MET:SD	2.69	0.65
2:N:101:PHE:CZ	2:N:154:LEU:HD21	2.32	0.65
2:N:530:GLU:O	2:N:534:LYS:N	2.28	0.65
2:O:97:ILE:HA	2:O:100:ARG:HG2	1.78	0.65
2:T:272:ILE:HG21	2:T:284:LEU:HD22	1.77	0.65
3:Z:489:GLN:NE2	3:Z:493:ASN:OD1	2.29	0.65
2:Q:514:VAL:O	2:Q:526:LEU:N	2.28	0.65
2:R:361:VAL:HG12	2:R:367:ILE:HG22	1.78	0.65
1:A:36:ILE:HD12	1:A:46:TYR:CE2	2.32	0.65
1:I:548:ASN:O	1:I:552:THR:N	2.29	0.65
1:J:581:LEU:HD23	1:J:581:LEU:O	1.97	0.65
2:O:329:THR:HG21	2:O:516:PHE:HD1	1.61	0.65
2:P:271:SER:OG	2:P:283:ASP:OD2	2.14	0.65
2:T:365:ARG:O	2:T:368:GLN:NE2	2.29	0.65
3:W:112:ASP:O	3:W:189:THR:HG23	1.97	0.65
3:W:360:VAL:O	3:W:376:VAL:N	2.27	0.65
3:X:368:ASN:OD1	3:Y:458:THR:OG1	2.12	0.65
1:F:61:GLN:NE2	2:V:114:GLU:OE1	2.29	0.65
1:G:133:TYR:N	1:G:140:VAL:O	2.30	0.65
1:I:707:SER:O	1:I:710:SER:OG	2.12	0.65
2:N:265:ASP:O	2:N:268:LYS:HG2	1.97	0.65
2:O:392:ASP:OD1	2:O:395:THR:OG1	2.12	0.65
1:G:3:ILE:HG13	2:O:565:GLN:HA	1.78	0.64
1:H:158:ILE:HG23	1:H:171:ASN:ND2	2.12	0.64
2:M:228:ASN:OD1	2:M:229:ARG:NH2	2.29	0.64
3:W:77:LYS:N	3:W:297:GLN:O	2.31	0.64
3:X:555:GLU:OE1	3:X:557:LYS:NZ	2.30	0.64
3:Z:47:GLN:HA	3:Z:584:LEU:HD13	1.79	0.64
1:A:64:GLU:OE1	1:A:68:ARG:NH1	2.30	0.64
1:F:399:MET:HG3	1:F:407:ALA:HB3	1.79	0.64
1:H:441:ASP:O	1:H:520:GLY:N	2.27	0.64
1:K:4:THR:H	2:S:566:SER:HB3	1.61	0.64
2:M:577:ALA:O	2:M:580:ILE:HD12	1.96	0.64
2:S:426:ALA:HB1	2:S:441:ILE:HG12	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:427:SER:N	2:T:440:GLN:O	2.29	0.64
1:J:484:TYR:CE1	1:J:494:ILE:HB	2.33	0.64
1:J:736:LYS:NZ	1:K:750:MET:SD	2.67	0.64
2:M:546:ASN:OD1	2:M:550:ASN:ND2	2.31	0.64
3:W:137:THR:HG23	3:W:146:THR:HG22	1.79	0.64
1:D:372:LEU:HD11	1:D:389:LEU:HB3	1.79	0.64
1:K:2:ARG:HB3	2:S:568:SER:N	2.12	0.64
1:K:3:ILE:HG13	2:S:568:SER:N	2.12	0.64
2:S:110:LEU:HD11	2:S:532:TYR:CD1	2.33	0.64
2:U:564:TYR:O	2:U:567:LYS:N	2.30	0.64
2:V:107:THR:HG22	2:V:110:LEU:HD13	1.80	0.64
3:W:172:ALA:HB2	3:W:188:LEU:HG	1.79	0.64
3:X:385:LEU:HD21	3:X:393:LEU:HB3	1.78	0.64
3:Y:505:VAL:CG1	3:Y:520:LEU:HD21	2.28	0.64
1:B:133:TYR:N	1:B:140:VAL:O	2.31	0.64
1:J:432:ILE:HA	1:J:448:VAL:HG22	1.78	0.64
1:K:3:ILE:H	2:S:567:LYS:H	1.43	0.64
1:K:6:LYS:HB3	2:S:565:GLN:HB3	1.80	0.64
1:K:72:MET:HE1	1:K:129:VAL:HG21	1.80	0.64
2:N:467:PHE:O	2:N:479:LYS:N	2.28	0.64
2:P:302:ARG:N	2:P:313:ASP:OD2	2.30	0.64
2:Q:221:LYS:O	2:Q:222:ASN:ND2	2.30	0.64
2:V:204:ARG:NH1	2:V:205:ASP:OD1	2.30	0.64
1:A:137:GLY:O	1:A:171:ASN:ND2	2.29	0.64
1:A:482:VAL:O	1:A:495:SER:OG	2.04	0.64
1:C:500:HIS:O	1:C:510:VAL:N	2.31	0.64
1:D:640:MET:O	1:D:644:VAL:HG23	1.96	0.64
1:F:593:ASP:OD1	1:F:594:SER:N	2.31	0.64
1:H:348:SER:OG	1:H:350:ASN:OD1	2.15	0.64
1:K:447:GLU:N	1:K:447:GLU:OE1	2.28	0.64
2:O:281:VAL:O	2:O:282:ARG:NE	2.21	0.64
2:U:564:TYR:O	2:U:568:SER:N	2.30	0.64
1:C:507:ASN:ND2	1:C:545:GLN:OE1	2.30	0.64
1:I:282:ASN:OD1	1:I:283:ILE:N	2.31	0.64
2:P:515:ASN:HA	2:P:525:ASN:HA	1.80	0.64
2:Q:406:ALA:N	2:Q:421:ASP:OD2	2.31	0.64
2:Q:513:LYS:HD2	2:Q:527:THR:HG23	1.80	0.64
2:S:261:LEU:HD13	2:S:272:ILE:HD11	1.80	0.64
2:U:375:VAL:HG22	2:U:377:TYR:CE1	2.33	0.64
3:Y:293:ASN:OD1	3:Y:294:PHE:N	2.31	0.64
2:P:323:LEU:O	2:P:327:ALA:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:517:TYR:CD1	2:R:523:ILE:HD12	2.33	0.64
1:A:750:MET:OXT	1:C:736:LYS:NZ	2.21	0.64
1:C:333:ASP:OD1	1:C:334:GLU:N	2.31	0.64
1:D:663:MET:HE2	1:D:663:MET:N	2.13	0.64
1:E:391:GLN:NE2	1:E:393:ASP:OD1	2.29	0.64
1:H:250:THR:O	1:H:270:VAL:N	2.31	0.64
1:H:465:SER:N	1:H:469:ASN:O	2.29	0.64
1:I:593:ASP:OD1	1:I:594:SER:N	2.31	0.64
2:M:276:THR:O	2:M:281:VAL:HG22	1.98	0.64
2:N:186:ILE:HD13	2:N:200:LEU:CD1	2.28	0.64
2:N:196:HIS:NE2	2:N:199:GLU:OE2	2.30	0.64
2:T:427:SER:O	2:T:440:GLN:N	2.29	0.64
1:B:175:TRP:O	1:B:179:PHE:N	2.28	0.64
1:C:2:ARG:NH1	2:M:570:VAL:O	2.30	0.64
1:D:433:LYS:NZ	1:D:452:ASP:OD1	2.31	0.64
1:F:29:GLN:O	1:F:33:GLY:N	2.29	0.64
1:G:143:LYS:NZ	1:G:145:PHE:O	2.28	0.64
1:H:212:LEU:HD11	1:H:221:LEU:HB2	1.80	0.64
1:I:4:THR:HB	2:P:566:SER:HB3	1.80	0.64
2:L:178:GLU:OE1	2:L:203:ARG:NH1	2.29	0.64
2:M:32:ASN:ND2	2:R:60:THR:OG1	2.31	0.64
1:A:38:ASN:N	1:A:46:TYR:OH	2.30	0.63
1:B:401:ASP:OD1	1:B:405:ASN:N	2.31	0.63
1:B:542:ASN:OD1	1:B:543:ASN:N	2.31	0.63
1:B:675:ASP:O	1:B:678:SER:OG	2.15	0.63
1:C:201:ASP:O	1:C:205:ASP:N	2.32	0.63
2:M:256:PHE:CZ	2:M:259:LEU:HB2	2.33	0.63
3:Z:201:PHE:CZ	3:Z:246:ILE:HG23	2.33	0.63
2:M:569:GLY:O	2:M:571:ASN:ND2	2.30	0.63
2:O:84:LEU:HD22	2:O:557:TYR:CD1	2.33	0.63
2:P:138:LYS:O	2:P:142:THR:OG1	2.10	0.63
2:P:469:SER:O	2:P:477:LYS:N	2.28	0.63
2:S:44:THR:O	2:S:61:ALA:N	2.29	0.63
1:A:13:VAL:O	1:A:17:MET:SD	2.57	0.63
2:L:177:GLU:OE2	2:L:181:THR:OG1	2.13	0.63
2:M:336:ASN:OD1	2:M:460:GLY:N	2.31	0.63
2:N:290:GLY:O	2:N:293:LEU:N	2.32	0.63
2:O:49:ILE:HG12	2:O:51:THR:HG23	1.81	0.63
3:W:615:GLN:OE1	3:W:615:GLN:N	2.31	0.63
3:X:430:VAL:HG12	3:X:510:TYR:CZ	2.33	0.63
3:Y:21:ILE:HG22	3:Y:25:LYS:HE2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3:ILE:HG21	2:N:569:GLY:HA2	1.80	0.63
1:C:301:ASN:ND2	1:C:307:GLN:OE1	2.30	0.63
1:F:29:GLN:NE2	1:F:34:LEU:O	2.29	0.63
1:I:374:ASN:ND2	1:I:375:PRO:O	2.31	0.63
1:K:247:PHE:HB3	1:K:248:PRO:CD	2.28	0.63
2:P:307:SER:OG	2:P:308:GLU:OE1	2.17	0.63
2:Q:236:ASP:O	2:Q:240:GLN:NE2	2.32	0.63
2:T:117:ASN:ND2	2:T:510:GLN:OE1	2.31	0.63
2:T:516:PHE:N	2:T:524:ASP:O	2.30	0.63
3:X:508:GLU:OE1	3:X:508:GLU:N	2.31	0.63
1:A:441:ASP:O	1:A:520:GLY:N	2.32	0.63
1:F:23:LEU:HD23	1:F:724:LEU:HD12	1.80	0.63
1:I:24:TYR:O	1:I:27:SER:OG	2.12	0.63
1:J:378:VAL:O	1:J:385:PHE:N	2.31	0.63
1:J:511:VAL:HG22	1:J:512:THR:H	1.63	0.63
2:V:532:TYR:CZ	2:V:536:THR:HG21	2.33	0.63
3:X:67:LEU:CD1	3:X:310:LEU:HD13	2.28	0.63
1:D:189:ILE:HG22	1:D:625:THR:OG1	1.97	0.63
1:E:135:PHE:CE2	1:E:174:GLY:HA2	2.34	0.63
1:J:93:LYS:NZ	1:J:117:ILE:HD11	2.14	0.63
1:K:2:ARG:H	2:S:566:SER:HA	1.62	0.63
1:K:729:LEU:HD11	3:X:627:LEU:HG	1.80	0.63
2:L:110:LEU:O	2:L:114:GLU:N	2.32	0.63
2:M:305:SER:O	2:M:309:GLY:N	2.30	0.63
2:S:38:ARG:NH1	2:S:574:GLU:OE2	2.30	0.63
1:C:24:TYR:O	1:C:27:SER:N	2.31	0.63
1:D:181:ALA:CA	1:D:631:VAL:HG23	2.29	0.63
1:H:100:ASP:O	1:H:107:ARG:NH1	2.30	0.63
1:I:697:ARG:HA	1:I:700:PHE:CZ	2.33	0.63
2:N:419:ASP:N	2:N:422:ASP:OD2	2.28	0.63
2:N:564:TYR:O	2:N:568:SER:N	2.31	0.63
2:Q:224:ILE:HG23	2:Q:226:GLN:OE1	1.98	0.63
2:Q:274:TYR:HD2	2:Q:284:LEU:HD11	1.61	0.63
2:R:44:THR:O	2:R:61:ALA:N	2.29	0.63
2:S:334:THR:O	2:S:338:TYR:N	2.32	0.63
3:W:409:ASP:OD1	3:W:410:SER:N	2.30	0.63
3:Y:53:ILE:HG23	3:Y:317:LEU:HD11	1.78	0.63
1:F:738:SER:O	1:F:741:ILE:HG22	1.98	0.63
1:H:460:ASN:O	1:H:591:LEU:HD12	1.98	0.63
2:M:11:VAL:O	2:M:15:LYS:N	2.27	0.63
2:M:227:ASP:OD2	2:M:229:ARG:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:532:TYR:CZ	2:M:536:THR:HG21	2.34	0.63
2:P:326:PHE:CD1	2:P:531:TYR:CD2	2.86	0.63
3:X:270:ARG:NH1	3:Y:177:THR:O	2.32	0.63
3:Y:75:LYS:NZ	3:Y:301:GLU:OE2	2.31	0.63
1:C:376:VAL:O	1:C:387:ILE:N	2.29	0.63
1:C:418:GLU:OE2	1:C:427:ASN:ND2	2.32	0.63
3:Y:402:GLN:NE2	3:Y:406:GLU:OE2	2.32	0.63
1:E:218:TRP:CZ2	1:E:222:ILE:HD11	2.34	0.62
2:T:184:LYS:NZ	2:T:254:ILE:O	2.26	0.62
3:W:407:ASP:OD2	3:W:410:SER:OG	2.13	0.62
3:Y:104:ASN:ND2	3:Y:291:GLU:OE1	2.32	0.62
1:J:226:TYR:O	1:J:329:ALA:N	2.31	0.62
1:K:361:THR:O	1:K:369:ILE:HG23	1.98	0.62
2:N:14:LEU:O	2:N:17:SER:OG	2.11	0.62
2:N:472:ASP:O	2:N:476:MET:N	2.26	0.62
2:P:515:ASN:OD1	2:P:523:ILE:HG22	1.98	0.62
2:Q:195:GLU:O	2:Q:198:ASN:ND2	2.32	0.62
2:S:201:ARG:O	2:S:205:ASP:N	2.31	0.62
3:Y:397:SER:O	3:Y:400:PHE:N	2.32	0.62
1:B:47:ILE:O	2:N:533:ARG:NH2	2.32	0.62
1:G:63:LYS:HZ2	1:G:699:SER:HA	1.63	0.62
1:H:509:GLY:HA2	1:H:551:TYR:CD1	2.33	0.62
1:J:155:LYS:HA	1:J:175:TRP:HE1	1.64	0.62
1:J:218:TRP:N	1:J:274:ASP:O	2.33	0.62
1:K:246:ASP:O	1:K:247:PHE:O	2.18	0.62
2:S:514:VAL:N	2:S:526:LEU:O	2.29	0.62
3:X:15:VAL:HG21	3:X:614:LEU:HD21	1.81	0.62
1:I:500:HIS:O	2:P:414:LYS:HE2	2.00	0.62
1:K:245:LEU:HD22	1:K:339:ILE:HD13	1.81	0.62
2:L:103:ASP:OD2	2:L:536:THR:OG1	2.11	0.62
2:S:262:ASP:O	2:S:271:SER:N	2.32	0.62
2:U:165:ILE:O	2:U:169:VAL:HG12	2.00	0.62
1:C:411:ASP:OD1	1:C:414:ASN:ND2	2.32	0.62
1:G:509:GLY:N	2:O:415:ASN:HD22	1.98	0.62
1:I:3:ILE:C	2:P:566:SER:H	2.02	0.62
1:I:104:GLN:O	1:I:107:ARG:N	2.31	0.62
1:I:487:PRO:HD3	1:I:494:ILE:HD12	1.81	0.62
2:N:273:TYR:O	2:N:284:LEU:HD12	1.99	0.62
2:O:317:GLN:NE2	2:O:321:ASP:OD2	2.32	0.62
2:P:54:VAL:HG12	2:P:55:GLN:H	1.64	0.62
2:Q:376:ILE:HB	2:Q:385:LEU:HD12	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:471:ASN:N	3:X:475:THR:O	2.29	0.62
1:E:278:ASP:O	1:E:282:ASN:ND2	2.31	0.62
1:F:52:LEU:HB2	1:F:709:LYS:HD3	1.80	0.62
2:M:156:LYS:NZ	2:M:163:ASP:OD2	2.32	0.62
2:M:169:VAL:HG22	2:M:293:LEU:HD21	1.82	0.62
2:M:311:TYR:O	2:M:317:GLN:NE2	2.33	0.62
2:Q:172:ILE:HD11	2:Q:214:LEU:HD13	1.80	0.62
1:D:7:LEU:HD21	2:Q:561:TYR:CE2	2.35	0.62
1:G:505:THR:OG1	2:O:415:ASN:HA	1.99	0.62
1:G:697:ARG:NH2	1:H:82:ASP:OD2	2.33	0.62
1:H:80:LEU:HD13	1:H:681:ASN:HA	1.81	0.62
1:H:290:THR:HG23	1:H:293:ASN:H	1.65	0.62
1:H:299:SER:O	1:H:307:GLN:N	2.33	0.62
1:H:567:VAL:HG13	1:H:577:VAL:HG22	1.82	0.62
1:I:2:ARG:H	2:P:566:SER:C	2.03	0.62
1:K:3:ILE:HG13	2:S:568:SER:H	1.63	0.62
2:M:271:SER:OG	2:M:285:THR:OG1	2.13	0.62
2:N:431:ASP:O	2:N:434:THR:OG1	2.13	0.62
2:O:365:ARG:HD2	2:O:365:ARG:O	1.98	0.62
2:S:394:ASN:OD1	2:S:394:ASN:O	2.17	0.62
2:T:252:ASP:OD2	2:T:255:ASN:ND2	2.32	0.62
2:T:391:ILE:HG23	2:T:395:THR:HB	1.82	0.62
3:X:316:ASP:O	3:X:320:ASN:ND2	2.31	0.62
1:C:441:ASP:OD1	1:C:523:ASN:ND2	2.33	0.62
1:H:227:VAL:HG21	1:H:232:LEU:CD1	2.30	0.62
1:J:3:ILE:HG21	2:T:568:SER:HB2	1.81	0.62
2:M:278:ASP:O	2:M:280:LYS:NZ	2.32	0.62
2:O:408:THR:N	2:O:421:ASP:OD2	2.32	0.62
2:U:554:GLU:O	2:U:558:ASN:N	2.29	0.62
2:V:170:ASP:OD1	2:V:171:GLU:N	2.33	0.62
3:X:564:LYS:O	3:X:568:GLN:NE2	2.33	0.62
1:A:182:ASP:OD1	1:A:183:GLY:N	2.32	0.62
1:I:3:ILE:N	2:P:566:SER:N	2.48	0.62
1:I:3:ILE:HB	2:P:567:LYS:HB2	1.82	0.62
1:I:213:THR:OG1	1:I:214:GLY:N	2.33	0.62
2:M:279:GLU:OE2	2:M:280:LYS:NZ	2.29	0.62
2:N:237:PRO:HA	2:N:240:GLN:HB2	1.81	0.62
2:O:554:GLU:HA	2:O:557:TYR:CE1	2.34	0.62
2:Q:412:ASP:OD1	2:Q:413:ASN:ND2	2.33	0.62
2:Q:442:ASN:OD1	2:Q:443:ALA:N	2.33	0.62
2:T:139:ALA:O	2:T:142:THR:OG1	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:250:THR:O	1:B:270:VAL:N	2.32	0.62
1:C:368:ASP:N	1:C:371:LYS:O	2.33	0.62
1:C:381:ASN:O	1:C:383:GLN:NE2	2.33	0.62
1:F:502:ASN:ND2	1:F:507:ASN:O	2.33	0.62
1:I:2:ARG:HE	2:P:570:VAL:N	1.98	0.62
1:I:662:GLY:O	1:I:666:ALA:N	2.29	0.62
1:K:146:ASP:OD2	1:K:150:ASN:ND2	2.31	0.62
2:Q:275:GLU:OE1	2:Q:281:VAL:HG22	2.00	0.62
2:R:37:THR:HG22	2:R:38:ARG:N	2.15	0.62
2:U:162:ASN:OD1	2:U:300:ARG:NH2	2.33	0.62
2:U:453:ASP:OD2	2:U:457:ASN:N	2.33	0.62
2:V:422:ASP:O	2:V:444:LYS:NZ	2.30	0.62
3:Y:93:ASN:OD1	3:Y:94:SER:N	2.33	0.62
3:Z:154:THR:OG1	3:Z:157:ASP:OD2	2.18	0.62
3:Z:262:THR:HA	3:Z:267:LYS:HA	1.82	0.62
1:A:119:GLU:OE1	1:A:123:GLN:NE2	2.30	0.61
2:T:270:TYR:O	2:T:271:SER:OG	2.18	0.61
1:A:393:ASP:OD1	1:A:396:LYS:NZ	2.17	0.61
1:A:401:ASP:OD1	1:A:405:ASN:N	2.32	0.61
1:H:106:SER:O	1:H:109:ALA:HB3	2.00	0.61
1:J:500:HIS:HB2	2:T:415:ASN:N	2.14	0.61
2:P:206:GLU:OE1	2:P:210:THR:OG1	2.16	0.61
2:S:424:ILE:O	2:S:444:LYS:NZ	2.32	0.61
2:U:407:ASN:HA	2:U:421:ASP:HB2	1.81	0.61
3:W:9:LEU:HB3	3:W:624:ASN:CG	2.20	0.61
3:W:77:LYS:O	3:W:297:GLN:N	2.30	0.61
3:W:108:LEU:O	3:W:257:GLN:NE2	2.33	0.61
1:A:394:PHE:HB3	1:A:395:ILE:HD12	1.83	0.61
1:D:288:GLY:O	1:D:293:ASN:ND2	2.33	0.61
1:E:2:ARG:HD3	2:L:572:THR:HG21	1.81	0.61
1:K:2:ARG:NH1	2:S:569:GLY:O	2.34	0.61
2:U:120:TRP:CE3	2:U:136:LEU:HD21	2.36	0.61
3:Z:225:LEU:HD13	3:Z:227:TRP:CZ3	2.35	0.61
1:B:737:ALA:O	1:B:740:THR:OG1	2.15	0.61
2:M:591:LYS:O	2:M:594:SER:OG	2.18	0.61
2:P:342:ALA:HB2	2:P:377:TYR:CE2	2.35	0.61
2:P:431:ASP:OD2	2:P:434:THR:N	2.31	0.61
2:U:203:ARG:NH1	2:U:206:GLU:OE1	2.33	0.61
2:V:103:ASP:OD1	2:V:106:ASN:N	2.33	0.61
3:X:325:THR:O	3:X:338:GLN:NE2	2.32	0.61
1:A:444:LYS:HA	1:A:518:THR:HG22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:25:GLN:O	1:G:28:GLN:N	2.32	0.61
2:P:338:TYR:O	2:P:343:LYS:NZ	2.34	0.61
2:U:342:ALA:HB1	2:U:448:LYS:HB3	1.82	0.61
3:W:606:TYR:O	3:W:610:ALA:N	2.27	0.61
3:Z:49:ASP:OD2	3:Z:336:THR:OG1	2.07	0.61
1:D:8:ASN:O	1:D:12:SER:N	2.31	0.61
1:H:4:THR:O	1:H:8:ASN:N	2.33	0.61
1:H:108:GLU:HG3	1:H:645:LEU:HD23	1.83	0.61
1:I:320:PHE:O	1:I:321:HIS:ND1	2.33	0.61
1:K:655:SER:OG	1:K:657:ASN:O	2.18	0.61
2:P:183:ASN:OD1	2:P:186:ILE:HD12	2.00	0.61
2:P:274:TYR:N	2:P:282:ARG:O	2.32	0.61
3:Y:34:ASP:OD2	3:Y:38:LYS:NZ	2.24	0.61
3:Y:630:VAL:O	3:Y:634:ILE:N	2.29	0.61
1:A:13:VAL:HG21	1:B:719:GLU:HB2	1.83	0.61
1:I:2:ARG:O	2:P:569:GLY:N	2.34	0.61
2:L:122:ASP:O	2:L:126:ASN:N	2.34	0.61
2:M:467:PHE:CZ	2:M:478:VAL:HG23	2.36	0.61
2:Q:384:LYS:O	2:Q:384:LYS:HD2	2.00	0.61
3:X:113:VAL:HG11	3:X:173:LYS:HE2	1.83	0.61
3:Y:402:GLN:O	3:Y:406:GLU:OE1	2.17	0.61
1:B:512:THR:HG22	1:B:517:ILE:HG13	1.82	0.61
1:H:602:PRO:HA	1:H:603:PRO:C	2.21	0.61
1:I:148:ASN:HA	1:I:634:ILE:HG21	1.81	0.61
1:K:289:ASN:ND2	1:K:296:VAL:O	2.29	0.61
2:M:198:ASN:OD1	2:M:199:GLU:N	2.33	0.61
2:N:337:LEU:HD22	2:N:506:ILE:HG13	1.82	0.61
2:O:243:LEU:HB3	2:O:251:VAL:HB	1.83	0.61
2:P:407:ASN:ND2	2:P:422:ASP:OD1	2.33	0.61
2:R:147:VAL:HG12	2:R:473:ALA:HB1	1.82	0.61
2:R:604:LEU:HD23	2:R:604:LEU:C	2.21	0.61
2:S:377:TYR:CD1	2:S:383:LYS:HA	2.36	0.61
2:T:172:ILE:O	2:T:176:GLY:N	2.34	0.61
2:V:324:ASP:HA	2:V:327:ALA:HB3	1.82	0.61
3:X:425:ASN:OD1	3:X:426:HIS:N	2.34	0.61
1:B:235:ASP:OD1	1:B:236:LYS:N	2.34	0.61
1:B:593:ASP:OD1	1:B:594:SER:N	2.34	0.61
1:E:447:GLU:OE1	1:E:447:GLU:N	2.32	0.61
2:M:319:TYR:O	2:M:322:SER:OG	2.11	0.61
2:N:100:ARG:NH2	2:S:559:SER:OG	2.34	0.61
2:P:86:TYR:CD1	2:P:295:ALA:HB2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:412:GLU:O	3:X:415:PHE:N	2.34	0.61
1:B:572:LYS:HE3	1:B:631:VAL:CG1	2.26	0.61
1:F:697:ARG:NH2	2:O:104:LEU:O	2.33	0.61
2:M:379:ASP:OD2	2:M:446:GLY:N	2.34	0.61
2:O:115:ASN:OD1	2:O:116:TYR:N	2.34	0.61
2:Q:84:LEU:HG	2:Q:88:LYS:NZ	2.16	0.61
2:R:222:ASN:ND2	2:R:239:HIS:O	2.34	0.61
2:T:593:VAL:O	2:T:596:VAL:HG22	2.01	0.61
1:C:265:LYS:N	1:C:611:GLN:O	2.33	0.60
1:C:512:THR:OG1	1:C:516:ASP:OD1	2.18	0.60
1:G:111:ALA:O	1:G:114:LEU:N	2.33	0.60
1:H:528:MET:HE2	1:H:557:LEU:HD22	1.83	0.60
1:J:118:LYS:NZ	1:J:638:ASP:OD1	2.33	0.60
1:K:188:GLN:O	1:K:625:THR:HG23	2.01	0.60
2:O:5:GLY:HA2	2:O:8:TYR:CE2	2.36	0.60
2:T:82:ASN:ND2	2:T:215:VAL:O	2.34	0.60
3:Z:414:PHE:CZ	3:Z:559:ILE:HD11	2.36	0.60
1:B:728:GLN:OE1	1:K:744:LEU:HD13	2.01	0.60
1:E:91:LYS:NZ	1:E:671:ASP:OD1	2.32	0.60
2:O:18:GLU:OE2	2:O:19:VAL:HG13	2.00	0.60
2:O:396:THR:N	2:O:399:ASP:OD2	2.33	0.60
2:O:518:ASN:ND2	2:O:524:ASP:OD2	2.33	0.60
2:P:54:VAL:HG13	2:T:201:ARG:NH2	2.17	0.60
2:R:307:SER:OG	2:R:308:GLU:OE2	2.16	0.60
2:S:26:ASN:O	2:S:29:SER:OG	2.16	0.60
2:U:159:LYS:HD2	2:U:159:LYS:O	2.01	0.60
3:Y:136:LEU:HG	3:Y:218:ALA:HB1	1.82	0.60
3:Y:504:LYS:O	3:Y:523:SER:N	2.33	0.60
1:A:37:GLN:N	1:A:46:TYR:OH	2.34	0.60
1:E:3:ILE:CD1	1:E:7:LEU:HD22	2.31	0.60
1:J:1:MET:O	1:J:4:THR:OG1	2.19	0.60
1:J:146:ASP:OD1	1:J:150:ASN:N	2.35	0.60
1:J:219:GLN:O	1:J:223:GLY:N	2.31	0.60
2:L:577:ALA:O	2:L:580:ILE:HG22	2.00	0.60
2:N:392:ASP:OD1	2:N:395:THR:N	2.34	0.60
2:P:49:ILE:H	2:P:56:VAL:HG11	1.66	0.60
3:X:203:ALA:HB3	3:X:219:GLU:HG3	1.84	0.60
3:Y:379:SER:OG	3:Y:380:MET:N	2.34	0.60
3:Z:107:GLN:OE1	3:Z:258:ASN:N	2.34	0.60
1:D:6:LYS:HD3	2:Q:565:GLN:HG3	1.84	0.60
1:E:290:THR:N	1:E:293:ASN:O	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:408:ASN:OD1	1:J:411:ASP:N	2.33	0.60
2:M:603:LEU:HA	2:M:606:LEU:HD12	1.84	0.60
2:N:336:ASN:OD1	2:N:460:GLY:N	2.33	0.60
2:O:360:LEU:CD1	2:O:391:ILE:HG23	2.32	0.60
2:P:571:ASN:OD1	2:P:572:THR:N	2.34	0.60
2:T:21:ILE:HG23	2:T:579:LEU:CD1	2.31	0.60
2:T:224:ILE:HG22	2:T:225:ASN:N	2.16	0.60
2:U:607:LYS:O	2:U:608:SER:C	2.40	0.60
1:A:68:ARG:NH2	2:R:121:ASN:OD1	2.35	0.60
1:H:163:GLY:HA3	1:H:166:THR:OG1	2.00	0.60
1:H:408:ASN:OD1	1:H:411:ASP:N	2.35	0.60
1:I:350:ASN:O	1:I:353:THR:HG22	2.01	0.60
1:K:302:ASP:OD1	1:K:303:SER:N	2.34	0.60
2:O:558:ASN:OD1	2:O:559:SER:N	2.34	0.60
2:R:40:ARG:HE	2:R:41:VAL:H	1.49	0.60
2:R:425:ASN:N	2:R:442:ASN:O	2.33	0.60
2:S:531:TYR:O	2:S:534:LYS:HG2	2.01	0.60
3:W:598:THR:HG22	3:W:602:ILE:CD1	2.31	0.60
3:Z:273:ASN:O	3:Z:286:LEU:N	2.33	0.60
1:B:640:MET:SD	1:B:666:ALA:HB2	2.42	0.60
1:F:412:TYR:O	1:F:621:ASN:N	2.35	0.60
1:K:281:GLU:OE2	1:K:294:LYS:NZ	2.35	0.60
2:P:305:SER:O	2:P:309:GLY:N	2.35	0.60
2:T:588:ALA:O	2:T:592:ILE:HD12	2.00	0.60
2:U:82:ASN:ND2	2:U:212:SER:O	2.34	0.60
3:X:365:GLU:OE2	3:X:370:ASN:N	2.33	0.60
3:Y:608:THR:O	3:Y:611:ASN:N	2.35	0.60
3:Z:76:ARG:NH1	3:Z:298:GLN:OE1	2.33	0.60
1:C:447:GLU:N	1:C:447:GLU:OE1	2.35	0.60
1:H:669:ARG:O	1:H:672:HIS:HB3	2.02	0.60
1:I:1:MET:HA	2:P:566:SER:O	2.02	0.60
1:I:441:ASP:O	1:I:520:GLY:N	2.31	0.60
1:K:116:ARG:HA	1:K:119:GLU:OE1	2.01	0.60
1:K:227:VAL:HG11	1:K:332:LYS:HA	1.82	0.60
1:K:275:THR:OG1	1:K:278:ASP:OD2	2.20	0.60
1:K:672:HIS:O	1:K:676:HIS:N	2.32	0.60
2:N:143:LEU:O	2:N:146:SER:OG	2.18	0.60
2:N:513:LYS:HD2	2:N:527:THR:HG23	1.83	0.60
2:O:383:LYS:NZ	2:O:452:GLU:OE2	2.34	0.60
2:U:44:THR:HG22	2:U:61:ALA:O	2.02	0.60
2:U:485:ASP:OD1	2:U:487:SER:OG	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:232:THR:HG23	2:V:232:THR:O	2.01	0.60
3:X:19:ASP:O	3:X:23:LYS:N	2.35	0.60
3:Y:201:PHE:O	3:Y:244:TYR:N	2.34	0.60
1:A:92:VAL:HG13	3:W:387:LEU:HD23	1.83	0.60
1:A:312:LYS:NZ	1:A:436:ASN:OD1	2.33	0.60
1:D:420:ASN:N	1:D:423:THR:O	2.35	0.60
1:J:278:ASP:OD1	1:J:279:VAL:N	2.33	0.60
2:M:51:THR:O	2:M:51:THR:HG23	2.02	0.60
2:M:307:SER:OG	2:M:308:GLU:OE1	2.11	0.60
2:N:515:ASN:HA	2:N:525:ASN:HA	1.81	0.60
2:S:402:ARG:O	2:S:406:ALA:N	2.35	0.60
2:T:164:ASP:O	2:T:168:THR:OG1	2.12	0.60
2:V:334:THR:O	2:V:338:TYR:N	2.23	0.60
2:V:489:VAL:O	2:V:489:VAL:HG12	2.01	0.60
3:Y:612:GLN:HA	3:Y:615:GLN:OE1	2.02	0.60
1:F:260:ASP:OD1	1:F:261:GLY:N	2.34	0.60
1:K:6:LYS:N	2:S:565:GLN:O	2.28	0.60
2:M:342:ALA:O	2:M:343:LYS:NZ	2.19	0.60
2:R:183:ASN:ND2	2:R:187:TYR:OH	2.34	0.60
3:X:135:ASP:OD2	3:X:205:LYS:N	2.35	0.60
3:X:356:ASP:OD1	3:X:562:LYS:NZ	2.32	0.60
3:X:607:ASP:OD1	3:X:608:THR:N	2.35	0.60
1:B:91:LYS:HE2	1:B:91:LYS:HA	1.84	0.60
1:B:333:ASP:OD1	1:B:334:GLU:N	2.34	0.60
1:B:368:ASP:O	1:B:370:THR:N	2.33	0.60
1:C:5:ASN:HB3	2:M:570:VAL:HG13	1.84	0.60
2:L:137:VAL:O	2:L:140:SER:OG	2.16	0.60
2:N:274:TYR:C	2:N:282:ARG:HB2	2.22	0.60
2:O:376:ILE:HG22	2:O:385:LEU:HB2	1.84	0.60
2:Q:342:ALA:HB2	2:Q:377:TYR:CE2	2.37	0.60
2:R:382:ASP:OD1	2:R:383:LYS:N	2.34	0.60
2:S:174:LYS:O	2:S:177:GLU:HB3	2.02	0.60
2:S:525:ASN:C	2:S:526:LEU:HD12	2.23	0.60
2:T:500:ASN:ND2	2:T:504:ASN:OD1	2.35	0.60
2:U:492:SER:OG	2:U:494:ASN:OD1	2.13	0.60
2:U:513:LYS:NZ	2:U:530:GLU:OE2	2.34	0.60
3:Y:86:PRO:O	3:Y:287:ASN:ND2	2.34	0.60
1:D:217:LYS:HG2	1:D:275:THR:HG22	1.82	0.59
1:D:310:ASP:OD2	1:D:315:ASN:ND2	2.31	0.59
1:E:302:ASP:OD1	1:E:303:SER:N	2.34	0.59
1:G:176:ASP:HA	1:G:180:LYS:HE3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:402:THR:HG23	1:G:414:ASN:O	2.01	0.59
1:H:193:VAL:HG12	1:H:653:SER:OG	2.01	0.59
1:K:729:LEU:HD12	1:K:730:ALA:N	2.17	0.59
2:R:147:VAL:CG1	2:R:473:ALA:HB1	2.31	0.59
2:S:84:LEU:HD12	2:S:557:TYR:HB3	1.83	0.59
2:T:106:ASN:O	2:T:108:GLY:N	2.34	0.59
2:U:156:LYS:O	2:U:160:LYS:N	2.29	0.59
3:Y:154:THR:O	3:Y:158:LEU:N	2.34	0.59
1:B:502:ASN:O	1:B:507:ASN:N	2.34	0.59
1:C:686:ALA:HB3	2:Q:138:LYS:HZ3	1.66	0.59
1:E:71:GLU:O	1:E:75:ASN:ND2	2.36	0.59
1:E:108:GLU:OE2	1:E:645:LEU:HD13	2.02	0.59
1:I:249:PRO:HB2	1:I:353:THR:HG21	1.84	0.59
1:J:219:GLN:N	1:J:272:PRO:O	2.35	0.59
2:M:411:ASN:O	2:M:412:ASP:OD1	2.20	0.59
2:O:377:TYR:CE1	2:O:450:ALA:HB3	2.37	0.59
2:T:224:ILE:HD11	2:T:239:HIS:CB	2.30	0.59
2:U:342:ALA:HB2	2:U:377:TYR:HD2	1.66	0.59
3:X:113:VAL:HG13	3:X:188:LEU:O	2.02	0.59
3:X:567:LEU:O	3:X:571:THR:N	2.29	0.59
3:Z:90:LEU:HD21	3:Z:92:VAL:HG13	1.84	0.59
1:B:203:ASN:OD1	1:K:292:ASN:ND2	2.34	0.59
1:H:213:THR:OG1	1:H:215:ASP:OD1	2.19	0.59
1:J:538:THR:O	1:J:538:THR:HG22	2.01	0.59
1:J:724:LEU:O	1:J:728:GLN:N	2.25	0.59
1:K:457:THR:HG22	1:K:477:LEU:HD12	1.85	0.59
1:K:473:VAL:HG12	1:K:475:ILE:CD1	2.30	0.59
2:O:8:TYR:O	2:O:12:THR:HG23	2.02	0.59
2:O:409:ASP:OD1	2:O:419:ASP:HB3	2.03	0.59
2:O:424:ILE:HG22	2:O:443:ALA:HA	1.84	0.59
2:T:211:LEU:O	2:T:215:VAL:N	2.32	0.59
2:U:38:ARG:NH1	2:U:566:SER:O	2.36	0.59
2:U:525:ASN:O	2:U:526:LEU:HD12	2.02	0.59
3:Y:262:THR:HG22	3:Y:267:LYS:HD3	1.84	0.59
3:Y:420:LYS:O	3:Y:554:ILE:N	2.34	0.59
1:A:548:ASN:O	1:A:552:THR:N	2.31	0.59
1:A:735:LEU:O	1:A:739:THR:HG23	2.01	0.59
1:C:379:THR:HA	1:C:384:GLN:HA	1.83	0.59
1:C:669:ARG:O	1:C:672:HIS:HB3	2.02	0.59
1:D:251:THR:HG23	1:D:604:PHE:CZ	2.37	0.59
1:E:213:THR:OG1	1:E:215:ASP:OD1	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:281:GLU:O	1:I:422:ASN:ND2	2.26	0.59
1:K:2:ARG:CB	2:S:567:LYS:C	2.70	0.59
2:L:374:ILE:N	2:L:387:LYS:O	2.29	0.59
2:M:577:ALA:O	2:M:579:LEU:N	2.34	0.59
2:P:44:THR:N	2:P:61:ALA:O	2.32	0.59
2:P:243:LEU:HB3	2:P:251:VAL:HG12	1.83	0.59
3:W:598:THR:HG22	3:W:602:ILE:HD11	1.84	0.59
1:B:353:THR:HG23	1:B:357:MET:HE1	1.83	0.59
1:B:407:ALA:HB2	1:B:415:VAL:HG12	1.84	0.59
1:B:628:GLU:CB	1:B:631:VAL:CG2	2.76	0.59
1:C:688:HIS:O	1:C:691:ILE:N	2.35	0.59
1:E:3:ILE:CG1	1:E:7:LEU:HB2	2.33	0.59
1:J:32:SER:OG	1:J:37:GLN:NE2	2.36	0.59
1:K:280:MET:HB3	1:K:298:VAL:HG11	1.82	0.59
2:M:548:VAL:O	2:Q:203:ARG:NH2	2.35	0.59
2:O:179:ILE:HA	2:O:182:ILE:HD12	1.83	0.59
2:O:560:VAL:HG22	2:O:564:TYR:CE2	2.37	0.59
2:T:410:ASP:OD1	2:T:411:ASN:N	2.33	0.59
2:U:122:ASP:O	2:U:126:ASN:N	2.28	0.59
2:U:186:ILE:O	2:U:192:LEU:HD21	2.02	0.59
2:U:399:ASP:OD1	2:U:402:ARG:NH1	2.35	0.59
3:W:602:ILE:HG23	3:W:606:TYR:HE2	1.66	0.59
1:A:461:LEU:CD2	1:A:591:LEU:HD12	2.33	0.59
1:I:181:ALA:HB2	1:I:630:ASN:ND2	2.17	0.59
1:J:232:LEU:HD13	1:J:238:PHE:CZ	2.37	0.59
2:Q:165:ILE:O	2:Q:168:THR:N	2.36	0.59
2:T:119:ALA:HB3	2:T:136:LEU:HD13	1.84	0.59
2:U:364:ASP:OD2	2:U:366:THR:OG1	2.14	0.59
3:Y:539:LEU:HA	3:Y:542:LEU:HD12	1.83	0.59
3:Z:77:LYS:NZ	3:Z:299:ASP:OD2	2.34	0.59
1:A:139:GLN:NE2	1:A:142:ASN:OD1	2.35	0.59
1:C:336:LYS:O	1:C:339:ILE:N	2.35	0.59
1:E:138:SER:OG	1:E:154:ASP:OD2	2.08	0.59
1:E:500:HIS:N	1:E:510:VAL:O	2.32	0.59
1:G:528:MET:SD	1:G:558:MET:HA	2.42	0.59
1:I:100:ASP:OD1	3:Y:361:ASP:N	2.35	0.59
1:J:29:GLN:O	1:J:33:GLY:N	2.28	0.59
2:N:230:LEU:O	2:N:231:ASP:HB3	2.03	0.59
2:O:472:ASP:OD1	2:O:474:SER:OG	2.18	0.59
2:T:168:THR:HG22	2:T:172:ILE:HD13	1.85	0.59
3:X:48:LYS:O	3:X:52:GLU:OE1	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:78:VAL:HG22	3:X:296:VAL:HG22	1.83	0.59
3:Y:37:THR:HG22	3:Y:41:GLU:OE2	2.02	0.59
3:Y:354:LEU:HD12	3:Y:355:PHE:N	2.18	0.59
1:A:408:ASN:ND2	1:A:411:ASP:OD2	2.36	0.59
1:B:429:SER:HA	1:B:574:ARG:HB3	1.85	0.59
1:D:49:ASN:O	1:D:52:LEU:N	2.33	0.59
1:G:3:ILE:HG23	2:O:569:GLY:H	1.67	0.59
1:I:52:LEU:O	1:I:56:ILE:HG22	2.02	0.59
1:I:460:ASN:O	1:I:592:SER:N	2.33	0.59
1:I:631:VAL:HG12	1:I:633:ILE:HG13	1.85	0.59
2:T:198:ASN:OD1	2:T:201:ARG:NH1	2.36	0.59
3:Y:568:GLN:O	3:Y:572:GLY:N	2.36	0.59
1:H:376:VAL:O	1:H:387:ILE:N	2.34	0.59
1:J:45:THR:O	1:J:49:ASN:ND2	2.36	0.59
1:J:447:GLU:OE1	1:J:447:GLU:N	2.35	0.59
1:K:484:TYR:O	1:K:494:ILE:N	2.31	0.59
2:P:55:GLN:CG	2:T:192:LEU:HD13	2.32	0.59
2:P:219:ALA:HB1	2:P:241:TYR:CE2	2.38	0.59
2:P:342:ALA:HB2	2:P:377:TYR:HE2	1.68	0.59
2:P:360:LEU:HD11	2:P:391:ILE:HD11	1.84	0.59
2:S:335:ASN:O	2:S:339:ALA:N	2.30	0.59
3:X:321:LEU:O	3:X:325:THR:HG22	2.03	0.59
1:A:24:TYR:CZ	3:X:622:LYS:HB3	2.37	0.59
1:E:570:ASP:OD2	1:E:574:ARG:NH1	2.36	0.59
1:E:649:MET:SD	1:E:664:GLN:NE2	2.76	0.59
1:F:156:ASN:OD1	1:F:157:ASN:N	2.35	0.59
1:G:97:ALA:HA	1:G:102:ASN:HD21	1.67	0.59
1:G:547:ASN:OD1	1:G:550:ASP:N	2.27	0.59
1:I:197:ASP:OD1	1:I:198:ASN:N	2.36	0.59
2:M:42:VAL:O	2:M:63:GLU:N	2.33	0.59
2:S:472:ASP:O	2:S:476:MET:HG3	2.03	0.59
2:V:37:THR:HG23	2:V:38:ARG:H	1.67	0.59
3:X:532:ILE:HD12	3:X:547:VAL:HG12	1.84	0.59
1:D:175:TRP:O	1:D:179:PHE:N	2.32	0.58
1:E:196:THR:HG22	1:E:211:TYR:HD1	1.68	0.58
1:E:484:TYR:CZ	1:E:494:ILE:HB	2.38	0.58
1:J:428:VAL:HG23	1:J:619:SER:HA	1.85	0.58
1:J:512:THR:HG22	1:J:513:GLY:N	2.18	0.58
2:O:56:VAL:HG12	2:U:195:GLU:CB	2.33	0.58
2:P:604:LEU:HD23	2:P:604:LEU:C	2.23	0.58
2:Q:95:GLN:NE2	2:Q:543:GLY:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:251:VAL:O	2:Q:253:GLY:N	2.35	0.58
2:R:262:ASP:OD1	2:R:263:TYR:N	2.36	0.58
2:S:267:ASN:OD1	2:S:269:SER:N	2.36	0.58
1:C:186:LYS:HA	1:C:628:GLU:HA	1.85	0.58
1:C:402:THR:N	1:C:414:ASN:OD1	2.36	0.58
1:G:508:SER:HG	1:G:551:TYR:HD2	1.49	0.58
1:H:72:MET:CE	1:H:134:LEU:HD13	2.33	0.58
1:I:42:ASP:OD2	1:I:45:THR:OG1	2.10	0.58
1:J:501:THR:OG1	2:T:418:ASP:HB2	2.01	0.58
2:L:172:ILE:CD1	2:L:214:LEU:HD11	2.32	0.58
2:M:274:TYR:CZ	2:M:282:ARG:HB3	2.37	0.58
3:W:217:ASN:OD1	3:W:218:ALA:N	2.36	0.58
3:W:263:LEU:HD12	3:W:264:ASP:H	1.68	0.58
1:C:460:ASN:OD1	1:C:592:SER:OG	2.05	0.58
1:D:431:VAL:HG22	1:D:438:TYR:CE2	2.39	0.58
1:F:245:LEU:HD22	1:F:339:ILE:HD11	1.85	0.58
1:G:380:ILE:O	1:G:383:GLN:N	2.33	0.58
1:G:679:LYS:O	1:G:683:THR:HG23	2.03	0.58
1:I:1:MET:HB3	2:P:571:ASN:HD22	1.67	0.58
1:I:656:GLU:OE1	1:I:656:GLU:N	2.34	0.58
1:K:461:LEU:HD11	1:K:589:ILE:CG2	2.33	0.58
2:L:298:ASP:OD1	2:L:299:LEU:N	2.36	0.58
2:R:528:MET:N	2:R:528:MET:SD	2.77	0.58
2:S:492:SER:N	2:S:499:GLY:O	2.36	0.58
2:T:535:LEU:O	2:T:539:ILE:HD12	2.03	0.58
2:U:242:ASN:OD1	2:U:243:LEU:N	2.36	0.58
1:E:686:ALA:O	1:F:116:ARG:NH1	2.37	0.58
1:F:62:VAL:HG12	1:F:698:THR:HG21	1.84	0.58
1:F:454:LEU:HD22	1:F:457:THR:HG21	1.85	0.58
1:G:464:ASN:OD1	1:G:465:SER:N	2.35	0.58
1:I:6:LYS:HG3	1:I:9:PHE:CE2	2.39	0.58
1:K:254:VAL:N	1:K:266:SER:O	2.37	0.58
2:M:76:LYS:NZ	2:Q:190:GLU:OE1	2.36	0.58
2:N:259:LEU:HG	2:N:284:LEU:CD1	2.34	0.58
2:O:56:VAL:CG1	2:U:65:ILE:HD13	2.33	0.58
2:P:42:VAL:HG12	2:P:43:GLN:H	1.68	0.58
2:T:558:ASN:HA	2:T:561:TYR:CE2	2.39	0.58
2:V:327:ALA:HB1	2:V:476:MET:HE1	1.85	0.58
2:V:354:LEU:CD1	2:V:358:ILE:HD12	2.33	0.58
1:G:103:SER:HB2	3:Z:370:ASN:HB3	1.86	0.58
1:G:649:MET:HE2	3:Z:375:LYS:HE2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:73:THR:HB	1:I:684:MET:HE2	1.84	0.58
2:M:411:ASN:ND2	2:M:415:ASN:O	2.36	0.58
2:Q:376:ILE:HD13	2:Q:449:VAL:HG23	1.84	0.58
2:R:329:THR:HG21	2:R:516:PHE:HA	1.85	0.58
2:S:164:ASP:O	2:S:168:THR:HG23	2.03	0.58
2:U:145:GLU:O	2:U:149:ASN:ND2	2.37	0.58
2:V:124:ALA:HB1	2:V:504:ASN:OD1	2.03	0.58
3:Y:273:ASN:OD1	3:Y:286:LEU:HD12	2.04	0.58
1:D:4:THR:HG23	1:D:6:LYS:H	1.67	0.58
1:G:643:ALA:O	1:G:648:ASN:N	2.31	0.58
1:H:24:TYR:O	1:H:27:SER:N	2.37	0.58
1:I:212:LEU:HD21	1:I:220:GLN:HB3	1.84	0.58
1:I:265:LYS:N	1:I:611:GLN:O	2.28	0.58
1:J:170:TYR:HA	1:J:687:TYR:CD2	2.38	0.58
1:K:162:THR:O	1:K:166:THR:OG1	2.22	0.58
2:N:182:ILE:HG21	2:N:207:LEU:HD11	1.86	0.58
2:N:604:LEU:C	2:N:604:LEU:HD23	2.24	0.58
2:V:327:ALA:O	2:V:476:MET:HE2	2.03	0.58
3:X:112:ASP:CG	3:X:256:ALA:HB2	2.24	0.58
1:B:328:GLN:N	1:B:388:ASP:O	2.32	0.58
1:D:240:TYR:O	1:D:244:LYS:N	2.36	0.58
1:D:484:TYR:N	1:D:494:ILE:O	2.34	0.58
1:G:3:ILE:CG1	2:O:565:GLN:HA	2.33	0.58
1:H:401:ASP:OD1	1:H:405:ASN:N	2.36	0.58
1:I:195:PHE:CD2	1:I:212:LEU:HD12	2.39	0.58
1:J:227:VAL:O	1:J:328:GLN:NE2	2.36	0.58
1:J:539:ILE:HG22	1:J:546:ILE:CD1	2.34	0.58
1:K:372:LEU:HD23	1:K:372:LEU:O	2.04	0.58
1:K:458:THR:HG23	1:K:475:ILE:O	2.03	0.58
2:M:410:ASP:OD1	2:M:411:ASN:N	2.34	0.58
2:O:14:LEU:HD21	2:O:589:ALA:HB3	1.85	0.58
2:O:93:THR:O	2:O:96:GLU:HG3	2.04	0.58
2:O:146:SER:O	2:O:149:ASN:OD1	2.22	0.58
2:P:273:TYR:HB3	2:P:282:ARG:O	2.04	0.58
2:P:298:ASP:OD1	2:P:299:LEU:N	2.36	0.58
2:P:516:PHE:N	2:P:524:ASP:O	2.31	0.58
2:T:94:LEU:HD12	2:T:546:ASN:HD22	1.68	0.58
1:A:140:VAL:O	1:A:140:VAL:HG12	2.04	0.58
1:A:378:VAL:O	1:A:385:PHE:N	2.35	0.58
2:P:549:VAL:O	2:P:552:SER:OG	2.20	0.58
2:Q:89:TYR:O	2:Q:93:THR:HG23	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:194:THR:N	2:R:226:GLN:OE1	2.37	0.58
2:S:504:ASN:O	2:S:508:GLN:N	2.33	0.58
2:T:192:LEU:HD12	2:T:235:THR:HG21	1.84	0.58
3:Y:57:LEU:HD11	3:Y:567:LEU:HD22	1.86	0.58
3:Z:471:ASN:N	3:Z:475:THR:O	2.30	0.58
1:C:29:GLN:O	1:C:33:GLY:N	2.35	0.58
1:D:518:THR:N	1:D:521:GLN:OE1	2.32	0.58
1:F:398:LYS:NZ	1:F:655:SER:O	2.37	0.58
1:G:188:GLN:O	1:G:625:THR:HG23	2.04	0.58
1:I:432:ILE:HG23	1:I:447:GLU:HB3	1.85	0.58
2:M:455:GLY:O	2:M:457:ASN:ND2	2.37	0.58
2:N:444:LYS:HG2	2:N:445:SER:H	1.69	0.58
2:P:12:THR:OG1	2:P:60:THR:OG1	2.20	0.58
3:Y:486:GLU:O	3:Y:490:ASN:ND2	2.37	0.58
1:C:139:GLN:N	1:C:154:ASP:OD2	2.33	0.58
1:C:646:LYS:NZ	1:C:656:GLU:OE2	2.32	0.58
1:D:161:VAL:HG13	1:D:166:THR:O	2.04	0.58
2:S:31:ALA:HA	2:S:570:VAL:HG21	1.84	0.58
2:V:107:THR:CG2	2:V:110:LEU:CD1	2.81	0.58
3:X:417:ASN:OD1	3:X:557:LYS:NZ	2.30	0.58
1:B:24:TYR:O	1:B:27:SER:N	2.37	0.57
1:C:475:ILE:HG23	1:C:482:VAL:HG22	1.86	0.57
1:D:341:ALA:HB1	1:D:381:ASN:HB2	1.85	0.57
1:H:142:ASN:OD1	1:H:143:LYS:N	2.36	0.57
1:H:178:PHE:O	1:H:631:VAL:HG23	2.04	0.57
1:K:729:LEU:HD11	3:X:627:LEU:CG	2.34	0.57
1:K:729:LEU:HD11	3:X:627:LEU:CD1	2.34	0.57
2:O:272:ILE:N	2:O:285:THR:OG1	2.34	0.57
2:U:604:LEU:HD23	2:U:604:LEU:C	2.24	0.57
3:W:440:LEU:HD23	3:W:487:LEU:HD12	1.86	0.57
1:A:189:ILE:HG23	1:A:308:ILE:CB	2.30	0.57
1:B:548:ASN:O	1:B:552:THR:OG1	2.18	0.57
1:E:214:GLY:O	1:E:276:LEU:N	2.37	0.57
1:I:21:SER:O	1:I:24:TYR:N	2.37	0.57
1:I:245:LEU:HD22	1:I:336:LYS:HD3	1.85	0.57
1:K:178:PHE:O	1:K:631:VAL:HG12	2.04	0.57
2:P:305:SER:N	2:P:310:LYS:O	2.36	0.57
2:R:276:THR:O	2:R:278:ASP:N	2.37	0.57
2:S:250:ILE:O	2:S:250:ILE:HG13	2.04	0.57
2:S:350:TYR:HA	2:S:438:LEU:HD13	1.85	0.57
2:S:399:ASP:OD1	2:S:402:ARG:NH1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:686:ALA:HB3	2:Q:138:LYS:NZ	2.20	0.57
1:C:695:ASN:O	1:C:699:SER:N	2.36	0.57
2:P:72:TYR:O	2:P:76:LYS:N	2.32	0.57
2:U:165:ILE:HA	2:U:168:THR:HG22	1.86	0.57
3:W:430:VAL:HG22	3:W:519:ARG:HB3	1.86	0.57
3:Y:360:VAL:O	3:Y:361:ASP:OD1	2.23	0.57
3:Z:345:SER:O	3:Z:348:SER:OG	2.19	0.57
3:Z:617:GLU:O	3:Z:621:ASN:ND2	2.37	0.57
1:A:289:ASN:OD1	1:A:296:VAL:HG22	2.04	0.57
1:B:155:LYS:HA	1:B:175:TRP:CD1	2.39	0.57
1:D:548:ASN:O	1:D:552:THR:N	2.38	0.57
1:H:37:GLN:N	1:H:41:GLU:OE1	2.33	0.57
1:I:3:ILE:O	2:P:563:GLU:C	2.41	0.57
1:I:156:ASN:OD1	1:I:157:ASN:N	2.37	0.57
1:K:2:ARG:HB2	2:S:567:LYS:C	2.24	0.57
2:M:598:GLN:O	2:M:602:THR:HG23	2.04	0.57
2:O:414:LYS:O	2:O:415:ASN:HB3	2.02	0.57
2:R:492:SER:OG	2:R:496:VAL:O	2.22	0.57
2:U:195:GLU:HA	2:U:198:ASN:OD1	2.04	0.57
3:W:342:GLU:OE2	3:W:577:ILE:N	2.37	0.57
3:Y:237:PRO:O	3:Y:241:LYS:HA	2.05	0.57
3:Z:203:ALA:HB1	3:Z:218:ALA:HB3	1.85	0.57
1:B:36:ILE:HD12	1:B:46:TYR:CE2	2.39	0.57
1:B:233:ASP:N	1:B:237:ASP:OD2	2.37	0.57
1:C:302:ASP:OD1	1:C:303:SER:N	2.37	0.57
1:G:722:MET:HB3	3:Z:620:LEU:HD22	1.87	0.57
1:I:144:PRO:O	1:I:152:TYR:N	2.31	0.57
1:J:334:GLU:OE2	1:J:338:ILE:HD11	2.03	0.57
1:K:402:THR:HG23	1:K:414:ASN:OD1	2.04	0.57
1:K:476:ASN:ND2	1:K:479:THR:OG1	2.37	0.57
2:M:354:LEU:HD12	2:M:358:ILE:HD12	1.86	0.57
2:Q:373:ASP:OD1	2:Q:386:THR:OG1	2.22	0.57
2:R:275:GLU:OE1	2:R:281:VAL:HG22	2.04	0.57
2:S:70:ASP:OD1	2:S:567:LYS:NZ	2.37	0.57
2:U:343:LYS:N	2:U:449:VAL:O	2.32	0.57
3:X:203:ALA:HB1	3:X:218:ALA:HB3	1.86	0.57
1:B:459:LEU:HD23	1:B:593:ASP:HA	1.87	0.57
1:D:104:GLN:OE1	1:D:107:ARG:NH2	2.35	0.57
1:E:258:LYS:O	1:E:261:GLY:N	2.37	0.57
1:E:413:ASP:OD2	1:E:617:SER:OG	2.16	0.57
1:G:129:VAL:O	1:G:130:ASN:OD1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:72:MET:O	1:J:76:SER:N	2.35	0.57
1:J:86:LEU:HB3	1:J:117:ILE:CG2	2.35	0.57
2:L:344:SER:OG	2:L:379:ASP:OD1	2.22	0.57
2:L:467:PHE:CZ	2:L:478:VAL:HG13	2.39	0.57
2:O:260:LYS:HD2	2:O:275:GLU:HB3	1.87	0.57
2:P:54:VAL:HB	2:T:194:THR:HA	1.87	0.57
2:P:201:ARG:O	2:P:205:ASP:N	2.35	0.57
2:R:85:GLU:O	2:R:292:GLN:NE2	2.38	0.57
2:T:594:SER:O	2:T:597:ASP:OD1	2.22	0.57
3:W:79:VAL:N	3:W:295:ASP:O	2.37	0.57
3:W:158:LEU:HD13	3:W:221:ILE:HG22	1.86	0.57
1:B:63:LYS:HD3	1:B:699:SER:HA	1.87	0.57
1:E:100:ASP:OD1	1:E:101:SER:N	2.37	0.57
1:F:526:ILE:HA	1:F:529:PHE:CD2	2.39	0.57
2:P:231:ASP:O	2:P:233:THR:N	2.38	0.57
2:U:384:LYS:HD2	2:U:385:LEU:HG	1.86	0.57
2:U:479:LYS:NZ	2:U:481:SER:OG	2.36	0.57
3:X:33:ILE:O	3:X:36:TYR:N	2.37	0.57
3:X:130:LEU:HD22	3:X:149:VAL:HG12	1.87	0.57
3:X:135:ASP:O	3:X:135:ASP:OD1	2.23	0.57
3:X:174:ILE:HD12	3:X:186:LEU:CD1	2.34	0.57
3:X:402:GLN:O	3:X:406:GLU:N	2.38	0.57
3:X:575:GLY:O	3:X:579:LYS:N	2.29	0.57
3:Y:222:PHE:CE2	3:Y:229:LEU:HD21	2.40	0.57
3:Z:385:LEU:HD12	3:Z:394:SER:O	2.03	0.57
1:B:206:PRO:O	1:B:209:THR:HG23	2.04	0.57
1:C:361:THR:HG22	1:C:372:LEU:HD21	1.87	0.57
1:F:197:ASP:OD1	1:F:198:ASN:N	2.38	0.57
1:I:7:LEU:HD23	2:P:561:TYR:O	2.05	0.57
1:J:174:GLY:O	1:J:177:LEU:N	2.38	0.57
1:K:367:GLY:O	1:K:372:LEU:HA	2.05	0.57
1:K:418:GLU:OE2	1:K:425:TYR:OH	2.22	0.57
2:U:377:TYR:CE2	2:U:494:ASN:HA	2.40	0.57
3:W:457:PHE:CZ	3:W:532:ILE:HG23	2.39	0.57
1:A:532:ASP:OD1	1:A:533:LYS:NZ	2.35	0.57
1:B:287:TYR:O	1:B:295:VAL:HG21	2.04	0.57
1:C:159:ASN:HB3	1:C:167:GLU:HB3	1.86	0.57
1:G:160:VAL:N	1:G:167:GLU:OE2	2.38	0.57
1:G:750:MET:N	1:G:750:MET:SD	2.78	0.57
1:I:142:ASN:OD1	1:I:143:LYS:N	2.38	0.57
1:J:111:ALA:HB2	1:J:644:VAL:HG11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:375:VAL:HG13	2:L:385:LEU:O	2.05	0.57
2:O:272:ILE:HD13	2:O:288:ILE:HD12	1.87	0.57
2:P:392:ASP:OD2	2:P:394:ASN:ND2	2.38	0.57
2:V:94:LEU:HD23	2:V:97:ILE:HD11	1.86	0.57
3:Z:84:ASP:O	3:Z:288:LYS:NZ	2.38	0.57
1:A:463:VAL:HB	1:A:471:TYR:CE1	2.40	0.57
1:B:369:ILE:HG13	1:B:370:THR:N	2.19	0.57
1:E:142:ASN:OD1	1:E:143:LYS:N	2.38	0.57
1:G:16:SER:O	1:G:731:TYR:OH	2.12	0.57
1:G:265:LYS:O	1:G:611:GLN:N	2.35	0.57
1:I:5:ASN:N	2:P:566:SER:HB2	2.19	0.57
1:J:226:TYR:CE1	1:J:326:THR:HG23	2.40	0.57
1:K:34:LEU:HD22	1:K:713:ILE:HG13	1.87	0.57
1:K:68:ARG:NH2	2:S:122:ASP:OD1	2.38	0.57
2:M:128:ASN:OD1	2:M:129:GLU:N	2.38	0.57
2:P:37:THR:HG22	2:P:38:ARG:N	2.19	0.57
2:U:516:PHE:N	2:U:524:ASP:O	2.34	0.57
3:Y:414:PHE:O	3:Y:559:ILE:N	2.38	0.57
3:Y:510:TYR:N	3:Y:517:GLY:O	2.38	0.57
1:G:176:ASP:CA	1:G:180:LYS:HE3	2.35	0.56
1:H:64:GLU:O	1:H:67:SER:OG	2.16	0.56
1:J:290:THR:N	1:J:293:ASN:O	2.38	0.56
2:L:83:GLN:O	2:L:87:THR:HG23	2.05	0.56
2:M:328:LYS:NZ	2:M:471:THR:OG1	2.38	0.56
2:M:489:VAL:O	2:M:490:ARG:NH1	2.38	0.56
2:Q:558:ASN:HA	2:Q:561:TYR:HB3	1.86	0.56
2:T:518:ASN:N	2:T:522:THR:O	2.38	0.56
2:V:69:HIS:ND1	2:V:564:TYR:OH	2.38	0.56
2:V:250:ILE:HG23	2:V:250:ILE:O	2.05	0.56
3:W:508:GLU:HG3	3:W:519:ARG:HG3	1.86	0.56
3:Y:507:VAL:HG22	3:Y:520:LEU:HD12	1.87	0.56
1:A:83:MET:HE3	1:A:86:LEU:HD12	1.87	0.56
1:B:548:ASN:O	1:B:552:THR:N	2.34	0.56
1:E:428:VAL:HG23	1:E:619:SER:HA	1.86	0.56
1:E:502:ASN:O	1:E:506:GLY:N	2.38	0.56
1:H:724:LEU:O	1:H:728:GLN:N	2.29	0.56
1:I:90:PHE:CZ	1:I:121:ILE:HD11	2.40	0.56
1:J:194:SER:N	1:J:652:ASP:OD1	2.38	0.56
2:P:606:LEU:HD21	2:T:586:TYR:CE2	2.41	0.56
2:R:335:ASN:OD1	2:R:467:PHE:N	2.37	0.56
2:U:206:GLU:O	2:U:210:THR:N	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:539:LEU:O	3:W:544:LEU:N	2.38	0.56
3:X:36:TYR:CD1	3:X:591:LEU:HD12	2.40	0.56
1:A:306:ILE:HG22	1:A:308:ILE:HD11	1.86	0.56
1:A:371:LYS:NZ	1:A:405:ASN:OD1	2.37	0.56
1:C:35:LYS:NZ	1:C:714:ASP:O	2.37	0.56
1:F:434:GLY:O	1:F:436:ASN:ND2	2.36	0.56
1:G:342:ALA:O	1:G:346:GLY:N	2.38	0.56
1:I:6:LYS:HG3	1:I:9:PHE:CZ	2.40	0.56
1:I:158:ILE:HG22	1:I:170:TYR:CE1	2.40	0.56
1:I:431:VAL:HG22	1:I:438:TYR:CE1	2.40	0.56
1:K:245:LEU:HD13	1:K:339:ILE:CD1	2.35	0.56
2:L:53:GLY:O	2:V:189:GLN:NE2	2.30	0.56
2:L:241:TYR:HB3	2:L:254:ILE:HG23	1.87	0.56
2:L:586:TYR:O	2:L:589:ALA:N	2.38	0.56
2:M:573:ASN:OD1	2:M:574:GLU:N	2.38	0.56
2:O:182:ILE:CG2	2:O:200:LEU:HD22	2.36	0.56
2:O:563:GLU:OE2	2:O:564:TYR:CE1	2.58	0.56
2:P:51:THR:HG21	2:T:63:GLU:OE2	2.04	0.56
2:P:113:LEU:HD13	2:P:143:LEU:HD22	1.87	0.56
2:P:360:LEU:CD1	2:P:391:ILE:HD11	2.35	0.56
2:U:287:LYS:HA	2:U:287:LYS:HE3	1.87	0.56
2:U:518:ASN:OD1	2:U:519:GLU:N	2.37	0.56
3:X:72:VAL:O	3:X:72:VAL:HG12	2.06	0.56
3:X:113:VAL:O	3:X:253:ILE:N	2.37	0.56
3:X:424:ILE:HD11	3:X:528:SER:O	2.05	0.56
3:Y:619:ILE:O	3:Y:622:LYS:HG2	2.05	0.56
3:Z:103:ILE:HD12	3:Z:262:THR:O	2.04	0.56
3:Z:307:MET:SD	3:Z:308:GLN:N	2.78	0.56
1:D:750:MET:C	1:E:735:LEU:HD21	2.26	0.56
1:G:237:ASP:OD2	1:G:332:LYS:NZ	2.37	0.56
1:G:452:ASP:OD1	1:G:453:SER:N	2.38	0.56
1:H:129:VAL:HG21	1:H:134:LEU:HD11	1.88	0.56
1:K:377:THR:HG23	1:K:385:PHE:O	2.04	0.56
2:L:526:LEU:HD21	2:L:530:GLU:OE1	2.04	0.56
2:O:416:SER:O	2:O:417:ASN:CG	2.43	0.56
2:P:46:ASN:N	2:P:58:THR:O	2.37	0.56
2:P:159:LYS:HA	2:P:159:LYS:HE2	1.87	0.56
2:Q:583:GLN:HA	2:Q:586:TYR:CE1	2.40	0.56
2:R:501:ASP:OD1	2:R:502:MET:N	2.38	0.56
2:U:112:ASP:O	2:U:116:TYR:N	2.33	0.56
3:X:587:ASP:O	3:X:591:LEU:HD23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:605:ARG:O	3:Y:608:THR:OG1	2.19	0.56
3:Y:607:ASP:O	3:Y:611:ASN:ND2	2.39	0.56
1:A:484:TYR:HB2	1:A:485:PRO:HD2	1.88	0.56
1:C:265:LYS:O	1:C:611:GLN:N	2.33	0.56
1:G:500:HIS:O	2:O:415:ASN:HB3	2.06	0.56
1:G:556:GLN:NE2	1:G:560:ASP:OD2	2.37	0.56
1:H:326:THR:HB	1:H:390:LYS:HB2	1.87	0.56
2:L:518:ASN:ND2	2:L:522:THR:O	2.39	0.56
2:M:314:GLY:O	2:M:317:GLN:HG2	2.05	0.56
2:O:513:LYS:HG2	2:O:527:THR:HG23	1.88	0.56
2:U:65:ILE:CG2	2:U:195:GLU:HG3	2.35	0.56
2:U:158:GLN:OE1	2:U:316:ILE:HB	2.05	0.56
3:W:479:LEU:HG	3:W:487:LEU:HD21	1.88	0.56
3:X:212:TYR:CE2	3:X:237:PRO:HB2	2.40	0.56
1:B:631:VAL:HG23	1:B:669:ARG:NH2	2.19	0.56
1:C:450:ALA:N	1:C:615:ASN:O	2.39	0.56
1:I:187:LYS:NZ	1:I:627:ASP:O	2.39	0.56
1:I:302:ASP:OD1	1:I:303:SER:N	2.38	0.56
1:K:2:ARG:N	2:S:566:SER:HA	2.20	0.56
1:K:546:ILE:HD12	1:K:554:ILE:HD12	1.86	0.56
2:M:29:SER:O	2:M:36:TYR:CE2	2.58	0.56
2:N:154:LEU:O	2:N:157:ILE:HG22	2.05	0.56
2:O:53:GLY:O	2:O:54:VAL:HG13	2.05	0.56
2:P:38:ARG:NH1	2:P:574:GLU:OE2	2.37	0.56
2:U:297:LEU:O	2:U:301:GLY:N	2.33	0.56
3:X:197:SER:HB3	3:X:256:ALA:HB1	1.88	0.56
1:D:92:VAL:O	1:D:95:THR:OG1	2.15	0.56
1:E:90:PHE:CE2	1:E:117:ILE:HG22	2.40	0.56
1:E:199:ARG:NH1	1:E:234:ALA:O	2.39	0.56
1:J:431:VAL:O	1:J:448:VAL:HG13	2.06	0.56
2:O:72:TYR:CD2	2:U:160:LYS:HE3	2.41	0.56
2:O:409:ASP:OD1	2:O:417:ASN:O	2.23	0.56
2:Q:203:ARG:HA	2:Q:206:GLU:OE1	2.06	0.56
2:S:263:TYR:CD2	2:S:268:LYS:HA	2.41	0.56
2:S:583:GLN:HA	2:S:586:TYR:CE1	2.41	0.56
2:T:600:LEU:O	2:T:604:LEU:HD13	2.05	0.56
2:U:170:ASP:OD1	2:U:174:LYS:NZ	2.39	0.56
2:U:506:ILE:O	2:U:510:GLN:N	2.35	0.56
3:W:621:ASN:O	3:W:625:GLN:NE2	2.38	0.56
3:X:101:MET:HG2	3:X:103:ILE:HD11	1.87	0.56
3:X:196:ASP:OD1	3:Y:180:LYS:NZ	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:422:ASN:ND2	1:D:582:SER:O	2.39	0.56
1:E:402:THR:N	1:E:414:ASN:OD1	2.38	0.56
1:F:130:ASN:ND2	1:F:130:ASN:O	2.39	0.56
1:I:53:GLU:N	1:I:53:GLU:OE1	2.35	0.56
1:K:92:VAL:O	1:K:96:GLN:OE1	2.23	0.56
2:L:204:ARG:NH1	2:L:220:SER:O	2.39	0.56
2:N:305:SER:N	2:N:310:LYS:O	2.33	0.56
2:Q:27:ASN:O	2:Q:31:ALA:N	2.39	0.56
2:S:337:LEU:HD11	2:S:509:LEU:HD22	1.86	0.56
3:X:19:ASP:OD1	3:X:20:THR:N	2.38	0.56
3:X:67:LEU:HB3	3:X:560:PHE:CD1	2.40	0.56
3:Y:603:ASP:OD1	3:Y:604:THR:N	2.39	0.56
3:Z:386:SER:OG	3:Z:399:LYS:NZ	2.39	0.56
1:F:432:ILE:HD12	1:F:437:ALA:HB3	1.87	0.56
1:G:33:GLY:C	1:G:715:VAL:HG12	2.27	0.56
1:G:422:ASN:N	1:G:583:SER:O	2.39	0.56
1:H:188:GLN:O	1:H:625:THR:HG23	2.06	0.56
1:J:624:LEU:HD21	1:J:659:ARG:HA	1.87	0.56
1:K:5:ASN:O	1:K:7:LEU:N	2.39	0.56
1:K:357:MET:O	1:K:361:THR:HG23	2.05	0.56
2:M:392:ASP:OD1	2:M:395:THR:N	2.35	0.56
2:O:71:GLU:O	2:O:74:TYR:N	2.39	0.56
2:O:335:ASN:OD1	2:O:468:PHE:N	2.38	0.56
2:O:338:TYR:OH	2:O:490:ARG:N	2.33	0.56
2:P:317:GLN:OE1	2:P:317:GLN:N	2.35	0.56
2:U:65:ILE:HG21	2:U:195:GLU:CG	2.36	0.56
3:X:236:ASP:N	3:X:240:ASP:OD2	2.39	0.56
1:E:628:GLU:O	1:E:669:ARG:NH2	2.30	0.56
1:I:160:VAL:HG12	1:I:170:TYR:CE1	2.40	0.56
1:I:401:ASP:N	1:I:405:ASN:O	2.31	0.56
1:K:473:VAL:CG1	1:K:475:ILE:HD11	2.35	0.56
2:L:443:ALA:HB1	2:L:447:PHE:HB2	1.86	0.56
2:M:400:ILE:O	2:M:404:ILE:N	2.37	0.56
2:R:117:ASN:ND2	2:R:510:GLN:OE1	2.39	0.56
2:S:338:TYR:HA	2:S:502:MET:HE3	1.88	0.56
2:U:464:ILE:HG23	2:U:464:ILE:O	2.06	0.56
2:U:480:ASP:OD1	2:U:483:LEU:HD12	2.05	0.56
3:X:303:VAL:O	3:X:307:MET:N	2.38	0.56
1:F:368:ASP:O	1:F:372:LEU:HD23	2.06	0.55
2:N:286:ALA:O	2:N:302:ARG:NH1	2.31	0.55
2:R:48:TYR:HD1	2:R:57:GLY:HA2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:485:ASP:OD1	2:T:487:SER:OG	2.24	0.55
3:Y:361:ASP:OD1	3:Y:373:ASN:N	2.39	0.55
1:E:189:ILE:HG22	1:E:625:THR:OG1	2.06	0.55
1:F:26:ILE:HB	1:F:724:LEU:HD13	1.87	0.55
1:G:704:ASN:O	1:G:707:SER:OG	2.21	0.55
1:H:444:LYS:NZ	1:H:446:SER:OG	2.39	0.55
1:J:551:TYR:CE2	2:T:416:SER:HB3	2.42	0.55
1:K:3:ILE:HA	2:S:564:TYR:CA	2.36	0.55
1:K:547:ASN:ND2	1:K:550:ASP:OD2	2.39	0.55
2:L:106:ASN:HA	2:L:111:GLN:HE22	1.70	0.55
2:M:199:GLU:OE2	2:R:45:THR:OG1	2.21	0.55
2:R:392:ASP:OD1	2:R:395:THR:N	2.39	0.55
3:W:41:GLU:OE2	3:W:45:THR:OG1	2.23	0.55
3:W:453:LYS:HB3	3:W:454:PRO:HD2	1.88	0.55
3:X:504:LYS:NZ	3:Y:157:ASP:OD1	2.28	0.55
1:B:363:ALA:O	1:B:366:ASN:N	2.35	0.55
1:C:128:SER:O	1:C:131:GLY:N	2.38	0.55
1:E:299:SER:O	1:E:307:GLN:N	2.37	0.55
1:H:432:ILE:HG22	1:H:433:LYS:N	2.22	0.55
1:J:500:HIS:HE1	1:J:512:THR:OG1	1.89	0.55
1:K:3:ILE:O	2:S:563:GLU:C	2.44	0.55
1:K:369:ILE:HD12	1:K:598:GLN:OE1	2.06	0.55
2:O:94:LEU:HD12	2:O:546:ASN:HD22	1.71	0.55
2:S:365:ARG:NH1	2:S:518:ASN:O	2.38	0.55
3:W:607:ASP:OD1	3:W:608:THR:N	2.38	0.55
1:B:177:LEU:O	1:B:632:ASP:OD2	2.24	0.55
1:B:264:PHE:CE1	1:B:286:LEU:HD21	2.41	0.55
1:B:418:GLU:OE2	1:B:427:ASN:N	2.35	0.55
1:C:215:ASP:OD1	1:C:216:SER:N	2.39	0.55
1:C:377:THR:HA	1:C:386:THR:HA	1.89	0.55
1:C:612:ASN:OD1	1:C:613:GLY:N	2.40	0.55
1:E:355:ARG:HD2	1:E:380:ILE:HD11	1.86	0.55
1:G:186:LYS:HB3	1:G:313:GLN:HA	1.89	0.55
2:M:159:LYS:O	2:M:163:ASP:N	2.35	0.55
2:M:378:ASP:OD1	2:M:381:GLY:N	2.35	0.55
2:N:241:TYR:CG	2:N:242:ASN:N	2.74	0.55
2:P:342:ALA:HB3	2:P:495:GLY:HA3	1.88	0.55
2:P:413:ASN:HB3	2:P:415:ASN:HB3	1.89	0.55
2:Q:468:PHE:HB3	2:Q:476:MET:HE3	1.88	0.55
2:R:202:ASP:O	2:R:206:GLU:OE1	2.25	0.55
2:R:323:LEU:HA	2:R:326:PHE:CE2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:84:LEU:O	2:S:84:LEU:HD23	2.07	0.55
2:U:71:GLU:OE1	2:U:71:GLU:N	2.35	0.55
3:W:138:PHE:O	3:W:145:TYR:N	2.39	0.55
3:Y:358:GLN:NE2	3:Y:380:MET:HA	2.21	0.55
3:Y:376:VAL:HG12	3:Y:377:MET:H	1.72	0.55
3:Y:535:ASP:O	3:Y:538:ILE:HG22	2.06	0.55
3:Z:559:ILE:H	3:Z:559:ILE:HD12	1.71	0.55
1:A:254:VAL:N	1:A:266:SER:O	2.39	0.55
1:A:288:GLY:O	1:A:293:ASN:ND2	2.39	0.55
1:A:324:ALA:HB3	1:A:392:THR:OG1	2.07	0.55
1:B:677:VAL:HG22	1:B:681:ASN:HD21	1.71	0.55
1:C:643:ALA:O	1:C:647:GLY:N	2.40	0.55
1:D:369:ILE:HG12	1:D:599:PHE:HB2	1.88	0.55
1:E:133:TYR:N	1:E:140:VAL:O	2.36	0.55
1:I:742:SER:O	1:I:746:LEU:HD13	2.06	0.55
2:L:198:ASN:OD1	2:L:201:ARG:NH2	2.36	0.55
2:M:431:ASP:N	2:M:436:ASP:O	2.38	0.55
2:N:36:TYR:CD2	2:N:570:VAL:HG11	2.42	0.55
2:P:124:ALA:HB2	2:P:503:ALA:HB1	1.88	0.55
2:Q:187:TYR:CZ	2:Q:237:PRO:HB3	2.42	0.55
2:S:507:ILE:O	2:S:510:GLN:HG3	2.07	0.55
2:T:379:ASP:OD2	2:T:446:GLY:N	2.37	0.55
2:U:43:GLN:HG2	2:U:62:VAL:HG22	1.88	0.55
2:U:155:ASP:OD1	2:U:156:LYS:N	2.40	0.55
2:V:193:PRO:O	2:V:197:ALA:N	2.37	0.55
3:X:48:LYS:O	3:X:51:THR:N	2.40	0.55
3:X:532:ILE:O	3:X:533:LYS:NZ	2.35	0.55
3:Y:380:MET:HG2	3:Y:385:LEU:HD13	1.89	0.55
3:Y:538:ILE:O	3:Y:542:LEU:N	2.35	0.55
3:Z:125:PHE:HA	3:Z:154:THR:HA	1.88	0.55
1:A:380:ILE:N	1:A:383:GLN:O	2.29	0.55
1:B:80:LEU:HB3	1:B:681:ASN:OD1	2.07	0.55
1:G:100:ASP:OD1	3:Z:372:VAL:HG11	2.05	0.55
1:H:80:LEU:HD11	1:H:684:MET:CG	2.36	0.55
1:I:92:VAL:O	1:I:96:GLN:N	2.32	0.55
2:L:568:SER:O	2:L:570:VAL:O	2.23	0.55
2:M:409:ASP:O	2:M:412:ASP:N	2.38	0.55
2:M:469:SER:OG	2:M:479:LYS:HA	2.07	0.55
2:O:492:SER:HA	2:O:501:ASP:OD1	2.06	0.55
2:T:89:TYR:HB2	2:T:292:GLN:HE22	1.71	0.55
3:W:611:ASN:O	3:W:614:LEU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:248:ASP:OD2	3:Y:251:LEU:HD12	2.07	0.55
1:A:178:PHE:CD1	1:A:633:ILE:HD12	2.42	0.55
1:G:671:ASP:OD1	1:G:672:HIS:N	2.40	0.55
1:H:91:LYS:HZ3	1:H:670:LEU:HD12	1.71	0.55
1:I:528:MET:HG2	1:I:533:LYS:HB2	1.89	0.55
1:J:77:MET:SD	1:J:684:MET:HG3	2.47	0.55
2:M:514:VAL:O	2:M:526:LEU:N	2.34	0.55
2:N:90:MET:HE3	2:N:299:LEU:HD21	1.89	0.55
2:N:144:THR:OG1	2:N:476:MET:O	2.23	0.55
2:O:375:VAL:HG13	2:O:385:LEU:O	2.06	0.55
2:Q:172:ILE:O	2:Q:176:GLY:N	2.38	0.55
2:Q:375:VAL:HG11	2:Q:383:LYS:CG	2.36	0.55
2:S:31:ALA:HA	2:S:570:VAL:CG2	2.37	0.55
2:S:504:ASN:HA	2:S:507:ILE:HB	1.89	0.55
2:U:297:LEU:HA	2:U:300:ARG:HG2	1.88	0.55
2:U:397:MET:O	2:U:401:MET:N	2.31	0.55
1:A:7:LEU:HD23	2:R:565:GLN:CD	2.28	0.55
1:A:53:GLU:HB2	2:R:105:GLN:OE1	2.07	0.55
1:A:138:SER:OG	1:A:154:ASP:OD2	2.22	0.55
1:C:279:VAL:HG12	1:C:283:ILE:HG13	1.89	0.55
1:C:745:SER:O	1:C:749:TYR:HB2	2.05	0.55
1:F:235:ASP:O	1:F:240:TYR:N	2.38	0.55
1:F:368:ASP:N	1:F:371:LYS:O	2.39	0.55
1:H:6:LYS:HA	1:H:9:PHE:CE2	2.42	0.55
1:I:5:ASN:O	1:I:7:LEU:N	2.40	0.55
1:I:237:ASP:OD2	1:I:332:LYS:NZ	2.28	0.55
1:J:178:PHE:O	1:J:631:VAL:HG23	2.06	0.55
2:N:238:GLY:O	2:N:253:GLY:N	2.38	0.55
2:O:549:VAL:O	2:O:553:ASN:N	2.34	0.55
3:W:275:VAL:O	3:W:275:VAL:HG12	2.06	0.55
3:Y:201:PHE:CE2	3:Y:246:ILE:HG22	2.42	0.55
1:A:26:ILE:HB	1:A:724:LEU:HD13	1.89	0.55
1:A:235:ASP:OD1	1:A:236:LYS:N	2.40	0.55
1:B:632:ASP:O	1:B:673:LEU:HD21	2.07	0.55
1:E:547:ASN:OD1	1:E:548:ASN:N	2.39	0.55
1:K:138:SER:N	1:K:154:ASP:OD1	2.36	0.55
2:L:375:VAL:HG12	2:L:377:TYR:CE1	2.42	0.55
2:M:257:HIS:HB3	2:M:258:PRO:HD3	1.88	0.55
2:P:241:TYR:CD1	2:P:241:TYR:C	2.80	0.55
2:R:350:TYR:CD2	2:R:438:LEU:HD13	2.42	0.55
2:S:166:LYS:HE2	2:S:166:LYS:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:46:ASN:N	2:V:58:THR:O	2.40	0.55
3:X:24:LEU:O	3:X:27:ALA:N	2.40	0.55
3:Z:620:LEU:HG	3:Z:623:LEU:HD12	1.89	0.55
1:B:226:TYR:O	1:B:328:GLN:NE2	2.40	0.55
1:G:593:ASP:OD1	1:G:594:SER:N	2.40	0.55
1:H:2:ARG:NH1	2:U:574:GLU:OE2	2.39	0.55
1:H:246:ASP:OD1	1:H:247:PHE:N	2.40	0.55
1:H:710:SER:O	1:H:714:ASP:N	2.40	0.55
1:I:47:ILE:HG23	2:P:533:ARG:NH2	2.21	0.55
1:I:218:TRP:HB3	1:I:272:PRO:HA	1.88	0.55
1:J:348:SER:O	1:J:351:GLU:HG2	2.07	0.55
1:J:566:ASP:OD1	1:J:580:LYS:NZ	2.34	0.55
1:J:677:VAL:O	1:J:681:ASN:OD1	2.25	0.55
1:K:161:VAL:HG22	1:K:167:GLU:OE2	2.06	0.55
2:N:158:GLN:NE2	2:N:316:ILE:HG22	2.22	0.55
2:N:421:ASP:OD1	2:N:422:ASP:N	2.40	0.55
2:Q:72:TYR:HA	2:Q:75:TYR:HB3	1.88	0.55
2:Q:399:ASP:OD1	2:Q:402:ARG:NH1	2.40	0.55
2:V:28:ILE:HD13	2:V:570:VAL:HG13	1.89	0.55
3:W:376:VAL:HG12	3:W:378:LEU:HG	1.89	0.55
3:Y:280:VAL:HG13	3:Y:280:VAL:O	2.07	0.55
1:A:656:GLU:OE1	1:A:656:GLU:N	2.37	0.54
1:C:528:MET:HE2	1:C:557:LEU:HG	1.89	0.54
1:E:46:TYR:O	1:E:50:THR:OG1	2.19	0.54
1:E:49:ASN:OD1	1:E:50:THR:N	2.40	0.54
1:E:341:ALA:O	1:E:381:ASN:ND2	2.38	0.54
1:E:631:VAL:CG1	1:E:673:LEU:HD21	2.37	0.54
1:G:135:PHE:O	1:G:174:GLY:HA3	2.07	0.54
1:G:190:SER:N	1:G:624:LEU:O	2.40	0.54
1:H:146:ASP:OD1	1:H:150:ASN:N	2.40	0.54
1:H:633:ILE:HG22	1:H:634:ILE:N	2.21	0.54
1:I:82:ASP:O	1:I:86:LEU:HD23	2.05	0.54
1:I:460:ASN:O	1:I:591:LEU:HD12	2.07	0.54
1:K:461:LEU:HD11	1:K:589:ILE:HG21	1.89	0.54
2:L:28:ILE:HD12	2:L:577:ALA:HB1	1.89	0.54
2:M:520:ASP:OD1	2:M:522:THR:HG23	2.07	0.54
2:N:185:GLN:O	2:N:196:HIS:ND1	2.40	0.54
2:P:54:VAL:HG12	2:P:55:GLN:N	2.21	0.54
2:Q:431:ASP:CG	2:Q:434:THR:HG1	2.09	0.54
2:R:367:ILE:HG23	2:R:456:THR:O	2.07	0.54
2:V:107:THR:HG22	2:V:110:LEU:CD1	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:591:LYS:O	2:V:594:SER:OG	2.24	0.54
3:Y:195:GLU:OE1	3:Y:195:GLU:N	2.33	0.54
1:A:36:ILE:HD13	1:A:42:ASP:HB3	1.87	0.54
1:D:418:GLU:N	1:D:418:GLU:OE1	2.40	0.54
1:F:184:ASP:OD2	1:F:679:LYS:NZ	2.30	0.54
1:H:138:SER:HA	1:H:158:ILE:HG22	1.89	0.54
1:H:643:ALA:O	1:H:647:GLY:N	2.41	0.54
1:J:449:MET:HB3	1:J:451:GLY:O	2.07	0.54
1:J:678:SER:O	1:J:682:THR:HG23	2.07	0.54
2:M:113:LEU:HA	2:M:116:TYR:CE2	2.42	0.54
2:O:4:PHE:CE1	2:V:581:GLN:HB2	2.43	0.54
2:P:51:THR:HB	2:T:64:SER:HB3	1.90	0.54
2:P:56:VAL:HA	2:T:196:HIS:HB3	1.89	0.54
2:R:4:PHE:CG	2:R:7:LEU:HD23	2.42	0.54
2:R:48:TYR:CD1	2:R:57:GLY:HA2	2.42	0.54
2:T:168:THR:O	2:T:172:ILE:HD12	2.07	0.54
1:B:632:ASP:O	1:B:669:ARG:NH2	2.40	0.54
1:F:245:LEU:HB3	1:F:339:ILE:HD11	1.89	0.54
1:G:488:ASN:HD21	1:G:536:THR:HG22	1.72	0.54
1:G:517:ILE:HG23	1:G:521:GLN:HE21	1.72	0.54
1:G:521:GLN:OE1	1:G:521:GLN:N	2.34	0.54
1:H:570:ASP:HB3	1:H:574:ARG:HB2	1.89	0.54
1:J:631:VAL:HG12	1:J:669:ARG:NH2	2.22	0.54
2:L:385:LEU:HB3	2:L:410:ASP:OD2	2.07	0.54
2:R:102:PRO:O	2:R:107:THR:HG21	2.08	0.54
2:U:120:TRP:HE3	2:U:136:LEU:HD21	1.72	0.54
2:V:215:VAL:HA	2:V:290:GLY:HA3	1.90	0.54
3:Y:410:SER:O	3:Y:414:PHE:N	2.38	0.54
3:Z:29:GLN:O	3:Z:33:ILE:HD12	2.07	0.54
1:D:5:ASN:HB2	2:Q:569:GLY:HA3	1.89	0.54
1:D:26:ILE:HB	1:D:724:LEU:HD13	1.89	0.54
1:F:43:ALA:N	2:V:544:GLU:OE1	2.32	0.54
1:K:649:MET:SD	3:X:375:LYS:O	2.66	0.54
2:M:41:VAL:HG12	2:M:64:SER:O	2.07	0.54
2:O:409:ASP:HA	2:O:419:ASP:CB	2.38	0.54
2:O:516:PHE:HB2	2:O:524:ASP:OD1	2.07	0.54
2:T:603:LEU:HD12	2:T:604:LEU:HD12	1.89	0.54
3:W:350:ILE:HD11	3:W:563:LEU:CD1	2.37	0.54
3:Z:128:ALA:O	3:Z:130:LEU:N	2.40	0.54
3:Z:219:GLU:OE2	3:Z:247:LYS:NZ	2.33	0.54
1:C:241:ASP:OD1	1:C:242:ASP:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:570:ASP:O	1:D:573:GLY:N	2.40	0.54
1:F:35:LYS:NZ	1:F:714:ASP:O	2.40	0.54
1:F:280:MET:HA	1:F:280:MET:HE3	1.88	0.54
1:F:326:THR:O	1:F:390:LYS:N	2.35	0.54
1:F:500:HIS:CE1	1:F:510:VAL:O	2.61	0.54
1:G:458:THR:HG23	1:G:475:ILE:O	2.07	0.54
1:H:196:THR:C	1:H:212:LEU:HD12	2.27	0.54
1:I:49:ASN:O	1:I:52:LEU:N	2.38	0.54
1:I:270:VAL:HG13	1:I:274:ASP:OD2	2.07	0.54
1:J:222:ILE:HG22	1:J:226:TYR:CE2	2.42	0.54
1:J:634:ILE:H	1:J:634:ILE:HD12	1.73	0.54
1:J:748:ASN:O	2:T:573:ASN:ND2	2.38	0.54
1:K:3:ILE:O	2:S:564:TYR:CA	2.55	0.54
2:P:55:GLN:HG2	2:T:192:LEU:HD13	1.88	0.54
2:P:56:VAL:HG21	2:T:193:PRO:HB2	1.90	0.54
2:Q:20:GLN:HB3	2:Q:582:TYR:CZ	2.42	0.54
2:U:165:ILE:HD11	2:U:296:GLN:HB3	1.90	0.54
2:U:397:MET:SD	2:U:398:ASN:N	2.81	0.54
2:V:60:THR:HG23	2:V:60:THR:O	2.07	0.54
3:W:63:ALA:O	3:W:66:SER:OG	2.25	0.54
3:Z:122:ASP:OD1	3:Z:156:ARG:NH2	2.38	0.54
1:A:138:SER:HA	1:A:158:ILE:HG13	1.90	0.54
1:A:631:VAL:HG13	1:A:673:LEU:HD22	1.89	0.54
1:B:460:ASN:O	1:B:591:LEU:HD12	2.08	0.54
1:C:441:ASP:O	1:C:520:GLY:N	2.31	0.54
1:F:747:LEU:HD12	1:F:750:MET:HG2	1.88	0.54
1:G:161:VAL:HG22	1:G:167:GLU:OE1	2.07	0.54
1:H:177:LEU:HD13	1:H:680:LEU:HD11	1.89	0.54
1:J:54:TYR:HH	2:T:511:TYR:HD1	1.55	0.54
1:K:2:ARG:HD3	2:S:570:VAL:N	2.23	0.54
1:K:326:THR:HB	1:K:390:LYS:HE3	1.90	0.54
1:K:729:LEU:HD11	3:X:627:LEU:HD11	1.89	0.54
2:L:323:LEU:O	2:L:327:ALA:N	2.40	0.54
2:L:556:LEU:HD12	2:V:100:ARG:HA	1.89	0.54
2:M:589:ALA:O	2:M:593:VAL:HG23	2.08	0.54
2:O:103:ASP:HA	2:O:107:THR:HG23	1.89	0.54
2:O:251:VAL:HA	2:O:255:ASN:O	2.08	0.54
2:R:264:ASP:OD1	2:R:306:LYS:NZ	2.37	0.54
2:S:1:MET:SD	2:S:9:THR:OG1	2.63	0.54
2:S:305:SER:N	2:S:312:GLU:OE1	2.40	0.54
2:T:518:ASN:O	2:T:521:GLY:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:191:ALA:C	2:U:192:LEU:HD23	2.28	0.54
2:V:372:PHE:HA	2:V:452:GLU:O	2.06	0.54
3:W:63:ALA:HB1	3:W:310:LEU:HG	1.90	0.54
3:Y:412:GLU:OE2	3:Y:418:ILE:HG21	2.07	0.54
1:B:458:THR:HG23	1:B:476:ASN:HA	1.89	0.54
1:C:559:LYS:NZ	2:M:417:ASN:OD1	2.31	0.54
1:D:251:THR:HG23	1:D:604:PHE:HZ	1.70	0.54
1:D:329:ALA:HB3	1:D:335:LEU:HD13	1.89	0.54
1:F:622:ASN:OD1	1:F:659:ARG:NH1	2.41	0.54
1:K:320:PHE:CZ	1:K:322:ALA:HB2	2.43	0.54
1:K:540:GLN:O	1:K:546:ILE:HG22	2.08	0.54
2:L:431:ASP:O	2:L:435:GLY:N	2.40	0.54
2:M:256:PHE:CE1	2:M:259:LEU:HB2	2.43	0.54
2:N:274:TYR:HB2	2:N:284:LEU:HG	1.90	0.54
2:O:51:THR:HG21	2:O:55:GLN:CB	2.37	0.54
2:O:77:LEU:HB2	2:O:564:TYR:OH	2.08	0.54
2:O:105:GLN:O	2:O:106:ASN:C	2.46	0.54
2:P:273:TYR:CE2	2:P:283:ASP:HB2	2.43	0.54
2:S:261:LEU:HD13	2:S:272:ILE:CD1	2.37	0.54
2:T:350:TYR:CZ	2:T:436:ASP:HB2	2.42	0.54
3:Y:158:LEU:HG	3:Y:162:ILE:HD11	1.89	0.54
1:B:241:ASP:OD1	1:B:244:LYS:NZ	2.38	0.54
1:C:1:MET:HG2	1:C:2:ARG:HE	1.73	0.54
1:C:345:GLU:OE2	1:C:381:ASN:N	2.35	0.54
1:C:432:ILE:HA	1:C:448:VAL:HG22	1.89	0.54
1:C:744:LEU:O	1:C:748:ASN:N	2.36	0.54
1:D:341:ALA:HB1	1:D:381:ASN:CB	2.38	0.54
1:E:301:ASN:ND2	1:E:307:GLN:OE1	2.41	0.54
1:H:219:GLN:O	1:H:223:GLY:N	2.40	0.54
1:K:2:ARG:C	2:S:566:SER:N	2.61	0.54
1:K:146:ASP:OD2	1:K:152:TYR:OH	2.26	0.54
1:K:356:VAL:CG2	1:K:376:VAL:HG21	2.38	0.54
2:M:545:ASN:OD1	2:Q:174:LYS:HE2	2.08	0.54
2:R:8:TYR:O	2:R:12:THR:HG23	2.08	0.54
2:T:400:ILE:O	2:T:404:ILE:N	2.41	0.54
2:V:116:TYR:HE1	2:V:140:SER:HG	1.54	0.54
2:V:244:SER:O	2:V:245:ILE:HG23	2.07	0.54
2:V:283:ASP:C	2:V:284:LEU:HD22	2.28	0.54
3:X:459:ILE:HD12	3:X:468:LEU:HG	1.89	0.54
1:A:49:ASN:HB2	1:A:712:VAL:HG11	1.90	0.54
1:B:463:VAL:N	1:B:471:TYR:O	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:289:ASN:OD1	1:E:295:VAL:N	2.41	0.54
1:F:139:GLN:OE1	2:V:500:ASN:N	2.41	0.54
1:I:534:ILE:O	1:I:534:ILE:HG23	2.08	0.54
1:J:399:MET:O	1:J:407:ALA:N	2.34	0.54
1:J:716:ASP:OD1	3:Y:626:GLN:NE2	2.32	0.54
2:N:196:HIS:CE1	2:N:200:LEU:HD21	2.43	0.54
2:R:44:THR:OG1	2:R:61:ALA:HB3	2.08	0.54
2:R:326:PHE:HB2	2:R:516:PHE:CD2	2.42	0.54
2:S:84:LEU:HD12	2:S:557:TYR:CB	2.38	0.54
2:S:570:VAL:HG22	2:S:571:ASN:N	2.23	0.54
2:T:331:ILE:HA	2:T:468:PHE:CE1	2.43	0.54
3:X:67:LEU:HD11	3:X:310:LEU:CD1	2.37	0.54
3:Y:196:ASP:OD1	3:Y:197:SER:N	2.41	0.54
3:Y:458:THR:O	3:Y:533:LYS:N	2.40	0.54
1:B:3:ILE:HG23	1:B:4:THR:N	2.23	0.54
1:B:178:PHE:O	1:B:632:ASP:HB3	2.07	0.54
1:D:47:ILE:O	1:D:50:THR:OG1	2.21	0.54
1:F:227:VAL:HG21	1:F:232:LEU:CD1	2.38	0.54
1:G:43:ALA:O	1:G:47:ILE:HD12	2.07	0.54
1:H:484:TYR:CZ	1:H:494:ILE:HD12	2.43	0.54
1:H:501:THR:HG22	1:H:502:ASN:N	2.23	0.54
1:J:401:ASP:N	1:J:405:ASN:O	2.28	0.54
1:K:3:ILE:HA	2:S:564:TYR:C	2.27	0.54
1:K:185:TYR:CZ	1:K:672:HIS:HB2	2.43	0.54
2:L:305:SER:O	2:L:310:LYS:N	2.39	0.54
2:M:458:PHE:O	2:M:461:ALA:N	2.40	0.54
2:O:171:GLU:OE2	2:O:175:ILE:HD11	2.08	0.54
2:O:275:GLU:CD	2:O:281:VAL:HG22	2.27	0.54
2:Q:168:THR:O	2:Q:172:ILE:HD12	2.08	0.54
2:T:480:ASP:O	2:T:484:ASN:N	2.37	0.54
2:U:82:ASN:OD1	2:U:291:GLY:N	2.41	0.54
2:U:165:ILE:HD13	2:U:300:ARG:HD2	1.89	0.54
2:U:387:LYS:HE3	2:U:408:THR:HB	1.89	0.54
2:V:259:LEU:HD13	2:V:288:ILE:HD11	1.90	0.54
3:W:103:ILE:HD11	3:W:263:LEU:HD13	1.90	0.54
3:W:535:ASP:O	3:W:538:ILE:HG22	2.08	0.54
3:Y:160:ASP:OD1	3:Y:161:LYS:N	2.40	0.54
1:A:506:GLY:N	2:R:414:LYS:HD3	2.23	0.53
1:B:746:LEU:O	1:B:749:TYR:CD2	2.61	0.53
1:D:49:ASN:O	1:D:53:GLU:OE1	2.26	0.53
1:F:199:ARG:HD2	1:F:234:ALA:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:90:PHE:CE2	1:G:114:LEU:HD22	2.43	0.53
1:G:445:LEU:HD23	1:G:517:ILE:HG22	1.89	0.53
1:H:509:GLY:HA2	1:H:551:TYR:CE1	2.43	0.53
1:I:4:THR:O	2:P:562:SER:O	2.26	0.53
1:J:186:LYS:N	1:J:627:ASP:OD2	2.42	0.53
1:K:538:THR:HG23	1:K:540:GLN:NE2	2.23	0.53
2:L:336:ASN:N	2:L:460:GLY:HA3	2.23	0.53
2:M:30:ASN:O	2:M:32:ASN:N	2.41	0.53
2:O:327:ALA:O	2:O:330:MET:SD	2.66	0.53
2:Q:443:ALA:HB1	2:Q:447:PHE:HB2	1.90	0.53
2:Q:564:TYR:HA	2:Q:567:LYS:HG2	1.90	0.53
3:X:96:VAL:HG13	3:X:282:MET:HE3	1.90	0.53
3:Y:68:ALA:O	3:Y:417:ASN:ND2	2.41	0.53
3:Y:126:VAL:HG21	3:Y:158:LEU:HD22	1.89	0.53
1:D:484:TYR:O	1:D:494:ILE:N	2.38	0.53
1:G:112:LYS:HA	1:G:115:GLU:OE1	2.08	0.53
1:I:116:ARG:NE	1:I:119:GLU:OE2	2.42	0.53
1:I:326:THR:N	1:I:390:LYS:O	2.40	0.53
1:J:364:PRO:HA	1:J:368:ASP:HA	1.89	0.53
2:M:273:TYR:HA	2:M:284:LEU:H	1.74	0.53
2:O:401:MET:O	2:O:405:ASN:ND2	2.39	0.53
2:P:274:TYR:HB3	2:P:282:ARG:HB2	1.90	0.53
2:R:74:TYR:HA	2:R:564:TYR:OH	2.08	0.53
2:R:241:TYR:CG	2:R:242:ASN:N	2.76	0.53
2:R:524:ASP:O	2:R:531:TYR:OH	2.18	0.53
3:X:117:LYS:NZ	3:X:224:ASP:O	2.42	0.53
1:B:45:THR:HG23	1:B:712:VAL:HG12	1.90	0.53
1:E:402:THR:OG1	1:E:414:ASN:OD1	2.08	0.53
1:F:369:ILE:H	1:F:369:ILE:HD12	1.72	0.53
1:G:127:THR:CG2	1:G:129:VAL:HG23	2.38	0.53
1:G:503:PRO:HA	2:O:415:ASN:O	2.09	0.53
1:I:591:LEU:HD23	1:I:618:PHE:CE2	2.43	0.53
1:J:47:ILE:HD11	2:T:537:GLY:CA	2.38	0.53
1:K:546:ILE:CD1	1:K:554:ILE:HD12	2.38	0.53
2:L:166:LYS:HE3	2:L:270:TYR:CD1	2.43	0.53
2:L:215:VAL:HG22	2:L:216:SER:H	1.74	0.53
2:N:322:SER:C	2:N:531:TYR:HH	2.11	0.53
2:O:264:ASP:N	2:O:269:SER:O	2.36	0.53
2:R:244:SER:HA	2:R:249:SER:HA	1.90	0.53
2:T:3:ILE:H	2:T:3:ILE:HD12	1.73	0.53
3:X:521:ASN:OD1	3:X:522:PHE:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:652:ASP:OD1	1:C:653:SER:N	2.42	0.53
1:D:593:ASP:OD1	1:D:594:SER:N	2.40	0.53
1:G:391:GLN:NE2	1:G:393:ASP:OD1	2.35	0.53
1:H:549:ALA:O	1:H:552:THR:N	2.41	0.53
1:I:2:ARG:HE	2:P:570:VAL:H	1.56	0.53
1:I:212:LEU:HB3	1:I:216:SER:OG	2.07	0.53
1:I:401:ASP:OD1	1:I:405:ASN:N	2.40	0.53
2:L:305:SER:OG	2:L:307:SER:OG	2.27	0.53
2:N:586:TYR:O	2:N:590:ALA:N	2.40	0.53
2:T:350:TYR:CE2	2:T:436:ASP:HB2	2.43	0.53
2:T:569:GLY:O	2:T:570:VAL:HG12	2.09	0.53
2:U:342:ALA:HB3	2:U:495:GLY:HA3	1.91	0.53
2:V:172:ILE:O	2:V:176:GLY:N	2.39	0.53
3:W:269:PHE:O	3:W:270:ARG:NH1	2.42	0.53
3:W:530:PHE:CE2	3:W:549:ILE:HB	2.43	0.53
3:Z:139:PHE:N	3:Z:200:SER:O	2.35	0.53
1:A:631:VAL:HG22	1:A:673:LEU:CD2	2.37	0.53
1:C:219:GLN:N	1:C:272:PRO:O	2.41	0.53
1:C:725:MET:O	1:C:729:LEU:HD13	2.09	0.53
1:D:593:ASP:HB3	1:D:596:SER:HB2	1.90	0.53
1:D:639:SER:O	1:D:660:ASN:ND2	2.41	0.53
1:F:411:ASP:OD1	1:F:414:ASN:ND2	2.41	0.53
1:F:444:LYS:N	1:F:447:GLU:OE1	2.41	0.53
1:G:57:LYS:O	1:G:61:GLN:OE1	2.27	0.53
1:H:448:VAL:O	1:H:448:VAL:HG12	2.07	0.53
1:J:176:ASP:O	1:J:676:HIS:NE2	2.42	0.53
1:J:431:VAL:HG11	1:J:436:ASN:HA	1.90	0.53
1:K:599:PHE:HB3	1:K:600:PRO:HD2	1.90	0.53
2:L:409:ASP:O	2:L:412:ASP:N	2.41	0.53
2:N:331:ILE:HA	2:N:468:PHE:CE2	2.44	0.53
2:O:377:TYR:HB2	2:O:448:LYS:HB3	1.91	0.53
2:P:47:GLY:O	2:P:58:THR:N	2.42	0.53
2:S:148:ASN:ND2	2:S:473:ALA:O	2.39	0.53
2:S:569:GLY:O	2:S:570:VAL:HB	2.09	0.53
2:T:378:ASP:O	2:T:381:GLY:N	2.31	0.53
2:U:532:TYR:CE1	2:U:536:THR:HG21	2.43	0.53
2:V:215:VAL:HG22	2:V:216:SER:N	2.22	0.53
3:Z:414:PHE:CE2	3:Z:559:ILE:HD11	2.43	0.53
3:Z:457:PHE:HE1	3:Z:532:ILE:HG23	1.74	0.53
1:A:501:THR:O	1:A:502:ASN:OD1	2.26	0.53
1:A:531:ALA:O	1:A:533:LYS:NZ	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:70:GLN:O	1:B:73:THR:OG1	2.25	0.53
1:B:416:TYR:HB3	1:B:588:GLU:OE2	2.08	0.53
1:C:445:LEU:HD12	1:C:514:SER:O	2.07	0.53
1:D:4:THR:HA	2:Q:566:SER:HA	1.90	0.53
1:H:411:ASP:OD1	1:H:414:ASN:ND2	2.40	0.53
1:I:189:ILE:HG13	1:I:308:ILE:HB	1.90	0.53
1:K:480:SER:CB	1:K:512:THR:HG21	2.38	0.53
1:K:731:TYR:O	1:K:734:SER:OG	2.21	0.53
2:L:591:LYS:O	2:L:594:SER:OG	2.22	0.53
2:O:44:THR:O	2:O:61:ALA:N	2.42	0.53
2:O:194:THR:HA	2:O:225:ASN:O	2.08	0.53
2:P:54:VAL:HG12	2:T:197:ALA:CB	2.36	0.53
2:Q:265:ASP:OD1	2:Q:266:LYS:N	2.42	0.53
2:T:603:LEU:HA	2:T:606:LEU:HD12	1.91	0.53
2:U:180:ALA:HB1	2:U:254:ILE:C	2.28	0.53
3:W:73:PHE:HA	3:W:298:GLN:NE2	2.24	0.53
3:X:125:PHE:HA	3:X:154:THR:HA	1.90	0.53
3:Y:138:PHE:O	3:Y:145:TYR:N	2.40	0.53
1:B:482:VAL:HG11	1:B:496:PHE:CE2	2.44	0.53
1:C:43:ALA:O	1:C:47:ILE:N	2.39	0.53
1:G:151:TYR:OH	1:G:154:ASP:O	2.21	0.53
1:J:241:ASP:HA	1:J:244:LYS:HB3	1.91	0.53
1:J:631:VAL:HG11	1:J:673:LEU:HD21	1.91	0.53
1:K:43:ALA:O	1:K:47:ILE:N	2.34	0.53
2:M:20:GLN:HB3	2:M:586:TYR:CZ	2.44	0.53
2:M:218:VAL:HG12	2:M:244:SER:HB3	1.91	0.53
2:N:103:ASP:HA	2:N:110:LEU:HD11	1.91	0.53
2:N:164:ASP:O	2:N:168:THR:HG23	2.09	0.53
2:N:329:THR:HG21	2:N:516:PHE:CD2	2.43	0.53
2:O:73:SER:O	2:O:564:TYR:OH	2.25	0.53
2:P:525:ASN:C	2:P:526:LEU:HD12	2.29	0.53
3:X:268:MET:CE	3:Y:175:VAL:HG11	2.39	0.53
3:X:430:VAL:HG12	3:X:430:VAL:O	2.09	0.53
3:Y:201:PHE:HB3	3:Y:229:LEU:CD2	2.39	0.53
1:A:189:ILE:HA	1:A:624:LEU:O	2.08	0.53
1:B:3:ILE:HG23	1:B:4:THR:H	1.73	0.53
1:C:420:ASN:N	1:C:423:THR:O	2.31	0.53
1:C:463:VAL:HG22	1:C:589:ILE:HG23	1.91	0.53
1:E:72:MET:O	1:E:76:SER:N	2.36	0.53
1:E:675:ASP:O	1:E:678:SER:OG	2.25	0.53
1:H:196:THR:HA	1:H:211:TYR:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:38:ASN:OD1	1:I:39:SER:N	2.37	0.53
1:I:626:ILE:HG13	1:I:626:ILE:O	2.08	0.53
1:J:187:LYS:HG3	1:J:625:THR:HG21	1.90	0.53
1:K:2:ARG:HB3	2:S:567:LYS:C	2.29	0.53
1:K:6:LYS:NZ	2:S:31:ALA:O	2.27	0.53
2:M:378:ASP:OD2	2:M:380:LYS:NZ	2.40	0.53
2:P:49:ILE:HD13	2:P:58:THR:HG21	1.91	0.53
2:R:116:TYR:CD1	2:R:136:LEU:HD11	2.44	0.53
2:R:407:ASN:ND2	2:R:421:ASP:OD2	2.42	0.53
2:V:189:GLN:HA	2:V:234:ILE:HA	1.91	0.53
3:Y:415:PHE:C	3:Y:416:SER:HG	2.06	0.53
3:Y:471:ASN:OD1	3:Y:475:THR:OG1	2.24	0.53
3:Z:485:GLU:OE2	3:Z:507:VAL:HG12	2.09	0.53
1:A:301:ASN:ND2	1:A:302:ASP:OD1	2.42	0.53
1:B:38:ASN:N	1:B:46:TYR:OH	2.42	0.53
1:D:5:ASN:O	2:Q:570:VAL:HG22	2.09	0.53
1:E:508:SER:N	1:E:548:ASN:OD1	2.42	0.53
1:H:484:TYR:OH	1:H:536:THR:O	2.26	0.53
1:I:257:THR:HG22	1:I:319:ASP:HB3	1.91	0.53
1:I:301:ASN:OD1	1:I:305:GLN:N	2.41	0.53
1:I:466:LYS:CB	1:I:587:ILE:HD11	2.39	0.53
1:K:2:ARG:HD2	2:S:569:GLY:C	2.28	0.53
1:K:461:LEU:N	1:K:473:VAL:O	2.40	0.53
2:L:74:TYR:HA	2:L:564:TYR:CZ	2.44	0.53
2:L:492:SER:OG	2:L:494:ASN:OD1	2.17	0.53
2:M:258:PRO:O	2:M:274:TYR:HA	2.09	0.53
2:R:366:THR:HA	2:R:517:TYR:CE2	2.44	0.53
2:U:77:LEU:HG	2:U:209:LEU:HD11	1.91	0.53
2:U:196:HIS:O	2:U:199:GLU:N	2.42	0.53
3:W:275:VAL:HG21	3:W:286:LEU:HD21	1.90	0.53
3:X:438:LYS:NZ	3:X:541:GLU:OE2	2.42	0.53
1:A:143:LYS:O	1:A:152:TYR:HB2	2.09	0.53
1:A:289:ASN:ND2	1:A:296:VAL:O	2.42	0.53
1:D:279:VAL:O	1:D:283:ILE:N	2.36	0.53
1:D:447:GLU:OE1	1:D:447:GLU:N	2.39	0.53
1:E:250:THR:N	1:E:270:VAL:O	2.37	0.53
1:G:127:THR:HG22	1:G:129:VAL:HG23	1.89	0.53
1:I:684:MET:O	1:I:684:MET:HE3	2.09	0.53
1:J:181:ALA:HB1	1:J:629:PRO:HB2	1.90	0.53
1:K:444:LYS:NZ	1:K:516:ASP:O	2.35	0.53
2:M:111:GLN:NE2	2:M:115:ASN:OD1	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:607:LYS:O	2:N:608:SER:C	2.46	0.53
2:O:56:VAL:HG11	2:U:65:ILE:HD13	1.91	0.53
2:S:2:GLY:O	2:S:6:THR:OG1	2.21	0.53
2:S:105:GLN:O	2:S:106:ASN:CB	2.57	0.53
2:T:246:GLU:OE1	2:T:289:SER:N	2.42	0.53
2:U:334:THR:HB	2:U:468:PHE:HE2	1.74	0.53
3:X:278:LEU:H	3:X:278:LEU:HD12	1.72	0.53
3:X:505:VAL:HG13	3:X:522:PHE:CE2	2.44	0.53
1:D:325:PHE:HB3	1:D:372:LEU:HD12	1.90	0.52
1:E:87:LEU:HA	1:E:90:PHE:HD2	1.74	0.52
1:E:143:LYS:CD	1:E:145:PHE:O	2.57	0.52
1:F:461:LEU:HD21	1:F:529:PHE:CZ	2.43	0.52
1:G:325:PHE:HD2	1:G:389:LEU:HB3	1.74	0.52
1:H:263:SER:OG	1:H:614:PRO:O	2.20	0.52
1:I:2:ARG:HB3	2:P:569:GLY:C	2.29	0.52
1:I:6:LYS:HE3	2:P:565:GLN:OE1	2.10	0.52
1:J:218:TRP:HB3	1:J:272:PRO:HA	1.92	0.52
1:K:4:THR:H	2:S:566:SER:CB	2.21	0.52
2:L:109:ILE:H	2:L:109:ILE:HD12	1.73	0.52
2:M:297:LEU:O	2:M:301:GLY:N	2.41	0.52
2:N:197:ALA:HA	2:N:200:LEU:HD12	1.91	0.52
2:O:600:LEU:HA	2:O:603:LEU:HD12	1.91	0.52
2:Q:377:TYR:N	2:Q:448:LYS:O	2.34	0.52
2:S:162:ASN:OD1	2:S:300:ARG:NH1	2.42	0.52
2:T:352:SER:HA	2:T:436:ASP:OD1	2.09	0.52
2:T:597:ASP:OD1	2:T:598:GLN:N	2.41	0.52
2:U:377:TYR:CD2	2:U:494:ASN:HA	2.43	0.52
3:X:452:PHE:CE2	3:X:469:SER:HA	2.44	0.52
1:A:419:LYS:CD	1:A:424:VAL:HG12	2.39	0.52
1:F:363:ALA:O	1:F:366:ASN:N	2.35	0.52
1:F:463:VAL:HG13	1:F:589:ILE:CD1	2.39	0.52
1:H:593:ASP:OD1	1:H:594:SER:N	2.41	0.52
1:K:383:GLN:HG3	1:K:385:PHE:CZ	2.43	0.52
2:N:248:PHE:CE1	2:N:274:TYR:CD2	2.97	0.52
2:N:469:SER:O	2:N:477:LYS:N	2.42	0.52
2:Q:570:VAL:HG23	2:Q:570:VAL:O	2.09	0.52
2:R:138:LYS:O	2:R:142:THR:HG23	2.09	0.52
2:S:256:PHE:O	2:S:257:HIS:CG	2.62	0.52
2:V:192:LEU:HD13	2:V:201:ARG:NH2	2.25	0.52
3:Y:340:ILE:HG21	3:Y:580:TYR:OH	2.09	0.52
3:Y:608:THR:OG1	3:Y:609:MET:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:177:THR:N	3:Z:183:PRO:O	2.41	0.52
1:B:9:PHE:O	1:B:13:VAL:HG23	2.09	0.52
1:B:449:MET:HG2	1:B:616:PHE:CE2	2.44	0.52
1:D:23:LEU:HD21	1:D:727:VAL:HG23	1.92	0.52
1:E:464:ASN:O	1:E:587:ILE:HG13	2.10	0.52
1:E:471:TYR:HB2	1:E:529:PHE:HZ	1.73	0.52
1:F:725:MET:SD	1:F:726:GLN:N	2.82	0.52
1:H:53:GLU:OE1	2:U:105:GLN:HB2	2.09	0.52
1:H:209:THR:O	1:H:209:THR:HG22	2.07	0.52
2:L:263:TYR:HB3	2:L:270:TYR:HD1	1.73	0.52
2:M:355:LYS:HG3	2:M:358:ILE:HD11	1.92	0.52
2:O:384:LYS:O	2:O:385:LEU:HG	2.09	0.52
2:O:545:ASN:OD1	2:U:138:LYS:NZ	2.27	0.52
2:Q:607:LYS:O	2:Q:608:SER:C	2.46	0.52
2:R:431:ASP:OD1	2:R:432:ALA:N	2.42	0.52
2:T:353:GLY:O	2:T:358:ILE:HD11	2.08	0.52
2:U:265:ASP:O	2:U:268:LYS:HG2	2.09	0.52
2:V:165:ILE:HG13	2:V:296:GLN:HB3	1.90	0.52
2:V:327:ALA:O	2:V:330:MET:HG2	2.09	0.52
1:C:93:LYS:CB	1:C:114:LEU:HD21	2.39	0.52
1:D:144:PRO:O	1:D:152:TYR:N	2.41	0.52
1:E:106:SER:O	1:E:110:ILE:HD12	2.10	0.52
1:E:486:ASP:HB3	1:E:492:GLN:HB2	1.92	0.52
1:E:518:THR:HG23	2:L:414:LYS:HD3	1.91	0.52
1:F:319:ASP:OD2	1:F:412:TYR:OH	2.28	0.52
1:G:193:VAL:HG22	1:G:396:LYS:HD3	1.91	0.52
1:H:228:LYS:NZ	1:H:388:ASP:OD2	2.37	0.52
1:I:84:VAL:HG21	1:I:681:ASN:HD22	1.75	0.52
1:K:482:VAL:HG23	1:K:498:ILE:HG13	1.91	0.52
2:M:508:GLN:NE2	2:M:508:GLN:O	2.42	0.52
2:O:344:SER:OG	2:O:379:ASP:OD1	2.23	0.52
2:O:553:ASN:O	2:O:556:LEU:N	2.41	0.52
2:Q:122:ASP:O	2:Q:126:ASN:N	2.41	0.52
2:R:420:VAL:O	2:R:423:HIS:N	2.35	0.52
2:S:110:LEU:HD11	2:S:532:TYR:CE1	2.44	0.52
2:S:361:VAL:HG22	2:S:393:VAL:HG13	1.90	0.52
2:T:38:ARG:HB2	2:T:569:GLY:HA3	1.91	0.52
2:U:201:ARG:O	2:U:205:ASP:N	2.40	0.52
2:U:322:SER:HB2	2:U:531:TYR:OH	2.10	0.52
3:X:112:ASP:OD2	3:X:256:ALA:HB2	2.10	0.52
3:X:479:LEU:HD11	3:X:491:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:364:THR:HG22	3:Y:365:GLU:N	2.24	0.52
3:Y:431:ILE:N	3:Y:518:PHE:O	2.33	0.52
3:Y:491:LEU:HD23	3:Y:520:LEU:HD13	1.91	0.52
1:E:458:THR:HG23	1:E:475:ILE:O	2.08	0.52
1:F:113:GLU:HA	1:F:116:ARG:HD2	1.90	0.52
1:G:445:LEU:HD13	1:G:519:TYR:CE2	2.45	0.52
1:I:650:ARG:HA	1:I:661:THR:HA	1.92	0.52
2:L:573:ASN:HA	2:L:576:LEU:HB3	1.90	0.52
2:M:151:PHE:HD1	2:M:323:LEU:HD23	1.73	0.52
2:R:169:VAL:HG11	2:R:261:LEU:HD12	1.91	0.52
2:R:347:THR:HG23	2:R:440:GLN:HA	1.90	0.52
2:V:535:LEU:CD1	2:V:536:THR:HG23	2.38	0.52
3:W:557:LYS:HD2	3:W:557:LYS:O	2.09	0.52
3:X:60:PHE:CE1	3:X:314:TYR:HB2	2.45	0.52
3:X:311:VAL:HG13	3:X:393:LEU:HB2	1.91	0.52
1:C:218:TRP:N	1:C:274:ASP:O	2.39	0.52
1:E:180:LYS:HZ1	1:E:680:LEU:HD21	1.75	0.52
1:F:200:TRP:CZ3	1:F:208:LYS:HG3	2.44	0.52
1:G:180:LYS:HE2	1:G:180:LYS:HA	1.90	0.52
1:I:5:ASN:H	2:P:566:SER:N	2.07	0.52
1:J:500:HIS:CE1	1:J:512:THR:OG1	2.62	0.52
1:K:99:SER:OG	1:K:102:ASN:ND2	2.42	0.52
2:M:397:MET:SD	2:M:398:ASN:N	2.82	0.52
2:N:305:SER:HA	2:N:312:GLU:HG3	1.90	0.52
2:O:41:VAL:HG22	2:O:65:ILE:HG13	1.91	0.52
2:O:315:ILE:H	2:O:315:ILE:HD12	1.75	0.52
2:P:37:THR:HG21	2:P:67:ARG:HH11	1.75	0.52
2:Q:165:ILE:O	2:Q:169:VAL:N	2.39	0.52
2:Q:281:VAL:O	2:Q:282:ARG:CZ	2.58	0.52
2:R:558:ASN:HA	2:R:561:TYR:HB3	1.90	0.52
2:T:165:ILE:H	2:T:165:ILE:HD12	1.74	0.52
2:U:533:ARG:O	2:U:537:GLY:N	2.39	0.52
2:V:106:ASN:O	2:V:107:THR:C	2.48	0.52
2:V:501:ASP:OD1	2:V:502:MET:N	2.42	0.52
3:X:430:VAL:HG12	3:X:510:TYR:OH	2.09	0.52
3:X:628:ASN:O	3:X:632:ASN:N	2.35	0.52
3:Y:197:SER:HB2	3:Y:256:ALA:HB1	1.91	0.52
3:Z:138:PHE:CE1	3:Z:145:TYR:HB2	2.45	0.52
3:Z:263:LEU:O	3:Z:264:ASP:OD1	2.27	0.52
1:A:219:GLN:OE1	1:A:272:PRO:O	2.28	0.52
1:B:632:ASP:OD2	1:B:633:ILE:HD11	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:63:LYS:O	1:C:66:THR:OG1	2.19	0.52
1:C:418:GLU:O	1:C:424:VAL:HG13	2.10	0.52
1:F:24:TYR:O	1:F:27:SER:OG	2.20	0.52
1:F:649:MET:O	1:F:663:MET:HB2	2.10	0.52
1:G:381:ASN:ND2	1:G:383:GLN:OE1	2.37	0.52
1:G:566:ASP:O	1:G:577:VAL:HG13	2.10	0.52
1:I:474:THR:HB	1:I:483:SER:O	2.09	0.52
1:J:190:SER:N	1:J:624:LEU:O	2.41	0.52
2:L:68:LEU:HG	2:L:69:HIS:H	1.74	0.52
2:L:184:LYS:O	2:L:200:LEU:HD11	2.10	0.52
2:M:154:LEU:O	2:M:158:GLN:OE1	2.27	0.52
2:P:606:LEU:HD21	2:T:586:TYR:HE2	1.74	0.52
2:S:275:GLU:OE2	2:S:281:VAL:HG13	2.09	0.52
2:S:515:ASN:HA	2:S:524:ASP:O	2.10	0.52
2:U:263:TYR:CD1	2:U:263:TYR:N	2.77	0.52
2:U:406:ALA:O	2:U:407:ASN:HB2	2.08	0.52
3:W:261:PHE:CE1	3:W:275:VAL:HG22	2.44	0.52
3:X:578:THR:O	3:X:582:GLU:OE1	2.27	0.52
1:A:181:ALA:HB1	1:A:629:PRO:CB	2.40	0.52
1:B:159:ASN:OD1	1:B:169:PRO:HD3	2.10	0.52
1:D:633:ILE:HG22	1:D:634:ILE:N	2.24	0.52
1:F:114:LEU:O	1:F:118:LYS:N	2.36	0.52
1:F:146:ASP:OD1	1:F:149:GLY:N	2.42	0.52
1:G:219:GLN:NE2	1:G:238:PHE:HB3	2.25	0.52
1:G:505:THR:CG2	2:O:415:ASN:HA	2.40	0.52
1:H:163:GLY:O	2:U:508:GLN:NE2	2.38	0.52
1:J:86:LEU:HB3	1:J:117:ILE:HG23	1.92	0.52
1:J:502:ASN:OD1	1:J:506:GLY:N	2.42	0.52
2:L:519:GLU:OE1	2:L:519:GLU:N	2.39	0.52
2:N:101:PHE:CE2	2:N:154:LEU:HD21	2.44	0.52
2:R:250:ILE:HG13	2:R:250:ILE:O	2.10	0.52
2:T:417:ASN:O	2:T:418:ASP:CG	2.48	0.52
3:X:417:ASN:O	3:X:418:ILE:HG23	2.10	0.52
1:F:104:GLN:O	1:F:108:GLU:OE1	2.27	0.52
1:G:433:LYS:NZ	1:G:449:MET:O	2.40	0.52
1:I:4:THR:N	2:P:566:SER:N	2.57	0.52
1:I:342:ALA:O	1:I:346:GLY:N	2.42	0.52
1:I:369:ILE:HG13	1:I:370:THR:N	2.25	0.52
1:I:599:PHE:HB3	1:I:600:PRO:HD2	1.91	0.52
1:J:500:HIS:HB2	2:T:415:ASN:H	1.72	0.52
1:J:500:HIS:HB3	2:T:413:ASN:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:352:SER:HA	2:L:436:ASP:OD1	2.09	0.52
2:N:107:THR:OG1	2:N:111:GLN:HG2	2.09	0.52
2:P:7:LEU:O	2:P:11:VAL:HG23	2.10	0.52
2:Q:379:ASP:N	2:Q:446:GLY:O	2.43	0.52
2:U:24:THR:OG1	2:U:579:LEU:HD12	2.09	0.52
2:U:263:TYR:HA	2:U:270:TYR:HA	1.92	0.52
2:V:326:PHE:HE1	2:V:528:MET:HA	1.75	0.52
3:W:158:LEU:HD11	3:W:222:PHE:CD1	2.45	0.52
3:W:356:ASP:OD2	3:W:557:LYS:HD3	2.09	0.52
3:X:103:ILE:N	3:X:292:ILE:O	2.37	0.52
3:Y:21:ILE:HG22	3:Y:25:LYS:CE	2.40	0.52
3:Y:532:ILE:HG21	3:Y:539:LEU:HD21	1.91	0.52
3:Z:195:GLU:N	3:Z:258:ASN:OD1	2.37	0.52
1:B:6:LYS:HA	1:B:9:PHE:CE2	2.45	0.52
1:G:115:GLU:O	1:G:119:GLU:N	2.32	0.52
1:H:367:GLY:HA2	1:H:372:LEU:HA	1.91	0.52
1:J:541:ALA:O	1:J:544:GLY:N	2.39	0.52
2:L:443:ALA:CB	2:L:447:PHE:HB2	2.40	0.52
2:M:385:LEU:HD21	2:M:411:ASN:HB3	1.91	0.52
2:N:531:TYR:HA	2:N:534:LYS:HB3	1.91	0.52
2:O:84:LEU:HD22	2:O:557:TYR:CE1	2.45	0.52
2:R:517:TYR:HE1	2:R:523:ILE:HG23	1.73	0.52
2:R:532:TYR:CE1	2:R:536:THR:HG21	2.45	0.52
2:S:41:VAL:HG22	2:S:65:ILE:HD12	1.91	0.52
2:T:43:GLN:NE2	2:T:60:THR:OG1	2.38	0.52
2:V:246:GLU:CG	2:V:287:LYS:HB3	2.39	0.52
3:Z:227:TRP:CD1	3:Z:251:LEU:HD13	2.44	0.52
1:B:476:ASN:O	1:B:481:THR:N	2.35	0.51
1:B:632:ASP:CG	1:B:633:ILE:CD1	2.79	0.51
1:C:87:LEU:HD13	1:C:674:ALA:HA	1.92	0.51
1:D:68:ARG:NH2	2:Q:125:SER:OG	2.42	0.51
1:D:375:PRO:HB3	1:D:388:ASP:OD1	2.10	0.51
1:E:471:TYR:CZ	1:E:487:PRO:HG3	2.45	0.51
1:F:377:THR:HA	1:F:386:THR:HA	1.92	0.51
1:F:649:MET:O	1:F:663:MET:CB	2.58	0.51
1:G:87:LEU:HD22	1:G:677:VAL:HG21	1.92	0.51
1:I:2:ARG:N	2:P:566:SER:C	2.63	0.51
1:I:380:ILE:N	1:I:383:GLN:O	2.39	0.51
1:J:235:ASP:OD1	1:J:236:LYS:N	2.43	0.51
1:J:347:ILE:HD12	1:J:352:VAL:HG22	1.92	0.51
2:L:112:ASP:HB3	2:L:143:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:182:ILE:CG2	2:N:200:LEU:HD22	2.34	0.51
2:O:114:GLU:OE2	2:O:118:LYS:NZ	2.43	0.51
2:Q:39:GLN:HB3	2:Q:65:ILE:HG23	1.92	0.51
2:R:6:THR:O	2:R:9:THR:N	2.43	0.51
2:S:223:GLU:N	2:S:223:GLU:OE1	2.43	0.51
3:W:467:ASP:OD1	3:W:498:LYS:NZ	2.28	0.51
3:X:8:SER:N	3:X:625:GLN:OE1	2.43	0.51
3:Z:314:TYR:O	3:Z:318:VAL:HG23	2.10	0.51
1:A:740:THR:HG22	1:A:744:LEU:CD1	2.40	0.51
1:B:197:ASP:N	1:B:210:LYS:O	2.37	0.51
1:B:500:HIS:O	1:B:510:VAL:N	2.44	0.51
1:B:650:ARG:O	1:B:661:THR:HA	2.11	0.51
1:C:330:ASP:OD2	1:C:386:THR:HB	2.10	0.51
1:F:328:GLN:N	1:F:388:ASP:O	2.43	0.51
1:F:697:ARG:NE	2:O:105:GLN:OE1	2.41	0.51
1:G:49:ASN:OD1	1:G:52:LEU:HD12	2.10	0.51
1:G:186:LYS:HD3	1:G:310:ASP:O	2.11	0.51
1:H:254:VAL:HG13	1:H:320:PHE:CE1	2.46	0.51
1:I:7:LEU:O	1:I:10:THR:HB	2.10	0.51
1:J:56:ILE:HG22	1:J:60:GLU:OE2	2.10	0.51
1:K:4:THR:OG1	2:S:566:SER:CB	2.57	0.51
1:K:117:ILE:O	1:K:120:SER:OG	2.26	0.51
1:K:341:ALA:HB2	1:K:383:GLN:HE21	1.75	0.51
1:K:554:ILE:HG22	1:K:558:MET:HE2	1.92	0.51
2:M:74:TYR:OH	2:M:205:ASP:O	2.26	0.51
2:O:554:GLU:HA	2:O:557:TYR:CD1	2.44	0.51
2:P:241:TYR:CD1	2:P:242:ASN:N	2.78	0.51
2:T:172:ILE:HG12	2:T:214:LEU:HD11	1.92	0.51
2:U:100:ARG:HG3	2:U:154:LEU:HD21	1.92	0.51
3:X:76:ARG:NE	3:X:96:VAL:O	2.43	0.51
3:Y:371:LYS:HG3	3:Y:372:VAL:N	2.24	0.51
1:A:419:LYS:O	1:A:425:TYR:OH	2.29	0.51
1:A:422:ASN:ND2	1:A:582:SER:O	2.43	0.51
1:A:655:SER:OG	1:A:657:ASN:O	2.27	0.51
1:C:302:ASP:OD2	1:C:664:GLN:NE2	2.43	0.51
1:D:250:THR:HG23	1:D:325:PHE:O	2.10	0.51
1:D:271:LYS:N	1:D:274:ASP:OD2	2.43	0.51
1:G:408:ASN:N	1:G:411:ASP:OD2	2.31	0.51
1:H:68:ARG:NH2	2:U:121:ASN:OD1	2.44	0.51
1:H:250:THR:HG23	1:H:325:PHE:O	2.10	0.51
1:I:184:ASP:O	1:I:313:GLN:NE2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:447:GLU:OE1	1:I:447:GLU:N	2.43	0.51
1:J:378:VAL:HG12	1:J:387:ILE:CD1	2.38	0.51
1:J:500:HIS:C	2:T:415:ASN:O	2.48	0.51
1:K:6:LYS:HB3	2:S:565:GLN:CB	2.40	0.51
1:K:428:VAL:O	1:K:430:GLN:NE2	2.40	0.51
1:K:463:VAL:O	1:K:470:SER:HA	2.10	0.51
2:L:185:GLN:CG	2:L:200:LEU:HD12	2.39	0.51
2:N:40:ARG:HG3	2:N:41:VAL:H	1.73	0.51
2:N:77:LEU:HD11	2:N:557:TYR:CE1	2.45	0.51
2:P:515:ASN:CG	2:P:523:ILE:HG22	2.31	0.51
2:S:376:ILE:HG13	2:S:385:LEU:HD11	1.93	0.51
3:X:248:ASP:OD1	3:X:249:ALA:N	2.44	0.51
3:Z:22:ASP:O	3:Z:25:LYS:HB3	2.09	0.51
1:A:64:GLU:OE2	2:R:121:ASN:ND2	2.43	0.51
1:B:84:VAL:CG1	1:B:681:ASN:ND2	2.74	0.51
1:C:402:THR:HG22	1:C:590:SER:CB	2.39	0.51
1:D:377:THR:HG22	1:D:384:GLN:OE1	2.11	0.51
1:D:661:THR:HG22	1:D:664:GLN:OE1	2.10	0.51
1:F:185:TYR:CZ	1:F:672:HIS:HA	2.44	0.51
1:G:508:SER:OG	2:O:415:ASN:ND2	2.43	0.51
1:G:682:THR:HG23	1:G:683:THR:N	2.25	0.51
1:H:172:ILE:HD13	1:H:680:LEU:HD22	1.92	0.51
1:I:29:GLN:O	1:I:33:GLY:N	2.43	0.51
1:I:667:LEU:HA	1:I:670:LEU:HD12	1.92	0.51
1:K:587:ILE:HG22	1:K:589:ILE:CD1	2.40	0.51
2:M:427:SER:O	2:M:440:GLN:N	2.37	0.51
2:N:532:TYR:CE1	2:N:536:THR:HG21	2.45	0.51
2:O:56:VAL:HG12	2:U:195:GLU:HB3	1.92	0.51
2:O:151:PHE:HD2	2:O:473:ALA:HB3	1.75	0.51
2:O:250:ILE:HG13	2:O:259:LEU:HD11	1.92	0.51
2:O:581:GLN:O	2:O:584:SER:OG	2.22	0.51
2:P:599:MET:HE2	2:P:599:MET:HA	1.92	0.51
2:R:376:ILE:HG13	2:R:385:LEU:HD12	1.91	0.51
2:S:51:THR:HB	2:S:56:VAL:HG23	1.93	0.51
2:S:360:LEU:HB3	2:S:367:ILE:HG21	1.92	0.51
2:U:385:LEU:HD21	2:U:411:ASN:HA	1.91	0.51
3:W:266:ILE:HG21	3:W:268:MET:HE3	1.92	0.51
3:Y:41:GLU:O	3:Y:44:THR:N	2.44	0.51
3:Y:207:ASP:OD1	3:Y:211:LYS:N	2.41	0.51
1:C:180:LYS:O	1:C:630:ASN:HA	2.11	0.51
1:F:656:GLU:OE1	1:F:656:GLU:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:102:ASN:O	3:Z:372:VAL:HG23	2.10	0.51
1:J:130:ASN:O	1:J:132:GLN:NE2	2.43	0.51
1:J:368:ASP:OD2	1:J:371:LYS:N	2.41	0.51
1:K:656:GLU:OE1	1:K:656:GLU:N	2.38	0.51
2:P:187:TYR:HB2	2:P:237:PRO:CG	2.40	0.51
2:R:107:THR:O	2:R:108:GLY:C	2.48	0.51
2:R:371:SER:O	2:R:454:LYS:N	2.40	0.51
2:U:305:SER:N	2:U:310:LYS:O	2.39	0.51
2:V:151:PHE:CG	2:V:473:ALA:HB3	2.46	0.51
2:V:374:ILE:N	2:V:387:LYS:O	2.41	0.51
1:A:461:LEU:HD22	1:A:591:LEU:HD12	1.92	0.51
1:A:572:LYS:HG3	1:A:572:LYS:O	2.11	0.51
1:B:10:THR:HG21	2:N:561:TYR:OH	2.11	0.51
1:D:216:SER:HA	1:D:220:GLN:OE1	2.10	0.51
1:F:501:THR:HG22	1:F:502:ASN:N	2.26	0.51
1:G:214:GLY:HA2	1:G:276:LEU:HB2	1.92	0.51
1:H:198:ASN:OD1	1:H:202:LEU:HD13	2.11	0.51
1:H:342:ALA:O	1:H:346:GLY:N	2.44	0.51
1:K:219:GLN:N	1:K:272:PRO:O	2.43	0.51
1:K:300:MET:SD	1:K:301:ASN:O	2.69	0.51
1:K:305:GLN:OE1	1:K:650:ARG:NH1	2.43	0.51
1:K:363:ALA:O	1:K:368:ASP:N	2.40	0.51
2:L:306:LYS:O	2:L:306:LYS:HD2	2.10	0.51
2:N:195:GLU:OE1	2:N:198:ASN:ND2	2.44	0.51
2:S:425:ASN:OD1	2:S:442:ASN:HB2	2.10	0.51
2:T:97:ILE:HG21	2:T:539:ILE:HG21	1.91	0.51
2:U:429:SER:O	2:U:438:LEU:N	2.37	0.51
3:W:60:PHE:O	3:W:63:ALA:HB3	2.11	0.51
3:W:138:PHE:CD1	3:W:201:PHE:HB2	2.46	0.51
3:X:76:ARG:HD2	3:X:296:VAL:CG1	2.41	0.51
1:A:80:LEU:HD22	1:A:681:ASN:OD1	2.10	0.51
1:A:100:ASP:HB3	3:W:376:VAL:HG21	1.93	0.51
1:C:554:ILE:O	1:C:558:MET:N	2.39	0.51
1:H:43:ALA:O	1:H:46:TYR:N	2.43	0.51
1:H:158:ILE:HG23	1:H:171:ASN:CG	2.31	0.51
1:H:454:LEU:HD13	1:H:515:ASN:OD1	2.11	0.51
1:H:501:THR:HA	1:H:509:GLY:H	1.75	0.51
2:N:182:ILE:CD1	2:N:207:LEU:HD21	2.40	0.51
2:N:326:PHE:CE1	2:N:531:TYR:HB3	2.46	0.51
2:O:377:TYR:HB2	2:O:448:LYS:CB	2.41	0.51
2:O:516:PHE:N	2:O:524:ASP:OD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:54:VAL:CB	2:T:194:THR:HA	2.40	0.51
2:P:148:ASN:ND2	2:P:473:ALA:O	2.40	0.51
2:R:391:ILE:HD12	2:R:456:THR:CG2	2.41	0.51
2:T:164:ASP:O	2:T:168:THR:N	2.27	0.51
2:T:263:TYR:HA	2:T:269:SER:O	2.11	0.51
2:T:490:ARG:NE	2:T:495:GLY:O	2.44	0.51
2:T:603:LEU:HD12	2:T:604:LEU:CD1	2.41	0.51
2:U:49:ILE:N	2:U:55:GLN:OE1	2.44	0.51
3:W:377:MET:O	3:W:378:LEU:HD23	2.11	0.51
3:W:598:THR:O	3:W:602:ILE:HG13	2.11	0.51
3:Y:110:GLN:O	3:Y:256:ALA:HA	2.11	0.51
3:Z:321:LEU:HD22	3:Z:343:VAL:CG1	2.41	0.51
1:A:175:TRP:O	1:A:179:PHE:N	2.43	0.51
1:B:328:GLN:O	1:B:388:ASP:N	2.34	0.51
1:C:368:ASP:OD2	1:C:370:THR:OG1	2.22	0.51
1:F:144:PRO:HA	1:F:152:TYR:HB2	1.92	0.51
1:G:68:ARG:NH1	2:O:121:ASN:O	2.44	0.51
1:G:517:ILE:HG23	1:G:521:GLN:NE2	2.26	0.51
1:J:50:THR:OG1	2:T:533:ARG:HD3	2.10	0.51
2:L:389:ILE:HG21	2:L:400:ILE:CD1	2.40	0.51
2:M:32:ASN:OD1	2:R:59:GLY:HA3	2.10	0.51
2:M:591:LYS:HD2	2:M:592:ILE:N	2.26	0.51
2:N:410:ASP:OD1	2:N:411:ASN:N	2.42	0.51
2:Q:165:ILE:CD1	2:Q:300:ARG:HE	2.24	0.51
2:U:104:LEU:H	2:U:107:THR:HG23	1.76	0.51
2:V:337:LEU:O	2:V:340:SER:OG	2.11	0.51
3:W:153:THR:HG22	3:W:221:ILE:HD11	1.93	0.51
3:Y:330:GLU:HG3	3:Y:331:THR:H	1.75	0.51
1:C:83:MET:HE1	1:C:121:ILE:HA	1.93	0.51
1:E:484:TYR:CE2	1:E:534:ILE:HB	2.46	0.51
1:E:605:THR:OG1	1:E:609:THR:OG1	2.24	0.51
1:I:252:LEU:HB2	1:I:270:VAL:HG21	1.92	0.51
1:J:62:VAL:O	1:J:66:THR:HG23	2.11	0.51
1:J:558:MET:O	1:J:561:SER:OG	2.24	0.51
2:M:375:VAL:HG11	2:M:383:LYS:CG	2.41	0.51
2:M:469:SER:N	2:M:477:LYS:O	2.40	0.51
2:M:517:TYR:HB3	2:M:521:GLY:HA2	1.93	0.51
2:O:305:SER:N	2:O:312:GLU:OE1	2.44	0.51
2:O:557:TYR:HD2	2:O:561:TYR:CE2	2.29	0.51
2:O:602:THR:HG22	2:U:586:TYR:CE1	2.46	0.51
2:P:49:ILE:N	2:P:56:VAL:HG11	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:215:VAL:HA	2:P:290:GLY:HA3	1.93	0.51
2:P:335:ASN:O	2:P:339:ALA:N	2.32	0.51
2:R:243:LEU:HB3	2:R:251:VAL:HG23	1.93	0.51
2:S:591:LYS:HA	2:S:591:LYS:HE3	1.93	0.51
2:T:82:ASN:ND2	2:T:212:SER:O	2.42	0.51
2:U:501:ASP:N	2:U:501:ASP:OD1	2.44	0.51
2:V:37:THR:HG23	2:V:38:ARG:N	2.25	0.51
2:V:192:LEU:HB3	2:V:197:ALA:HB1	1.93	0.51
3:W:105:VAL:O	3:W:289:THR:HA	2.11	0.51
3:W:126:VAL:CG1	3:W:221:ILE:HG12	2.41	0.51
3:X:265:GLY:O	3:Y:253:ILE:HG21	2.10	0.51
3:X:536:ALA:O	3:X:540:LYS:N	2.38	0.51
3:Y:326:ASP:OD2	3:Y:338:GLN:N	2.42	0.51
1:A:649:MET:HG3	1:A:663:MET:HE3	1.93	0.51
1:B:192:ASN:OD1	1:B:193:VAL:N	2.44	0.51
1:C:676:HIS:HE1	1:C:680:LEU:HD11	1.75	0.51
1:D:56:ILE:HD12	1:D:709:LYS:CE	2.40	0.51
1:D:500:HIS:O	1:D:510:VAL:N	2.44	0.51
1:E:542:ASN:N	1:E:545:GLN:O	2.44	0.51
1:G:209:THR:HG22	1:G:209:THR:O	2.11	0.51
1:G:402:THR:HG23	1:G:414:ASN:C	2.32	0.51
1:G:746:LEU:HA	1:G:749:TYR:HE2	1.75	0.51
1:H:227:VAL:HG21	1:H:232:LEU:HD13	1.93	0.51
1:I:6:LYS:CB	2:P:565:GLN:HB3	2.41	0.51
1:I:47:ILE:HG23	2:P:533:ARG:HH22	1.76	0.51
1:I:86:LEU:HB3	1:I:90:PHE:HE2	1.76	0.51
1:I:687:TYR:O	1:I:690:THR:OG1	2.20	0.51
1:K:736:LYS:HD2	3:X:634:ILE:HD11	1.92	0.51
2:M:18:GLU:O	2:M:21:ILE:HG22	2.10	0.51
2:M:158:GLN:HG3	2:M:316:ILE:HD12	1.93	0.51
2:N:192:LEU:HD22	2:N:194:THR:HG23	1.93	0.51
2:O:367:ILE:HG13	2:O:458:PHE:CD1	2.45	0.51
2:P:143:LEU:O	2:P:147:VAL:HG23	2.11	0.51
2:P:550:ASN:O	2:P:554:GLU:OE1	2.29	0.51
2:Q:160:LYS:O	2:Q:163:ASP:OD1	2.28	0.51
2:S:589:ALA:O	2:S:593:VAL:HG23	2.11	0.51
2:U:37:THR:HG21	2:U:67:ARG:HD2	1.93	0.51
2:V:305:SER:OG	2:V:308:GLU:OE1	2.26	0.51
3:W:61:GLN:OE1	3:W:567:LEU:HD12	2.11	0.51
3:W:386:SER:OG	3:W:394:SER:OG	2.09	0.51
3:Y:423:ASP:O	3:Y:552:LYS:NZ	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:567:VAL:HG13	1:A:577:VAL:HG22	1.92	0.50
1:B:178:PHE:HA	1:B:633:ILE:CD1	2.41	0.50
1:D:278:ASP:OD1	1:D:279:VAL:N	2.44	0.50
1:F:226:TYR:O	1:F:329:ALA:N	2.45	0.50
1:H:71:GLU:O	1:H:75:ASN:ND2	2.43	0.50
1:H:371:LYS:HA	1:H:371:LYS:HE2	1.94	0.50
1:I:271:LYS:HB3	1:I:272:PRO:HD2	1.92	0.50
1:J:192:ASN:O	1:J:653:SER:N	2.44	0.50
1:J:302:ASP:OD1	1:J:303:SER:N	2.44	0.50
2:L:91:ALA:HB2	2:L:550:ASN:OD1	2.11	0.50
2:M:85:GLU:HB3	2:M:292:GLN:OE1	2.11	0.50
2:M:101:PHE:CE2	2:M:539:ILE:HG21	2.45	0.50
2:O:391:ILE:HD12	2:O:456:THR:HB	1.91	0.50
2:R:500:ASN:OD1	2:R:504:ASN:ND2	2.44	0.50
2:T:343:LYS:O	2:T:449:VAL:HG12	2.10	0.50
2:U:377:TYR:CD1	2:U:382:ASP:O	2.65	0.50
3:W:548:ASN:OD1	3:W:549:ILE:N	2.44	0.50
3:X:22:ASP:O	3:X:25:LYS:HG2	2.11	0.50
3:Z:174:ILE:HD13	3:Z:186:LEU:HD13	1.94	0.50
3:Z:462:ASN:N	3:Z:528:SER:OG	2.44	0.50
3:Z:619:ILE:HD12	3:Z:622:LYS:HE2	1.93	0.50
1:A:222:ILE:O	1:A:222:ILE:HG22	2.10	0.50
1:B:94:VAL:O	1:B:98:ALA:N	2.44	0.50
1:B:321:HIS:HB3	1:B:412:TYR:HE1	1.76	0.50
1:D:386:THR:O	1:D:387:ILE:HD13	2.11	0.50
1:E:301:ASN:ND2	1:E:305:GLN:O	2.45	0.50
1:F:236:LYS:HA	1:F:240:TYR:O	2.12	0.50
1:F:499:MET:SD	1:F:546:ILE:HD11	2.51	0.50
1:G:151:TYR:CE2	1:G:175:TRP:HB2	2.45	0.50
1:H:29:GLN:HA	1:H:32:SER:HG	1.76	0.50
1:H:271:LYS:HG2	1:H:274:ASP:OD1	2.10	0.50
2:L:305:SER:O	2:L:309:GLY:N	2.44	0.50
2:L:568:SER:O	2:L:572:THR:HG23	2.11	0.50
2:M:197:ALA:HA	2:M:201:ARG:HD3	1.93	0.50
2:N:102:PRO:HB3	2:N:106:ASN:HB2	1.94	0.50
2:N:385:LEU:HD13	2:N:419:ASP:HA	1.93	0.50
2:O:231:ASP:O	2:O:232:THR:HG23	2.11	0.50
2:Q:409:ASP:HB2	2:Q:414:LYS:HD3	1.93	0.50
2:R:94:LEU:HD13	2:R:543:GLY:HA2	1.93	0.50
2:U:372:PHE:CZ	2:U:389:ILE:HB	2.46	0.50
3:W:603:ASP:OD1	3:W:604:THR:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:136:LEU:HD12	3:X:158:LEU:HD11	1.93	0.50
3:Y:212:TYR:N	3:Y:238:ASP:OD2	2.36	0.50
1:C:56:ILE:HA	1:C:59:LEU:HD12	1.91	0.50
1:C:71:GLU:O	1:C:74:GLN:HG2	2.11	0.50
1:C:93:LYS:HB2	1:C:114:LEU:HD21	1.93	0.50
1:D:441:ASP:O	1:D:520:GLY:N	2.43	0.50
1:G:109:ALA:O	1:G:113:GLU:OE1	2.30	0.50
1:G:114:LEU:HD23	1:G:117:ILE:HD12	1.92	0.50
1:I:6:LYS:HD3	2:P:571:ASN:OD1	2.11	0.50
1:I:265:LYS:NZ	1:I:597:GLY:O	2.39	0.50
1:J:510:VAL:HG22	1:J:545:GLN:HG3	1.92	0.50
1:K:6:LYS:CA	2:S:565:GLN:HB3	2.40	0.50
1:K:70:GLN:O	1:K:73:THR:OG1	2.29	0.50
1:K:627:ASP:OD1	1:K:628:GLU:N	2.45	0.50
2:L:82:ASN:ND2	2:L:214:LEU:O	2.45	0.50
2:M:344:SER:O	2:M:443:ALA:N	2.44	0.50
2:M:588:ALA:O	2:M:592:ILE:HG22	2.11	0.50
2:O:42:VAL:O	2:O:63:GLU:N	2.42	0.50
2:O:250:ILE:O	2:O:256:PHE:HA	2.10	0.50
2:O:385:LEU:HD13	2:O:420:VAL:HG23	1.92	0.50
2:Q:274:TYR:CE2	2:Q:284:LEU:HD11	2.46	0.50
2:S:90:MET:SD	2:S:295:ALA:HB1	2.52	0.50
2:S:266:LYS:NZ	2:S:306:LYS:O	2.37	0.50
2:T:180:ALA:HB1	2:T:254:ILE:C	2.32	0.50
2:T:407:ASN:OD1	2:T:419:ASP:N	2.40	0.50
2:U:358:ILE:HG22	2:U:359:PRO:O	2.11	0.50
2:V:276:THR:HB	2:V:277:PRO:CD	2.41	0.50
3:Y:49:ASP:O	3:Y:53:ILE:HD12	2.11	0.50
3:Z:396:ASP:OD2	3:Z:398:SER:OG	2.20	0.50
1:B:632:ASP:OD1	1:B:633:ILE:CD1	2.59	0.50
1:C:442:SER:HB2	2:M:412:ASP:O	2.12	0.50
1:C:739:THR:O	1:C:743:GLN:OE1	2.28	0.50
1:D:3:ILE:HG23	1:D:3:ILE:O	2.12	0.50
1:D:505:THR:HB	1:D:507:ASN:O	2.10	0.50
1:E:3:ILE:HD11	1:E:7:LEU:HD22	1.93	0.50
1:I:6:LYS:N	2:P:565:GLN:HB3	2.27	0.50
2:N:77:LEU:HB2	2:N:564:TYR:CE2	2.46	0.50
2:N:564:TYR:O	2:N:567:LYS:N	2.45	0.50
2:P:116:TYR:HA	2:P:139:ALA:HB1	1.93	0.50
2:P:325:THR:HG23	2:P:517:TYR:O	2.11	0.50
2:P:376:ILE:CD1	2:P:420:VAL:HG22	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:453:ASP:OD1	2:P:456:THR:OG1	2.25	0.50
2:Q:292:GLN:O	2:Q:296:GLN:OE1	2.30	0.50
2:R:361:VAL:HG21	2:R:393:VAL:HA	1.93	0.50
2:S:342:ALA:HA	2:S:449:VAL:O	2.10	0.50
2:T:237:PRO:O	2:T:241:TYR:N	2.41	0.50
2:T:348:SER:HB3	2:T:439:PHE:CE2	2.46	0.50
2:U:65:ILE:CG2	2:U:195:GLU:CG	2.90	0.50
3:X:98:LEU:HD22	3:X:297:GLN:HA	1.93	0.50
3:X:218:ALA:HA	3:X:221:ILE:HD12	1.94	0.50
3:Y:456:ASP:O	3:Y:534:GLY:HA2	2.11	0.50
3:Z:122:ASP:HB2	3:Z:174:ILE:HG13	1.94	0.50
1:B:651:ALA:HB2	1:B:660:ASN:O	2.10	0.50
1:C:502:ASN:N	1:C:507:ASN:O	2.31	0.50
1:C:528:MET:CE	1:C:557:LEU:HG	2.42	0.50
1:E:35:LYS:NZ	1:E:714:ASP:O	2.40	0.50
1:H:731:TYR:CD2	1:H:735:LEU:HD11	2.47	0.50
1:I:702:SER:O	1:I:706:GLN:HB2	2.11	0.50
1:J:391:GLN:OE1	1:J:391:GLN:N	2.45	0.50
2:O:20:GLN:HB3	2:O:582:TYR:CZ	2.46	0.50
2:R:187:TYR:CE1	2:R:237:PRO:HB3	2.46	0.50
2:S:504:ASN:O	2:S:507:ILE:N	2.43	0.50
2:U:376:ILE:CG1	2:U:385:LEU:HD12	2.41	0.50
3:W:364:THR:HG1	3:W:374:THR:HG22	1.77	0.50
3:X:613:TRP:O	3:X:616:TYR:N	2.45	0.50
1:A:500:HIS:N	1:A:512:THR:OG1	2.44	0.50
1:B:160:VAL:HG13	1:B:170:TYR:CE2	2.47	0.50
1:C:750:MET:HG3	2:Q:593:VAL:HG11	1.93	0.50
1:D:129:VAL:N	1:D:132:GLN:O	2.44	0.50
1:E:417:PHE:CE2	1:E:589:ILE:HG21	2.46	0.50
1:E:445:LEU:HD12	1:E:514:SER:O	2.11	0.50
1:F:686:ALA:O	1:F:690:THR:OG1	2.10	0.50
1:G:215:ASP:O	1:G:217:LYS:NZ	2.42	0.50
1:G:420:ASN:N	1:G:423:THR:O	2.38	0.50
1:G:652:ASP:O	1:G:655:SER:OG	2.30	0.50
1:H:280:MET:O	1:H:283:ILE:HG22	2.10	0.50
1:I:443:THR:O	1:I:519:TYR:CD1	2.64	0.50
1:I:595:GLN:O	1:I:595:GLN:HG3	2.11	0.50
1:J:417:PHE:CD1	1:J:589:ILE:HG13	2.47	0.50
1:K:2:ARG:HE	2:S:38:ARG:NH2	2.10	0.50
2:M:278:ASP:O	2:M:279:GLU:HG3	2.11	0.50
2:N:545:ASN:O	2:N:549:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:502:MET:SD	2:O:505:LYS:NZ	2.85	0.50
2:O:515:ASN:HB3	2:O:523:ILE:HG22	1.93	0.50
2:P:409:ASP:OD1	2:P:413:ASN:N	2.42	0.50
2:T:21:ILE:HG13	2:T:582:TYR:HB3	1.93	0.50
2:T:597:ASP:O	2:T:598:GLN:C	2.48	0.50
2:V:107:THR:O	2:V:109:ILE:N	2.45	0.50
3:X:74:ALA:HB2	3:X:303:VAL:HG12	1.94	0.50
3:Y:305:LYS:NZ	3:Y:309:ASP:OD1	2.35	0.50
3:Y:402:GLN:O	3:Y:405:LYS:HG3	2.12	0.50
3:Z:47:GLN:CA	3:Z:584:LEU:HD13	2.40	0.50
3:Z:463:ASN:OD1	3:Z:529:ASP:N	2.36	0.50
1:A:460:ASN:CG	1:A:592:SER:HG	2.07	0.50
1:E:380:ILE:N	1:E:383:GLN:O	2.39	0.50
1:F:6:LYS:O	1:F:9:PHE:HB3	2.12	0.50
1:H:6:LYS:HD2	2:U:570:VAL:HG11	1.94	0.50
1:H:176:ASP:HA	1:H:180:LYS:HB2	1.94	0.50
1:H:302:ASP:OD1	1:H:303:SER:N	2.45	0.50
1:K:187:LYS:HD2	1:K:316:ASN:HA	1.92	0.50
2:L:107:THR:O	2:L:110:LEU:N	2.38	0.50
2:L:195:GLU:OE1	2:L:198:ASN:ND2	2.44	0.50
2:O:348:SER:HA	2:O:464:ILE:HG23	1.94	0.50
2:P:60:THR:HG23	2:T:29:SER:HB3	1.94	0.50
2:Q:163:ASP:O	2:Q:167:ASN:N	2.32	0.50
2:S:3:ILE:H	2:S:3:ILE:HD12	1.76	0.50
2:S:250:ILE:O	2:S:251:VAL:HG23	2.11	0.50
2:T:122:ASP:O	2:T:126:ASN:N	2.36	0.50
2:U:169:VAL:HG22	2:U:173:ASN:OD1	2.12	0.50
2:V:246:GLU:HG2	2:V:287:LYS:HB3	1.94	0.50
3:W:138:PHE:N	3:W:145:TYR:O	2.39	0.50
3:Y:380:MET:CG	3:Y:385:LEU:HD22	2.42	0.50
1:A:439:ALA:HB2	1:A:448:VAL:HG21	1.94	0.50
1:B:449:MET:HB3	1:B:451:GLY:O	2.12	0.50
1:B:512:THR:HG23	2:N:414:LYS:NZ	2.26	0.50
1:C:81:GLN:NE2	1:C:681:ASN:OD1	2.45	0.50
1:C:235:ASP:OD1	1:C:235:ASP:N	2.44	0.50
1:C:500:HIS:CE1	1:C:510:VAL:HG13	2.46	0.50
1:C:692:GLU:OE2	1:C:692:GLU:N	2.40	0.50
1:G:235:ASP:OD1	1:G:236:LYS:N	2.45	0.50
1:G:395:ILE:O	1:G:621:ASN:ND2	2.44	0.50
1:H:236:LYS:HA	1:H:240:TYR:HB2	1.94	0.50
1:I:160:VAL:CG1	1:I:170:TYR:CE1	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:201:ASP:OD2	1:I:204:LYS:NZ	2.41	0.50
1:J:458:THR:HG23	1:J:475:ILE:O	2.12	0.50
1:K:207:ASP:N	1:K:207:ASP:OD1	2.44	0.50
2:L:182:ILE:HA	2:L:200:LEU:HD22	1.94	0.50
2:N:39:GLN:HA	2:N:66:VAL:O	2.12	0.50
2:O:287:LYS:O	2:O:287:LYS:HD3	2.12	0.50
2:P:49:ILE:CD1	2:P:58:THR:HG21	2.42	0.50
2:P:116:TYR:CE2	2:P:140:SER:HA	2.46	0.50
2:S:86:TYR:HB2	2:S:291:GLY:HA2	1.94	0.50
2:T:165:ILE:O	2:T:169:VAL:HG23	2.11	0.50
2:T:384:LYS:O	2:T:385:LEU:HG	2.11	0.50
2:U:197:ALA:HA	2:U:200:LEU:HB2	1.94	0.50
3:W:385:LEU:HD12	3:W:394:SER:O	2.11	0.50
1:C:5:ASN:CB	2:M:570:VAL:HG13	2.41	0.50
1:C:13:VAL:HG12	1:C:17:MET:CE	2.42	0.50
1:C:429:SER:O	1:C:431:VAL:HG23	2.12	0.50
1:D:444:LYS:HB3	1:D:515:ASN:O	2.12	0.50
1:E:382:ASN:O	1:E:384:GLN:NE2	2.45	0.50
1:G:138:SER:N	1:G:154:ASP:OD1	2.44	0.50
1:J:87:LEU:HD21	1:J:674:ALA:HB2	1.92	0.50
1:K:308:ILE:HG21	1:K:318:LEU:HD21	1.93	0.50
1:K:732:GLN:OE1	1:K:735:LEU:HD12	2.12	0.50
2:P:103:ASP:HA	2:P:106:ASN:HB2	1.94	0.50
2:S:502:MET:O	2:S:505:LYS:N	2.45	0.50
2:T:81:SER:HB3	2:T:213:LYS:HD3	1.94	0.50
2:V:514:VAL:HG23	2:V:516:PHE:CE1	2.47	0.50
3:W:385:LEU:HD12	3:W:395:PHE:HA	1.94	0.50
3:Y:412:GLU:OE1	3:Y:418:ILE:HD13	2.12	0.50
1:A:501:THR:HG1	2:R:414:LYS:HE2	1.76	0.49
1:F:566:ASP:O	1:F:577:VAL:HG13	2.11	0.49
1:G:294:LYS:O	1:G:311:LEU:HD22	2.11	0.49
1:H:289:ASN:OD1	1:H:295:VAL:N	2.37	0.49
1:I:444:LYS:HA	1:I:518:THR:HA	1.94	0.49
1:J:294:LYS:HD2	1:J:294:LYS:N	2.28	0.49
1:J:643:ALA:HA	1:J:648:ASN:HB2	1.93	0.49
1:K:113:GLU:OE2	1:K:117:ILE:HD11	2.12	0.49
1:K:196:THR:HG22	1:K:211:TYR:CD1	2.46	0.49
1:K:480:SER:HB3	1:K:512:THR:HG21	1.94	0.49
2:L:502:MET:O	2:L:506:ILE:HD12	2.11	0.49
2:L:573:ASN:O	2:L:574:GLU:C	2.50	0.49
2:M:111:GLN:NE2	2:M:114:GLU:OE1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:385:LEU:CD2	2:M:418:ASP:O	2.59	0.49
2:P:373:ASP:O	2:P:451:ILE:HG23	2.12	0.49
2:P:564:TYR:CG	2:P:564:TYR:O	2.65	0.49
2:R:355:LYS:O	2:R:358:ILE:HG12	2.12	0.49
2:R:361:VAL:HG22	2:R:393:VAL:O	2.11	0.49
2:S:31:ALA:HA	2:S:570:VAL:HG11	1.94	0.49
2:S:388:THR:O	2:S:389:ILE:HD13	2.12	0.49
2:V:190:GLU:HG3	2:V:192:LEU:HG	1.93	0.49
2:V:230:LEU:O	2:V:233:THR:HG23	2.12	0.49
3:X:258:ASN:OD1	3:X:270:ARG:O	2.29	0.49
3:Y:330:GLU:O	3:Y:334:LYS:CA	2.59	0.49
3:Z:492:ALA:HB2	3:Z:507:VAL:CG2	2.41	0.49
1:B:648:ASN:ND2	1:B:660:ASN:OD1	2.45	0.49
1:C:33:GLY:O	1:C:715:VAL:HG12	2.12	0.49
1:C:454:LEU:HD12	1:C:515:ASN:HA	1.94	0.49
1:C:626:ILE:HG13	1:C:626:ILE:O	2.12	0.49
1:E:83:MET:HG3	1:E:124:LEU:HD13	1.94	0.49
1:F:338:ILE:HA	1:F:341:ALA:HB3	1.94	0.49
1:H:178:PHE:CZ	1:H:633:ILE:HB	2.47	0.49
1:H:501:THR:HG21	2:U:417:ASN:H	1.78	0.49
1:H:501:THR:O	1:H:510:VAL:HG12	2.12	0.49
1:H:549:ALA:O	1:H:553:GLN:OE1	2.30	0.49
1:J:223:GLY:C	1:J:232:LEU:HD11	2.32	0.49
1:J:628:GLU:OE1	1:J:630:ASN:N	2.39	0.49
2:L:349:ASP:OD1	2:L:351:LEU:HD23	2.12	0.49
2:L:502:MET:O	2:L:505:LYS:N	2.45	0.49
2:M:17:SER:O	2:M:21:ILE:N	2.41	0.49
2:N:207:LEU:O	2:N:210:THR:N	2.45	0.49
2:N:283:ASP:OD1	2:N:285:THR:N	2.37	0.49
2:O:37:THR:HG22	2:O:38:ARG:N	2.27	0.49
2:O:360:LEU:HD12	2:O:391:ILE:HG23	1.93	0.49
2:P:151:PHE:HD2	2:P:473:ALA:HB3	1.77	0.49
2:Q:526:LEU:HD13	2:Q:531:TYR:HB2	1.94	0.49
2:T:428:PHE:HA	2:T:439:PHE:HA	1.94	0.49
2:T:561:TYR:O	2:T:565:GLN:N	2.28	0.49
2:V:93:THR:HG21	2:V:299:LEU:HD13	1.94	0.49
3:X:385:LEU:HB2	3:X:400:PHE:CE2	2.47	0.49
1:A:199:ARG:NH1	1:A:234:ALA:O	2.45	0.49
1:A:518:THR:OG1	1:A:521:GLN:NE2	2.39	0.49
1:A:701:LEU:O	1:A:705:VAL:HG23	2.13	0.49
1:B:63:LYS:HG2	1:B:698:THR:OG1	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:233:ASP:N	1:D:237:ASP:OD2	2.37	0.49
1:D:501:THR:HG22	1:D:508:SER:OG	2.12	0.49
1:G:57:LYS:HA	1:G:60:GLU:OE2	2.12	0.49
1:G:396:LYS:NZ	1:G:652:ASP:OD1	2.46	0.49
1:H:613:GLY:N	1:H:614:PRO:CD	2.75	0.49
1:I:5:ASN:H	2:P:566:SER:HB2	1.75	0.49
1:I:320:PHE:O	1:I:321:HIS:CG	2.66	0.49
1:J:260:ASP:OD1	1:J:261:GLY:N	2.45	0.49
1:J:635:LYS:H	1:J:635:LYS:HD2	1.77	0.49
2:L:424:ILE:HG22	2:L:443:ALA:HB1	1.94	0.49
2:M:574:GLU:OE1	2:M:578:ALA:HB2	2.13	0.49
2:N:96:GLU:O	2:N:100:ARG:HG2	2.12	0.49
2:N:196:HIS:CE1	2:N:200:LEU:HD11	2.46	0.49
2:N:254:ILE:O	2:N:254:ILE:CG2	2.60	0.49
2:N:469:SER:N	2:N:477:LYS:O	2.42	0.49
2:N:517:TYR:CE1	2:N:523:ILE:HG23	2.46	0.49
2:O:26:ASN:OD1	2:O:30:ASN:ND2	2.36	0.49
2:O:48:TYR:HE2	2:O:51:THR:OG1	1.94	0.49
2:Q:8:TYR:O	2:Q:12:THR:HG23	2.12	0.49
2:Q:513:LYS:HD3	2:Q:527:THR:HG23	1.93	0.49
2:S:41:VAL:HG22	2:S:65:ILE:CD1	2.42	0.49
2:T:217:ALA:HB1	2:T:243:LEU:HD21	1.93	0.49
2:T:514:VAL:O	2:T:526:LEU:N	2.32	0.49
2:U:261:LEU:HA	2:U:272:ILE:HA	1.93	0.49
2:U:342:ALA:HB2	2:U:377:TYR:CD2	2.47	0.49
2:U:347:THR:HG23	2:U:439:PHE:CD2	2.48	0.49
2:U:491:ALA:O	2:U:502:MET:HB3	2.12	0.49
2:V:36:TYR:HE1	2:V:198:ASN:HB3	1.78	0.49
2:V:164:ASP:O	2:V:168:THR:OG1	2.25	0.49
3:W:396:ASP:OD1	3:W:396:ASP:N	2.44	0.49
3:X:107:GLN:HB2	3:X:260:GLU:HB3	1.94	0.49
3:X:380:MET:O	3:X:384:GLY:N	2.45	0.49
1:A:207:ASP:N	1:A:207:ASP:OD1	2.45	0.49
1:C:189:ILE:O	1:C:308:ILE:N	2.39	0.49
1:E:396:LYS:HD2	1:E:397:SER:O	2.13	0.49
1:E:408:ASN:O	1:E:621:ASN:ND2	2.44	0.49
1:F:42:ASP:OD2	1:F:45:THR:OG1	2.19	0.49
1:I:3:ILE:HG13	2:P:568:SER:H	1.77	0.49
1:I:7:LEU:HD21	2:P:561:TYR:CE1	2.47	0.49
1:I:57:LYS:HB2	2:P:114:GLU:HG3	1.93	0.49
1:I:441:ASP:OD2	1:I:523:ASN:ND2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:5:ASN:O	1:K:8:ASN:N	2.32	0.49
2:M:520:ASP:CG	2:M:522:THR:HG23	2.32	0.49
2:N:535:LEU:O	2:N:539:ILE:HD12	2.12	0.49
2:P:526:LEU:HD23	2:P:530:GLU:OE1	2.12	0.49
2:Q:591:LYS:O	2:Q:595:THR:HG23	2.11	0.49
2:T:384:LYS:O	2:T:384:LYS:HG3	2.13	0.49
1:A:347:ILE:HG22	1:A:348:SER:N	2.27	0.49
1:B:104:GLN:O	1:B:108:GLU:OE1	2.31	0.49
1:B:377:THR:HA	1:B:386:THR:HA	1.95	0.49
1:C:179:PHE:HD1	1:C:631:VAL:O	1.95	0.49
1:E:184:ASP:CG	1:F:105:THR:HG23	2.33	0.49
1:F:136:ALA:HB1	1:F:139:GLN:O	2.12	0.49
1:F:163:GLY:HA3	1:F:166:THR:HB	1.93	0.49
1:J:499:MET:HB3	1:J:551:TYR:CE2	2.48	0.49
1:K:119:GLU:HA	1:K:122:VAL:HG22	1.95	0.49
1:K:529:PHE:CZ	1:K:534:ILE:HG22	2.48	0.49
2:N:40:ARG:HE	2:N:41:VAL:H	1.61	0.49
2:N:196:HIS:HE1	2:N:200:LEU:HD21	1.78	0.49
2:P:261:LEU:HA	2:P:271:SER:O	2.12	0.49
2:R:361:VAL:HG12	2:R:367:ILE:CG2	2.43	0.49
2:R:387:LYS:NZ	2:R:408:THR:O	2.42	0.49
2:U:41:VAL:HG12	2:U:42:VAL:N	2.28	0.49
2:U:46:ASN:HB3	2:U:58:THR:OG1	2.12	0.49
2:U:158:GLN:NE2	2:U:300:ARG:HA	2.27	0.49
2:U:331:ILE:HA	2:U:468:PHE:CE2	2.47	0.49
2:V:7:LEU:O	2:V:11:VAL:HG23	2.12	0.49
2:V:384:LYS:O	2:V:385:LEU:HD23	2.12	0.49
2:V:535:LEU:HD12	2:V:536:THR:HG23	1.95	0.49
2:V:572:THR:O	2:V:576:LEU:N	2.41	0.49
3:W:462:ASN:O	3:W:464:GLN:NE2	2.42	0.49
3:Y:604:THR:O	3:Y:608:THR:HG23	2.13	0.49
1:A:54:TYR:HA	1:A:57:LYS:HB3	1.94	0.49
1:A:371:LYS:NZ	1:A:401:ASP:OD2	2.44	0.49
1:A:722:MET:CE	3:W:623:LEU:HD11	2.42	0.49
1:B:367:GLY:O	1:B:369:ILE:N	2.40	0.49
1:B:523:ASN:HA	1:B:526:ILE:HD12	1.95	0.49
1:D:420:ASN:OD1	1:D:425:TYR:CD2	2.66	0.49
1:H:90:PHE:HZ	1:H:118:LYS:HA	1.78	0.49
1:H:631:VAL:HG12	1:H:669:ARG:NH2	2.27	0.49
1:K:3:ILE:H	2:S:566:SER:C	2.15	0.49
1:K:5:ASN:N	2:S:565:GLN:C	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:391:GLN:O	1:K:392:THR:HG23	2.12	0.49
2:L:28:ILE:HD12	2:L:577:ALA:CB	2.43	0.49
2:M:258:PRO:HD2	2:M:259:LEU:HD12	1.95	0.49
2:N:37:THR:HB	2:N:68:LEU:O	2.13	0.49
2:R:192:LEU:HD13	2:R:224:ILE:HD12	1.93	0.49
2:R:241:TYR:CD2	2:R:242:ASN:N	2.80	0.49
2:S:265:ASP:HB3	2:S:306:LYS:HD2	1.94	0.49
2:S:335:ASN:HA	2:S:338:TYR:HB3	1.94	0.49
2:T:85:GLU:HG3	2:T:213:LYS:HB3	1.92	0.49
2:U:602:THR:O	2:U:606:LEU:HD13	2.12	0.49
3:W:78:VAL:HG12	3:W:79:VAL:N	2.27	0.49
3:X:415:PHE:HA	3:X:560:PHE:CD2	2.48	0.49
3:Y:63:ALA:HB3	3:Y:310:LEU:HD21	1.94	0.49
3:Y:111:LYS:CG	3:Y:193:THR:HG22	2.42	0.49
3:Z:463:ASN:N	3:Z:528:SER:OG	2.44	0.49
3:Z:619:ILE:HG23	3:Z:620:LEU:HD12	1.95	0.49
1:A:254:VAL:HG13	1:A:320:PHE:CZ	2.47	0.49
1:A:624:LEU:HD12	1:A:659:ARG:HD2	1.95	0.49
1:B:51:ARG:HE	1:B:52:LEU:HD12	1.78	0.49
1:C:1:MET:O	1:C:4:THR:HG22	2.12	0.49
1:D:298:VAL:HG22	1:D:308:ILE:CD1	2.43	0.49
1:D:419:LYS:HA	1:D:424:VAL:HG22	1.95	0.49
1:F:419:LYS:HA	1:F:424:VAL:HG12	1.94	0.49
1:H:451:GLY:O	1:H:453:SER:N	2.46	0.49
1:I:3:ILE:H	2:P:567:LYS:H	1.59	0.49
1:I:326:THR:O	1:I:390:LYS:HB3	2.12	0.49
1:K:189:ILE:HG22	1:K:625:THR:OG1	2.12	0.49
2:M:373:ASP:OD1	2:M:374:ILE:N	2.46	0.49
2:O:344:SER:O	2:O:443:ALA:HB3	2.12	0.49
2:P:344:SER:O	2:P:443:ALA:HB3	2.12	0.49
2:P:364:ASP:OD1	2:P:365:ARG:N	2.45	0.49
2:Q:414:LYS:HG3	2:Q:414:LYS:O	2.13	0.49
2:S:260:LYS:NZ	2:S:262:ASP:OD1	2.36	0.49
2:T:389:ILE:HG23	2:T:403:GLN:OE1	2.13	0.49
3:X:33:ILE:O	3:X:36:TYR:HB2	2.13	0.49
3:X:203:ALA:HB3	3:X:219:GLU:CG	2.43	0.49
3:X:421:TYR:HA	3:X:552:LYS:O	2.13	0.49
3:X:454:PRO:HA	3:X:469:SER:OG	2.13	0.49
1:A:338:ILE:HG23	1:A:380:ILE:HD13	1.93	0.49
1:A:564:THR:OG1	1:A:581:LEU:HD11	2.12	0.49
1:B:24:TYR:O	1:B:27:SER:OG	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:305:GLN:NE2	1:B:651:ALA:O	2.45	0.49
1:B:459:LEU:O	1:B:475:ILE:N	2.36	0.49
1:C:176:ASP:O	1:C:180:LYS:HB2	2.13	0.49
1:E:412:TYR:O	1:E:620:ALA:HA	2.13	0.49
1:G:63:LYS:NZ	1:G:699:SER:HA	2.28	0.49
1:G:335:LEU:O	1:G:339:ILE:N	2.36	0.49
1:I:3:ILE:O	2:P:564:TYR:CA	2.60	0.49
1:I:460:ASN:HB2	1:I:592:SER:OG	2.13	0.49
1:J:113:GLU:O	1:J:116:ARG:HB3	2.13	0.49
1:J:206:PRO:O	1:J:209:THR:OG1	2.31	0.49
1:J:320:PHE:O	1:J:623:SER:OG	2.25	0.49
1:J:379:THR:HA	1:J:384:GLN:HA	1.95	0.49
1:J:515:ASN:OD1	1:J:516:ASP:N	2.46	0.49
1:K:137:GLY:HA3	1:K:173:PRO:HB3	1.95	0.49
2:M:26:ASN:O	2:M:30:ASN:N	2.40	0.49
2:M:171:GLU:O	2:M:175:ILE:HD12	2.13	0.49
2:M:206:GLU:O	2:M:209:LEU:HB3	2.13	0.49
2:M:347:THR:HG22	2:M:348:SER:O	2.12	0.49
2:N:77:LEU:HD22	2:N:564:TYR:CE2	2.48	0.49
2:P:57:GLY:N	2:T:196:HIS:HB3	2.27	0.49
2:R:305:SER:O	2:R:309:GLY:N	2.43	0.49
2:S:580:ILE:O	2:S:583:GLN:HB3	2.12	0.49
2:T:30:ASN:HB2	2:T:36:TYR:CE2	2.48	0.49
2:U:317:GLN:HA	2:U:320:MET:HB3	1.94	0.49
2:V:37:THR:O	2:V:38:ARG:HB2	2.13	0.49
3:X:228:GLY:O	3:X:246:ILE:HA	2.12	0.49
3:Z:90:LEU:HD23	3:Z:91:THR:N	2.28	0.49
1:A:109:ALA:O	1:A:113:GLU:OE1	2.31	0.49
1:B:487:PRO:HD3	1:B:494:ILE:HD12	1.95	0.49
1:C:186:LYS:HD3	1:C:186:LYS:N	2.27	0.49
1:F:3:ILE:HG22	1:F:7:LEU:HD23	1.95	0.49
1:G:192:ASN:OD1	1:G:193:VAL:N	2.46	0.49
1:H:222:ILE:O	1:H:222:ILE:HG22	2.13	0.49
1:H:319:ASP:OD1	1:H:320:PHE:N	2.45	0.49
1:I:6:LYS:N	2:P:565:GLN:CB	2.76	0.49
1:I:187:LYS:HG3	1:I:318:LEU:HB3	1.94	0.49
1:K:86:LEU:HD11	1:K:120:SER:OG	2.12	0.49
2:M:73:SER:O	2:M:76:LYS:N	2.46	0.49
2:M:107:THR:HG22	2:M:108:GLY:N	2.27	0.49
2:M:326:PHE:HB2	2:M:528:MET:CE	2.43	0.49
2:N:148:ASN:HA	2:N:473:ALA:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:276:THR:HB	2:N:277:PRO:HD2	1.94	0.49
2:N:293:LEU:HD12	2:N:296:GLN:OE1	2.13	0.49
2:N:316:ILE:H	2:N:316:ILE:HD12	1.77	0.49
2:O:41:VAL:HG12	2:O:42:VAL:N	2.27	0.49
2:O:263:TYR:HA	2:O:269:SER:O	2.13	0.49
2:O:607:LYS:O	2:O:608:SER:C	2.51	0.49
2:P:3:ILE:HD11	2:T:18:GLU:OE2	2.12	0.49
2:P:56:VAL:HG13	2:T:195:GLU:CB	2.35	0.49
2:P:375:VAL:HG13	2:P:385:LEU:O	2.13	0.49
2:Q:84:LEU:O	2:Q:87:THR:OG1	2.28	0.49
2:R:409:ASP:HB3	2:R:413:ASN:H	1.78	0.49
2:S:351:LEU:HD13	2:S:354:LEU:HD22	1.95	0.49
2:T:413:ASN:N	2:T:413:ASN:OD1	2.46	0.49
2:U:327:ALA:HB1	2:U:476:MET:SD	2.53	0.49
2:V:38:ARG:HG2	2:V:39:GLN:N	2.28	0.49
2:V:578:ALA:O	2:V:581:GLN:HG2	2.12	0.49
3:W:170:ILE:HG22	3:W:171:VAL:N	2.28	0.49
3:X:112:ASP:OD2	3:X:198:ALA:HA	2.13	0.49
1:A:419:LYS:HD3	1:A:424:VAL:CG1	2.43	0.49
1:B:3:ILE:O	1:B:6:LYS:N	2.46	0.49
1:C:369:ILE:HD12	1:C:369:ILE:H	1.77	0.49
1:C:486:ASP:HB2	1:C:492:GLN:HG2	1.94	0.49
1:C:517:ILE:HG22	1:C:518:THR:N	2.28	0.49
1:F:402:THR:HG23	1:F:415:VAL:CA	2.43	0.49
1:G:55:GLU:O	1:G:58:THR:HB	2.12	0.49
1:G:122:VAL:HG21	1:G:147:SER:HA	1.95	0.49
1:G:459:LEU:HD23	1:G:593:ASP:HA	1.94	0.49
1:H:70:GLN:OE1	1:H:695:ASN:ND2	2.44	0.49
1:H:500:HIS:N	1:H:509:GLY:O	2.46	0.49
1:I:326:THR:O	1:I:390:LYS:N	2.45	0.49
1:J:47:ILE:HD11	2:T:537:GLY:HA3	1.94	0.49
1:K:83:MET:CE	1:K:121:ILE:HD12	2.43	0.49
1:K:670:LEU:HA	1:K:673:LEU:HD12	1.94	0.49
2:M:254:ILE:O	2:M:254:ILE:HG22	2.13	0.49
2:N:101:PHE:HZ	2:N:154:LEU:HD21	1.77	0.49
2:P:5:GLY:HA2	2:P:8:TYR:CE2	2.48	0.49
2:P:56:VAL:HG22	2:T:195:GLU:HB2	1.95	0.49
2:S:172:ILE:HD11	2:S:214:LEU:HD13	1.95	0.49
2:S:291:GLY:O	2:S:295:ALA:HB2	2.13	0.49
2:S:430:TYR:HA	2:S:436:ASP:O	2.13	0.49
2:T:166:LYS:NZ	2:T:261:LEU:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:539:ILE:HD12	2:T:539:ILE:H	1.77	0.49
2:U:261:LEU:HD21	2:U:270:TYR:HB2	1.95	0.49
3:W:405:LYS:HD2	3:W:405:LYS:N	2.28	0.49
3:X:458:THR:N	3:X:533:LYS:O	2.40	0.49
1:C:2:ARG:HB2	2:M:565:GLN:O	2.12	0.48
1:C:655:SER:OG	1:C:657:ASN:O	2.22	0.48
1:E:104:GLN:O	1:E:108:GLU:OE1	2.31	0.48
1:E:460:ASN:OD1	1:E:474:THR:HG23	2.13	0.48
1:E:465:SER:HB3	1:E:469:ASN:HB2	1.95	0.48
1:H:178:PHE:HA	1:H:633:ILE:CD1	2.43	0.48
1:J:118:LYS:HE2	1:J:637:LEU:HD23	1.94	0.48
1:K:1:MET:HB3	2:S:571:ASN:CB	2.43	0.48
1:K:265:LYS:NZ	1:K:598:GLN:O	2.38	0.48
1:K:265:LYS:N	1:K:611:GLN:O	2.40	0.48
1:K:407:ALA:HB2	1:K:415:VAL:HG12	1.94	0.48
2:L:389:ILE:HG23	2:L:403:GLN:OE1	2.12	0.48
2:M:36:TYR:HB2	2:M:571:ASN:ND2	2.28	0.48
2:M:148:ASN:ND2	2:M:473:ALA:O	2.43	0.48
2:M:288:ILE:HD13	2:M:297:LEU:HD13	1.95	0.48
2:M:551:SER:O	2:M:555:THR:HG23	2.12	0.48
2:O:304:TYR:HA	2:O:311:TYR:HD1	1.78	0.48
2:P:51:THR:HB	2:T:64:SER:CB	2.43	0.48
2:Q:106:ASN:ND2	2:Q:114:GLU:OE2	2.45	0.48
2:Q:261:LEU:HD21	2:Q:270:TYR:HA	1.94	0.48
2:R:263:TYR:CD1	2:R:268:LYS:HA	2.48	0.48
2:U:281:VAL:O	2:U:282:ARG:NH1	2.46	0.48
2:U:415:ASN:C	2:U:415:ASN:HD22	2.16	0.48
2:U:420:VAL:HG13	2:U:421:ASP:N	2.28	0.48
3:X:429:GLU:OE1	3:X:430:VAL:N	2.46	0.48
3:X:535:ASP:HB3	3:X:538:ILE:HD12	1.95	0.48
1:B:252:LEU:HD21	1:B:322:ALA:HB1	1.95	0.48
1:B:265:LYS:O	1:B:611:GLN:N	2.34	0.48
1:C:106:SER:O	1:C:109:ALA:HB3	2.13	0.48
1:C:587:ILE:HG23	1:C:589:ILE:HD11	1.94	0.48
1:D:268:VAL:C	1:D:604:PHE:CE1	2.86	0.48
1:E:631:VAL:HG12	1:E:669:ARG:NH2	2.29	0.48
1:E:673:LEU:HA	1:E:676:HIS:HB3	1.93	0.48
1:G:319:ASP:OD2	1:G:412:TYR:OH	2.19	0.48
1:I:159:ASN:HB3	1:I:167:GLU:HG2	1.95	0.48
1:I:222:ILE:O	1:I:222:ILE:HG22	2.13	0.48
1:J:441:ASP:O	1:J:520:GLY:N	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:163:ASP:O	2:L:166:LYS:HB3	2.13	0.48
2:L:272:ILE:HG22	2:L:284:LEU:HB3	1.94	0.48
2:N:337:LEU:HD13	2:N:506:ILE:HG13	1.94	0.48
2:O:260:LYS:CD	2:O:275:GLU:HB3	2.43	0.48
2:O:606:LEU:HD11	2:U:586:TYR:CD1	2.48	0.48
2:P:387:LYS:HB2	2:P:420:VAL:HG21	1.95	0.48
2:Q:340:SER:O	2:Q:450:ALA:HB1	2.13	0.48
2:R:252:ASP:OD2	2:R:255:ASN:ND2	2.36	0.48
2:S:346:VAL:N	2:S:442:ASN:OD1	2.46	0.48
2:T:114:GLU:O	2:T:118:LYS:N	2.33	0.48
2:T:557:TYR:O	2:T:560:VAL:HG12	2.13	0.48
2:U:165:ILE:HD13	2:U:300:ARG:HH11	1.77	0.48
2:U:262:ASP:N	2:U:271:SER:O	2.35	0.48
2:V:377:TYR:HB3	2:V:378:ASP:O	2.13	0.48
3:X:205:LYS:O	3:X:213:GLN:N	2.45	0.48
3:X:300:PHE:CD1	3:X:401:GLU:HG2	2.48	0.48
3:Z:424:ILE:HD12	3:Z:526:GLY:HA2	1.94	0.48
1:A:424:VAL:HG23	1:A:577:VAL:HB	1.94	0.48
1:A:623:SER:O	1:A:659:ARG:NH2	2.46	0.48
1:B:35:LYS:NZ	1:B:714:ASP:O	2.37	0.48
1:B:289:ASN:CG	1:B:295:VAL:HG22	2.34	0.48
1:D:88:GLU:O	1:D:92:VAL:HG23	2.13	0.48
1:D:109:ALA:O	1:D:113:GLU:OE1	2.31	0.48
1:D:555:GLN:O	1:D:558:MET:HB2	2.13	0.48
1:E:57:LYS:HD2	2:L:114:GLU:OE1	2.12	0.48
1:H:445:LEU:HD11	1:H:517:ILE:HB	1.95	0.48
1:I:3:ILE:O	2:P:562:SER:O	2.31	0.48
1:I:3:ILE:N	2:P:568:SER:H	2.11	0.48
1:I:83:MET:O	1:I:87:LEU:HD13	2.12	0.48
1:J:173:PRO:O	1:J:176:ASP:HB3	2.14	0.48
1:K:2:ARG:HB3	2:S:568:SER:CA	2.42	0.48
2:L:342:ALA:HB3	2:L:495:GLY:HA3	1.94	0.48
2:M:467:PHE:CE1	2:M:478:VAL:HG23	2.48	0.48
2:M:475:ASP:OD1	2:M:475:ASP:N	2.46	0.48
2:M:572:THR:HB	2:M:574:GLU:H	1.78	0.48
2:N:27:ASN:OD1	2:N:38:ARG:NH2	2.45	0.48
2:N:85:GLU:OE1	2:N:88:LYS:NZ	2.35	0.48
2:N:492:SER:HG	2:N:496:VAL:H	1.60	0.48
2:R:373:ASP:OD1	2:R:388:THR:OG1	2.21	0.48
2:T:36:TYR:CE2	2:T:38:ARG:HA	2.48	0.48
2:T:192:LEU:HB3	2:T:193:PRO:CD	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:246:GLU:O	2:T:286:ALA:HB1	2.14	0.48
2:T:314:GLY:HA3	2:T:317:GLN:HB3	1.95	0.48
2:U:408:THR:HG22	2:U:409:ASP:N	2.27	0.48
3:Y:22:ASP:HA	3:Y:25:LYS:HG2	1.95	0.48
3:Y:37:THR:O	3:Y:41:GLU:OE1	2.32	0.48
3:Y:377:MET:CE	3:Y:558:GLY:HA2	2.43	0.48
3:Y:419:THR:HG21	3:Y:553:PRO:HB3	1.95	0.48
3:Z:423:ASP:OD1	3:Z:424:ILE:N	2.47	0.48
1:A:184:ASP:OD2	1:C:105:THR:HB	2.13	0.48
1:C:267:ALA:HB1	1:C:604:PHE:CE2	2.48	0.48
1:C:393:ASP:OD1	1:C:393:ASP:O	2.32	0.48
1:D:666:ALA:O	1:D:670:LEU:HG	2.13	0.48
1:E:3:ILE:HG12	1:E:7:LEU:CB	2.44	0.48
1:E:13:VAL:CG1	2:Q:574:GLU:HB2	2.44	0.48
1:H:290:THR:HG23	1:H:293:ASN:N	2.28	0.48
1:H:457:THR:HG22	1:H:477:LEU:HD12	1.95	0.48
1:I:425:TYR:HB2	1:I:575:ILE:O	2.13	0.48
1:I:631:VAL:HG12	1:I:633:ILE:CG1	2.42	0.48
1:J:148:ASN:HA	1:J:634:ILE:HG21	1.95	0.48
1:J:264:PHE:HA	1:J:612:ASN:HA	1.94	0.48
1:J:312:LYS:NZ	1:J:315:ASN:OD1	2.44	0.48
1:J:484:TYR:CZ	1:J:494:ILE:HB	2.49	0.48
1:K:181:ALA:HA	1:K:630:ASN:HA	1.94	0.48
1:K:534:ILE:HG13	1:K:534:ILE:O	2.13	0.48
2:M:41:VAL:HB	2:M:63:GLU:HA	1.95	0.48
2:M:487:SER:O	2:M:490:ARG:NH1	2.46	0.48
2:N:301:GLY:CA	2:N:314:GLY:HA2	2.43	0.48
2:N:401:MET:HA	2:N:401:MET:HE3	1.95	0.48
2:O:241:TYR:HE2	2:O:251:VAL:HG11	1.79	0.48
2:O:555:THR:HG21	2:U:100:ARG:O	2.13	0.48
2:P:261:LEU:HD23	2:P:261:LEU:C	2.34	0.48
2:Q:245:ILE:HD11	2:Q:248:PHE:CD2	2.49	0.48
2:S:385:LEU:HB2	2:S:410:ASP:O	2.14	0.48
2:V:107:THR:HG23	2:V:110:LEU:CD1	2.43	0.48
3:X:457:PHE:O	3:X:468:LEU:N	2.43	0.48
3:X:604:THR:O	3:X:608:THR:HG23	2.13	0.48
3:Z:32:ARG:NE	3:Z:598:THR:HG21	2.28	0.48
1:B:193:VAL:HG13	1:B:653:SER:OG	2.13	0.48
1:E:463:VAL:HG13	1:E:529:PHE:CE2	2.48	0.48
1:E:556:GLN:NE2	1:E:560:ASP:OD1	2.47	0.48
1:F:3:ILE:CG2	1:F:7:LEU:HD23	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:97:ALA:HA	1:G:102:ASN:ND2	2.29	0.48
1:H:548:ASN:O	1:H:552:THR:N	2.44	0.48
1:H:670:LEU:HD23	1:H:673:LEU:HD12	1.96	0.48
1:I:121:ILE:O	1:I:124:LEU:N	2.46	0.48
1:I:547:ASN:OD1	1:I:548:ASN:N	2.46	0.48
1:I:744:LEU:HD21	1:J:728:GLN:HG3	1.94	0.48
1:J:83:MET:HE3	1:J:124:LEU:HD22	1.96	0.48
1:J:412:TYR:CE1	1:J:620:ALA:HB1	2.48	0.48
1:J:644:VAL:HG13	1:J:645:LEU:N	2.28	0.48
1:K:253:TYR:O	1:K:322:ALA:HB1	2.12	0.48
1:K:339:ILE:O	1:K:343:ASN:N	2.44	0.48
2:L:215:VAL:HG22	2:L:216:SER:N	2.28	0.48
2:L:292:GLN:HG3	2:L:293:LEU:HD22	1.96	0.48
2:M:278:ASP:OD2	2:M:280:LYS:NZ	2.47	0.48
2:O:31:ALA:CB	2:O:570:VAL:HG11	2.43	0.48
2:O:325:THR:HG21	2:O:518:ASN:HA	1.96	0.48
2:P:383:LYS:NZ	2:P:452:GLU:OE2	2.44	0.48
2:Q:50:THR:O	2:Q:51:THR:OG1	2.29	0.48
2:Q:595:THR:HA	2:Q:598:GLN:HG2	1.95	0.48
2:S:78:LYS:O	2:S:81:SER:OG	2.27	0.48
2:T:180:ALA:HB1	2:T:255:ASN:N	2.27	0.48
2:V:120:TRP:HB3	2:V:507:ILE:HG13	1.95	0.48
2:V:224:ILE:HG22	2:V:225:ASN:N	2.29	0.48
2:V:496:VAL:HG23	2:V:497:ASP:N	2.24	0.48
3:X:19:ASP:OD1	3:X:19:ASP:C	2.51	0.48
3:X:622:LYS:CG	3:X:623:LEU:HD12	2.43	0.48
3:Y:360:VAL:HG23	3:Y:375:LYS:HB3	1.96	0.48
1:A:650:ARG:HA	1:A:661:THR:HG23	1.95	0.48
1:B:63:LYS:CD	1:B:699:SER:HA	2.43	0.48
1:C:387:ILE:HG22	1:C:388:ASP:N	2.28	0.48
1:C:457:THR:HG22	1:C:458:THR:N	2.28	0.48
1:D:181:ALA:HA	1:D:630:ASN:HA	1.95	0.48
1:E:23:LEU:HD13	1:E:26:ILE:HD11	1.95	0.48
1:E:503:PRO:HB3	2:L:408:THR:HB	1.96	0.48
1:F:254:VAL:HG13	1:F:320:PHE:CE1	2.49	0.48
1:H:178:PHE:CE1	1:H:633:ILE:HB	2.48	0.48
1:H:245:LEU:HD11	1:H:332:LYS:HD3	1.96	0.48
1:I:316:ASN:ND2	1:I:628:GLU:HB2	2.28	0.48
1:I:651:ALA:HA	1:I:660:ASN:O	2.14	0.48
1:J:118:LYS:HD2	1:J:634:ILE:HG23	1.95	0.48
1:J:693:GLY:O	1:J:696:THR:OG1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:3:ILE:HG23	2:S:563:GLU:C	2.32	0.48
1:K:280:MET:HB3	1:K:298:VAL:CG1	2.44	0.48
1:K:480:SER:OG	1:K:512:THR:HG21	2.14	0.48
2:M:261:LEU:HG	2:M:272:ILE:HG13	1.95	0.48
2:N:94:LEU:HD23	2:N:543:GLY:HA2	1.95	0.48
2:P:146:SER:O	2:P:150:THR:HG23	2.12	0.48
2:Q:275:GLU:CD	2:Q:281:VAL:HG22	2.33	0.48
2:S:129:GLU:O	2:S:132:THR:OG1	2.22	0.48
2:S:268:LYS:N	2:S:268:LYS:HD2	2.28	0.48
2:S:418:ASP:O	2:S:423:HIS:NE2	2.47	0.48
2:S:517:TYR:CZ	2:S:523:ILE:HG12	2.48	0.48
2:U:410:ASP:HB2	2:U:420:VAL:N	2.28	0.48
3:W:124:GLY:O	3:W:126:VAL:HG23	2.14	0.48
3:W:552:LYS:NZ	3:W:553:PRO:O	2.44	0.48
3:X:259:ALA:O	3:X:270:ARG:N	2.41	0.48
3:Y:236:ASP:N	3:Y:240:ASP:OD2	2.47	0.48
3:Y:358:GLN:HA	3:Y:378:LEU:HB2	1.95	0.48
1:A:528:MET:HA	1:A:561:SER:OG	2.14	0.48
1:C:63:LYS:HZ1	1:C:702:SER:CB	2.26	0.48
1:C:240:TYR:O	1:C:243:SER:N	2.39	0.48
1:C:255:GLN:OE1	1:C:255:GLN:N	2.46	0.48
1:F:188:GLN:O	1:F:625:THR:OG1	2.29	0.48
1:G:651:ALA:HB2	1:G:661:THR:HG23	1.95	0.48
1:G:683:THR:O	1:H:116:ARG:NH2	2.47	0.48
1:H:57:LYS:HE3	2:U:110:LEU:HD11	1.95	0.48
1:H:301:ASN:OD1	1:H:305:GLN:N	2.45	0.48
1:H:460:ASN:N	1:H:592:SER:O	2.45	0.48
1:K:3:ILE:C	2:S:566:SER:N	2.64	0.48
1:K:428:VAL:HG23	1:K:619:SER:HA	1.96	0.48
1:K:587:ILE:CG2	1:K:589:ILE:HD11	2.42	0.48
2:O:482:ILE:H	2:O:482:ILE:HD12	1.79	0.48
2:P:326:PHE:CE1	2:P:528:MET:SD	3.07	0.48
2:P:348:SER:OG	2:P:439:PHE:N	2.46	0.48
2:T:415:ASN:OD1	2:T:415:ASN:O	2.31	0.48
2:T:592:ILE:HD12	2:T:592:ILE:H	1.79	0.48
3:Y:98:LEU:HD22	3:Y:297:GLN:HA	1.94	0.48
3:Y:423:ASP:HA	3:Y:524:GLY:O	2.13	0.48
3:Y:432:LYS:HA	3:Y:517:GLY:HA2	1.96	0.48
3:Z:18:GLN:NE2	3:Z:19:ASP:OD1	2.45	0.48
3:Z:138:PHE:HA	3:Z:201:PHE:HA	1.95	0.48
1:A:13:VAL:HG12	1:A:17:MET:SD	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:ASP:O	3:W:366:ASP:N	2.46	0.48
1:A:501:THR:O	1:A:502:ASN:O	2.32	0.48
1:B:570:ASP:OD1	1:B:574:ARG:HG3	2.14	0.48
1:C:195:PHE:O	1:C:211:TYR:HA	2.14	0.48
1:D:158:ILE:N	1:D:171:ASN:OD1	2.36	0.48
1:E:176:ASP:HB2	1:E:180:LYS:HD3	1.95	0.48
1:E:219:GLN:HB3	1:E:272:PRO:HB3	1.96	0.48
1:F:177:LEU:HD13	1:F:680:LEU:CD1	2.44	0.48
1:H:70:GLN:NE2	1:H:692:GLU:OE1	2.43	0.48
1:H:270:VAL:HG13	1:H:274:ASP:OD2	2.14	0.48
1:I:3:ILE:HG23	2:P:563:GLU:O	2.14	0.48
1:J:500:HIS:O	2:T:415:ASN:O	2.31	0.48
2:L:588:ALA:O	2:L:592:ILE:HD12	2.14	0.48
2:N:168:THR:OG1	2:N:293:LEU:HD13	2.13	0.48
2:N:349:ASP:O	2:N:438:LEU:HD12	2.13	0.48
2:O:48:TYR:HA	2:O:56:VAL:CG2	2.44	0.48
2:O:84:LEU:HD12	2:O:87:THR:HG1	1.77	0.48
2:O:103:ASP:HB3	2:O:106:ASN:HA	1.95	0.48
2:O:420:VAL:HG12	2:O:424:ILE:HG12	1.95	0.48
2:P:371:SER:O	2:P:454:LYS:N	2.35	0.48
2:P:545:ASN:O	2:P:549:VAL:HG23	2.14	0.48
2:Q:342:ALA:CB	2:Q:377:TYR:CE2	2.96	0.48
2:R:361:VAL:CG2	2:R:393:VAL:HA	2.43	0.48
2:S:227:ASP:OD1	2:S:228:ASN:N	2.44	0.48
2:S:269:SER:OG	2:S:306:LYS:NZ	2.42	0.48
2:U:31:ALA:HB1	2:U:570:VAL:HG13	1.95	0.48
2:U:85:GLU:O	2:U:292:GLN:NE2	2.47	0.48
2:V:75:TYR:O	2:V:78:LYS:N	2.47	0.48
2:V:323:LEU:O	2:V:327:ALA:N	2.45	0.48
3:W:364:THR:OG1	3:W:374:THR:HG22	2.14	0.48
3:X:107:GLN:HB3	3:X:258:ASN:O	2.13	0.48
3:X:136:LEU:HD22	3:X:222:PHE:CE1	2.48	0.48
3:X:262:THR:HA	3:X:266:ILE:O	2.13	0.48
3:Z:504:LYS:HE2	3:Z:504:LYS:HA	1.96	0.48
1:C:47:ILE:HD11	2:M:537:GLY:HA3	1.95	0.48
1:F:158:ILE:HG13	1:F:171:ASN:ND2	2.28	0.48
1:G:3:ILE:HG23	2:O:569:GLY:CA	2.44	0.48
1:G:133:TYR:O	1:G:135:PHE:N	2.47	0.48
1:G:176:ASP:O	1:G:180:LYS:HG2	2.13	0.48
1:G:454:LEU:HB3	1:G:457:THR:HB	1.95	0.48
1:H:251:THR:OG1	1:H:269:LEU:HD23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:299:SER:N	1:I:307:GLN:O	2.47	0.48
1:J:441:ASP:O	1:J:519:TYR:N	2.47	0.48
2:L:111:GLN:HA	2:L:114:GLU:HB3	1.96	0.48
2:L:122:ASP:OD1	2:L:126:ASN:ND2	2.39	0.48
2:O:71:GLU:O	2:O:75:TYR:N	2.41	0.48
2:O:526:LEU:HD11	2:O:530:GLU:CG	2.44	0.48
2:P:166:LYS:HE2	2:P:261:LEU:HD22	1.96	0.48
2:P:218:VAL:O	2:P:244:SER:N	2.40	0.48
2:P:606:LEU:HD11	2:T:586:TYR:CE2	2.49	0.48
2:R:48:TYR:CD2	2:R:55:GLN:OE1	2.67	0.48
2:T:224:ILE:HG22	2:T:225:ASN:H	1.79	0.48
2:T:358:ILE:HG22	2:T:359:PRO:O	2.14	0.48
3:W:389:ASP:OD1	3:W:390:ALA:N	2.46	0.48
3:X:96:VAL:HG12	3:X:97:ALA:O	2.14	0.48
3:Y:212:TYR:CD2	3:Y:238:ASP:OD1	2.67	0.48
3:Y:416:SER:HB3	3:Y:558:GLY:N	2.29	0.48
1:A:622:ASN:O	1:A:659:ARG:NH1	2.47	0.48
1:B:140:VAL:HG13	1:B:158:ILE:HD11	1.95	0.48
1:B:413:ASP:HA	1:B:620:ALA:HA	1.95	0.48
1:B:451:GLY:H	1:B:615:ASN:HA	1.79	0.48
1:B:482:VAL:HG11	1:B:496:PHE:CZ	2.49	0.48
1:C:2:ARG:CD	2:M:571:ASN:HA	2.44	0.48
1:C:463:VAL:HG13	1:C:589:ILE:HG12	1.96	0.48
1:C:471:TYR:OH	1:C:529:PHE:HB2	2.13	0.48
1:C:531:ALA:O	1:C:532:ASP:OD1	2.31	0.48
1:C:570:ASP:OD1	1:C:573:GLY:N	2.47	0.48
1:E:72:MET:SD	1:E:76:SER:OG	2.71	0.48
1:E:379:THR:HA	1:E:384:GLN:HA	1.94	0.48
1:G:2:ARG:HD3	2:O:38:ARG:NH2	2.29	0.48
1:G:411:ASP:O	1:G:411:ASP:OD1	2.31	0.48
1:J:256:GLY:O	1:J:264:PHE:N	2.45	0.48
1:K:499:MET:HE1	1:K:541:ALA:HB2	1.95	0.48
1:K:731:TYR:CE1	1:K:735:LEU:HD21	2.48	0.48
2:L:337:LEU:HD11	2:L:505:LYS:HD2	1.95	0.48
2:M:71:GLU:O	2:M:74:TYR:HB3	2.14	0.48
2:N:464:ILE:HG22	2:N:465:GLY:N	2.28	0.48
2:O:389:ILE:HG21	2:O:400:ILE:HD12	1.95	0.48
2:P:157:ILE:O	2:P:161:VAL:HG23	2.14	0.48
2:Q:100:ARG:NE	2:Q:100:ARG:HA	2.29	0.48
2:S:267:ASN:ND2	2:S:304:TYR:CZ	2.81	0.48
2:U:39:GLN:HB3	2:U:65:ILE:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:331:ILE:HG23	2:U:468:PHE:CD2	2.49	0.48
2:U:392:ASP:OD1	2:U:395:THR:N	2.47	0.48
2:V:97:ILE:HG13	2:V:98:ALA:N	2.29	0.48
2:V:170:ASP:O	2:V:174:LYS:N	2.39	0.48
3:X:136:LEU:HD12	3:X:158:LEU:CD1	2.44	0.48
3:Y:422:GLU:OE2	3:Y:552:LYS:NZ	2.45	0.48
1:A:41:GLU:OE1	1:A:46:TYR:OH	2.31	0.47
1:A:297:GLU:O	1:A:308:ILE:HG23	2.14	0.47
1:C:296:VAL:HG22	1:C:297:GLU:N	2.29	0.47
1:C:463:VAL:HG13	1:C:589:ILE:CG1	2.44	0.47
1:C:502:ASN:ND2	1:C:505:THR:OG1	2.47	0.47
1:D:54:TYR:HA	1:D:57:LYS:HE2	1.96	0.47
1:D:181:ALA:HA	1:D:631:VAL:HG23	1.95	0.47
1:E:299:SER:O	1:E:307:GLN:NE2	2.47	0.47
1:E:454:LEU:HD21	1:E:515:ASN:HA	1.96	0.47
1:E:626:ILE:O	1:E:626:ILE:HG13	2.14	0.47
1:F:128:SER:HB3	1:F:133:TYR:CD2	2.49	0.47
1:G:441:ASP:HA	1:G:519:TYR:HB2	1.96	0.47
1:G:682:THR:HG21	1:H:109:ALA:O	2.14	0.47
1:H:342:ALA:HB3	1:H:349:MET:HE1	1.95	0.47
1:I:643:ALA:O	1:I:647:GLY:N	2.47	0.47
1:J:463:VAL:N	1:J:471:TYR:O	2.46	0.47
1:K:328:GLN:N	1:K:388:ASP:O	2.31	0.47
1:K:473:VAL:CG2	1:K:529:PHE:CZ	2.97	0.47
1:K:500:HIS:HD1	1:K:512:THR:HA	1.79	0.47
1:K:607:THR:HG22	1:K:608:SER:H	1.79	0.47
2:M:166:LYS:HG2	2:M:270:TYR:CE2	2.49	0.47
2:N:407:ASN:HB3	2:N:416:SER:O	2.14	0.47
2:P:47:GLY:N	2:P:58:THR:H	2.12	0.47
2:P:396:THR:OG1	2:P:399:ASP:N	2.43	0.47
2:Q:266:LYS:N	2:Q:266:LYS:CD	2.77	0.47
2:S:260:LYS:O	2:S:272:ILE:HA	2.13	0.47
2:T:141:GLN:O	2:T:144:THR:OG1	2.28	0.47
2:U:372:PHE:CZ	2:U:389:ILE:HG21	2.49	0.47
2:V:546:ASN:HA	2:V:549:VAL:HB	1.96	0.47
3:W:385:LEU:HD23	3:W:393:LEU:HD13	1.96	0.47
3:X:135:ASP:OD2	3:X:205:LYS:HB3	2.13	0.47
3:X:462:ASN:HA	3:X:528:SER:CB	2.44	0.47
3:Z:328:ASN:OD1	3:Z:331:THR:N	2.46	0.47
1:A:725:MET:O	1:A:729:LEU:HD13	2.14	0.47
1:B:219:GLN:HA	1:B:222:ILE:HB	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:94:VAL:HG12	1:E:667:LEU:HD21	1.95	0.47
1:E:158:ILE:O	1:E:169:PRO:HA	2.14	0.47
1:E:661:THR:HG23	1:E:661:THR:O	2.12	0.47
1:G:129:VAL:HB	1:G:134:LEU:HD21	1.96	0.47
1:H:62:VAL:O	1:H:66:THR:HG23	2.13	0.47
1:H:675:ASP:OD1	1:H:679:LYS:NZ	2.46	0.47
1:I:57:LYS:O	1:I:61:GLN:NE2	2.48	0.47
1:K:302:ASP:OD1	1:K:650:ARG:NH2	2.47	0.47
1:K:303:SER:HB2	1:K:650:ARG:CD	2.44	0.47
2:L:293:LEU:O	2:L:296:GLN:N	2.47	0.47
2:N:376:ILE:O	2:N:384:LYS:N	2.47	0.47
2:O:7:LEU:O	2:O:10:GLY:N	2.48	0.47
2:O:55:GLN:HG3	2:O:56:VAL:HG13	1.95	0.47
2:P:101:PHE:HB2	2:P:106:ASN:ND2	2.29	0.47
2:S:377:TYR:CE2	2:S:494:ASN:HA	2.49	0.47
2:U:151:PHE:CD2	2:U:474:SER:HA	2.49	0.47
2:U:496:VAL:O	2:U:498:SER:N	2.44	0.47
2:V:96:GLU:OE2	2:V:97:ILE:HG23	2.15	0.47
2:V:180:ALA:HB1	2:V:254:ILE:C	2.34	0.47
2:V:221:LYS:HA	2:V:240:GLN:O	2.14	0.47
3:Y:259:ALA:N	3:Y:270:ARG:O	2.38	0.47
3:Z:101:MET:SD	3:Z:294:PHE:HB2	2.54	0.47
1:B:732:GLN:HG2	1:K:748:ASN:HA	1.95	0.47
1:C:626:ILE:HD12	1:C:665:GLY:HA3	1.96	0.47
1:E:300:MET:SD	1:E:301:ASN:O	2.72	0.47
1:I:336:LYS:HA	1:I:336:LYS:HE3	1.96	0.47
1:J:219:GLN:O	1:J:222:ILE:N	2.47	0.47
1:J:631:VAL:HG13	1:J:672:HIS:NE2	2.29	0.47
1:K:68:ARG:NH1	2:S:125:SER:OG	2.42	0.47
2:L:180:ALA:HA	2:L:256:PHE:CZ	2.50	0.47
2:L:228:ASN:OD1	2:L:229:ARG:N	2.47	0.47
2:N:38:ARG:O	2:N:67:ARG:HA	2.14	0.47
2:N:215:VAL:HG22	2:N:216:SER:N	2.29	0.47
2:P:41:VAL:HG12	2:P:42:VAL:H	1.79	0.47
2:Q:494:ASN:OD1	2:Q:496:VAL:N	2.39	0.47
2:S:409:ASP:OD2	2:S:414:LYS:HA	2.14	0.47
2:U:518:ASN:HB3	2:U:522:THR:OG1	2.14	0.47
3:X:111:LYS:NZ	3:X:191:LYS:O	2.47	0.47
1:A:661:THR:HG22	1:A:661:THR:O	2.14	0.47
1:A:722:MET:SD	3:W:623:LEU:HD11	2.53	0.47
1:C:192:ASN:HB3	1:C:624:LEU:HD22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:297:GLU:O	1:C:308:ILE:HG23	2.14	0.47
1:D:351:GLU:O	1:D:351:GLU:OE2	2.33	0.47
1:E:371:LYS:NZ	1:E:401:ASP:OD2	2.21	0.47
1:E:382:ASN:O	1:E:382:ASN:OD1	2.32	0.47
1:G:276:LEU:O	1:G:280:MET:HG3	2.13	0.47
1:G:445:LEU:CD2	1:G:517:ILE:HG22	2.43	0.47
1:G:500:HIS:HB2	2:O:414:LYS:N	2.29	0.47
1:I:187:LYS:CG	1:I:318:LEU:HB3	2.45	0.47
1:J:3:ILE:N	2:T:569:GLY:O	2.47	0.47
1:J:128:SER:HB3	1:J:133:TYR:CG	2.49	0.47
1:K:6:LYS:CB	2:S:565:GLN:HB3	2.45	0.47
1:K:127:THR:HG22	1:K:128:SER:N	2.29	0.47
2:L:86:TYR:CD2	2:L:291:GLY:O	2.68	0.47
2:L:206:GLU:O	2:L:209:LEU:HG	2.14	0.47
2:L:256:PHE:CG	2:L:257:HIS:N	2.82	0.47
2:M:113:LEU:HD12	2:M:114:GLU:N	2.29	0.47
2:N:413:ASN:O	2:N:414:LYS:HB2	2.14	0.47
2:P:111:GLN:HA	2:P:114:GLU:HB3	1.96	0.47
2:Q:122:ASP:OD1	2:Q:126:ASN:ND2	2.44	0.47
2:S:130:ASN:HA	2:S:133:LYS:HD2	1.96	0.47
2:T:85:GLU:O	2:T:292:GLN:NE2	2.48	0.47
2:T:304:TYR:HB2	2:T:311:TYR:CE1	2.49	0.47
2:T:377:TYR:O	2:T:448:LYS:N	2.35	0.47
2:T:388:THR:O	2:T:389:ILE:HD13	2.13	0.47
2:U:376:ILE:CD1	2:U:449:VAL:HG23	2.40	0.47
3:W:416:SER:HA	3:W:558:GLY:HA3	1.97	0.47
3:X:135:ASP:OD1	3:X:215:ASP:HB3	2.15	0.47
3:X:260:GLU:HG3	3:X:267:LYS:HE3	1.96	0.47
1:A:100:ASP:HB2	3:W:364:THR:HG23	1.96	0.47
1:B:2:ARG:NH1	2:N:30:ASN:O	2.48	0.47
1:B:735:LEU:O	1:B:739:THR:HG23	2.15	0.47
1:C:32:SER:OG	1:C:37:GLN:NE2	2.45	0.47
1:C:427:ASN:ND2	1:C:619:SER:OG	2.48	0.47
1:D:422:ASN:HB2	1:D:579:ASP:HB3	1.96	0.47
1:D:427:ASN:OD1	1:D:428:VAL:N	2.48	0.47
1:E:175:TRP:O	1:E:179:PHE:N	2.42	0.47
1:E:471:TYR:CE2	1:E:487:PRO:HG3	2.50	0.47
1:G:58:THR:HA	1:G:61:GLN:OE1	2.15	0.47
1:G:114:LEU:O	1:G:118:LYS:N	2.35	0.47
1:H:510:VAL:HG13	1:H:510:VAL:O	2.14	0.47
1:I:175:TRP:O	1:I:179:PHE:N	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:415:ASN:OD1	2:M:417:ASN:N	2.47	0.47
2:N:140:SER:O	2:N:143:LEU:N	2.47	0.47
2:O:38:ARG:CD	2:O:68:LEU:HD12	2.45	0.47
2:O:38:ARG:HD2	2:O:68:LEU:HD12	1.96	0.47
2:O:429:SER:N	2:O:438:LEU:O	2.44	0.47
2:P:11:VAL:HG11	2:U:574:GLU:HB3	1.97	0.47
2:Q:77:LEU:HB2	2:Q:564:TYR:OH	2.15	0.47
2:R:245:ILE:N	2:R:248:PHE:O	2.39	0.47
2:R:340:SER:O	2:R:450:ALA:HB1	2.14	0.47
2:R:342:ALA:HB3	2:R:494:ASN:HA	1.97	0.47
2:S:62:VAL:HG22	2:S:63:GLU:N	2.29	0.47
2:S:116:TYR:HE1	2:S:140:SER:OG	1.97	0.47
2:S:275:GLU:HG2	2:S:276:THR:O	2.15	0.47
2:U:239:HIS:N	2:U:240:GLN:OE1	2.46	0.47
2:U:421:ASP:O	2:U:424:ILE:HG12	2.14	0.47
3:W:421:TYR:HA	3:W:553:PRO:HA	1.95	0.47
3:X:57:LEU:HD21	3:X:571:THR:HG22	1.97	0.47
3:X:300:PHE:HB2	3:X:401:GLU:HG2	1.97	0.47
3:Y:354:LEU:O	3:Y:379:SER:CB	2.63	0.47
3:Z:47:GLN:O	3:Z:51:THR:HG23	2.14	0.47
3:Z:207:ASP:OD1	3:Z:209:ASN:OD1	2.33	0.47
1:A:181:ALA:HB1	1:A:629:PRO:HB3	1.96	0.47
1:A:193:VAL:HG22	1:A:653:SER:OG	2.14	0.47
1:A:484:TYR:O	1:A:494:ILE:N	2.48	0.47
1:B:476:ASN:OD1	1:B:479:THR:N	2.35	0.47
1:C:7:LEU:CA	2:M:565:GLN:HE22	2.28	0.47
1:D:2:ARG:NH2	1:D:3:ILE:HB	2.30	0.47
1:E:416:TYR:HD1	1:E:590:SER:OG	1.97	0.47
1:E:513:GLY:O	1:E:517:ILE:HG13	2.15	0.47
1:F:249:PRO:HD3	1:F:350:ASN:HA	1.96	0.47
1:H:265:LYS:N	1:H:611:GLN:O	2.46	0.47
1:H:591:LEU:HD12	1:H:592:SER:H	1.79	0.47
1:I:48:ASP:OD1	1:I:51:ARG:NH2	2.48	0.47
1:J:510:VAL:HG12	2:T:414:LYS:NZ	2.30	0.47
1:J:741:ILE:HA	1:J:744:LEU:HG	1.96	0.47
2:L:472:ASP:O	2:L:476:MET:HG3	2.15	0.47
2:M:175:ILE:O	2:M:179:ILE:HG22	2.14	0.47
2:M:218:VAL:HG12	2:M:244:SER:CB	2.44	0.47
2:O:245:ILE:HD13	2:O:250:ILE:CG1	2.45	0.47
2:S:113:LEU:O	2:S:117:ASN:N	2.33	0.47
2:U:328:LYS:O	2:U:331:ILE:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:259:LEU:CD1	2:V:288:ILE:HD11	2.45	0.47
2:V:413:ASN:O	2:V:414:LYS:HB3	2.14	0.47
3:Z:263:LEU:N	3:Z:266:ILE:O	2.38	0.47
1:A:324:ALA:O	1:A:392:THR:N	2.46	0.47
1:A:471:TYR:CE1	1:A:529:PHE:CE2	3.03	0.47
1:A:683:THR:HG22	1:C:112:LYS:HG3	1.97	0.47
1:C:287:TYR:HD2	1:C:296:VAL:HG11	1.79	0.47
1:D:57:LYS:HD2	2:Q:114:GLU:HB3	1.97	0.47
1:D:236:LYS:O	1:D:243:SER:OG	2.23	0.47
1:E:240:TYR:O	1:E:244:LYS:N	2.37	0.47
1:F:43:ALA:HA	1:F:46:TYR:HB3	1.97	0.47
1:G:54:TYR:HA	1:G:57:LYS:HE2	1.97	0.47
1:G:488:ASN:ND2	1:G:536:THR:HG22	2.29	0.47
1:G:519:TYR:HA	1:G:522:ILE:HD12	1.96	0.47
1:G:599:PHE:HB3	1:G:600:PRO:HD2	1.97	0.47
1:G:649:MET:SD	1:G:664:GLN:NE2	2.87	0.47
1:G:649:MET:HE1	3:Z:375:LYS:HE2	1.96	0.47
1:H:129:VAL:CG2	1:H:134:LEU:HD11	2.45	0.47
1:H:342:ALA:HB1	1:H:347:ILE:CG2	2.45	0.47
1:H:418:GLU:CD	1:H:619:SER:HG	2.18	0.47
1:H:501:THR:C	1:H:510:VAL:HG12	2.35	0.47
1:H:570:ASP:N	1:H:574:ARG:O	2.48	0.47
1:J:340:GLU:O	1:J:344:GLN:N	2.42	0.47
1:J:514:SER:O	1:J:517:ILE:HD12	2.15	0.47
1:J:565:VAL:O	1:J:580:LYS:NZ	2.48	0.47
1:J:651:ALA:HB3	1:J:661:THR:HG22	1.96	0.47
1:K:63:LYS:HZ3	1:K:699:SER:HA	1.80	0.47
1:K:298:VAL:HG22	1:K:308:ILE:HG12	1.95	0.47
1:K:465:SER:HB3	1:K:471:TYR:CE2	2.50	0.47
2:L:396:THR:O	2:L:400:ILE:HG12	2.13	0.47
2:L:453:ASP:OD1	2:L:454:LYS:N	2.48	0.47
2:L:532:TYR:CZ	2:L:536:THR:HG21	2.49	0.47
2:M:104:LEU:O	2:M:104:LEU:HG	2.14	0.47
2:M:161:VAL:O	2:M:164:ASP:OD1	2.33	0.47
2:M:165:ILE:O	2:M:169:VAL:HG23	2.15	0.47
2:M:182:ILE:HG21	2:M:203:ARG:NH2	2.25	0.47
2:M:357:ASP:N	2:M:357:ASP:OD1	2.45	0.47
2:M:582:TYR:HB2	2:R:599:MET:HE1	1.97	0.47
2:N:116:TYR:CE1	2:N:140:SER:OG	2.68	0.47
2:O:48:TYR:HE2	2:O:51:THR:HG1	1.58	0.47
2:O:65:ILE:HG22	2:O:66:VAL:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:186:ILE:HG22	2:O:187:TYR:CD2	2.49	0.47
2:O:375:VAL:HG22	2:O:385:LEU:O	2.15	0.47
2:P:42:VAL:O	2:P:63:GLU:N	2.41	0.47
2:P:183:ASN:HB2	2:P:253:GLY:O	2.15	0.47
2:Q:374:ILE:O	2:Q:386:THR:HA	2.15	0.47
2:R:409:ASP:OD1	2:R:410:ASP:N	2.48	0.47
2:T:96:GLU:O	2:T:100:ARG:NH1	2.47	0.47
2:T:215:VAL:HG22	2:T:216:SER:H	1.79	0.47
2:T:264:ASP:HB2	2:T:268:LYS:HA	1.96	0.47
2:U:120:TRP:CZ2	2:U:503:ALA:HA	2.50	0.47
2:U:180:ALA:HB1	2:U:255:ASN:N	2.30	0.47
2:U:269:SER:OG	2:U:311:TYR:OH	2.27	0.47
2:U:340:SER:O	2:U:450:ALA:HB1	2.15	0.47
2:U:504:ASN:HA	2:U:507:ILE:HD12	1.96	0.47
2:V:386:THR:N	2:V:410:ASP:OD2	2.43	0.47
3:W:288:LYS:HD2	3:W:289:THR:OG1	2.14	0.47
3:W:384:GLY:HA2	3:W:400:PHE:HD1	1.80	0.47
3:X:311:VAL:HG21	3:X:385:LEU:HD11	1.97	0.47
3:X:559:ILE:H	3:X:559:ILE:HD12	1.78	0.47
3:Y:53:ILE:HG23	3:Y:317:LEU:CD1	2.45	0.47
3:Y:127:ASN:ND2	3:Y:130:LEU:HD13	2.30	0.47
3:Y:261:PHE:O	3:Y:268:MET:SD	2.73	0.47
3:Z:137:THR:N	3:Z:202:TYR:O	2.42	0.47
3:Z:507:VAL:HG13	3:Z:519:ARG:O	2.15	0.47
1:B:182:ASP:HB2	1:B:629:PRO:O	2.13	0.47
1:B:376:VAL:HG12	1:B:387:ILE:HD12	1.96	0.47
1:D:218:TRP:CZ2	1:D:250:THR:OG1	2.62	0.47
1:D:269:LEU:HB2	1:D:606:THR:HA	1.97	0.47
1:F:431:VAL:HG12	1:F:436:ASN:HA	1.96	0.47
1:F:453:SER:O	1:F:455:ASN:N	2.47	0.47
1:G:2:ARG:CD	2:O:38:ARG:NH2	2.78	0.47
1:G:723:ASN:O	1:G:726:GLN:HG2	2.13	0.47
1:H:85:LYS:O	1:H:89:ASP:N	2.42	0.47
1:H:108:GLU:OE2	1:H:645:LEU:N	2.48	0.47
1:H:233:ASP:N	1:H:237:ASP:OD2	2.38	0.47
1:H:502:ASN:HA	1:H:503:PRO:HD3	1.85	0.47
1:H:509:GLY:CA	1:H:551:TYR:CD1	2.97	0.47
1:I:182:ASP:O	1:I:629:PRO:HB3	2.14	0.47
1:I:465:SER:O	1:I:468:GLY:N	2.43	0.47
1:J:565:VAL:HG12	1:J:566:ASP:N	2.30	0.47
1:K:62:VAL:O	1:K:66:THR:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:626:ILE:HG21	1:K:665:GLY:CA	2.45	0.47
2:L:377:TYR:HB2	2:L:448:LYS:HB2	1.95	0.47
2:M:272:ILE:O	2:M:285:THR:OG1	2.33	0.47
2:O:211:LEU:HD23	2:O:211:LEU:C	2.35	0.47
2:O:453:ASP:CG	2:O:456:THR:HG1	2.18	0.47
2:Q:44:THR:HG22	2:Q:45:THR:N	2.29	0.47
2:S:407:ASN:ND2	2:S:419:ASP:OD2	2.48	0.47
2:U:501:ASP:O	2:U:504:ASN:N	2.48	0.47
2:U:528:MET:N	2:U:528:MET:SD	2.88	0.47
2:V:113:LEU:HD12	2:V:114:GLU:N	2.29	0.47
3:W:9:LEU:HG	3:W:621:ASN:HA	1.95	0.47
3:W:604:THR:O	3:W:607:ASP:OD1	2.33	0.47
3:Y:366:ASP:OD2	3:Z:464:GLN:NE2	2.48	0.47
3:Y:623:LEU:O	3:Y:627:LEU:HD13	2.15	0.47
3:Z:138:PHE:CE1	3:Z:170:ILE:CD1	2.98	0.47
1:A:471:TYR:HB2	1:A:485:PRO:HG3	1.97	0.47
1:B:48:ASP:HA	2:N:533:ARG:HH12	1.80	0.47
1:B:159:ASN:HB3	1:B:167:GLU:HG2	1.97	0.47
1:B:528:MET:HG2	1:B:533:LYS:HB2	1.97	0.47
1:B:566:ASP:O	1:B:577:VAL:HG13	2.15	0.47
1:C:45:THR:O	1:C:48:ASP:OD1	2.33	0.47
1:C:63:LYS:NZ	1:C:698:THR:O	2.47	0.47
1:C:222:ILE:O	1:C:225:GLY:N	2.47	0.47
1:E:513:GLY:O	1:E:516:ASP:OD1	2.32	0.47
1:F:86:LEU:HD23	1:F:117:ILE:HG23	1.97	0.47
1:F:279:VAL:HG12	1:F:283:ILE:HD12	1.96	0.47
1:F:502:ASN:O	2:V:409:ASP:CB	2.63	0.47
1:G:4:THR:OG1	2:O:565:GLN:HB3	2.15	0.47
1:G:271:LYS:NZ	1:G:274:ASP:OD1	2.47	0.47
1:G:683:THR:HA	1:H:116:ARG:HH12	1.80	0.47
1:H:119:GLU:O	1:H:123:GLN:OE1	2.33	0.47
1:H:281:GLU:OE2	1:I:422:ASN:ND2	2.48	0.47
1:H:460:ASN:OD1	1:H:474:THR:HG23	2.15	0.47
1:I:56:ILE:HG23	1:I:57:LYS:N	2.30	0.47
1:I:552:THR:O	1:I:555:GLN:HB2	2.14	0.47
1:J:3:ILE:CG2	2:T:568:SER:HB2	2.44	0.47
1:J:188:GLN:HA	1:J:309:THR:HA	1.97	0.47
1:K:271:LYS:HB2	1:K:272:PRO:CD	2.45	0.47
2:M:274:TYR:O	2:M:282:ARG:HB2	2.15	0.47
2:N:327:ALA:HB1	2:N:476:MET:SD	2.55	0.47
2:N:600:LEU:HA	2:N:603:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:169:VAL:HA	2:O:172:ILE:HG22	1.97	0.47
2:O:228:ASN:OD1	2:O:228:ASN:O	2.33	0.47
2:O:360:LEU:HD13	2:O:391:ILE:HG23	1.97	0.47
2:O:513:LYS:O	2:O:525:ASN:ND2	2.48	0.47
2:P:39:GLN:N	2:P:39:GLN:OE1	2.47	0.47
2:Q:201:ARG:NH1	2:Q:223:GLU:OE1	2.47	0.47
2:R:462:PHE:HB2	2:R:464:ILE:HD11	1.97	0.47
2:R:480:ASP:O	2:R:484:ASN:ND2	2.47	0.47
2:R:516:PHE:O	2:R:524:ASP:OD1	2.33	0.47
2:R:520:ASP:OD1	2:R:522:THR:OG1	2.25	0.47
2:R:563:GLU:O	2:R:564:TYR:HB2	2.15	0.47
2:S:110:LEU:O	2:S:113:LEU:N	2.48	0.47
2:T:372:PHE:HB2	2:T:452:GLU:O	2.14	0.47
2:U:395:THR:HG23	2:U:399:ASP:HB2	1.97	0.47
2:U:578:ALA:O	2:U:581:GLN:HG3	2.15	0.47
3:X:512:GLN:OE1	3:X:519:ARG:NH1	2.48	0.47
3:Z:407:ASP:O	3:Z:411:THR:HG23	2.15	0.47
1:A:196:THR:HG21	1:A:209:THR:HG23	1.97	0.47
1:A:463:VAL:HG13	1:A:589:ILE:CD1	2.45	0.47
1:C:358:GLN:O	1:C:362:ALA:N	2.47	0.47
1:C:688:HIS:O	1:C:692:GLU:OE2	2.33	0.47
1:D:235:ASP:OD1	1:D:236:LYS:N	2.48	0.47
1:E:484:TYR:CE2	1:E:494:ILE:HD13	2.51	0.47
1:F:53:GLU:OE2	1:F:709:LYS:HE3	2.15	0.47
1:G:97:ALA:O	3:Z:374:THR:HG21	2.15	0.47
1:H:72:MET:HE2	1:H:134:LEU:HD13	1.96	0.47
1:H:180:LYS:HG2	1:H:181:ALA:H	1.80	0.47
1:H:424:VAL:HG13	1:H:577:VAL:HB	1.97	0.47
1:J:411:ASP:HA	1:J:414:ASN:HB3	1.97	0.47
1:J:512:THR:HG22	1:J:513:GLY:C	2.35	0.47
1:K:459:LEU:HD23	1:K:593:ASP:HB2	1.97	0.47
1:K:729:LEU:HD21	3:X:627:LEU:HG	1.97	0.47
2:L:3:ILE:HG23	2:L:4:PHE:H	1.79	0.47
2:L:28:ILE:HD12	2:L:577:ALA:CA	2.45	0.47
2:M:32:ASN:ND2	2:M:32:ASN:O	2.48	0.47
2:M:420:VAL:HG13	2:M:421:ASP:N	2.30	0.47
2:O:3:ILE:HD11	2:O:603:LEU:HD13	1.96	0.47
2:O:300:ARG:NE	2:O:301:GLY:O	2.47	0.47
2:O:453:ASP:OD1	2:O:456:THR:OG1	2.29	0.47
2:Q:462:PHE:CD2	2:Q:464:ILE:HD12	2.50	0.47
2:R:538:LYS:O	2:R:541:SER:OG	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:38:ARG:NH1	2:T:39:GLN:O	2.48	0.47
2:U:151:PHE:CG	2:U:474:SER:HA	2.50	0.47
2:U:317:GLN:NE2	2:U:321:ASP:OD1	2.34	0.47
2:V:335:ASN:OD1	2:V:467:PHE:N	2.48	0.47
3:X:24:LEU:O	3:X:28:GLU:OE1	2.33	0.47
3:X:144:GLU:HB2	3:X:212:TYR:OH	2.15	0.47
3:Y:478:LYS:O	3:Y:478:LYS:HD3	2.15	0.47
3:Z:173:LYS:O	3:Z:186:LEU:HD12	2.14	0.47
1:B:548:ASN:OD1	1:B:552:THR:OG1	2.33	0.46
1:E:151:TYR:CE1	1:E:174:GLY:HA3	2.50	0.46
1:F:271:LYS:HB2	1:F:274:ASP:OD1	2.14	0.46
1:F:445:LEU:N	1:F:517:ILE:O	2.48	0.46
1:F:571:TYR:OH	1:F:635:LYS:NZ	2.40	0.46
1:G:136:ALA:HB3	1:G:140:VAL:HA	1.95	0.46
1:H:83:MET:SD	1:H:124:LEU:HD13	2.55	0.46
1:H:128:SER:HA	1:H:133:TYR:HA	1.97	0.46
1:H:542:ASN:N	1:H:545:GLN:O	2.40	0.46
1:I:487:PRO:HG3	1:I:534:ILE:HG12	1.97	0.46
1:J:151:TYR:CE2	1:J:175:TRP:HD1	2.33	0.46
1:K:3:ILE:CA	2:S:565:GLN:N	2.78	0.46
1:K:503:PRO:HA	2:S:409:ASP:OD2	2.15	0.46
2:L:109:ILE:HG21	2:L:532:TYR:OH	2.15	0.46
2:L:364:ASP:OD1	2:L:365:ARG:N	2.48	0.46
2:M:40:ARG:HE	2:M:41:VAL:H	1.64	0.46
2:M:311:TYR:O	2:M:314:GLY:N	2.38	0.46
2:M:375:VAL:HG22	2:M:386:THR:HG23	1.97	0.46
2:N:245:ILE:HB	2:N:248:PHE:HB2	1.96	0.46
2:O:196:HIS:CE1	2:O:200:LEU:HD11	2.50	0.46
2:P:562:SER:O	2:P:564:TYR:N	2.48	0.46
2:Q:261:LEU:HA	2:Q:271:SER:O	2.15	0.46
2:R:229:ARG:O	2:R:231:ASP:N	2.48	0.46
2:S:2:GLY:O	2:S:6:THR:N	2.40	0.46
2:S:145:GLU:O	2:S:149:ASN:N	2.39	0.46
2:S:267:ASN:O	2:S:268:LYS:HB2	2.14	0.46
2:U:372:PHE:CZ	2:U:389:ILE:CG2	2.98	0.46
2:V:84:LEU:HD13	2:V:553:ASN:HB3	1.95	0.46
3:X:135:ASP:OD1	3:X:215:ASP:CB	2.63	0.46
3:Y:107:GLN:NE2	3:Y:260:GLU:HB2	2.31	0.46
3:Y:452:PHE:HB3	3:Y:469:SER:HB2	1.97	0.46
1:C:297:GLU:HB3	1:C:309:THR:OG1	2.14	0.46
1:E:30:LEU:HD21	1:E:720:ALA:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:398:LYS:HG3	1:E:398:LYS:O	2.14	0.46
1:E:508:SER:HB2	1:E:548:ASN:HA	1.96	0.46
1:E:565:VAL:HG12	1:E:566:ASP:N	2.29	0.46
1:F:323:VAL:HG23	1:F:392:THR:O	2.16	0.46
1:F:632:ASP:OD1	1:F:632:ASP:O	2.33	0.46
1:G:21:SER:O	1:G:25:GLN:N	2.39	0.46
1:G:67:SER:O	1:G:71:GLU:OE1	2.34	0.46
1:G:289:ASN:OD1	1:G:295:VAL:N	2.33	0.46
1:I:1:MET:CA	2:P:566:SER:O	2.62	0.46
1:I:2:ARG:CB	2:P:568:SER:C	2.84	0.46
1:I:178:PHE:HA	1:I:633:ILE:CD1	2.45	0.46
1:I:212:LEU:HD22	1:I:216:SER:OG	2.15	0.46
1:I:459:LEU:HG	1:I:593:ASP:HA	1.96	0.46
1:K:2:ARG:HD3	2:S:570:VAL:HA	1.97	0.46
1:K:96:GLN:OE1	1:K:96:GLN:N	2.45	0.46
2:L:288:ILE:HA	2:L:297:LEU:HD12	1.97	0.46
2:L:453:ASP:CG	2:L:456:THR:HG1	2.19	0.46
2:L:513:LYS:O	2:L:525:ASN:ND2	2.48	0.46
2:M:191:ALA:HB2	2:M:226:GLN:O	2.15	0.46
2:N:374:ILE:O	2:N:386:THR:HA	2.15	0.46
2:N:398:ASN:C	2:N:402:ARG:HE	2.18	0.46
2:N:531:TYR:O	2:N:534:LYS:HB3	2.14	0.46
2:N:589:ALA:O	2:N:592:ILE:HG22	2.15	0.46
2:O:51:THR:HG21	2:O:55:GLN:HB3	1.97	0.46
2:O:145:GLU:HA	2:O:148:ASN:OD1	2.14	0.46
2:P:516:PHE:CD2	2:P:526:LEU:HB2	2.49	0.46
2:Q:333:GLU:HG2	2:Q:334:THR:N	2.31	0.46
2:S:191:ALA:HA	2:S:235:THR:OG1	2.15	0.46
2:S:579:LEU:O	2:S:583:GLN:N	2.45	0.46
3:W:453:LYS:N	3:W:456:ASP:OD2	2.37	0.46
3:Y:107:GLN:NE2	3:Y:258:ASN:HB2	2.31	0.46
3:Y:110:GLN:HB2	3:Y:257:GLN:HG2	1.97	0.46
3:Y:462:ASN:N	3:Y:528:SER:OG	2.46	0.46
3:Z:525:ASP:O	3:Z:525:ASP:OD1	2.33	0.46
3:Z:539:LEU:O	3:Z:543:GLY:N	2.48	0.46
1:A:100:ASP:OD2	3:W:363:THR:O	2.33	0.46
1:B:112:LYS:HE2	1:K:683:THR:HA	1.98	0.46
1:C:2:ARG:HD2	2:M:571:ASN:HA	1.97	0.46
1:C:363:ALA:O	1:C:366:ASN:N	2.46	0.46
1:F:418:GLU:OE1	1:F:425:TYR:OH	2.33	0.46
1:F:528:MET:HE3	1:F:529:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:61:GLN:HG3	2:O:118:LYS:HD3	1.97	0.46
1:G:184:ASP:OD2	1:H:105:THR:HG21	2.15	0.46
1:H:367:GLY:CA	1:H:372:LEU:HA	2.45	0.46
1:H:445:LEU:O	1:H:447:GLU:N	2.48	0.46
1:H:528:MET:CE	1:H:557:LEU:HD22	2.44	0.46
1:I:2:ARG:O	2:P:569:GLY:CA	2.64	0.46
1:I:4:THR:CB	2:P:566:SER:HB3	2.45	0.46
1:J:13:VAL:HG22	2:P:577:ALA:HB1	1.97	0.46
1:J:93:LYS:HZ3	1:J:117:ILE:HD11	1.81	0.46
1:J:508:SER:HB3	1:J:548:ASN:CG	2.35	0.46
1:K:570:ASP:OD1	1:K:574:ARG:N	2.48	0.46
2:L:242:ASN:OD1	2:L:243:LEU:N	2.44	0.46
2:L:327:ALA:O	2:L:330:MET:HG2	2.15	0.46
2:M:71:GLU:OE1	2:M:75:TYR:CE1	2.68	0.46
2:M:375:VAL:CG1	2:M:383:LYS:HG2	2.46	0.46
2:O:351:LEU:HD11	2:O:439:PHE:CD1	2.50	0.46
2:Q:300:ARG:NH1	2:Q:311:TYR:HE2	2.13	0.46
2:R:515:ASN:HA	2:R:524:ASP:O	2.16	0.46
2:S:276:THR:OG1	2:S:278:ASP:OD1	2.32	0.46
2:S:563:GLU:O	2:S:564:TYR:CD1	2.67	0.46
2:T:215:VAL:HG13	2:T:216:SER:H	1.80	0.46
2:T:515:ASN:HA	2:T:525:ASN:HA	1.98	0.46
2:V:126:ASN:HB3	2:V:129:GLU:HB2	1.96	0.46
3:W:266:ILE:HG22	3:W:267:LYS:N	2.30	0.46
3:W:276:THR:HA	3:W:283:THR:HA	1.97	0.46
3:W:459:ILE:HG22	3:W:468:LEU:HD11	1.95	0.46
3:W:486:GLU:OE2	3:W:490:ASN:ND2	2.45	0.46
3:Y:111:LYS:HG3	3:Y:193:THR:HG22	1.97	0.46
3:Y:452:PHE:CE2	3:Y:477:PHE:HB3	2.50	0.46
1:A:151:TYR:CD2	1:A:175:TRP:HB2	2.50	0.46
1:B:448:VAL:O	1:B:448:VAL:HG12	2.14	0.46
1:B:591:LEU:HD23	1:B:618:PHE:CZ	2.51	0.46
1:C:210:LYS:O	1:C:210:LYS:HD3	2.15	0.46
1:C:338:ILE:HG23	1:C:380:ILE:HD13	1.98	0.46
1:D:57:LYS:HD2	2:Q:114:GLU:CB	2.46	0.46
1:D:370:THR:HA	1:D:599:PHE:CD1	2.50	0.46
1:E:457:THR:HG22	1:E:477:LEU:HD12	1.98	0.46
1:F:137:GLY:O	1:F:171:ASN:ND2	2.32	0.46
1:F:250:THR:HG23	1:F:326:THR:OG1	2.15	0.46
1:G:186:LYS:HG3	1:G:627:ASP:OD2	2.16	0.46
1:H:227:VAL:HG11	1:H:232:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:111:ALA:HB1	1:K:641:ILE:HD11	1.97	0.46
1:K:505:THR:O	1:K:507:ASN:N	2.48	0.46
2:L:44:THR:O	2:L:61:ALA:N	2.44	0.46
2:L:377:TYR:HD1	2:L:383:LYS:HA	1.80	0.46
2:M:192:LEU:O	2:M:225:ASN:ND2	2.48	0.46
2:N:184:LYS:HE3	2:N:243:LEU:HD13	1.97	0.46
2:N:516:PHE:N	2:N:524:ASP:O	2.44	0.46
2:O:347:THR:HG23	2:O:440:GLN:HB3	1.98	0.46
2:Q:177:GLU:O	2:Q:181:THR:HG23	2.16	0.46
2:Q:323:LEU:HA	2:Q:326:PHE:CD1	2.50	0.46
2:R:187:TYR:CZ	2:R:237:PRO:HB3	2.50	0.46
2:S:385:LEU:HD13	2:S:410:ASP:OD2	2.15	0.46
2:T:111:GLN:NE2	2:T:115:ASN:OD1	2.38	0.46
2:T:597:ASP:HA	2:T:600:LEU:HB3	1.97	0.46
2:U:304:TYR:HA	2:U:311:TYR:HD1	1.79	0.46
2:V:192:LEU:CB	2:V:197:ALA:HB1	2.45	0.46
2:V:193:PRO:O	2:V:197:ALA:HB2	2.16	0.46
3:W:600:ALA:O	3:W:603:ASP:OD1	2.33	0.46
3:X:18:GLN:O	3:X:21:ILE:HB	2.15	0.46
3:X:574:ASP:HA	3:X:579:LYS:HE3	1.98	0.46
3:Z:402:GLN:O	3:Z:406:GLU:HG3	2.15	0.46
1:A:140:VAL:O	1:A:140:VAL:CG1	2.63	0.46
1:A:188:GLN:O	1:A:625:THR:HG23	2.15	0.46
1:A:218:TRP:N	1:A:274:ASP:O	2.49	0.46
1:A:394:PHE:CB	1:A:395:ILE:HD12	2.44	0.46
1:A:471:TYR:CE1	1:A:529:PHE:HE2	2.33	0.46
1:B:260:ASP:OD1	1:B:261:GLY:N	2.49	0.46
1:B:361:THR:HG22	1:B:369:ILE:HG23	1.98	0.46
1:B:564:THR:O	1:B:564:THR:HG22	2.16	0.46
1:D:160:VAL:HG13	1:D:168:SER:OG	2.15	0.46
1:E:13:VAL:HG13	2:Q:574:GLU:HB2	1.97	0.46
1:E:641:ILE:HD12	1:E:641:ILE:H	1.81	0.46
1:F:500:HIS:ND1	1:F:512:THR:HG23	2.31	0.46
1:F:566:ASP:HB3	1:F:578:THR:HB	1.97	0.46
1:G:473:VAL:HG22	1:G:529:PHE:CZ	2.51	0.46
1:H:418:GLU:O	1:H:424:VAL:HG23	2.15	0.46
1:H:566:ASP:O	1:H:577:VAL:HG13	2.16	0.46
1:I:412:TYR:HA	1:I:621:ASN:HB3	1.98	0.46
1:J:229:ASP:OD1	1:J:229:ASP:N	2.48	0.46
1:K:2:ARG:O	2:S:565:GLN:HA	2.16	0.46
1:K:269:LEU:HG	1:K:604:PHE:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:593:ASP:OD1	1:K:594:SER:N	2.49	0.46
1:K:634:ILE:H	1:K:634:ILE:HD12	1.81	0.46
2:L:421:ASP:OD1	2:L:422:ASP:N	2.49	0.46
2:N:62:VAL:HG12	2:N:63:GLU:N	2.30	0.46
2:N:283:ASP:OD1	2:N:284:LEU:N	2.49	0.46
2:P:51:THR:CB	2:T:64:SER:HB3	2.45	0.46
2:P:400:ILE:HD13	2:P:403:GLN:OE1	2.16	0.46
2:Q:15:LYS:O	2:Q:19:VAL:HG23	2.15	0.46
2:Q:325:THR:HG23	2:Q:518:ASN:HA	1.96	0.46
2:Q:411:ASN:OD1	2:Q:413:ASN:HB2	2.15	0.46
2:R:275:GLU:OE2	2:R:276:THR:O	2.34	0.46
2:R:294:GLY:O	2:R:298:ASP:OD1	2.34	0.46
2:R:491:ALA:N	2:R:497:ASP:OD1	2.49	0.46
2:T:352:SER:CA	2:T:436:ASP:OD1	2.64	0.46
2:T:588:ALA:O	2:T:591:LYS:N	2.49	0.46
2:U:408:THR:CG2	2:U:409:ASP:N	2.78	0.46
2:V:395:THR:HG22	2:V:396:THR:N	2.30	0.46
3:W:158:LEU:HD11	3:W:222:PHE:CE1	2.51	0.46
3:X:115:GLN:HA	3:X:187:THR:HA	1.96	0.46
3:X:217:ASN:OD1	3:X:220:LYS:HE3	2.16	0.46
1:B:39:SER:N	2:N:104:LEU:HD11	2.31	0.46
1:B:299:SER:OG	1:B:307:GLN:NE2	2.44	0.46
1:B:436:ASN:OD1	1:B:436:ASN:O	2.33	0.46
1:B:599:PHE:HB3	1:B:600:PRO:CD	2.46	0.46
1:C:448:VAL:HG12	1:C:448:VAL:O	2.15	0.46
1:C:494:ILE:HG22	1:C:496:PHE:CE1	2.51	0.46
1:D:471:TYR:CZ	1:D:532:ASP:HA	2.51	0.46
1:E:631:VAL:HG11	1:E:673:LEU:HD21	1.96	0.46
1:F:107:ARG:NH2	1:F:645:LEU:O	2.39	0.46
1:F:159:ASN:H	2:V:500:ASN:ND2	2.14	0.46
1:F:640:MET:HG2	1:F:662:GLY:CA	2.45	0.46
1:G:352:VAL:HG13	1:G:380:ILE:HD11	1.97	0.46
1:G:355:ARG:NH1	1:G:380:ILE:HD13	2.30	0.46
1:H:47:ILE:HD12	1:H:47:ILE:H	1.80	0.46
1:K:80:LEU:O	1:K:83:MET:HB2	2.16	0.46
1:K:193:VAL:HG22	1:K:653:SER:OG	2.15	0.46
1:K:213:THR:HA	1:K:300:MET:CE	2.46	0.46
1:K:571:TYR:CD2	1:K:572:LYS:HG3	2.50	0.46
2:L:44:THR:HG22	2:L:45:THR:N	2.31	0.46
2:L:273:TYR:HB3	2:L:281:VAL:CG2	2.46	0.46
2:M:40:ARG:HE	2:M:41:VAL:N	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:469:SER:O	2:M:477:LYS:N	2.47	0.46
2:N:464:ILE:HG22	2:N:465:GLY:H	1.79	0.46
2:O:297:LEU:HD21	2:O:302:ARG:HG2	1.97	0.46
2:O:373:ASP:N	2:O:452:GLU:O	2.43	0.46
2:P:42:VAL:HB	2:P:63:GLU:HB3	1.97	0.46
2:P:255:ASN:OD1	2:P:256:PHE:N	2.48	0.46
2:Q:333:GLU:O	2:Q:337:LEU:HG	2.16	0.46
2:Q:418:ASP:O	2:Q:418:ASP:OD1	2.34	0.46
2:R:190:GLU:O	2:R:235:THR:OG1	2.27	0.46
2:R:356:GLY:N	2:R:428:PHE:CZ	2.83	0.46
2:R:377:TYR:O	2:R:448:LYS:N	2.31	0.46
2:T:215:VAL:HG13	2:T:216:SER:N	2.31	0.46
2:T:299:LEU:HD23	2:T:315:ILE:HB	1.98	0.46
2:T:385:LEU:O	2:T:386:THR:OG1	2.31	0.46
2:V:85:GLU:HA	2:V:88:LYS:HB3	1.98	0.46
2:V:120:TRP:CH2	2:V:506:ILE:HD12	2.51	0.46
3:X:136:LEU:HD23	3:X:218:ALA:HB1	1.97	0.46
3:Y:275:VAL:N	3:Y:284:LEU:O	2.39	0.46
3:Z:231:VAL:O	3:Z:231:VAL:HG12	2.15	0.46
1:B:73:THR:HG22	1:B:684:MET:HE1	1.98	0.46
1:E:1:MET:SD	2:L:566:SER:CB	3.03	0.46
1:E:207:ASP:OD1	1:E:207:ASP:N	2.49	0.46
1:E:321:HIS:ND1	1:E:621:ASN:O	2.49	0.46
1:E:602:PRO:HB2	1:E:603:PRO:HA	1.98	0.46
1:F:500:HIS:CD2	2:V:413:ASN:O	2.69	0.46
1:G:524:ASP:OD1	1:G:562:GLN:NE2	2.40	0.46
1:G:719:GLU:OE2	1:G:723:ASN:OD1	2.34	0.46
1:H:35:LYS:NZ	1:H:711:ASN:O	2.49	0.46
1:H:90:PHE:CE2	1:H:117:ILE:HG22	2.50	0.46
1:H:310:ASP:OD2	1:H:315:ASN:ND2	2.39	0.46
1:H:417:PHE:CD1	1:H:619:SER:HB3	2.51	0.46
1:H:602:PRO:HA	1:H:603:PRO:O	2.15	0.46
1:H:743:GLN:O	1:H:747:LEU:HD13	2.16	0.46
1:I:321:HIS:CE1	1:I:412:TYR:CD1	3.03	0.46
1:J:710:SER:OG	3:Y:622:LYS:NZ	2.49	0.46
1:K:86:LEU:HD21	1:K:117:ILE:HG22	1.98	0.46
2:L:241:TYR:O	2:L:242:ASN:HB2	2.16	0.46
2:L:344:SER:HA	2:L:448:LYS:HA	1.98	0.46
2:L:411:ASN:ND2	2:L:418:ASP:O	2.49	0.46
2:M:43:GLN:HA	2:M:62:VAL:HA	1.98	0.46
2:M:353:GLY:N	2:M:435:GLY:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:400:ILE:HG22	2:O:404:ILE:HD12	1.98	0.46
2:P:133:LYS:O	2:P:137:VAL:HG23	2.15	0.46
2:P:507:ILE:O	2:P:510:GLN:HB3	2.16	0.46
2:P:565:GLN:OE1	2:P:570:VAL:O	2.34	0.46
2:Q:84:LEU:HG	2:Q:88:LYS:HZ2	1.79	0.46
2:Q:411:ASN:O	2:Q:412:ASP:OD1	2.34	0.46
2:T:218:VAL:O	2:T:243:LEU:HA	2.16	0.46
2:U:531:TYR:CE2	2:U:535:LEU:HD22	2.51	0.46
2:U:607:LYS:HA	2:U:607:LYS:HE3	1.98	0.46
2:V:515:ASN:HA	2:V:525:ASN:HA	1.97	0.46
3:W:87:PRO:HB3	3:W:290:GLY:C	2.36	0.46
3:X:194:GLY:HA3	3:X:271:SER:O	2.15	0.46
3:X:462:ASN:HA	3:X:528:SER:OG	2.15	0.46
3:Z:122:ASP:HB3	3:Z:184:TYR:HB3	1.97	0.46
1:B:697:ARG:HA	1:B:700:PHE:CE2	2.51	0.46
1:C:89:ASP:OD1	1:C:93:LYS:NZ	2.40	0.46
1:C:310:ASP:OD2	1:C:315:ASN:ND2	2.42	0.46
1:C:399:MET:O	1:C:407:ALA:N	2.44	0.46
1:C:451:GLY:N	1:C:615:ASN:HA	2.31	0.46
1:C:587:ILE:CG2	1:C:589:ILE:HD11	2.46	0.46
1:D:4:THR:HB	1:D:8:ASN:OD1	2.16	0.46
1:D:46:TYR:O	1:D:50:THR:HG23	2.15	0.46
1:D:254:VAL:HG13	1:D:320:PHE:CZ	2.51	0.46
1:D:502:ASN:HB3	1:D:510:VAL:HB	1.98	0.46
1:D:593:ASP:N	1:D:596:SER:O	2.48	0.46
1:E:258:LYS:HB3	1:E:259:PRO:HD2	1.98	0.46
1:F:62:VAL:CG1	1:F:698:THR:HG21	2.45	0.46
1:G:302:ASP:OD1	1:G:302:ASP:N	2.49	0.46
1:H:258:LYS:NZ	1:H:262:THR:HG23	2.31	0.46
1:H:532:ASP:O	1:H:533:LYS:HD2	2.15	0.46
1:I:4:THR:H	2:P:566:SER:HB3	1.81	0.46
1:J:227:VAL:HG23	1:J:230:ASN:HA	1.97	0.46
1:K:256:GLY:O	1:K:264:PHE:N	2.40	0.46
2:L:334:THR:HB	2:L:468:PHE:CE2	2.50	0.46
2:M:82:ASN:ND2	2:M:212:SER:O	2.49	0.46
2:M:224:ILE:HG22	2:M:225:ASN:N	2.31	0.46
2:M:469:SER:HB2	2:M:477:LYS:HE3	1.96	0.46
2:N:182:ILE:HD12	2:N:207:LEU:HD21	1.97	0.46
2:N:354:LEU:HD23	2:N:355:LYS:N	2.30	0.46
2:N:507:ILE:O	2:N:510:GLN:HG2	2.16	0.46
2:O:276:THR:HG23	2:O:280:LYS:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:257:HIS:HB3	2:P:258:PRO:HD2	1.98	0.46
2:Q:329:THR:HG21	2:Q:516:PHE:HD1	1.81	0.46
2:Q:401:MET:HA	2:Q:404:ILE:HD12	1.98	0.46
2:Q:601:ASP:O	2:Q:604:LEU:HB3	2.16	0.46
2:R:165:ILE:HD12	2:R:165:ILE:H	1.81	0.46
2:S:140:SER:HB3	2:S:478:VAL:CG2	2.46	0.46
2:T:86:TYR:CD1	2:T:295:ALA:HB2	2.51	0.46
2:U:347:THR:CG2	2:U:348:SER:N	2.78	0.46
2:V:81:SER:O	2:V:85:GLU:HG2	2.15	0.46
3:Y:329:SER:HA	3:Y:334:LYS:HA	1.98	0.46
3:Y:453:LYS:HE2	3:Y:456:ASP:O	2.15	0.46
3:Z:80:GLY:HA2	3:Z:294:PHE:HD1	1.81	0.46
1:A:484:TYR:CZ	1:A:494:ILE:HB	2.51	0.46
1:B:192:ASN:O	1:B:305:GLN:NE2	2.49	0.46
1:B:227:VAL:HG11	1:B:232:LEU:HG	1.98	0.46
1:B:455:ASN:N	1:B:478:GLN:OE1	2.48	0.46
1:C:209:THR:HG22	1:C:210:LYS:N	2.31	0.46
1:C:688:HIS:NE2	1:C:692:GLU:OE1	2.49	0.46
1:D:219:GLN:NE2	1:D:273:GLU:OE2	2.49	0.46
1:D:228:LYS:HG3	1:D:328:GLN:NE2	2.30	0.46
1:E:159:ASN:HA	1:E:169:PRO:HA	1.98	0.46
1:E:412:TYR:O	1:E:621:ASN:N	2.39	0.46
1:E:631:VAL:CG2	1:E:673:LEU:HD21	2.46	0.46
1:E:631:VAL:HB	1:E:669:ARG:NH2	2.31	0.46
1:G:64:GLU:CD	1:G:68:ARG:HE	2.19	0.46
1:G:207:ASP:OD1	1:G:207:ASP:N	2.48	0.46
1:I:310:ASP:OD2	1:I:315:ASN:ND2	2.49	0.46
1:J:227:VAL:HB	1:J:229:ASP:OD1	2.16	0.46
1:J:442:SER:OG	2:T:410:ASP:O	2.34	0.46
1:K:1:MET:HB3	2:S:571:ASN:HB3	1.97	0.46
1:K:371:LYS:HG3	1:K:410:ALA:HB1	1.98	0.46
2:M:144:THR:HG21	2:M:477:LYS:HA	1.97	0.46
2:M:175:ILE:HD12	2:M:175:ILE:H	1.81	0.46
2:M:272:ILE:HG22	2:M:284:LEU:CB	2.42	0.46
2:M:406:ALA:O	2:M:420:VAL:HG12	2.16	0.46
2:O:72:TYR:HA	2:O:75:TYR:HB3	1.97	0.46
2:O:237:PRO:O	2:O:240:GLN:NE2	2.49	0.46
2:O:557:TYR:HA	2:O:560:VAL:HG12	1.96	0.46
2:P:54:VAL:HG22	2:T:201:ARG:HH22	1.80	0.46
2:P:273:TYR:CD2	2:P:283:ASP:HB2	2.51	0.46
2:Q:71:GLU:OE2	2:Q:78:LYS:NZ	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:93:THR:O	2:Q:97:ILE:N	2.41	0.46
2:Q:165:ILE:O	2:Q:168:THR:HB	2.16	0.46
2:R:215:VAL:HG22	2:R:216:SER:N	2.29	0.46
2:S:341:SER:HB2	2:S:502:MET:SD	2.55	0.46
2:S:524:ASP:O	2:S:524:ASP:OD1	2.34	0.46
2:T:129:GLU:HG3	2:T:132:THR:HG23	1.98	0.46
2:U:73:SER:O	2:U:76:LYS:HB2	2.15	0.46
2:V:37:THR:HG21	2:V:68:LEU:O	2.16	0.46
2:V:103:ASP:O	2:V:105:GLN:N	2.46	0.46
2:V:133:LYS:O	2:V:137:VAL:N	2.42	0.46
3:W:602:ILE:CG2	3:W:606:TYR:HE2	2.29	0.46
1:A:500:HIS:O	1:A:510:VAL:N	2.38	0.46
1:B:227:VAL:HG23	1:B:230:ASN:HA	1.98	0.46
1:B:407:ALA:CB	1:B:415:VAL:HG12	2.46	0.46
1:B:418:GLU:O	1:B:424:VAL:HA	2.15	0.46
1:B:519:TYR:HA	1:B:522:ILE:HD12	1.98	0.46
1:C:6:LYS:HD3	2:M:565:GLN:NE2	2.30	0.46
1:C:77:MET:O	1:C:80:LEU:N	2.49	0.46
1:C:431:VAL:HG12	1:C:436:ASN:HA	1.98	0.46
1:C:548:ASN:OD1	1:C:552:THR:OG1	2.34	0.46
1:D:542:ASN:N	1:D:545:GLN:O	2.49	0.46
1:E:21:SER:O	1:E:24:TYR:HB3	2.16	0.46
1:E:218:TRP:CZ2	1:E:250:THR:HG21	2.51	0.46
1:H:248:PRO:HD3	1:H:335:LEU:HD21	1.98	0.46
1:H:269:LEU:HG	1:H:604:PHE:O	2.15	0.46
1:I:179:PHE:HA	1:I:631:VAL:O	2.16	0.46
1:J:36:ILE:HB	1:J:41:GLU:OE1	2.16	0.46
1:J:528:MET:SD	1:J:529:PHE:CD1	3.09	0.46
1:K:395:ILE:HG21	1:K:622:ASN:O	2.15	0.46
2:L:342:ALA:HB2	2:L:377:TYR:CE2	2.51	0.46
2:M:263:TYR:HA	2:M:270:TYR:HA	1.98	0.46
2:N:326:PHE:CD1	2:N:531:TYR:CG	3.04	0.46
2:N:515:ASN:OD1	2:N:524:ASP:N	2.49	0.46
2:O:83:GLN:O	2:O:86:TYR:HB3	2.15	0.46
2:P:56:VAL:CG1	2:T:195:GLU:HB2	2.35	0.46
2:P:187:TYR:HB3	2:P:192:LEU:HD12	1.98	0.46
2:P:373:ASP:OD1	2:P:388:THR:OG1	2.19	0.46
2:Q:263:TYR:CG	2:Q:268:LYS:HA	2.51	0.46
2:S:172:ILE:HA	2:S:175:ILE:HB	1.98	0.46
2:S:396:THR:OG1	2:S:399:ASP:OD2	2.27	0.46
2:T:373:ASP:OD2	2:T:386:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:523:ILE:HG22	2:U:524:ASP:N	2.31	0.46
2:V:216:SER:HB3	2:V:245:ILE:HG23	1.98	0.46
3:W:52:GLU:O	3:W:56:LYS:NZ	2.48	0.46
3:W:313:ALA:O	3:W:316:ASP:OD1	2.34	0.46
3:X:58:LEU:O	3:X:62:THR:N	2.38	0.46
3:X:104:ASN:OD1	3:X:262:THR:HG23	2.16	0.46
3:Z:32:ARG:HE	3:Z:598:THR:HG21	1.81	0.46
3:Z:86:PRO:O	3:Z:287:ASN:HB2	2.16	0.46
1:C:114:LEU:HA	1:C:117:ILE:HD12	1.98	0.45
1:C:377:THR:HA	1:C:385:PHE:O	2.17	0.45
1:D:112:LYS:HD3	1:D:115:GLU:OE1	2.17	0.45
1:E:25:GLN:HA	1:E:28:GLN:OE1	2.15	0.45
1:E:229:ASP:OD2	1:E:332:LYS:N	2.44	0.45
1:G:413:ASP:N	1:G:413:ASP:OD1	2.47	0.45
1:G:432:ILE:N	1:G:437:ALA:O	2.44	0.45
1:H:269:LEU:HD21	1:H:354:ASN:OD1	2.17	0.45
1:H:735:LEU:O	1:H:739:THR:HG23	2.16	0.45
1:I:2:ARG:O	2:P:564:TYR:O	2.33	0.45
1:I:104:GLN:O	1:I:108:GLU:OE1	2.34	0.45
1:I:189:ILE:HD13	1:I:318:LEU:HD22	1.98	0.45
1:J:151:TYR:CZ	1:J:153:GLY:HA3	2.50	0.45
1:K:136:ALA:HB1	1:K:153:GLY:HA3	1.97	0.45
1:K:401:ASP:OD1	1:K:403:ASP:OD1	2.34	0.45
1:K:599:PHE:HB3	1:K:600:PRO:CD	2.45	0.45
2:M:180:ALA:O	2:M:183:ASN:HB3	2.16	0.45
2:M:230:LEU:HD23	2:M:232:THR:H	1.80	0.45
2:M:467:PHE:O	2:M:479:LYS:N	2.48	0.45
2:P:119:ALA:HB3	2:P:136:LEU:HD13	1.99	0.45
2:P:256:PHE:CD1	2:P:257:HIS:N	2.84	0.45
2:Q:259:LEU:HA	2:Q:274:TYR:OH	2.16	0.45
2:Q:265:ASP:HB3	2:Q:269:SER:H	1.81	0.45
2:R:9:THR:HG23	2:R:58:THR:O	2.16	0.45
2:R:105:GLN:O	2:R:106:ASN:HB2	2.15	0.45
2:R:184:LYS:HG2	2:R:254:ILE:HB	1.96	0.45
2:S:267:ASN:OD1	2:S:267:ASN:C	2.55	0.45
2:T:257:HIS:HB3	2:T:258:PRO:HD2	1.98	0.45
2:T:303:ASN:O	2:T:311:TYR:HA	2.16	0.45
2:U:211:LEU:O	2:U:215:VAL:N	2.46	0.45
2:U:591:LYS:HG2	2:U:592:ILE:N	2.31	0.45
2:V:596:VAL:O	2:V:600:LEU:N	2.43	0.45
3:X:92:VAL:HG12	3:X:282:MET:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:353:ASP:HB3	3:Y:563:LEU:HB2	1.98	0.45
3:Y:538:ILE:O	3:Y:541:GLU:HB2	2.16	0.45
1:A:25:GLN:HA	1:A:28:GLN:NE2	2.32	0.45
1:A:126:ASN:OD1	1:A:145:PHE:N	2.46	0.45
1:B:554:ILE:HD12	1:B:554:ILE:H	1.81	0.45
1:C:378:VAL:O	1:C:384:GLN:HA	2.16	0.45
1:C:560:ASP:O	1:C:564:THR:HG23	2.15	0.45
1:F:129:VAL:O	1:F:132:GLN:OE1	2.35	0.45
1:G:108:GLU:OE1	1:G:112:LYS:NZ	2.49	0.45
1:G:341:ALA:HB1	1:G:380:ILE:HG22	1.97	0.45
1:G:463:VAL:HG12	1:G:529:PHE:CZ	2.50	0.45
1:H:375:PRO:HB3	1:H:388:ASP:HA	1.98	0.45
1:H:484:TYR:O	1:H:494:ILE:N	2.48	0.45
1:H:539:ILE:HG22	1:H:540:GLN:N	2.31	0.45
1:I:119:GLU:O	1:I:122:VAL:N	2.49	0.45
1:K:255:GLN:HA	1:K:265:LYS:HA	1.98	0.45
1:K:300:MET:HA	1:K:306:ILE:HA	1.97	0.45
1:K:399:MET:HE3	1:K:416:TYR:HB2	1.97	0.45
1:K:465:SER:O	1:K:468:GLY:N	2.44	0.45
1:K:500:HIS:ND1	1:K:511:VAL:O	2.44	0.45
1:K:739:THR:O	1:K:743:GLN:OE1	2.34	0.45
2:L:377:TYR:CD1	2:L:383:LYS:HA	2.50	0.45
2:M:40:ARG:HH21	2:M:41:VAL:HG22	1.80	0.45
2:M:330:MET:HG3	2:M:528:MET:HE3	1.99	0.45
2:M:400:ILE:H	2:M:400:ILE:HD12	1.81	0.45
2:N:177:GLU:O	2:N:181:THR:N	2.39	0.45
2:O:85:GLU:HB3	2:O:292:GLN:NE2	2.31	0.45
2:P:485:ASP:OD2	2:P:487:SER:OG	2.34	0.45
2:Q:171:GLU:HG2	2:Q:175:ILE:HD12	1.98	0.45
2:Q:194:THR:HG23	2:Q:195:GLU:N	2.31	0.45
2:S:51:THR:CB	2:S:56:VAL:HG23	2.47	0.45
2:T:72:TYR:HA	2:T:75:TYR:CZ	2.52	0.45
2:T:305:SER:O	2:T:309:GLY:N	2.48	0.45
2:U:74:TYR:N	2:U:564:TYR:OH	2.50	0.45
2:U:107:THR:O	2:U:108:GLY:C	2.55	0.45
2:V:49:ILE:HG22	2:V:50:THR:N	2.31	0.45
2:V:104:LEU:HB3	2:V:107:THR:HA	1.98	0.45
3:X:45:THR:HG22	3:X:49:ASP:OD2	2.16	0.45
3:X:233:ALA:HB3	3:X:244:TYR:CD1	2.51	0.45
3:Y:101:MET:SD	3:Y:294:PHE:HB2	2.57	0.45
3:Y:134:ALA:HB3	3:Y:221:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:507:VAL:HG22	3:Z:520:LEU:HG	1.97	0.45
1:A:21:SER:C	1:A:25:GLN:OE1	2.54	0.45
1:A:435:SER:O	1:A:436:ASN:HB2	2.16	0.45
1:A:570:ASP:OD2	1:A:574:ARG:NH1	2.49	0.45
1:B:408:ASN:OD1	1:B:411:ASP:N	2.45	0.45
1:C:128:SER:HB3	1:C:133:TYR:CE1	2.51	0.45
1:C:719:GLU:O	1:C:722:MET:HB2	2.16	0.45
1:D:56:ILE:HD12	1:D:709:LYS:HE3	1.97	0.45
1:E:402:THR:HG23	1:E:415:VAL:N	2.32	0.45
1:F:528:MET:CE	1:F:529:PHE:CE1	2.99	0.45
1:H:501:THR:HG22	1:H:502:ASN:ND2	2.31	0.45
1:I:92:VAL:HG22	3:Y:351:LEU:HD11	1.98	0.45
1:I:281:GLU:O	1:I:285:ALA:N	2.37	0.45
1:I:290:THR:N	1:I:293:ASN:O	2.41	0.45
1:I:499:MET:HB3	2:P:414:LYS:HE3	1.98	0.45
1:I:501:THR:HG22	1:I:521:GLN:OE1	2.16	0.45
1:J:367:GLY:O	1:J:372:LEU:HA	2.16	0.45
1:K:381:ASN:O	1:K:382:ASN:C	2.54	0.45
1:K:546:ILE:HD11	1:K:551:TYR:HA	1.99	0.45
2:L:128:ASN:OD1	2:L:128:ASN:N	2.49	0.45
2:M:276:THR:OG1	2:M:280:LYS:O	2.29	0.45
2:N:334:THR:HB	2:N:468:PHE:HE2	1.81	0.45
2:O:3:ILE:HG21	2:O:600:LEU:HD21	1.98	0.45
2:O:157:ILE:O	2:O:160:LYS:N	2.50	0.45
2:O:243:LEU:CB	2:O:251:VAL:HB	2.46	0.45
2:P:35:PHE:N	2:P:564:TYR:OH	2.49	0.45
2:P:51:THR:O	2:T:194:THR:N	2.41	0.45
2:P:571:ASN:O	2:P:575:GLU:HG2	2.17	0.45
2:Q:79:GLY:O	2:Q:83:GLN:OE1	2.34	0.45
2:R:361:VAL:CG2	2:R:393:VAL:O	2.64	0.45
2:S:259:LEU:HD23	2:S:274:TYR:CG	2.52	0.45
2:S:262:ASP:N	2:S:271:SER:O	2.44	0.45
2:S:556:LEU:HD12	2:S:557:TYR:N	2.30	0.45
2:T:145:GLU:O	2:T:149:ASN:N	2.38	0.45
2:U:65:ILE:CB	2:U:195:GLU:HG3	2.47	0.45
2:U:148:ASN:O	2:U:151:PHE:HB3	2.16	0.45
2:U:335:ASN:O	2:U:339:ALA:N	2.46	0.45
3:W:140:SER:HB3	3:W:143:LYS:CG	2.46	0.45
3:W:200:SER:HA	3:W:244:TYR:O	2.16	0.45
3:X:171:VAL:N	3:X:189:THR:O	2.40	0.45
3:Y:119:LEU:HB2	3:Y:184:TYR:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:421:TYR:CG	3:Y:527:SER:HA	2.51	0.45
1:A:729:LEU:HG	3:W:627:LEU:HD13	1.98	0.45
1:B:87:LEU:HD22	1:B:677:VAL:CG1	2.47	0.45
1:B:157:ASN:OD1	1:B:171:ASN:HB3	2.17	0.45
1:B:627:ASP:OD1	1:B:628:GLU:N	2.50	0.45
1:D:252:LEU:HD12	1:D:323:VAL:O	2.17	0.45
1:D:328:GLN:OE1	1:D:388:ASP:HB2	2.16	0.45
1:D:533:LYS:O	1:D:534:ILE:HG23	2.16	0.45
1:D:643:ALA:HB1	1:D:648:ASN:HB3	1.98	0.45
1:E:250:THR:HG23	1:E:325:PHE:O	2.17	0.45
1:E:494:ILE:HG22	1:E:495:SER:N	2.32	0.45
1:F:13:VAL:HG11	2:L:575:GLU:HG3	1.97	0.45
1:F:23:LEU:CD2	1:F:727:VAL:HG23	2.47	0.45
1:F:245:LEU:HD22	1:F:339:ILE:CD1	2.46	0.45
1:F:623:SER:O	1:F:659:ARG:NH1	2.49	0.45
1:G:469:ASN:HB2	1:G:471:TYR:CE1	2.51	0.45
1:H:195:PHE:O	1:H:211:TYR:CD2	2.70	0.45
1:H:441:ASP:HA	1:H:519:TYR:HB2	1.97	0.45
1:I:49:ASN:OD1	1:I:709:LYS:NZ	2.31	0.45
1:I:61:GLN:HG3	2:P:118:LYS:HD2	1.99	0.45
1:J:158:ILE:HG22	1:J:171:ASN:HB2	1.95	0.45
1:J:201:ASP:O	1:J:204:LYS:N	2.49	0.45
1:K:226:TYR:CE1	1:K:248:PRO:HD2	2.51	0.45
2:L:42:VAL:HG12	2:L:43:GLN:N	2.31	0.45
2:O:551:SER:O	2:O:554:GLU:HG3	2.17	0.45
2:P:124:ALA:HB2	2:P:503:ALA:CB	2.45	0.45
2:R:201:ARG:O	2:R:205:ASP:N	2.43	0.45
2:R:305:SER:OG	2:R:308:GLU:HB2	2.16	0.45
2:U:95:GLN:O	2:U:99:GLN:N	2.46	0.45
2:V:480:ASP:OD1	2:V:484:ASN:ND2	2.50	0.45
2:V:518:ASN:OD1	2:V:531:TYR:OH	2.17	0.45
3:X:96:VAL:HG12	3:X:97:ALA:N	2.32	0.45
3:X:429:GLU:HG3	3:X:543:GLY:CA	2.46	0.45
3:X:460:VAL:HG22	3:X:465:THR:OG1	2.17	0.45
3:X:564:LYS:HG3	3:X:568:GLN:OE1	2.16	0.45
3:X:568:GLN:O	3:X:572:GLY:HA3	2.17	0.45
3:Y:521:ASN:OD1	3:Y:522:PHE:N	2.49	0.45
3:Z:68:ALA:HB1	3:Z:561:SER:HA	1.99	0.45
3:Z:526:GLY:O	3:Z:551:SER:OG	2.34	0.45
1:B:209:THR:O	1:B:210:LYS:C	2.55	0.45
1:D:6:LYS:HB2	2:Q:570:VAL:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:85:LYS:O	1:D:88:GLU:HG2	2.16	0.45
1:D:542:ASN:O	1:D:543:ASN:OD1	2.34	0.45
1:F:498:ILE:HD12	1:F:517:ILE:HD13	1.98	0.45
1:H:91:LYS:HE2	1:H:91:LYS:HA	1.98	0.45
1:H:484:TYR:CE1	1:H:494:ILE:CG2	2.99	0.45
1:H:547:ASN:OD1	1:H:548:ASN:N	2.50	0.45
1:I:138:SER:HA	1:I:158:ILE:HG12	1.99	0.45
1:J:36:ILE:HD11	1:J:45:THR:HG21	1.99	0.45
1:J:93:LYS:HB3	1:J:110:ILE:CG2	2.45	0.45
1:K:2:ARG:O	2:S:564:TYR:O	2.35	0.45
1:K:57:LYS:NZ	2:S:529:GLU:OE1	2.43	0.45
1:K:60:GLU:HA	1:K:63:LYS:HD2	1.98	0.45
1:K:84:VAL:O	1:K:88:GLU:N	2.36	0.45
2:M:116:TYR:O	2:M:120:TRP:N	2.45	0.45
2:M:439:PHE:CD2	2:M:441:ILE:HD11	2.51	0.45
2:M:579:LEU:O	2:M:583:GLN:OE1	2.35	0.45
2:N:86:TYR:CD2	2:N:291:GLY:O	2.70	0.45
2:N:485:ASP:O	2:N:485:ASP:OD1	2.33	0.45
2:O:48:TYR:CD2	2:O:49:ILE:O	2.69	0.45
2:O:561:TYR:O	2:O:565:GLN:HG2	2.15	0.45
2:P:116:TYR:C	2:P:116:TYR:CD1	2.89	0.45
2:P:140:SER:OG	2:P:141:GLN:N	2.49	0.45
2:P:531:TYR:CD1	2:P:534:LYS:HE2	2.51	0.45
2:Q:107:THR:O	2:Q:109:ILE:N	2.49	0.45
2:Q:264:ASP:OD2	2:Q:306:LYS:HD2	2.16	0.45
2:R:102:PRO:HG2	2:R:107:THR:HG21	1.97	0.45
2:S:77:LEU:HB2	2:S:564:TYR:CE2	2.52	0.45
2:T:302:ARG:N	2:T:313:ASP:OD1	2.41	0.45
2:V:375:VAL:HG22	2:V:386:THR:CG2	2.45	0.45
3:X:115:GLN:HG2	3:X:251:LEU:HA	1.99	0.45
1:A:206:PRO:O	3:W:371:LYS:NZ	2.48	0.45
1:B:487:PRO:CD	1:B:494:ILE:HD12	2.47	0.45
1:B:678:SER:HA	1:B:681:ASN:HD22	1.82	0.45
1:C:86:LEU:HD23	1:C:121:ILE:HG13	1.97	0.45
1:C:138:SER:N	1:C:154:ASP:OD2	2.49	0.45
1:C:198:ASN:HB3	1:C:221:LEU:O	2.17	0.45
1:C:408:ASN:N	1:C:411:ASP:OD2	2.47	0.45
1:C:445:LEU:HA	1:C:519:TYR:CE1	2.52	0.45
1:C:460:ASN:CG	1:C:592:SER:HG	2.06	0.45
1:D:1:MET:SD	1:D:8:ASN:ND2	2.90	0.45
1:G:523:ASN:HA	1:G:526:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:202:LEU:HA	1:H:205:ASP:H	1.82	0.45
1:H:719:GLU:OE1	1:I:13:VAL:HG13	2.15	0.45
1:I:250:THR:O	1:I:270:VAL:N	2.44	0.45
1:I:631:VAL:CG1	1:I:633:ILE:CG1	2.94	0.45
1:J:128:SER:HB3	1:J:133:TYR:CD1	2.51	0.45
1:J:550:ASP:O	1:J:554:ILE:N	2.36	0.45
1:K:178:PHE:O	1:K:179:PHE:HD1	1.99	0.45
2:M:531:TYR:CD1	2:M:534:LYS:HE3	2.52	0.45
2:Q:538:LYS:NZ	2:Q:542:ASP:OD1	2.45	0.45
2:U:41:VAL:HA	2:U:64:SER:O	2.16	0.45
3:W:397:SER:O	3:W:398:SER:C	2.55	0.45
3:X:26:GLU:O	3:X:30:LYS:HG2	2.15	0.45
3:Y:371:LYS:O	3:Y:372:VAL:HG13	2.17	0.45
3:Y:505:VAL:HA	3:Y:522:PHE:HA	1.99	0.45
1:B:257:THR:HG22	1:B:319:ASP:HB3	1.98	0.45
1:C:138:SER:HB3	1:C:158:ILE:HG23	1.99	0.45
1:C:441:ASP:OD1	1:C:569:MET:HG2	2.17	0.45
1:D:143:LYS:O	1:D:152:TYR:HB2	2.17	0.45
1:D:435:SER:O	1:D:436:ASN:HB2	2.16	0.45
1:F:23:LEU:HD23	1:F:724:LEU:CD1	2.47	0.45
1:G:500:HIS:HB2	2:O:414:LYS:HB3	1.99	0.45
1:G:591:LEU:HD12	1:G:592:SER:H	1.82	0.45
1:J:412:TYR:O	1:J:620:ALA:HA	2.16	0.45
1:J:483:SER:HB2	1:J:493:THR:HG22	1.98	0.45
1:J:502:ASN:HB2	2:T:416:SER:O	2.17	0.45
1:K:177:LEU:HD13	1:K:680:LEU:CD1	2.47	0.45
1:K:250:THR:HG21	1:K:324:ALA:HB1	1.97	0.45
1:K:459:LEU:HD23	1:K:593:ASP:OD2	2.16	0.45
2:L:28:ILE:HD12	2:L:577:ALA:HA	1.97	0.45
2:L:168:THR:HG21	2:L:296:GLN:HE22	1.80	0.45
2:M:411:ASN:OD1	2:M:413:ASN:OD1	2.35	0.45
2:O:51:THR:HG21	2:O:55:GLN:HB2	1.98	0.45
2:O:264:ASP:OD2	2:O:269:SER:OG	2.21	0.45
2:O:349:ASP:OD2	2:O:463:SER:HB3	2.17	0.45
2:P:54:VAL:HG23	2:T:194:THR:HA	1.98	0.45
2:R:297:LEU:O	2:R:301:GLY:N	2.31	0.45
2:S:31:ALA:HA	2:S:570:VAL:CG1	2.45	0.45
2:T:168:THR:O	2:T:169:VAL:C	2.55	0.45
2:T:334:THR:HB	2:T:468:PHE:CE1	2.51	0.45
2:T:485:ASP:OD2	2:T:488:THR:HG23	2.17	0.45
2:T:564:TYR:HD1	2:T:567:LYS:HZ3	1.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:300:ARG:O	2:U:311:TYR:HD2	1.99	0.45
2:U:551:SER:O	2:U:554:GLU:HG3	2.17	0.45
3:Y:277:ASP:OD1	3:Y:277:ASP:N	2.50	0.45
3:Z:53:ILE:O	3:Z:57:LEU:N	2.46	0.45
3:Z:139:PHE:CZ	3:Z:237:PRO:HB3	2.52	0.45
1:A:509:GLY:O	1:A:545:GLN:NE2	2.50	0.45
1:B:482:VAL:HG23	1:B:498:ILE:HD11	1.98	0.45
1:B:571:TYR:OH	1:B:574:ARG:NH2	2.44	0.45
1:D:299:SER:O	1:D:307:GLN:NE2	2.50	0.45
1:E:7:LEU:CD1	1:E:11:ASN:ND2	2.76	0.45
1:E:323:VAL:HG23	1:E:392:THR:O	2.16	0.45
1:F:105:THR:HA	1:F:108:GLU:OE1	2.17	0.45
1:F:508:SER:HB3	2:V:415:ASN:HA	1.99	0.45
1:F:688:HIS:NE2	1:F:692:GLU:OE1	2.50	0.45
1:G:748:ASN:O	1:G:749:TYR:CD1	2.70	0.45
1:H:484:TYR:HB2	1:H:485:PRO:HD2	1.99	0.45
1:J:83:MET:HE1	1:J:86:LEU:HD13	1.99	0.45
1:J:326:THR:O	1:J:390:LYS:N	2.50	0.45
1:J:464:ASN:HA	1:J:470:SER:HA	1.98	0.45
1:K:321:HIS:ND1	1:K:621:ASN:O	2.49	0.45
2:M:571:ASN:O	2:M:572:THR:CG2	2.56	0.45
2:N:5:GLY:HA2	2:N:8:TYR:CE2	2.51	0.45
2:N:587:GLY:HA3	2:S:606:LEU:HD22	1.98	0.45
2:O:604:LEU:HG	2:O:608:SER:OG	2.16	0.45
2:P:222:ASN:HB2	2:P:239:HIS:NE2	2.32	0.45
2:R:302:ARG:N	2:R:313:ASP:OD2	2.50	0.45
2:S:38:ARG:NH2	2:S:574:GLU:OE2	2.47	0.45
2:T:18:GLU:HB2	2:T:586:TYR:CE1	2.52	0.45
2:T:35:PHE:CE2	2:T:203:ARG:N	2.85	0.45
2:T:259:LEU:HD23	2:T:274:TYR:CD1	2.51	0.45
2:T:387:LYS:HE3	2:T:420:VAL:HB	1.97	0.45
2:T:390:THR:C	2:T:391:ILE:HD12	2.36	0.45
2:T:427:SER:HB3	2:T:440:GLN:HB2	1.98	0.45
2:U:357:ASP:OD1	2:U:358:ILE:HD12	2.16	0.45
2:V:192:LEU:HB3	2:V:197:ALA:CB	2.46	0.45
2:V:387:LYS:HB2	2:V:420:VAL:HG21	1.97	0.45
3:W:415:PHE:HD1	3:W:560:PHE:CD2	2.35	0.45
3:W:495:ILE:HG21	3:W:505:VAL:HG21	1.99	0.45
3:W:559:ILE:HG23	3:W:560:PHE:CD1	2.52	0.45
3:X:424:ILE:HG13	3:X:526:GLY:HA2	1.99	0.45
3:Y:28:GLU:OE2	3:Y:606:TYR:OH	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:377:MET:O	3:Y:378:LEU:HB2	2.17	0.45
3:Z:495:ILE:HG21	3:Z:505:VAL:HG21	1.98	0.45
1:A:38:ASN:O	1:A:46:TYR:CE2	2.70	0.45
1:B:300:MET:SD	1:B:301:ASN:O	2.75	0.45
1:C:289:ASN:OD1	1:C:295:VAL:N	2.49	0.45
1:D:6:LYS:HB2	2:Q:570:VAL:HG13	1.99	0.45
1:E:56:ILE:HG22	1:E:60:GLU:OE2	2.17	0.45
1:F:281:GLU:HB3	1:G:583:SER:HA	1.99	0.45
1:G:463:VAL:O	1:G:471:TYR:N	2.47	0.45
1:G:480:SER:O	1:G:498:ILE:HD12	2.17	0.45
1:I:157:ASN:OD1	1:I:173:PRO:HD3	2.16	0.45
1:J:136:ALA:HB3	1:J:139:GLN:O	2.16	0.45
1:J:363:ALA:HB3	1:J:366:ASN:OD1	2.17	0.45
1:K:6:LYS:HA	2:S:571:ASN:ND2	2.32	0.45
1:K:226:TYR:CZ	1:K:247:PHE:CB	3.00	0.45
1:K:255:GLN:HA	1:K:264:PHE:O	2.17	0.45
1:K:631:VAL:HG13	1:K:673:LEU:HD21	1.99	0.45
1:K:722:MET:HB3	3:X:620:LEU:HD22	1.99	0.45
2:L:182:ILE:HA	2:L:200:LEU:HB3	1.99	0.45
2:M:203:ARG:O	2:M:207:LEU:N	2.47	0.45
2:M:373:ASP:N	2:M:452:GLU:O	2.33	0.45
2:M:526:LEU:HG	2:M:530:GLU:OE1	2.17	0.45
2:M:552:SER:HA	2:Q:203:ARG:NE	2.31	0.45
2:N:69:HIS:CG	2:N:70:ASP:N	2.85	0.45
2:N:195:GLU:O	2:N:198:ASN:HB2	2.17	0.45
2:O:348:SER:CA	2:O:464:ILE:HG23	2.47	0.45
2:P:73:SER:HA	2:P:76:LYS:HG2	1.99	0.45
2:P:76:LYS:HD2	2:T:156:LYS:NZ	2.31	0.45
2:R:453:ASP:OD1	2:R:454:LYS:N	2.50	0.45
2:R:507:ILE:O	2:R:510:GLN:HG2	2.17	0.45
2:S:375:VAL:HG12	2:S:377:TYR:CE1	2.52	0.45
2:T:305:SER:N	2:T:312:GLU:OE1	2.49	0.45
2:U:558:ASN:HA	2:U:561:TYR:CD2	2.52	0.45
3:X:202:TYR:CG	3:X:203:ALA:N	2.85	0.45
3:X:311:VAL:CG2	3:X:385:LEU:HD11	2.46	0.45
3:X:330:GLU:OE2	3:X:331:THR:HG23	2.17	0.45
3:X:415:PHE:HA	3:X:560:PHE:HD2	1.81	0.45
3:X:579:LYS:HE2	3:X:579:LYS:HA	1.99	0.45
3:Y:41:GLU:O	3:Y:45:THR:N	2.38	0.45
3:Y:134:ALA:CB	3:Y:221:ILE:HD12	2.47	0.45
3:Y:203:ALA:HB1	3:Y:218:ALA:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:82:ILE:O	3:Z:292:ILE:HD11	2.17	0.45
1:A:529:PHE:CD1	1:A:534:ILE:HG21	2.52	0.45
1:A:553:GLN:NE2	1:A:554:ILE:HG13	2.32	0.45
1:B:321:HIS:CD2	1:B:395:ILE:HB	2.52	0.45
1:B:342:ALA:O	1:B:346:GLY:N	2.50	0.45
1:B:399:MET:O	1:B:407:ALA:N	2.37	0.45
1:B:423:THR:HG23	1:B:577:VAL:O	2.16	0.45
1:B:466:LYS:N	1:B:587:ILE:HD11	2.31	0.45
1:B:476:ASN:O	1:B:480:SER:N	2.50	0.45
1:C:501:THR:OG1	1:C:503:PRO:HD3	2.17	0.45
1:C:676:HIS:CE1	1:C:680:LEU:HD11	2.51	0.45
1:D:345:GLU:OE1	1:D:381:ASN:HA	2.17	0.45
1:D:499:MET:SD	1:D:510:VAL:C	2.95	0.45
1:E:192:ASN:OD1	1:E:193:VAL:N	2.50	0.45
1:F:56:ILE:O	1:F:60:GLU:HG2	2.17	0.45
1:G:4:THR:CA	2:O:565:GLN:HB3	2.47	0.45
1:G:694:VAL:O	1:G:698:THR:OG1	2.26	0.45
1:H:69:ALA:O	1:H:73:THR:N	2.39	0.45
1:H:254:VAL:HB	1:H:266:SER:HB2	1.99	0.45
1:I:223:GLY:O	1:I:232:LEU:HD12	2.17	0.45
1:I:450:ALA:N	1:I:615:ASN:OD1	2.50	0.45
1:J:36:ILE:HD11	1:J:45:THR:CG2	2.47	0.45
1:J:226:TYR:CD1	1:J:326:THR:HG23	2.52	0.45
1:K:5:ASN:H	2:S:566:SER:HB2	1.81	0.45
1:K:6:LYS:HG3	1:K:9:PHE:CE2	2.52	0.45
1:K:137:GLY:CA	1:K:173:PRO:HB3	2.47	0.45
2:L:172:ILE:HD12	2:L:214:LEU:HG	1.99	0.45
2:L:573:ASN:N	2:L:573:ASN:OD1	2.49	0.45
2:M:160:LYS:HE3	2:R:72:TYR:CD2	2.52	0.45
2:M:346:VAL:HG23	2:M:441:ILE:HB	1.98	0.45
2:N:102:PRO:O	2:N:103:ASP:CB	2.65	0.45
2:O:42:VAL:HG12	2:O:43:GLN:N	2.32	0.45
2:O:72:TYR:CE2	2:U:160:LYS:HE3	2.51	0.45
2:O:173:ASN:O	2:O:177:GLU:OE1	2.35	0.45
2:O:342:ALA:N	2:O:493:SER:O	2.49	0.45
2:O:472:ASP:N	2:O:475:ASP:OD1	2.46	0.45
2:P:56:VAL:HG12	2:P:57:GLY:N	2.32	0.45
2:Q:84:LEU:HD22	2:Q:557:TYR:CE2	2.52	0.45
2:Q:387:LYS:HA	2:Q:387:LYS:HE2	1.99	0.45
2:R:74:TYR:N	2:R:564:TYR:OH	2.50	0.45
2:R:220:SER:OG	2:R:241:TYR:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:299:LEU:HD13	2:R:315:ILE:HB	1.99	0.45
2:R:376:ILE:HG13	2:R:420:VAL:HG12	1.99	0.45
2:S:494:ASN:OD1	2:S:496:VAL:O	2.35	0.45
2:T:39:GLN:HA	2:T:67:ARG:HA	1.99	0.45
2:U:159:LYS:O	2:U:162:ASN:HB3	2.16	0.45
2:U:372:PHE:CE2	2:U:389:ILE:HB	2.52	0.45
2:V:373:ASP:OD1	2:V:388:THR:OG1	2.29	0.45
3:W:69:ASP:C	3:W:69:ASP:OD1	2.55	0.45
3:W:101:MET:O	3:W:294:PHE:N	2.50	0.45
3:W:370:ASN:O	3:W:371:LYS:HD3	2.17	0.45
3:W:547:VAL:HG22	3:W:548:ASN:N	2.32	0.45
3:X:67:LEU:O	3:X:70:ALA:HB3	2.17	0.45
3:X:101:MET:SD	3:X:101:MET:N	2.89	0.45
3:X:441:ASN:N	3:X:481:GLY:O	2.39	0.45
3:Y:53:ILE:HD12	3:Y:53:ILE:H	1.82	0.45
3:Z:237:PRO:O	3:Z:241:LYS:N	2.50	0.45
3:Z:422:GLU:OE1	3:Z:422:GLU:N	2.50	0.45
1:C:64:GLU:OE1	1:C:68:ARG:NE	2.49	0.44
1:C:418:GLU:HB3	1:C:425:TYR:CZ	2.52	0.44
1:C:566:ASP:OD1	1:C:567:VAL:N	2.49	0.44
1:D:91:LYS:O	1:D:94:VAL:N	2.50	0.44
1:D:443:THR:HG22	1:D:444:LYS:H	1.83	0.44
1:D:494:ILE:CD1	1:D:536:THR:HA	2.47	0.44
1:D:622:ASN:OD1	1:D:659:ARG:NH2	2.40	0.44
1:E:176:ASP:O	1:E:180:LYS:HG2	2.17	0.44
1:E:422:ASN:N	1:E:583:SER:O	2.50	0.44
1:F:159:ASN:O	2:V:504:ASN:ND2	2.49	0.44
1:F:463:VAL:HG22	1:F:589:ILE:HD12	1.99	0.44
1:G:104:GLN:NE2	1:G:108:GLU:OE2	2.50	0.44
1:H:300:MET:HA	1:H:306:ILE:HA	1.99	0.44
1:I:332:LYS:O	1:I:335:LEU:HB3	2.17	0.44
1:I:466:LYS:HB3	1:I:587:ILE:HD11	1.98	0.44
1:J:517:ILE:HD12	1:J:517:ILE:H	1.82	0.44
1:K:500:HIS:CG	1:K:501:THR:N	2.85	0.44
2:L:190:GLU:O	2:L:192:LEU:N	2.50	0.44
2:L:334:THR:HB	2:L:468:PHE:HE2	1.83	0.44
2:L:373:ASP:N	2:L:452:GLU:O	2.39	0.44
2:N:138:LYS:HE3	2:S:542:ASP:HA	2.00	0.44
2:N:265:ASP:O	2:N:268:LYS:CG	2.65	0.44
2:N:377:TYR:CE1	2:N:383:LYS:HA	2.52	0.44
2:O:43:GLN:OE1	2:U:34:THR:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:360:LEU:C	2:O:367:ILE:HG21	2.38	0.44
2:O:480:ASP:O	2:O:483:LEU:N	2.50	0.44
2:P:84:LEU:HA	2:P:553:ASN:ND2	2.32	0.44
2:Q:160:LYS:NZ	2:Q:164:ASP:OD1	2.44	0.44
2:Q:202:ASP:O	2:Q:206:GLU:OE1	2.35	0.44
2:Q:275:GLU:OE2	2:Q:281:VAL:HG22	2.16	0.44
2:Q:368:GLN:HB3	2:Q:369:PRO:HD2	1.99	0.44
2:R:120:TRP:HE3	2:R:136:LEU:HD21	1.82	0.44
2:R:337:LEU:O	2:R:340:SER:OG	2.32	0.44
2:R:342:ALA:HB1	2:R:448:LYS:HB3	1.98	0.44
2:S:7:LEU:HD11	2:S:593:VAL:HG13	1.99	0.44
2:S:153:THR:HG23	2:S:156:LYS:HE3	2.00	0.44
2:S:203:ARG:HD2	2:S:206:GLU:OE2	2.18	0.44
2:T:161:VAL:O	2:T:165:ILE:HD12	2.17	0.44
2:T:210:THR:O	2:T:213:LYS:HB2	2.16	0.44
2:U:69:HIS:CG	2:U:70:ASP:N	2.84	0.44
2:V:68:LEU:CD1	2:V:567:LYS:O	2.66	0.44
2:V:193:PRO:O	2:V:197:ALA:CB	2.65	0.44
3:X:170:ILE:HG23	3:X:189:THR:O	2.17	0.44
3:Y:301:GLU:HG2	3:Y:302:GLY:N	2.32	0.44
1:A:233:ASP:O	1:A:238:PHE:CD2	2.70	0.44
1:A:500:HIS:O	1:A:510:VAL:O	2.35	0.44
1:B:80:LEU:HD12	1:B:684:MET:HG2	2.00	0.44
1:B:133:TYR:O	1:B:140:VAL:HB	2.17	0.44
1:C:379:THR:OG1	1:C:382:ASN:HA	2.16	0.44
1:C:633:ILE:O	1:C:636:ASP:HB2	2.17	0.44
1:D:222:ILE:O	1:D:226:TYR:N	2.47	0.44
1:D:353:THR:HA	1:D:356:VAL:HG12	2.00	0.44
1:E:749:TYR:HB3	2:L:577:ALA:HB1	1.98	0.44
1:F:3:ILE:HB	2:V:565:GLN:O	2.17	0.44
1:F:235:ASP:O	1:F:239:GLU:N	2.44	0.44
1:G:143:LYS:O	1:G:152:TYR:HB2	2.17	0.44
1:G:749:TYR:OH	2:O:572:THR:HG21	2.18	0.44
1:H:526:ILE:HD12	1:H:567:VAL:HG11	1.99	0.44
1:I:49:ASN:O	1:I:53:GLU:OE1	2.35	0.44
1:K:449:MET:SD	1:K:515:ASN:ND2	2.90	0.44
1:K:502:ASN:O	2:S:414:LYS:HE2	2.18	0.44
2:L:101:PHE:CZ	2:L:150:THR:HA	2.52	0.44
2:M:34:THR:HG23	2:M:35:PHE:CD2	2.52	0.44
2:M:162:ASN:O	2:M:166:LYS:HG3	2.17	0.44
2:N:27:ASN:ND2	2:N:575:GLU:OE2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:74:TYR:HA	2:N:564:TYR:OH	2.17	0.44
2:N:259:LEU:HG	2:N:284:LEU:HD11	1.98	0.44
2:N:606:LEU:C	2:N:606:LEU:HD23	2.37	0.44
2:O:243:LEU:HB3	2:O:251:VAL:CB	2.45	0.44
2:P:3:ILE:H	2:P:3:ILE:HD12	1.81	0.44
2:Q:164:ASP:O	2:Q:167:ASN:HB2	2.17	0.44
2:Q:261:LEU:C	2:Q:261:LEU:HD23	2.37	0.44
2:R:11:VAL:HG13	2:R:12:THR:N	2.32	0.44
2:S:389:ILE:HG22	2:S:390:THR:N	2.33	0.44
2:S:526:LEU:HD21	2:S:534:LYS:CD	2.47	0.44
2:T:337:LEU:O	2:T:337:LEU:HD23	2.17	0.44
2:T:516:PHE:O	2:T:524:ASP:N	2.47	0.44
2:V:133:LYS:O	2:V:137:VAL:HG23	2.17	0.44
2:V:434:THR:OG1	2:V:436:ASP:O	2.35	0.44
3:W:384:GLY:HA2	3:W:400:PHE:CD1	2.52	0.44
3:X:64:VAL:HA	3:X:67:LEU:HD12	1.99	0.44
3:Z:201:PHE:N	3:Z:201:PHE:CD1	2.85	0.44
1:A:68:ARG:O	1:A:71:GLU:HG3	2.18	0.44
1:A:128:SER:HB3	1:A:133:TYR:CG	2.53	0.44
1:A:531:ALA:O	1:A:532:ASP:OD1	2.36	0.44
1:B:1:MET:HG2	2:R:15:LYS:CE	2.47	0.44
1:B:571:TYR:CE2	1:B:572:LYS:HG2	2.52	0.44
1:C:64:GLU:OE1	1:C:68:ARG:NH2	2.49	0.44
1:D:407:ALA:HB2	1:D:415:VAL:HG12	1.99	0.44
1:D:463:VAL:HB	1:D:471:TYR:O	2.17	0.44
1:E:459:LEU:HD23	1:E:593:ASP:HA	2.00	0.44
1:G:3:ILE:HG12	2:O:568:SER:HB3	1.98	0.44
1:G:527:GLY:O	1:G:531:ALA:HB2	2.16	0.44
1:H:379:THR:HA	1:H:384:GLN:HA	2.00	0.44
1:I:719:GLU:OE2	1:I:723:ASN:ND2	2.48	0.44
1:J:245:LEU:HD23	1:J:339:ILE:CD1	2.47	0.44
1:J:277:GLU:HG2	1:J:278:ASP:N	2.32	0.44
1:K:6:LYS:HB2	2:S:570:VAL:O	2.18	0.44
1:K:7:LEU:O	1:K:10:THR:N	2.50	0.44
1:K:160:VAL:HG13	1:K:168:SER:OG	2.18	0.44
1:K:218:TRP:CE2	1:K:222:ILE:HD11	2.52	0.44
2:L:554:GLU:HA	2:L:557:TYR:HB3	2.00	0.44
2:M:408:THR:H	2:M:419:ASP:CG	2.21	0.44
2:N:261:LEU:HG	2:N:271:SER:O	2.17	0.44
2:O:151:PHE:CD2	2:O:474:SER:N	2.85	0.44
2:O:157:ILE:O	2:O:160:LYS:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:45:THR:HG22	2:P:59:GLY:O	2.17	0.44
2:P:56:VAL:HG23	2:T:193:PRO:O	2.16	0.44
2:P:106:ASN:HA	2:P:109:ILE:HG22	1.99	0.44
2:P:223:GLU:O	2:P:224:ILE:HG23	2.17	0.44
2:P:278:ASP:O	2:P:279:GLU:HG3	2.17	0.44
2:P:328:LYS:NZ	2:P:517:TYR:HB2	2.32	0.44
2:Q:266:LYS:N	2:Q:266:LYS:HD2	2.31	0.44
2:S:46:ASN:O	2:S:58:THR:OG1	2.35	0.44
2:S:91:ALA:O	2:S:95:GLN:OE1	2.36	0.44
2:S:408:THR:N	2:S:421:ASP:OD2	2.49	0.44
2:S:527:THR:OG1	2:S:530:GLU:HB2	2.18	0.44
2:T:223:GLU:OE1	2:T:223:GLU:N	2.49	0.44
2:T:275:GLU:HG2	2:T:281:VAL:HG13	1.99	0.44
2:T:334:THR:HG22	2:T:467:PHE:HB2	1.98	0.44
2:U:376:ILE:HG12	2:U:385:LEU:HD12	1.99	0.44
2:U:492:SER:HG	2:U:494:ASN:CG	2.15	0.44
2:U:520:ASP:OD1	2:U:521:GLY:N	2.50	0.44
2:V:114:GLU:OE1	2:V:114:GLU:HA	2.18	0.44
3:W:29:GLN:O	3:W:33:ILE:HG12	2.17	0.44
3:W:72:VAL:HG11	3:W:303:VAL:HG23	1.98	0.44
3:W:510:TYR:N	3:W:517:GLY:O	2.51	0.44
3:Z:470:LYS:HA	3:Z:476:ASN:HA	1.99	0.44
1:A:461:LEU:HD23	1:A:591:LEU:HD12	1.99	0.44
1:B:354:ASN:O	1:B:358:GLN:HB2	2.17	0.44
1:B:485:PRO:O	1:B:487:PRO:HD3	2.18	0.44
1:B:743:GLN:HA	1:B:746:LEU:HB3	2.00	0.44
1:C:222:ILE:O	1:C:222:ILE:HG22	2.17	0.44
1:C:528:MET:CE	1:C:533:LYS:HB2	2.46	0.44
1:D:298:VAL:HG22	1:D:308:ILE:HD12	1.99	0.44
1:D:448:VAL:O	1:D:448:VAL:HG12	2.17	0.44
1:E:77:MET:SD	1:E:684:MET:HG3	2.57	0.44
1:F:54:TYR:O	1:F:58:THR:HG23	2.17	0.44
1:F:108:GLU:O	1:F:112:LYS:N	2.44	0.44
1:F:143:LYS:NZ	1:F:145:PHE:O	2.35	0.44
1:F:624:LEU:O	1:F:625:THR:OG1	2.35	0.44
1:G:103:SER:O	1:G:107:ARG:N	2.41	0.44
1:G:324:ALA:O	1:G:392:THR:N	2.46	0.44
1:H:207:ASP:N	1:H:207:ASP:OD1	2.50	0.44
1:H:602:PRO:HB3	1:H:604:PHE:CZ	2.52	0.44
1:I:5:ASN:H	2:P:566:SER:CB	2.31	0.44
1:I:51:ARG:HG3	2:P:533:ARG:NH2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:54:TYR:O	1:I:58:THR:HG23	2.17	0.44
1:I:68:ARG:NH2	2:P:121:ASN:OD1	2.50	0.44
1:I:90:PHE:CZ	1:I:121:ILE:CD1	3.00	0.44
1:I:438:TYR:CD1	1:I:573:GLY:HA3	2.52	0.44
1:J:420:ASN:O	1:J:423:THR:N	2.47	0.44
1:J:435:SER:O	1:J:436:ASN:HB2	2.18	0.44
1:J:511:VAL:HG22	1:J:512:THR:N	2.29	0.44
2:L:272:ILE:HG22	2:L:284:LEU:CB	2.48	0.44
2:L:331:ILE:CD1	2:L:476:MET:SD	3.06	0.44
2:L:469:SER:O	2:L:476:MET:HA	2.17	0.44
2:L:480:ASP:O	2:L:484:ASN:N	2.48	0.44
2:L:480:ASP:O	2:L:483:LEU:N	2.50	0.44
2:M:378:ASP:O	2:M:448:LYS:HG3	2.17	0.44
2:N:28:ILE:HA	2:N:572:THR:HB	2.00	0.44
2:N:224:ILE:HG22	2:N:225:ASN:N	2.32	0.44
2:O:7:LEU:O	2:O:11:VAL:N	2.39	0.44
2:O:224:ILE:HG21	2:O:240:GLN:HG2	1.99	0.44
2:Q:560:VAL:O	2:Q:563:GLU:HB3	2.18	0.44
2:R:453:ASP:CG	2:R:456:THR:HG1	2.20	0.44
2:R:476:MET:SD	2:R:477:LYS:N	2.91	0.44
2:T:90:MET:CE	2:T:299:LEU:HD11	2.47	0.44
2:U:215:VAL:CG1	2:U:216:SER:N	2.80	0.44
2:V:192:LEU:HD13	2:V:201:ARG:CZ	2.48	0.44
3:W:201:PHE:CE1	3:W:222:PHE:CD1	3.05	0.44
3:W:387:LEU:HA	3:W:393:LEU:HD23	1.98	0.44
3:Y:135:ASP:N	3:Y:215:ASP:OD2	2.46	0.44
1:B:127:THR:HG22	1:B:128:SER:N	2.32	0.44
1:B:161:VAL:HA	1:B:167:GLU:HG3	1.98	0.44
1:B:301:ASN:OD1	1:B:303:SER:N	2.51	0.44
1:B:433:LYS:HZ3	1:B:452:ASP:HB2	1.83	0.44
1:C:159:ASN:ND2	1:C:169:PRO:HG3	2.33	0.44
1:C:161:VAL:HA	1:C:167:GLU:HG2	1.98	0.44
1:D:356:VAL:HG23	1:D:376:VAL:HG21	1.99	0.44
1:D:571:TYR:HE2	1:D:572:LYS:HZ3	1.59	0.44
1:D:723:ASN:O	1:D:727:VAL:HG22	2.18	0.44
1:E:148:ASN:C	1:E:634:ILE:HG21	2.37	0.44
1:E:250:THR:HB	1:E:270:VAL:HB	2.00	0.44
1:E:418:GLU:OE1	1:E:418:GLU:N	2.50	0.44
1:G:509:GLY:H	2:O:415:ASN:HD22	1.65	0.44
1:I:192:ASN:OD1	1:I:193:VAL:N	2.51	0.44
1:I:202:LEU:HD23	1:I:209:THR:OG1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:219:GLN:O	1:I:223:GLY:CA	2.66	0.44
1:I:369:ILE:CD1	1:I:599:PHE:CD1	3.01	0.44
1:J:192:ASN:OD1	1:J:395:ILE:HA	2.16	0.44
1:J:217:LYS:HB2	1:J:219:GLN:HG2	1.99	0.44
1:J:484:TYR:O	1:J:494:ILE:N	2.50	0.44
1:J:749:TYR:HA	2:P:591:LYS:HZ2	1.83	0.44
1:K:196:THR:OG1	1:K:198:ASN:OD1	2.32	0.44
1:K:461:LEU:O	1:K:473:VAL:N	2.46	0.44
2:N:37:THR:O	2:N:38:ARG:HB3	2.17	0.44
2:O:186:ILE:HG23	2:O:192:LEU:CD1	2.47	0.44
2:O:214:LEU:HA	2:O:292:GLN:OE1	2.18	0.44
2:O:397:MET:HE1	2:O:428:PHE:HB2	1.99	0.44
2:O:478:VAL:HG12	2:O:479:LYS:O	2.18	0.44
2:P:84:LEU:HD11	2:P:557:TYR:HB2	1.98	0.44
2:Q:256:PHE:CG	2:Q:257:HIS:N	2.85	0.44
2:R:114:GLU:OE1	2:R:114:GLU:HA	2.17	0.44
2:S:37:THR:HG22	2:S:38:ARG:N	2.33	0.44
2:T:35:PHE:HE2	2:T:202:ASP:CB	2.30	0.44
2:V:167:ASN:O	2:V:170:ASP:OD1	2.36	0.44
2:V:278:ASP:OD1	2:V:282:ARG:NH2	2.50	0.44
2:V:417:ASN:O	2:V:418:ASP:CB	2.66	0.44
3:W:316:ASP:O	3:W:319:THR:OG1	2.24	0.44
3:W:379:SER:OG	3:W:380:MET:N	2.49	0.44
3:W:599:GLN:HA	3:W:602:ILE:HD12	1.99	0.44
3:X:61:GLN:NE2	3:X:571:THR:OG1	2.45	0.44
3:X:401:GLU:HB3	3:X:405:LYS:HE3	1.99	0.44
3:Y:211:LYS:HA	3:Y:238:ASP:OD2	2.17	0.44
3:Y:510:TYR:OH	3:Y:512:GLN:NE2	2.37	0.44
1:A:57:LYS:HE3	2:R:114:GLU:OE1	2.16	0.44
1:A:93:LYS:HD3	1:A:93:LYS:N	2.33	0.44
1:A:277:GLU:HA	1:A:280:MET:SD	2.58	0.44
1:A:486:ASP:HB3	1:A:492:GLN:HB2	2.00	0.44
1:A:500:HIS:CD2	1:A:502:ASN:H	2.35	0.44
1:C:157:ASN:HA	1:C:171:ASN:OD1	2.18	0.44
1:C:195:PHE:N	1:C:304:GLY:O	2.50	0.44
1:C:233:ASP:OD2	1:C:236:LYS:HE2	2.17	0.44
1:C:636:ASP:O	1:C:639:SER:OG	2.24	0.44
1:D:236:LYS:HA	1:D:240:TYR:HB2	2.00	0.44
1:D:593:ASP:O	1:D:598:GLN:HG2	2.17	0.44
1:E:1:MET:HA	2:L:566:SER:HA	1.99	0.44
1:E:484:TYR:CE1	1:E:535:PRO:HD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:128:SER:HA	1:F:133:TYR:HA	1.99	0.44
1:F:184:ASP:O	1:F:313:GLN:NE2	2.51	0.44
1:G:102:ASN:O	1:G:107:ARG:HG3	2.18	0.44
1:G:103:SER:O	1:G:106:SER:N	2.51	0.44
1:G:499:MET:HG3	1:G:509:GLY:HA2	2.00	0.44
1:H:219:GLN:NE2	1:H:247:PHE:CD1	2.86	0.44
1:H:241:ASP:HA	1:H:244:LYS:CB	2.48	0.44
1:H:258:LYS:HD2	1:H:262:THR:HG23	1.98	0.44
1:I:379:THR:HA	1:I:383:GLN:O	2.18	0.44
1:J:178:PHE:HA	1:J:633:ILE:HD12	2.00	0.44
1:K:2:ARG:CB	2:S:568:SER:N	2.77	0.44
1:K:55:GLU:O	1:K:59:LEU:HG	2.16	0.44
1:K:412:TYR:O	1:K:620:ALA:HA	2.18	0.44
1:K:504:ALA:O	1:K:505:THR:OG1	2.36	0.44
2:M:182:ILE:HG23	2:M:185:GLN:OE1	2.18	0.44
2:M:409:ASP:OD1	2:M:413:ASN:N	2.51	0.44
2:N:85:GLU:HG3	2:N:213:LYS:O	2.18	0.44
2:N:102:PRO:HG3	2:N:109:ILE:HB	1.99	0.44
2:N:185:GLN:HB3	2:N:196:HIS:CE1	2.53	0.44
2:O:89:TYR:OH	2:O:296:GLN:HG2	2.17	0.44
2:O:105:GLN:O	2:O:105:GLN:OE1	2.36	0.44
2:O:333:GLU:O	2:O:337:LEU:HD23	2.18	0.44
2:O:365:ARG:HD3	2:O:523:ILE:HD11	2.00	0.44
2:P:84:LEU:O	2:P:88:LYS:HG2	2.17	0.44
2:P:199:GLU:O	2:P:202:ASP:HB2	2.18	0.44
2:Q:164:ASP:HA	2:Q:167:ASN:ND2	2.33	0.44
2:Q:334:THR:HG21	2:Q:468:PHE:CE2	2.53	0.44
2:Q:375:VAL:HG13	2:Q:385:LEU:O	2.18	0.44
2:Q:415:ASN:C	2:Q:417:ASN:H	2.20	0.44
2:Q:524:ASP:OD1	2:Q:524:ASP:N	2.47	0.44
2:S:20:GLN:HB3	2:S:582:TYR:CZ	2.53	0.44
2:T:187:TYR:CE2	2:T:237:PRO:HB3	2.53	0.44
2:T:196:HIS:C	2:T:198:ASN:N	2.70	0.44
2:T:528:MET:N	2:T:528:MET:SD	2.91	0.44
2:T:604:LEU:O	2:T:607:LYS:HG2	2.17	0.44
2:U:65:ILE:CD1	2:U:195:GLU:HG3	2.48	0.44
2:V:34:THR:HG21	2:V:206:GLU:CD	2.38	0.44
2:V:533:ARG:O	2:V:537:GLY:N	2.44	0.44
3:W:50:LEU:HD21	3:W:584:LEU:CD1	2.47	0.44
3:W:179:GLU:OE1	3:W:185:ARG:NH1	2.45	0.44
3:W:252:HIS:CE1	3:W:255:THR:HG23	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:334:LYS:NZ	3:W:338:GLN:O	2.49	0.44
3:Y:67:LEU:HD11	3:Y:310:LEU:CD1	2.47	0.44
3:Z:581:ASP:HA	3:Z:584:LEU:HD12	1.99	0.44
1:A:268:VAL:HG23	1:A:607:THR:N	2.33	0.44
1:A:444:LYS:CA	1:A:518:THR:HG22	2.48	0.44
1:A:473:VAL:HG22	1:A:484:TYR:HB3	2.00	0.44
1:A:640:MET:O	1:A:644:VAL:HG23	2.17	0.44
1:B:418:GLU:O	1:B:425:TYR:N	2.50	0.44
1:C:83:MET:HE3	1:C:86:LEU:HD22	2.00	0.44
1:C:522:ILE:H	1:C:522:ILE:HD12	1.81	0.44
1:D:91:LYS:O	1:D:95:THR:HG23	2.16	0.44
1:E:170:TYR:HA	1:E:687:TYR:CE1	2.53	0.44
1:E:191:THR:HA	1:E:395:ILE:HD11	1.99	0.44
1:F:51:ARG:NH1	1:F:51:ARG:HB2	2.33	0.44
1:F:193:VAL:HG23	1:F:195:PHE:CZ	2.52	0.44
1:F:198:ASN:H	1:F:221:LEU:HA	1.82	0.44
1:G:35:LYS:N	1:G:713:ILE:O	2.41	0.44
1:G:748:ASN:ND2	1:H:735:LEU:HD22	2.33	0.44
1:H:178:PHE:HA	1:H:633:ILE:HD12	2.00	0.44
1:H:233:ASP:OD1	1:H:235:ASP:OD1	2.35	0.44
1:H:486:ASP:HA	1:H:494:ILE:CD1	2.47	0.44
1:H:498:ILE:HG22	1:H:512:THR:OG1	2.18	0.44
1:H:716:ASP:OD2	1:H:719:GLU:HB2	2.18	0.44
1:I:11:ASN:O	1:I:15:ASN:N	2.36	0.44
1:I:144:PRO:O	1:I:151:TYR:HA	2.18	0.44
1:I:200:TRP:HB2	1:I:205:ASP:OD2	2.18	0.44
1:I:701:LEU:HD23	1:J:78:LYS:HZ2	1.83	0.44
1:K:57:LYS:HD2	2:S:114:GLU:HB2	2.00	0.44
1:K:482:VAL:HG23	1:K:498:ILE:CG1	2.46	0.44
2:L:74:TYR:HE2	2:L:208:GLU:HB3	1.83	0.44
2:L:114:GLU:HA	2:L:114:GLU:OE2	2.17	0.44
2:L:261:LEU:HD23	2:L:262:ASP:N	2.32	0.44
2:L:271:SER:O	2:L:272:ILE:HD13	2.18	0.44
2:M:20:GLN:HB3	2:M:586:TYR:OH	2.17	0.44
2:M:516:PHE:H	2:M:524:ASP:HB2	1.82	0.44
2:N:196:HIS:ND1	2:N:200:LEU:HD11	2.33	0.44
2:O:85:GLU:OE2	2:O:88:LYS:NZ	2.32	0.44
2:O:86:TYR:HD2	2:O:291:GLY:O	2.00	0.44
2:O:243:LEU:HB3	2:O:251:VAL:CG2	2.48	0.44
2:P:278:ASP:OD2	2:P:280:LYS:HE3	2.18	0.44
2:Q:71:GLU:O	2:Q:74:TYR:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:169:VAL:HG11	2:Q:261:LEU:HD13	2.00	0.44
2:R:37:THR:HG21	2:R:67:ARG:HE	1.82	0.44
2:S:75:TYR:HA	2:S:78:LYS:NZ	2.33	0.44
2:S:405:ASN:OD1	2:S:424:ILE:HD12	2.17	0.44
2:T:494:ASN:HB2	2:T:496:VAL:O	2.18	0.44
2:U:553:ASN:O	2:U:557:TYR:N	2.32	0.44
2:U:604:LEU:HD23	2:U:604:LEU:O	2.18	0.44
2:V:120:TRP:CZ2	2:V:506:ILE:HG21	2.52	0.44
2:V:430:TYR:HA	2:V:437:GLY:HA3	1.99	0.44
3:W:14:GLY:HA2	3:W:613:TRP:CH2	2.52	0.44
3:W:489:GLN:HA	3:W:507:VAL:HG21	1.99	0.44
3:W:607:ASP:HA	3:W:610:ALA:HB3	1.99	0.44
3:X:107:GLN:CB	3:X:260:GLU:HB3	2.47	0.44
3:Y:222:PHE:CZ	3:Y:229:LEU:HD21	2.53	0.44
3:Z:237:PRO:O	3:Z:241:LYS:HA	2.18	0.44
3:Z:259:ALA:N	3:Z:270:ARG:O	2.48	0.44
1:B:189:ILE:HG22	1:B:625:THR:OG1	2.18	0.44
1:B:426:GLY:H	1:B:575:ILE:HB	1.83	0.44
1:B:632:ASP:CG	1:B:633:ILE:HD11	2.38	0.44
1:B:632:ASP:C	1:B:633:ILE:HG13	2.38	0.44
1:B:640:MET:O	1:B:644:VAL:HG23	2.17	0.44
1:D:7:LEU:H	2:Q:565:GLN:HB2	1.83	0.44
1:D:267:ALA:HB1	1:D:604:PHE:CD2	2.53	0.44
1:E:236:LYS:HA	1:E:240:TYR:CE2	2.52	0.44
1:E:528:MET:HA	1:E:561:SER:CB	2.47	0.44
1:E:643:ALA:HB1	1:E:663:MET:HG3	2.00	0.44
1:F:125:ALA:HB1	1:F:145:PHE:CD2	2.53	0.44
1:F:341:ALA:HA	1:F:381:ASN:HD22	1.83	0.44
1:G:158:ILE:N	1:G:171:ASN:HB3	2.32	0.44
1:G:502:ASN:HA	2:O:409:ASP:OD2	2.18	0.44
1:H:181:ALA:HB1	1:H:629:PRO:CB	2.47	0.44
1:I:6:LYS:O	1:I:9:PHE:CE2	2.70	0.44
1:I:429:SER:OG	1:I:438:TYR:CE1	2.71	0.44
1:I:725:MET:HB3	3:Y:627:LEU:CD2	2.47	0.44
1:J:85:LYS:O	1:J:88:GLU:HB2	2.18	0.44
1:J:111:ALA:CB	1:J:644:VAL:HG11	2.47	0.44
1:J:744:LEU:CD2	2:S:586:TYR:CE1	3.01	0.44
1:K:1:MET:HA	2:S:566:SER:HA	2.00	0.44
1:K:195:PHE:CZ	1:K:394:PHE:HD1	2.36	0.44
1:K:308:ILE:CG2	1:K:318:LEU:HD21	2.48	0.44
1:K:401:ASP:N	1:K:405:ASN:O	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:164:ASP:O	2:L:168:THR:HG23	2.17	0.44
2:L:204:ARG:O	2:L:208:GLU:HG3	2.17	0.44
2:L:361:VAL:HA	2:L:367:ILE:HD12	2.00	0.44
2:M:94:LEU:O	2:M:98:ALA:N	2.46	0.44
2:M:226:GLN:CD	2:M:227:ASP:H	2.21	0.44
2:N:337:LEU:HD11	2:N:505:LYS:HB3	1.99	0.44
2:N:591:LYS:O	2:N:594:SER:OG	2.27	0.44
2:O:104:LEU:O	2:O:105:GLN:HB3	2.17	0.44
2:O:121:ASN:OD1	2:O:121:ASN:C	2.56	0.44
2:O:241:TYR:CE2	2:O:251:VAL:HG11	2.52	0.44
2:O:419:ASP:H	2:O:422:ASP:HB2	1.83	0.44
2:O:516:PHE:HZ	2:O:528:MET:HG2	1.83	0.44
2:P:458:PHE:CG	2:P:459:ALA:N	2.86	0.44
2:P:492:SER:HB2	2:P:494:ASN:ND2	2.33	0.44
2:R:40:ARG:NE	2:R:41:VAL:H	2.13	0.44
2:S:333:GLU:O	2:S:337:LEU:HD12	2.18	0.44
2:T:487:SER:O	2:T:490:ARG:NH1	2.51	0.44
2:U:38:ARG:O	2:U:67:ARG:HA	2.18	0.44
2:U:168:THR:HG23	2:U:169:VAL:N	2.33	0.44
2:U:374:ILE:HG22	2:U:451:ILE:HG12	2.00	0.44
2:V:42:VAL:HG12	2:V:43:GLN:O	2.18	0.44
2:V:331:ILE:HD13	2:V:470:GLY:O	2.17	0.44
3:W:158:LEU:CD2	3:W:225:LEU:HD11	2.48	0.44
3:X:122:ASP:HB3	3:X:184:TYR:OH	2.18	0.44
3:Y:413:SER:HA	3:Y:418:ILE:HD11	2.00	0.44
3:Z:90:LEU:HD23	3:Z:90:LEU:C	2.38	0.44
3:Z:113:VAL:HB	3:Z:254:GLN:HB3	2.00	0.44
3:Z:374:THR:HG23	3:Z:375:LYS:N	2.26	0.44
1:B:210:LYS:HD2	1:B:211:TYR:O	2.18	0.44
1:B:571:TYR:CD2	1:B:572:LYS:HG2	2.52	0.44
1:D:49:ASN:OD1	1:D:709:LYS:NZ	2.47	0.44
1:D:217:LYS:HA	1:D:275:THR:HA	2.00	0.44
1:E:450:ALA:HB3	1:E:615:ASN:O	2.18	0.44
1:F:522:ILE:O	1:F:525:ILE:N	2.51	0.44
1:G:376:VAL:O	1:G:387:ILE:HB	2.18	0.44
1:G:424:VAL:O	1:G:577:VAL:N	2.49	0.44
1:G:495:SER:OG	1:G:538:THR:HG23	2.18	0.44
1:G:505:THR:HG22	1:G:510:VAL:HB	2.00	0.44
1:H:149:GLY:O	1:H:150:ASN:C	2.57	0.44
1:H:376:VAL:HG12	1:H:377:THR:N	2.32	0.44
1:J:146:ASP:OD1	1:J:149:GLY:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:245:LEU:HD13	1:K:339:ILE:HD13	2.00	0.44
2:L:104:LEU:O	2:L:107:THR:HG23	2.17	0.44
2:L:281:VAL:HG22	2:L:282:ARG:N	2.32	0.44
2:L:599:MET:O	2:L:602:THR:OG1	2.33	0.44
2:M:327:ALA:HA	2:M:330:MET:HE2	1.99	0.44
2:M:378:ASP:HA	2:M:447:PHE:HA	2.00	0.44
2:N:108:GLY:O	2:N:112:ASP:HB2	2.18	0.44
2:N:376:ILE:HG13	2:N:420:VAL:HG22	1.99	0.44
2:N:430:TYR:HA	2:N:434:THR:HG21	1.99	0.44
2:N:519:GLU:O	2:N:519:GLU:OE2	2.35	0.44
2:O:72:TYR:O	2:O:75:TYR:HB3	2.17	0.44
2:O:599:MET:SD	2:U:583:GLN:HB3	2.58	0.44
2:Q:468:PHE:HB3	2:Q:476:MET:CE	2.48	0.44
2:Q:479:LYS:HE2	2:Q:479:LYS:HA	2.00	0.44
2:R:37:THR:CG2	2:R:38:ARG:N	2.80	0.44
2:R:215:VAL:HA	2:R:290:GLY:HA3	1.99	0.44
2:R:328:LYS:HA	2:R:331:ILE:HD12	1.99	0.44
2:S:110:LEU:O	2:S:113:LEU:HB3	2.18	0.44
2:S:365:ARG:NE	2:S:517:TYR:HB3	2.33	0.44
2:T:332:ASN:O	2:T:335:ASN:HB2	2.18	0.44
2:U:50:THR:HA	2:U:55:GLN:HA	2.00	0.44
2:U:195:GLU:O	2:U:198:ASN:HB2	2.18	0.44
2:U:580:ILE:O	2:U:583:GLN:HB2	2.18	0.44
3:W:14:GLY:HA2	3:W:613:TRP:CZ2	2.52	0.44
3:W:273:ASN:O	3:W:274:THR:OG1	2.28	0.44
3:X:184:TYR:OH	3:X:186:LEU:HD13	2.18	0.44
3:X:575:GLY:O	3:X:578:THR:HB	2.18	0.44
3:Z:327:TYR:CZ	3:Z:332:GLY:HA2	2.53	0.44
1:A:189:ILE:HD11	1:A:623:SER:OG	2.18	0.43
1:A:274:ASP:OD1	1:A:278:ASP:HB2	2.17	0.43
1:A:420:ASN:O	1:A:423:THR:N	2.44	0.43
1:A:448:VAL:HB	1:A:519:TYR:OH	2.17	0.43
1:B:550:ASP:O	1:B:554:ILE:HD12	2.18	0.43
1:C:502:ASN:O	1:C:507:ASN:N	2.51	0.43
1:D:104:GLN:NE2	1:D:645:LEU:O	2.47	0.43
1:E:228:LYS:NZ	1:E:388:ASP:OD2	2.25	0.43
1:E:264:PHE:HA	1:E:612:ASN:HA	1.99	0.43
1:F:144:PRO:HG2	1:F:145:PHE:CD2	2.53	0.43
1:G:344:GLN:NE2	1:G:383:GLN:OE1	2.50	0.43
1:H:56:ILE:CD1	1:H:705:VAL:HG13	2.47	0.43
1:H:160:VAL:O	1:H:168:SER:N	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:121:ILE:O	1:I:125:ALA:N	2.33	0.43
1:I:217:LYS:HD3	1:I:273:GLU:HA	1.99	0.43
1:I:321:HIS:CE1	1:I:623:SER:HB3	2.53	0.43
1:J:417:PHE:CZ	1:J:618:PHE:CD2	3.06	0.43
1:J:503:PRO:HD3	2:T:415:ASN:HA	2.00	0.43
1:J:528:MET:HA	1:J:561:SER:HB3	1.98	0.43
1:K:2:ARG:N	2:S:566:SER:N	2.65	0.43
1:K:268:VAL:HG22	1:K:269:LEU:N	2.33	0.43
1:K:626:ILE:HG21	1:K:665:GLY:HA2	1.99	0.43
1:K:683:THR:HG22	1:K:687:TYR:CZ	2.52	0.43
2:M:156:LYS:O	2:M:156:LYS:HD2	2.16	0.43
2:M:165:ILE:HG21	2:M:300:ARG:NH1	2.33	0.43
2:N:65:ILE:O	2:N:66:VAL:HG13	2.18	0.43
2:N:70:ASP:HB3	2:N:567:LYS:HD2	1.99	0.43
2:O:556:LEU:HD13	2:U:100:ARG:HH12	1.83	0.43
2:P:26:ASN:O	2:P:30:ASN:N	2.45	0.43
2:P:305:SER:HB2	2:P:308:GLU:OE1	2.18	0.43
2:P:341:SER:O	2:P:343:LYS:NZ	2.50	0.43
2:Q:526:LEU:HD22	2:Q:530:GLU:OE1	2.18	0.43
2:R:4:PHE:CD1	2:R:7:LEU:HD23	2.53	0.43
2:S:513:LYS:HD2	2:S:527:THR:HG23	1.99	0.43
2:U:262:ASP:O	2:U:270:TYR:HA	2.18	0.43
2:U:347:THR:HG22	2:U:348:SER:N	2.32	0.43
2:V:46:ASN:HB2	2:V:58:THR:O	2.18	0.43
2:V:520:ASP:OD2	2:V:522:THR:OG1	2.36	0.43
2:V:535:LEU:HD12	2:V:536:THR:N	2.33	0.43
2:V:578:ALA:O	2:V:582:TYR:CG	2.71	0.43
3:W:9:LEU:HD22	3:W:9:LEU:C	2.38	0.43
3:W:9:LEU:HD23	3:W:617:GLU:HG3	2.00	0.43
3:W:196:ASP:OD1	3:W:197:SER:N	2.51	0.43
3:W:305:LYS:N	3:W:305:LYS:HD2	2.32	0.43
3:W:462:ASN:N	3:W:528:SER:OG	2.51	0.43
3:X:215:ASP:OD1	3:X:217:ASN:HB3	2.17	0.43
3:X:538:ILE:O	3:X:542:LEU:HD13	2.18	0.43
3:Y:377:MET:O	3:Y:378:LEU:CB	2.66	0.43
1:A:145:PHE:CD1	1:A:178:PHE:CE2	3.06	0.43
1:A:501:THR:OG1	1:A:508:SER:HA	2.17	0.43
1:A:649:MET:SD	3:W:368:ASN:N	2.92	0.43
1:B:3:ILE:HG12	2:N:569:GLY:HA2	2.00	0.43
1:B:258:LYS:O	1:B:261:GLY:N	2.45	0.43
1:B:501:THR:OG1	1:B:503:PRO:HD3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:527:GLY:HA2	1:B:565:VAL:HG11	2.00	0.43
1:C:735:LEU:O	1:C:739:THR:HG23	2.18	0.43
1:E:172:ILE:HG21	1:E:176:ASP:OD2	2.18	0.43
1:F:522:ILE:O	1:F:526:ILE:HD12	2.18	0.43
1:G:107:ARG:HA	1:G:110:ILE:HG22	2.00	0.43
1:G:133:TYR:CD2	1:G:143:LYS:HA	2.53	0.43
1:G:219:GLN:N	1:G:272:PRO:O	2.51	0.43
1:G:516:ASP:OD1	1:G:516:ASP:O	2.35	0.43
1:G:541:ALA:HB2	1:G:546:ILE:HG23	2.00	0.43
1:H:146:ASP:OD2	1:H:150:ASN:ND2	2.22	0.43
1:I:1:MET:C	2:P:566:SER:HA	2.37	0.43
1:I:461:LEU:O	1:I:472:ASP:OD1	2.36	0.43
1:K:159:ASN:HA	1:K:169:PRO:HA	2.00	0.43
1:K:178:PHE:CD1	1:K:633:ILE:HD12	2.53	0.43
1:K:337:ASN:O	1:K:383:GLN:NE2	2.51	0.43
1:K:376:VAL:HG23	1:K:387:ILE:HB	2.00	0.43
1:K:395:ILE:HG22	1:K:621:ASN:OD1	2.17	0.43
2:L:556:LEU:CD1	2:V:100:ARG:HA	2.48	0.43
2:M:53:GLY:O	2:M:54:VAL:CG2	2.63	0.43
2:M:94:LEU:HD21	2:M:543:GLY:CA	2.48	0.43
2:N:326:PHE:CD1	2:N:516:PHE:CE2	3.06	0.43
2:N:606:LEU:HD23	2:N:607:LYS:N	2.33	0.43
2:O:529:GLU:OE1	2:O:533:ARG:HD3	2.18	0.43
2:P:37:THR:CG2	2:P:38:ARG:H	2.30	0.43
2:P:184:LYS:HG2	2:P:254:ILE:HA	2.01	0.43
2:Q:74:TYR:HA	2:Q:564:TYR:OH	2.18	0.43
2:Q:485:ASP:OD2	2:Q:488:THR:HG23	2.17	0.43
2:R:141:GLN:O	2:R:145:GLU:OE1	2.35	0.43
2:R:165:ILE:O	2:R:168:THR:OG1	2.27	0.43
2:R:305:SER:OG	2:R:308:GLU:OE1	2.22	0.43
2:U:15:LYS:CD	2:U:15:LYS:N	2.82	0.43
2:U:485:ASP:OD2	2:U:488:THR:HG23	2.18	0.43
3:Y:27:ALA:HA	3:Y:30:LYS:HE3	1.99	0.43
3:Y:327:TYR:CD2	3:Y:328:ASN:O	2.71	0.43
3:Y:482:LYS:N	3:Y:486:GLU:OE1	2.49	0.43
1:B:159:ASN:OD1	1:B:169:PRO:HA	2.17	0.43
1:B:484:TYR:CZ	1:B:494:ILE:HG22	2.53	0.43
1:C:693:GLY:O	1:C:697:ARG:HB2	2.18	0.43
1:D:54:TYR:O	1:D:58:THR:OG1	2.15	0.43
1:E:99:SER:OG	1:E:102:ASN:OD1	2.35	0.43
1:E:214:GLY:HA2	1:E:276:LEU:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:201:ASP:HB2	1:F:204:LYS:HG3	2.00	0.43
1:G:92:VAL:O	1:G:95:THR:HB	2.18	0.43
1:H:86:LEU:CD1	1:H:117:ILE:HG23	2.49	0.43
1:H:180:LYS:O	1:H:631:VAL:HG22	2.19	0.43
1:H:449:MET:HE2	1:H:451:GLY:O	2.19	0.43
1:I:143:LYS:CD	1:I:145:PHE:O	2.66	0.43
1:I:632:ASP:O	1:I:633:ILE:HB	2.19	0.43
1:J:38:ASN:N	1:J:41:GLU:OE1	2.39	0.43
1:J:173:PRO:HB2	1:J:175:TRP:NE1	2.33	0.43
1:J:475:ILE:HG23	1:J:481:THR:O	2.18	0.43
1:K:694:VAL:O	1:K:698:THR:HG23	2.19	0.43
2:M:492:SER:OG	2:M:496:VAL:O	2.36	0.43
2:N:218:VAL:CG2	2:N:246:GLU:HA	2.48	0.43
2:O:94:LEU:HB3	2:O:543:GLY:HA2	2.00	0.43
2:O:276:THR:N	2:O:280:LYS:O	2.51	0.43
2:P:295:ALA:O	2:P:298:ASP:OD1	2.37	0.43
2:Q:121:ASN:N	2:Q:507:ILE:HD11	2.32	0.43
2:Q:251:VAL:HG13	2:Q:255:ASN:O	2.18	0.43
2:Q:346:VAL:HG12	2:Q:347:THR:N	2.32	0.43
2:R:111:GLN:O	2:R:115:ASN:N	2.36	0.43
2:R:397:MET:SD	2:R:439:PHE:HB2	2.58	0.43
2:S:195:GLU:O	2:S:198:ASN:ND2	2.51	0.43
2:S:514:VAL:HG23	2:S:516:PHE:CE1	2.53	0.43
2:T:329:THR:HB	2:T:516:PHE:CE1	2.53	0.43
2:U:42:VAL:N	2:U:64:SER:HB3	2.34	0.43
2:U:99:GLN:OE1	2:U:100:ARG:NH2	2.50	0.43
2:U:215:VAL:CG2	2:U:293:LEU:HD22	2.48	0.43
2:V:110:LEU:HD12	2:V:110:LEU:H	1.82	0.43
3:W:137:THR:CG2	3:W:144:GLU:CG	2.96	0.43
3:W:260:GLU:OE2	3:W:270:ARG:N	2.51	0.43
3:W:310:LEU:O	3:W:314:TYR:N	2.48	0.43
3:W:402:GLN:NE2	3:W:406:GLU:OE2	2.50	0.43
3:X:199:ILE:HG22	3:X:200:SER:N	2.34	0.43
3:Y:112:ASP:OD2	3:Y:199:ILE:N	2.49	0.43
3:Y:121:ASN:N	3:Y:121:ASN:OD1	2.51	0.43
3:Z:137:THR:O	3:Z:202:TYR:O	2.35	0.43
3:Z:503:LEU:O	3:Z:504:LYS:HE2	2.18	0.43
1:B:38:ASN:O	1:B:46:TYR:CE2	2.72	0.43
1:B:222:ILE:O	1:B:223:GLY:C	2.57	0.43
1:B:376:VAL:HG12	1:B:377:THR:N	2.33	0.43
1:C:627:ASP:OD1	1:C:628:GLU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:696:THR:HG23	1:C:697:ARG:N	2.34	0.43
1:E:323:VAL:HG13	1:E:325:PHE:CE1	2.54	0.43
1:F:199:ARG:CZ	1:F:220:GLN:HG2	2.48	0.43
1:F:205:ASP:HB3	1:F:208:LYS:CG	2.48	0.43
1:G:186:LYS:CA	1:G:313:GLN:HA	2.48	0.43
1:H:126:ASN:OD1	1:H:143:LYS:HE2	2.19	0.43
1:H:401:ASP:OD1	1:H:403:ASP:OD1	2.35	0.43
1:H:697:ARG:HA	1:H:700:PHE:CE2	2.54	0.43
1:I:1:MET:O	2:P:571:ASN:CB	2.66	0.43
1:I:70:GLN:HG3	1:I:691:ILE:CG2	2.47	0.43
1:J:201:ASP:OD2	1:J:204:LYS:NZ	2.36	0.43
1:J:433:LYS:HE2	1:J:449:MET:O	2.18	0.43
1:J:660:ASN:OD1	1:J:662:GLY:N	2.51	0.43
1:K:2:ARG:O	2:S:569:GLY:N	2.43	0.43
1:K:170:TYR:O	1:K:170:TYR:CG	2.71	0.43
1:K:566:ASP:HB3	1:K:578:THR:HB	2.00	0.43
2:L:117:ASN:HA	2:L:120:TRP:HD1	1.83	0.43
2:L:148:ASN:HB3	2:L:474:SER:O	2.18	0.43
2:L:181:THR:HG22	2:L:203:ARG:HH22	1.83	0.43
2:L:588:ALA:O	2:L:591:LYS:HB3	2.18	0.43
2:M:91:ALA:HB2	2:M:550:ASN:ND2	2.34	0.43
2:M:113:LEU:O	2:M:116:TYR:CE2	2.72	0.43
2:M:139:ALA:O	2:M:142:THR:OG1	2.37	0.43
2:N:38:ARG:HE	2:N:39:GLN:N	2.15	0.43
2:N:78:LYS:HG2	2:N:212:SER:HB3	2.00	0.43
2:N:316:ILE:HA	2:N:319:TYR:CD2	2.53	0.43
2:O:56:VAL:CG2	2:O:58:THR:HG23	2.48	0.43
2:O:427:SER:O	2:O:439:PHE:HB2	2.18	0.43
2:P:58:THR:HG22	2:T:26:ASN:HD21	1.82	0.43
2:P:80:ALA:O	2:P:84:LEU:HD23	2.18	0.43
2:P:166:LYS:CE	2:P:261:LEU:HD22	2.48	0.43
2:P:174:LYS:NZ	2:U:545:ASN:OD1	2.49	0.43
2:P:415:ASN:O	2:P:417:ASN:N	2.52	0.43
2:P:480:ASP:O	2:P:483:LEU:N	2.51	0.43
2:Q:84:LEU:HD22	2:Q:557:TYR:CD2	2.54	0.43
2:R:401:MET:O	2:R:405:ASN:ND2	2.48	0.43
2:S:128:ASN:ND2	2:S:497:ASP:HB2	2.33	0.43
2:T:272:ILE:CG2	2:T:284:LEU:HD22	2.48	0.43
2:U:515:ASN:HA	2:U:525:ASN:HA	1.99	0.43
2:V:197:ALA:O	2:V:200:LEU:N	2.50	0.43
2:V:335:ASN:ND2	2:V:460:GLY:O	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:364:THR:HG22	3:W:366:ASP:H	1.83	0.43
3:X:265:GLY:HA3	3:Y:113:VAL:HG11	2.01	0.43
3:X:422:GLU:O	3:X:526:GLY:HA3	2.19	0.43
3:Y:63:ALA:HB3	3:Y:310:LEU:CD2	2.47	0.43
3:Y:78:VAL:HG12	3:Y:79:VAL:N	2.32	0.43
3:Y:429:GLU:O	3:Y:519:ARG:HD3	2.18	0.43
3:Z:177:THR:HG21	3:Z:185:ARG:CG	2.48	0.43
1:A:192:ASN:OD1	1:A:193:VAL:N	2.52	0.43
1:B:642:ASP:OD1	1:B:646:LYS:NZ	2.34	0.43
1:C:105:THR:HA	1:C:108:GLU:HG2	2.00	0.43
1:C:236:LYS:O	1:C:243:SER:OG	2.36	0.43
1:C:287:TYR:O	1:C:295:VAL:HG21	2.18	0.43
1:D:198:ASN:HB2	1:D:221:LEU:O	2.19	0.43
1:D:748:ASN:C	1:E:735:LEU:HD22	2.39	0.43
1:F:176:ASP:C	1:F:180:LYS:HB2	2.38	0.43
1:G:2:ARG:HB3	2:O:569:GLY:C	2.38	0.43
1:H:29:GLN:O	1:H:33:GLY:N	2.51	0.43
1:H:214:GLY:HA2	1:H:276:LEU:HB3	2.01	0.43
1:H:218:TRP:HD1	1:H:272:PRO:HA	1.84	0.43
1:H:402:THR:HA	1:H:416:TYR:CE1	2.54	0.43
1:H:503:PRO:HD3	1:H:508:SER:HA	1.99	0.43
1:H:732:GLN:HA	1:H:735:LEU:HD12	2.01	0.43
1:I:86:LEU:O	1:I:89:ASP:N	2.51	0.43
1:I:90:PHE:CD1	1:I:117:ILE:HG22	2.53	0.43
1:I:114:LEU:O	1:I:118:LYS:N	2.49	0.43
1:I:194:SER:OG	1:I:303:SER:O	2.28	0.43
1:I:747:LEU:O	1:I:750:MET:N	2.49	0.43
1:K:57:LYS:HD2	2:S:114:GLU:CG	2.49	0.43
1:K:227:VAL:HG23	1:K:230:ASN:N	2.33	0.43
1:K:255:GLN:OE1	1:K:255:GLN:N	2.51	0.43
1:K:278:ASP:OD1	1:K:279:VAL:N	2.49	0.43
2:M:70:ASP:OD1	2:M:71:GLU:N	2.52	0.43
2:M:360:LEU:HD13	2:M:391:ILE:HD13	2.00	0.43
2:N:181:THR:O	2:N:185:GLN:HB2	2.18	0.43
2:N:186:ILE:HD13	2:N:200:LEU:HD12	1.99	0.43
2:N:308:GLU:OE1	2:N:308:GLU:N	2.52	0.43
2:O:45:THR:HA	2:O:59:GLY:O	2.18	0.43
2:O:169:VAL:HG11	2:O:261:LEU:HD13	2.01	0.43
2:P:41:VAL:HG12	2:P:42:VAL:N	2.34	0.43
2:P:184:LYS:HA	2:P:254:ILE:HG22	1.99	0.43
2:P:384:LYS:O	2:P:384:LYS:HG3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:20:GLN:CG	2:Q:62:VAL:HG11	2.49	0.43
2:Q:41:VAL:HG23	2:Q:64:SER:H	1.82	0.43
2:Q:89:TYR:CE2	2:Q:296:GLN:HG3	2.53	0.43
2:Q:329:THR:O	2:Q:333:GLU:OE1	2.37	0.43
2:Q:338:TYR:O	2:Q:343:LYS:NZ	2.52	0.43
2:S:5:GLY:O	2:S:9:THR:N	2.48	0.43
2:S:374:ILE:O	2:S:386:THR:HG23	2.19	0.43
2:S:377:TYR:HB2	2:S:448:LYS:HB2	2.00	0.43
2:T:85:GLU:HB3	2:T:292:GLN:HE21	1.83	0.43
2:T:164:ASP:O	2:T:168:THR:CB	2.66	0.43
2:T:334:THR:HB	2:T:468:PHE:HE1	1.83	0.43
2:U:384:LYS:O	2:U:385:LEU:HB2	2.19	0.43
2:V:372:PHE:CZ	2:V:389:ILE:HB	2.53	0.43
2:V:485:ASP:OD2	2:V:488:THR:HG23	2.18	0.43
3:W:103:ILE:O	3:W:292:ILE:HG22	2.18	0.43
3:W:195:GLU:CA	3:W:257:GLN:HA	2.48	0.43
3:W:510:TYR:CZ	3:W:512:GLN:HB3	2.52	0.43
3:W:611:ASN:O	3:W:615:GLN:OE1	2.36	0.43
3:X:88:ALA:HB1	3:X:285:THR:O	2.19	0.43
3:X:104:ASN:OD1	3:X:104:ASN:C	2.56	0.43
3:X:300:PHE:CD2	3:X:404:VAL:HB	2.54	0.43
3:X:432:LYS:HG2	3:X:515:VAL:HG11	2.01	0.43
3:Y:42:GLU:HA	3:Y:45:THR:OG1	2.18	0.43
3:Y:400:PHE:O	3:Y:404:VAL:HG22	2.18	0.43
3:Y:426:HIS:HB3	3:Y:522:PHE:CZ	2.54	0.43
3:Y:600:ALA:O	3:Y:604:THR:HG23	2.18	0.43
3:Z:459:ILE:HG12	3:Z:532:ILE:HG12	2.00	0.43
1:A:379:THR:HG23	1:A:379:THR:O	2.17	0.43
1:A:432:ILE:HG23	1:A:447:GLU:O	2.19	0.43
1:B:175:TRP:HB2	1:B:179:PHE:CE2	2.54	0.43
1:B:545:GLN:NE2	1:B:546:ILE:O	2.50	0.43
1:C:40:TYR:O	2:M:544:GLU:HG3	2.19	0.43
1:C:328:GLN:HB2	1:C:390:LYS:HE3	2.01	0.43
1:C:528:MET:HE3	1:C:533:LYS:HB2	2.01	0.43
1:C:548:ASN:O	1:C:552:THR:N	2.44	0.43
1:D:1:MET:SD	2:Q:562:SER:HB2	2.58	0.43
1:E:444:LYS:HA	1:E:518:THR:HA	2.00	0.43
1:E:508:SER:HB3	1:E:551:TYR:CD1	2.54	0.43
1:E:633:ILE:CG2	1:E:634:ILE:N	2.82	0.43
1:H:102:ASN:OD1	1:H:103:SER:N	2.52	0.43
1:H:176:ASP:HA	1:H:180:LYS:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:373:ASN:N	1:H:373:ASN:OD1	2.51	0.43
1:H:463:VAL:HG22	1:H:464:ASN:N	2.34	0.43
1:J:7:LEU:HD23	1:J:11:ASN:OD1	2.19	0.43
1:J:149:GLY:HA3	1:J:634:ILE:HD13	2.00	0.43
1:J:378:VAL:HG22	1:J:379:THR:N	2.34	0.43
1:K:5:ASN:O	1:K:6:LYS:C	2.56	0.43
1:K:607:THR:HG22	1:K:608:SER:N	2.34	0.43
1:K:703:VAL:HB	3:X:32:ARG:NH2	2.33	0.43
2:L:385:LEU:HD13	2:L:410:ASP:OD2	2.19	0.43
2:L:400:ILE:HG22	2:L:404:ILE:CD1	2.48	0.43
2:M:28:ILE:HG13	2:M:29:SER:H	1.83	0.43
2:M:94:LEU:HD13	2:M:546:ASN:HD22	1.83	0.43
2:M:143:LEU:O	2:M:147:VAL:HG23	2.18	0.43
2:M:192:LEU:HG	2:M:196:HIS:CG	2.52	0.43
2:M:398:ASN:C	2:M:402:ARG:HE	2.21	0.43
2:M:557:TYR:HA	2:M:560:VAL:HG12	1.99	0.43
2:N:292:GLN:O	2:N:296:GLN:NE2	2.51	0.43
2:N:305:SER:HB3	2:N:310:LYS:O	2.19	0.43
2:N:361:VAL:CG2	2:N:393:VAL:HA	2.49	0.43
2:O:272:ILE:O	2:O:285:THR:OG1	2.35	0.43
2:O:276:THR:HG23	2:O:280:LYS:CB	2.48	0.43
2:O:555:THR:HG23	2:U:102:PRO:HD3	2.01	0.43
2:P:42:VAL:HG12	2:P:43:GLN:N	2.31	0.43
2:P:185:GLN:OE1	2:P:200:LEU:CD1	2.67	0.43
2:P:409:ASP:HB2	2:P:416:SER:OG	2.19	0.43
2:P:428:PHE:CG	2:P:429:SER:N	2.87	0.43
2:Q:64:SER:O	2:Q:65:ILE:HD13	2.18	0.43
2:R:138:LYS:O	2:R:142:THR:N	2.46	0.43
2:R:517:TYR:CD1	2:R:523:ILE:CD1	3.01	0.43
2:T:397:MET:HA	2:T:400:ILE:HG12	2.01	0.43
2:U:123:PHE:CE2	2:U:491:ALA:N	2.87	0.43
2:U:420:VAL:O	2:U:421:ASP:HB2	2.19	0.43
2:V:276:THR:CB	2:V:277:PRO:CD	2.97	0.43
3:W:570:MET:O	3:W:575:GLY:HA3	2.18	0.43
3:X:303:VAL:HG22	3:X:307:MET:HG3	2.01	0.43
3:X:360:VAL:HG22	3:X:361:ASP:N	2.34	0.43
3:X:495:ILE:O	3:X:498:LYS:HB2	2.18	0.43
3:Y:110:GLN:O	3:Y:193:THR:HA	2.19	0.43
3:Y:453:LYS:HE3	3:Y:538:ILE:HG21	2.01	0.43
3:Z:33:ILE:HD12	3:Z:33:ILE:H	1.83	0.43
3:Z:562:LYS:O	3:Z:566:THR:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:499:MET:HE3	1:B:541:ALA:HB1	2.01	0.43
1:C:428:VAL:HG23	1:C:619:SER:HA	2.01	0.43
1:C:445:LEU:HD11	1:C:517:ILE:HB	1.99	0.43
1:C:484:TYR:CE2	1:C:496:PHE:CE1	3.06	0.43
1:D:275:THR:O	1:D:279:VAL:HG23	2.18	0.43
1:E:24:TYR:CD2	1:E:28:GLN:OE1	2.72	0.43
1:E:110:ILE:HD12	1:E:110:ILE:H	1.83	0.43
1:E:377:THR:HA	1:E:386:THR:HA	2.01	0.43
1:E:417:PHE:CE1	1:E:618:PHE:CD2	3.06	0.43
1:F:178:PHE:CE2	1:F:179:PHE:CZ	3.07	0.43
1:F:430:GLN:HE21	1:F:575:ILE:HD11	1.82	0.43
1:F:599:PHE:HB3	1:F:600:PRO:HD2	2.01	0.43
1:F:656:GLU:HG2	1:F:657:ASN:N	2.34	0.43
1:G:331:THR:H	1:G:334:GLU:HB3	1.83	0.43
1:G:500:HIS:HB3	2:O:413:ASN:CG	2.39	0.43
1:H:80:LEU:HB3	1:H:681:ASN:OD1	2.19	0.43
1:I:185:TYR:OH	1:I:675:ASP:OD2	2.29	0.43
1:I:200:TRP:CE3	1:I:200:TRP:O	2.72	0.43
1:J:83:MET:CE	1:J:86:LEU:HD13	2.48	0.43
1:J:200:TRP:CD2	1:J:208:LYS:HE3	2.54	0.43
1:J:496:PHE:CE2	1:J:535:PRO:HG2	2.54	0.43
1:J:571:TYR:OH	1:J:574:ARG:NH2	2.38	0.43
1:K:83:MET:HE2	1:K:121:ILE:HD12	2.01	0.43
1:K:122:VAL:O	1:K:125:ALA:HB3	2.18	0.43
1:K:176:ASP:OD1	1:K:180:LYS:CD	2.64	0.43
1:K:178:PHE:O	1:K:631:VAL:CG1	2.66	0.43
1:K:325:PHE:CD2	1:K:372:LEU:HD13	2.53	0.43
1:K:622:ASN:O	1:K:659:ARG:NH2	2.45	0.43
2:L:273:TYR:HB3	2:L:281:VAL:HG23	2.01	0.43
2:M:359:PRO:HG2	2:M:362:ASN:ND2	2.34	0.43
2:M:515:ASN:HA	2:M:524:ASP:O	2.19	0.43
2:N:202:ASP:OD2	2:S:55:GLN:NE2	2.50	0.43
2:N:245:ILE:HD11	2:N:250:ILE:HA	2.00	0.43
2:N:509:LEU:O	2:N:512:ASP:HB2	2.18	0.43
2:O:33:ALA:O	2:O:34:THR:C	2.57	0.43
2:Q:85:GLU:CG	2:Q:213:LYS:HB2	2.48	0.43
2:R:45:THR:HA	2:R:60:THR:HA	2.00	0.43
2:R:141:GLN:O	2:R:142:THR:C	2.57	0.43
2:R:252:ASP:OD1	2:R:257:HIS:NE2	2.49	0.43
2:S:183:ASN:HA	2:S:186:ILE:HD12	1.99	0.43
2:S:411:ASN:CG	2:S:415:ASN:HB2	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:563:GLU:O	2:S:564:TYR:CG	2.71	0.43
2:T:222:ASN:O	2:T:240:GLN:NE2	2.48	0.43
2:U:74:TYR:HA	2:U:564:TYR:OH	2.18	0.43
2:U:331:ILE:HD11	2:U:476:MET:CG	2.48	0.43
2:V:492:SER:HB3	2:V:499:GLY:H	1.83	0.43
3:X:15:VAL:O	3:X:18:GLN:HB3	2.18	0.43
3:X:130:LEU:HD11	3:X:134:ALA:HB2	2.00	0.43
3:X:421:TYR:CG	3:X:527:SER:HA	2.54	0.43
3:Y:40:ILE:HG23	3:Y:588:ILE:HD12	2.01	0.43
3:Y:106:THR:O	3:Y:107:GLN:CB	2.66	0.43
3:Y:321:LEU:O	3:Y:325:THR:HG23	2.19	0.43
3:Z:73:PHE:CD2	3:Z:416:SER:HB3	2.54	0.43
1:A:128:SER:HB3	1:A:133:TYR:CD2	2.54	0.43
1:B:336:LYS:O	1:B:339:ILE:HB	2.19	0.43
1:B:445:LEU:HD11	1:B:517:ILE:HD13	2.01	0.43
1:B:513:GLY:O	1:B:516:ASP:OD1	2.36	0.43
1:B:518:THR:HG23	2:N:414:LYS:HG2	2.01	0.43
1:C:253:TYR:CD1	1:C:267:ALA:HB2	2.53	0.43
1:C:697:ARG:NH2	2:Q:106:ASN:O	2.52	0.43
1:D:40:TYR:HA	2:Q:544:GLU:HB2	2.00	0.43
1:D:265:LYS:HD3	1:D:612:ASN:O	2.19	0.43
1:D:414:ASN:O	1:D:414:ASN:OD1	2.36	0.43
1:E:145:PHE:HA	1:E:150:ASN:O	2.19	0.43
1:E:462:LYS:HD3	1:E:472:ASP:OD1	2.19	0.43
1:F:501:THR:C	2:V:415:ASN:O	2.57	0.43
1:G:29:GLN:O	1:G:33:GLY:N	2.47	0.43
1:G:307:GLN:OE1	1:G:307:GLN:N	2.52	0.43
1:G:725:MET:SD	3:Z:627:LEU:HD11	2.59	0.43
1:H:170:TYR:HA	1:H:687:TYR:CE2	2.54	0.43
1:H:499:MET:HB3	1:H:509:GLY:HA2	2.00	0.43
1:I:171:ASN:CG	1:I:172:ILE:N	2.72	0.43
1:I:196:THR:HB	1:I:210:LYS:O	2.19	0.43
1:I:207:ASP:OD1	1:I:207:ASP:N	2.52	0.43
1:J:47:ILE:O	2:T:533:ARG:NH1	2.41	0.43
1:J:499:MET:SD	2:T:415:ASN:ND2	2.88	0.43
1:J:528:MET:O	1:J:533:LYS:N	2.49	0.43
1:J:571:TYR:CD2	1:J:572:LYS:HG3	2.54	0.43
1:J:716:ASP:O	1:J:719:GLU:HG3	2.19	0.43
1:K:7:LEU:H	2:S:565:GLN:CB	2.31	0.43
1:K:200:TRP:HB3	1:K:205:ASP:OD2	2.19	0.43
1:K:327:PRO:HA	1:K:389:LEU:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:186:ILE:HG21	2:L:224:ILE:HG21	2.01	0.43
2:L:410:ASP:OD2	2:L:420:VAL:HG23	2.18	0.43
2:M:56:VAL:HG22	2:M:57:GLY:N	2.34	0.43
2:M:299:LEU:HD23	2:M:315:ILE:HD12	2.01	0.43
2:M:321:ASP:O	2:M:325:THR:OG1	2.17	0.43
2:N:227:ASP:OD1	2:N:228:ASN:N	2.52	0.43
2:N:343:LYS:O	2:N:449:VAL:N	2.41	0.43
2:O:378:ASP:O	2:O:381:GLY:N	2.51	0.43
2:O:423:HIS:O	2:O:447:PHE:CD2	2.71	0.43
2:Q:445:SER:HB2	2:Q:447:PHE:CZ	2.54	0.43
2:Q:604:LEU:HG	2:Q:607:LYS:HD3	2.00	0.43
2:R:46:ASN:OD1	2:R:61:ALA:HB2	2.18	0.43
2:S:171:GLU:HA	2:S:174:LYS:HG2	2.00	0.43
2:S:385:LEU:C	2:S:385:LEU:CD1	2.85	0.43
2:S:394:ASN:O	2:S:396:THR:N	2.52	0.43
2:S:583:GLN:HA	2:S:586:TYR:HE1	1.82	0.43
2:T:3:ILE:HG21	2:T:600:LEU:HD12	2.00	0.43
2:T:35:PHE:O	2:T:36:TYR:HB3	2.18	0.43
2:T:419:ASP:N	2:T:419:ASP:OD1	2.50	0.43
2:U:105:GLN:O	2:U:106:ASN:HB2	2.17	0.43
2:U:168:THR:O	2:U:172:ILE:N	2.38	0.43
2:U:265:ASP:O	2:U:268:LYS:CG	2.66	0.43
2:U:310:LYS:HZ3	2:U:312:GLU:HG3	1.84	0.43
2:V:128:ASN:O	2:V:128:ASN:ND2	2.51	0.43
2:V:377:TYR:CE2	2:V:380:LYS:O	2.72	0.43
3:W:37:THR:OG1	3:W:38:LYS:N	2.52	0.43
3:W:583:SER:O	3:W:587:ASP:N	2.37	0.43
3:X:607:ASP:O	3:X:611:ASN:ND2	2.50	0.43
3:Y:407:ASP:N	3:Y:407:ASP:OD1	2.52	0.43
3:Z:80:GLY:HA2	3:Z:294:PHE:CD1	2.54	0.43
3:Z:457:PHE:O	3:Z:468:LEU:N	2.38	0.43
1:A:129:VAL:HG23	1:A:129:VAL:O	2.19	0.43
1:A:213:THR:HA	1:A:300:MET:SD	2.59	0.43
1:A:449:MET:HE1	1:A:453:SER:N	2.33	0.43
1:A:463:VAL:HG13	1:A:589:ILE:HD12	2.01	0.43
1:A:706:GLN:O	1:A:709:LYS:HG2	2.19	0.43
1:B:461:LEU:HD13	1:B:591:LEU:HD13	2.00	0.43
1:C:205:ASP:HB3	1:C:208:LYS:CG	2.47	0.43
1:C:463:VAL:HG11	1:C:471:TYR:CE2	2.54	0.43
1:C:642:ASP:O	1:C:646:LYS:N	2.42	0.43
1:D:456:GLY:N	1:D:478:GLN:HB2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:649:MET:SD	1:D:663:MET:HG3	2.59	0.43
1:G:113:GLU:OE1	1:G:113:GLU:N	2.43	0.43
1:H:56:ILE:O	1:H:59:LEU:N	2.49	0.43
1:H:541:ALA:HB2	1:H:546:ILE:HG23	2.01	0.43
1:H:719:GLU:OE1	1:I:13:VAL:HG22	2.18	0.43
1:J:451:GLY:O	1:J:615:ASN:HA	2.19	0.43
2:L:105:GLN:O	2:L:106:ASN:OD1	2.37	0.43
2:M:273:TYR:HA	2:M:284:LEU:N	2.33	0.43
2:M:332:ASN:OD1	2:M:336:ASN:ND2	2.51	0.43
2:M:574:GLU:O	2:M:577:ALA:N	2.51	0.43
2:N:141:GLN:HA	2:N:144:THR:HG22	1.99	0.43
2:O:500:ASN:ND2	2:O:504:ASN:OD1	2.51	0.43
2:O:538:LYS:HD3	2:U:134:ILE:HG23	2.00	0.43
2:P:187:TYR:HB2	2:P:237:PRO:HG2	2.01	0.43
2:P:260:LYS:O	2:P:273:TYR:N	2.48	0.43
2:Q:372:PHE:CE2	2:Q:374:ILE:HD11	2.54	0.43
2:Q:560:VAL:O	2:Q:563:GLU:CB	2.67	0.43
2:R:20:GLN:HG3	2:R:582:TYR:CZ	2.54	0.43
2:R:123:PHE:O	2:R:126:ASN:N	2.47	0.43
2:S:36:TYR:O	2:S:569:GLY:HA2	2.18	0.43
2:S:338:TYR:HD2	2:S:465:GLY:O	2.02	0.43
2:U:322:SER:HA	2:U:519:GLU:OE2	2.19	0.43
2:U:415:ASN:C	2:U:415:ASN:ND2	2.71	0.43
2:V:236:ASP:O	2:V:240:GLN:HB3	2.19	0.43
3:W:195:GLU:HB2	3:W:257:GLN:HA	2.01	0.43
3:W:195:GLU:N	3:W:257:GLN:HA	2.34	0.43
3:Y:480:THR:HG23	3:Y:480:THR:O	2.19	0.43
3:Y:589:LYS:NZ	3:Y:593:THR:OG1	2.39	0.43
1:A:227:VAL:HG23	1:A:230:ASN:H	1.84	0.43
1:A:464:ASN:OD1	1:A:470:SER:HA	2.19	0.43
1:B:628:GLU:N	1:B:628:GLU:CD	2.73	0.43
1:C:233:ASP:O	1:C:235:ASP:N	2.46	0.43
1:C:336:LYS:O	1:C:340:GLU:OE1	2.36	0.43
1:D:87:LEU:HD11	1:D:677:VAL:HG21	2.00	0.43
1:D:440:THR:H	1:D:443:THR:CB	2.31	0.43
1:F:413:ASP:HA	1:F:620:ALA:HA	2.00	0.43
1:F:500:HIS:CG	2:V:413:ASN:HB3	2.53	0.43
1:G:84:VAL:HG22	1:G:677:VAL:HG11	2.00	0.43
1:G:264:PHE:HA	1:G:613:GLY:N	2.34	0.43
1:H:420:ASN:O	1:H:423:THR:N	2.43	0.43
1:I:2:ARG:C	2:P:565:GLN:HA	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:50:THR:HB	2:P:533:ARG:HG2	2.01	0.43
1:I:570:ASP:OD2	1:I:574:ARG:HB2	2.19	0.43
1:J:427:ASN:ND2	1:J:619:SER:OG	2.42	0.43
1:K:1:MET:O	2:S:571:ASN:HB2	2.19	0.43
1:K:242:ASP:OD1	1:K:243:SER:N	2.49	0.43
2:L:272:ILE:HG12	2:L:287:LYS:HE3	2.01	0.43
2:L:331:ILE:HG23	2:L:468:PHE:CD2	2.54	0.43
2:L:444:LYS:O	2:L:447:PHE:CG	2.72	0.43
2:M:26:ASN:ND2	2:M:30:ASN:O	2.50	0.43
2:M:27:ASN:HA	2:M:30:ASN:HA	2.01	0.43
2:M:37:THR:HG21	2:M:67:ARG:HB2	2.01	0.43
2:N:40:ARG:O	2:N:65:ILE:HA	2.19	0.43
2:N:240:GLN:N	2:N:253:GLY:HA3	2.34	0.43
2:O:245:ILE:HD13	2:O:250:ILE:HG12	2.00	0.43
2:O:316:ILE:H	2:O:316:ILE:HD12	1.83	0.43
2:O:526:LEU:HG	2:O:527:THR:O	2.19	0.43
2:P:265:ASP:OD2	2:P:267:ASN:HB2	2.19	0.43
2:P:453:ASP:OD1	2:P:454:LYS:N	2.52	0.43
2:Q:469:SER:O	2:Q:477:LYS:N	2.51	0.43
2:Q:515:ASN:HA	2:Q:525:ASN:HA	2.01	0.43
2:R:191:ALA:O	2:R:192:LEU:C	2.58	0.43
2:R:388:THR:O	2:R:389:ILE:HD13	2.19	0.43
2:S:211:LEU:HD12	2:S:214:LEU:HD12	2.00	0.43
2:S:274:TYR:HB2	2:S:284:LEU:HD11	2.00	0.43
2:S:513:LYS:HE2	2:S:526:LEU:HA	2.01	0.43
2:T:68:LEU:HD22	2:T:568:SER:HA	2.00	0.43
2:T:169:VAL:O	2:T:173:ASN:OD1	2.37	0.43
2:U:120:TRP:CD1	2:U:507:ILE:HG13	2.54	0.43
2:U:297:LEU:HD23	2:U:300:ARG:HD3	2.01	0.43
2:U:325:THR:O	2:U:329:THR:N	2.50	0.43
2:U:409:ASP:O	2:U:410:ASP:CB	2.67	0.43
2:V:379:ASP:OD1	2:V:496:VAL:N	2.50	0.43
2:V:392:ASP:OD1	2:V:395:THR:N	2.41	0.43
3:X:457:PHE:CE1	3:X:532:ILE:HG23	2.53	0.43
3:Y:415:PHE:CD2	3:Y:560:PHE:HB2	2.54	0.43
3:Y:433:THR:OG1	3:Y:516:THR:OG1	2.36	0.43
3:Y:567:LEU:O	3:Y:571:THR:OG1	2.31	0.43
3:Z:471:ASN:HA	3:Z:494:HIS:CE1	2.54	0.43
1:A:570:ASP:O	1:A:572:LYS:N	2.51	0.42
1:B:222:ILE:HG21	1:B:226:TYR:CE2	2.54	0.42
1:B:453:SER:OG	1:B:455:ASN:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:207:ASP:OD1	1:C:208:LYS:N	2.52	0.42
1:C:322:ALA:HB3	1:C:394:PHE:CE2	2.54	0.42
1:D:46:TYR:CE2	1:D:50:THR:CG2	3.01	0.42
1:D:268:VAL:HB	1:D:608:SER:HA	2.01	0.42
1:D:269:LEU:HD23	1:D:604:PHE:HE1	1.83	0.42
1:D:543:ASN:OD1	1:D:543:ASN:C	2.58	0.42
1:E:84:VAL:O	1:E:88:GLU:OE1	2.37	0.42
1:E:341:ALA:HB2	1:E:383:GLN:OE1	2.19	0.42
1:E:439:ALA:HB3	1:E:569:MET:HE1	2.01	0.42
1:E:508:SER:O	1:E:548:ASN:HA	2.19	0.42
1:F:502:ASN:HB3	1:F:503:PRO:HD2	2.00	0.42
1:G:260:ASP:OD1	1:G:262:THR:HG23	2.19	0.42
1:H:413:ASP:OD1	1:H:413:ASP:N	2.49	0.42
1:I:94:VAL:HG11	1:I:670:LEU:CD1	2.49	0.42
1:I:217:LYS:HG2	1:I:275:THR:HG22	2.00	0.42
1:I:280:MET:SD	1:I:281:GLU:N	2.92	0.42
1:I:290:THR:OG1	1:I:293:ASN:N	2.52	0.42
1:I:298:VAL:HG12	1:I:299:SER:N	2.34	0.42
1:I:356:VAL:HG13	1:I:376:VAL:HG11	2.01	0.42
1:J:248:PRO:O	1:J:249:PRO:C	2.57	0.42
1:J:401:ASP:OD1	1:J:405:ASN:N	2.52	0.42
1:K:1:MET:CA	2:S:566:SER:HA	2.49	0.42
1:K:276:LEU:O	1:K:280:MET:N	2.44	0.42
2:L:485:ASP:OD1	2:L:485:ASP:O	2.37	0.42
2:L:492:SER:CB	2:L:494:ASN:OD1	2.67	0.42
2:M:285:THR:HG23	2:M:288:ILE:HD11	2.00	0.42
2:M:420:VAL:O	2:M:424:ILE:HG12	2.19	0.42
2:N:187:TYR:CG	2:N:188:GLY:N	2.87	0.42
2:N:290:GLY:O	2:N:291:GLY:C	2.56	0.42
2:N:326:PHE:CZ	2:N:528:MET:SD	3.12	0.42
2:N:458:PHE:CG	2:N:459:ALA:N	2.87	0.42
2:O:3:ILE:HD12	2:O:3:ILE:H	1.84	0.42
2:O:56:VAL:CG1	2:U:65:ILE:CD1	2.97	0.42
2:O:485:ASP:OD1	2:O:487:SER:OG	2.34	0.42
2:O:553:ASN:O	2:O:556:LEU:HB3	2.19	0.42
2:P:477:LYS:NZ	2:P:478:VAL:O	2.45	0.42
2:P:516:PHE:CE2	2:P:526:LEU:HB2	2.54	0.42
2:Q:472:ASP:O	2:Q:476:MET:HB2	2.18	0.42
2:S:151:PHE:CE1	2:S:473:ALA:HB3	2.54	0.42
2:T:40:ARG:N	2:T:66:VAL:O	2.47	0.42
2:T:88:LYS:HD2	2:T:89:TYR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:117:ASN:HA	2:T:120:TRP:HD1	1.82	0.42
2:T:234:ILE:HG22	2:T:235:THR:N	2.33	0.42
2:V:429:SER:O	2:V:438:LEU:N	2.40	0.42
3:W:261:PHE:CZ	3:W:268:MET:HG3	2.54	0.42
3:W:360:VAL:N	3:W:376:VAL:O	2.39	0.42
3:X:54:LYS:O	3:X:57:LEU:HB3	2.19	0.42
3:Y:78:VAL:HG22	3:Y:92:VAL:HG11	2.01	0.42
3:Y:104:ASN:HB2	3:Y:262:THR:HG23	2.01	0.42
3:Y:505:VAL:HG11	3:Y:520:LEU:HD21	1.99	0.42
3:Z:13:SER:HG	3:Z:17:THR:HG1	1.55	0.42
1:A:531:ALA:HB3	1:A:561:SER:HB2	2.01	0.42
1:B:263:SER:O	1:B:612:ASN:ND2	2.51	0.42
1:C:72:MET:SD	1:C:73:THR:N	2.92	0.42
1:C:444:LYS:HA	1:C:518:THR:HA	2.01	0.42
1:C:463:VAL:HG22	1:C:589:ILE:CG2	2.49	0.42
1:D:498:ILE:HG21	1:D:517:ILE:HG12	2.00	0.42
1:D:705:VAL:O	1:D:709:LYS:N	2.44	0.42
1:E:55:GLU:O	1:E:59:LEU:HD12	2.19	0.42
1:E:175:TRP:CE2	1:E:179:PHE:HB2	2.54	0.42
1:F:532:ASP:OD2	1:F:533:LYS:NZ	2.51	0.42
1:G:502:ASN:CG	1:G:503:PRO:HD2	2.40	0.42
1:G:503:PRO:HD3	2:O:409:ASP:O	2.19	0.42
1:I:88:GLU:O	1:I:92:VAL:HG23	2.19	0.42
1:I:499:MET:C	1:I:512:THR:OG1	2.58	0.42
1:K:254:VAL:HG13	1:K:320:PHE:CE1	2.54	0.42
1:K:538:THR:HG23	1:K:540:GLN:HE21	1.84	0.42
1:K:742:SER:O	1:K:746:LEU:HD13	2.19	0.42
2:M:85:GLU:OE2	2:M:88:LYS:NZ	2.39	0.42
2:M:423:HIS:C	2:M:444:LYS:HZ3	2.22	0.42
2:O:71:GLU:O	2:O:72:TYR:C	2.57	0.42
2:Q:20:GLN:O	2:Q:23:THR:HB	2.19	0.42
2:R:244:SER:HA	2:R:248:PHE:O	2.19	0.42
2:R:517:TYR:CD1	2:R:523:ILE:HG23	2.51	0.42
2:S:376:ILE:HG13	2:S:385:LEU:CD1	2.49	0.42
2:T:141:GLN:NE2	2:T:145:GLU:OE2	2.52	0.42
2:T:215:VAL:HG22	2:T:216:SER:N	2.34	0.42
2:T:242:ASN:OD1	2:T:242:ASN:O	2.37	0.42
2:T:408:THR:C	2:T:419:ASP:OD2	2.57	0.42
2:U:376:ILE:HD13	2:U:449:VAL:CG2	2.44	0.42
2:U:589:ALA:O	2:U:593:VAL:HG23	2.20	0.42
2:V:38:ARG:HG2	2:V:39:GLN:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:340:ILE:O	3:X:344:ASN:ND2	2.51	0.42
3:X:449:GLY:C	3:X:450:LEU:HD22	2.39	0.42
3:Y:486:GLU:O	3:Y:489:GLN:HG2	2.20	0.42
3:Z:385:LEU:HD12	3:Z:386:SER:H	1.84	0.42
1:A:100:ASP:HA	3:W:366:ASP:HB3	2.01	0.42
1:B:633:ILE:HD12	1:B:633:ILE:N	2.35	0.42
1:C:207:ASP:OD1	1:C:208:LYS:HD3	2.19	0.42
1:C:250:THR:N	1:C:270:VAL:O	2.52	0.42
1:D:595:GLN:HA	1:D:598:GLN:HB2	2.01	0.42
1:E:71:GLU:HG2	1:E:72:MET:N	2.34	0.42
1:F:500:HIS:O	2:V:415:ASN:HB3	2.19	0.42
1:F:503:PRO:HB3	2:V:412:ASP:OD2	2.19	0.42
1:H:486:ASP:HB3	1:H:492:GLN:HB2	2.01	0.42
1:J:237:ASP:OD1	1:J:237:ASP:N	2.52	0.42
1:J:745:SER:HA	1:J:748:ASN:OD1	2.20	0.42
1:K:30:LEU:HD11	1:K:720:ALA:HB3	2.01	0.42
1:K:115:GLU:OE2	1:K:119:GLU:OE2	2.37	0.42
2:L:469:SER:N	2:L:477:LYS:O	2.52	0.42
2:L:531:TYR:O	2:L:535:LEU:HD13	2.20	0.42
2:N:41:VAL:HA	2:N:64:SER:O	2.20	0.42
2:N:285:THR:HG22	2:N:302:ARG:O	2.18	0.42
2:N:328:LYS:NZ	2:N:332:ASN:OD1	2.37	0.42
2:O:376:ILE:CG2	2:O:385:LEU:HB2	2.49	0.42
2:Q:259:LEU:HD12	2:Q:272:ILE:CG2	2.48	0.42
2:R:578:ALA:HB1	2:R:582:TYR:CZ	2.54	0.42
2:T:233:THR:O	2:T:234:ILE:HG13	2.19	0.42
2:T:259:LEU:HD22	2:T:284:LEU:HD12	2.00	0.42
2:T:361:VAL:HG22	2:T:367:ILE:O	2.19	0.42
2:T:411:ASN:HB2	2:T:419:ASP:OD1	2.20	0.42
2:T:428:PHE:CG	2:T:429:SER:N	2.87	0.42
2:U:149:ASN:O	2:U:153:THR:N	2.43	0.42
2:U:245:ILE:HB	2:U:250:ILE:HB	2.02	0.42
3:W:114:TYR:HD2	3:W:188:LEU:HB2	1.85	0.42
3:W:185:ARG:C	3:W:186:LEU:HD12	2.39	0.42
3:W:359:VAL:HG23	3:W:377:MET:SD	2.59	0.42
3:W:637:ALA:O	3:W:641:ASN:HB3	2.19	0.42
3:Y:383:PHE:CD1	3:Y:403:LYS:HG2	2.54	0.42
3:Z:54:LYS:HD2	3:Z:54:LYS:C	2.40	0.42
3:Z:321:LEU:HD22	3:Z:343:VAL:HG12	2.01	0.42
1:A:446:SER:HA	1:A:454:LEU:HD11	2.02	0.42
1:B:143:LYS:C	1:B:143:LYS:HD2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:190:SER:N	1:B:624:LEU:O	2.46	0.42
1:B:258:LYS:O	1:B:317:LYS:O	2.37	0.42
1:C:13:VAL:HG12	1:C:17:MET:HE2	2.01	0.42
1:C:36:ILE:HB	1:C:41:GLU:OE1	2.18	0.42
1:D:443:THR:HG22	1:D:444:LYS:N	2.34	0.42
1:D:651:ALA:HB3	1:D:661:THR:OG1	2.19	0.42
1:D:748:ASN:OD1	1:E:732:GLN:HA	2.19	0.42
1:F:93:LYS:O	1:F:96:GLN:HG3	2.19	0.42
1:F:198:ASN:HB3	1:F:221:LEU:O	2.19	0.42
1:F:227:VAL:HG21	1:F:232:LEU:HD13	1.99	0.42
1:F:391:GLN:NE2	1:F:409:GLY:H	2.17	0.42
1:F:507:ASN:OD1	2:V:414:LYS:HE2	2.19	0.42
1:G:250:THR:HG23	1:G:325:PHE:O	2.20	0.42
1:G:503:PRO:HA	2:O:416:SER:HB3	2.00	0.42
1:H:56:ILE:HD11	1:H:705:VAL:HG22	2.02	0.42
1:I:321:HIS:CE1	1:I:412:TYR:CE1	3.07	0.42
1:I:399:MET:O	1:I:407:ALA:HB3	2.18	0.42
1:I:493:THR:HG22	1:I:494:ILE:N	2.35	0.42
1:I:508:SER:N	1:I:548:ASN:OD1	2.53	0.42
1:I:697:ARG:HA	1:I:700:PHE:CE2	2.54	0.42
1:J:124:LEU:HA	1:J:127:THR:OG1	2.19	0.42
1:J:253:TYR:CD2	1:J:267:ALA:HB2	2.55	0.42
1:J:551:TYR:CE2	2:T:416:SER:CB	3.02	0.42
1:J:677:VAL:HG13	1:J:678:SER:N	2.34	0.42
1:K:2:ARG:HD3	2:S:570:VAL:CA	2.49	0.42
1:K:419:LYS:HE3	1:K:585:THR:HG23	2.00	0.42
2:L:168:THR:O	2:L:172:ILE:HG12	2.19	0.42
2:L:341:SER:HB2	2:L:502:MET:SD	2.60	0.42
2:L:377:TYR:CE2	2:L:450:ALA:HB2	2.54	0.42
2:M:37:THR:CG2	2:M:67:ARG:HB2	2.49	0.42
2:N:13:GLY:O	2:N:16:ALA:HB3	2.19	0.42
2:O:516:PHE:CZ	2:O:528:MET:HG2	2.54	0.42
2:P:377:TYR:CD1	2:P:377:TYR:N	2.88	0.42
2:P:441:ILE:HG22	2:P:442:ASN:N	2.35	0.42
2:P:469:SER:N	2:P:477:LYS:O	2.40	0.42
2:R:377:TYR:N	2:R:448:LYS:O	2.40	0.42
2:R:400:ILE:HG22	2:R:404:ILE:CD1	2.50	0.42
2:S:215:VAL:HG22	2:S:216:SER:N	2.35	0.42
2:S:257:HIS:O	2:S:259:LEU:HD12	2.19	0.42
2:S:348:SER:OG	2:S:351:LEU:HD12	2.18	0.42
2:S:392:ASP:OD1	2:S:392:ASP:N	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:526:LEU:HD21	2:S:534:LYS:HD2	2.01	0.42
2:T:352:SER:HA	2:T:436:ASP:HA	2.01	0.42
2:V:168:THR:OG1	2:V:296:GLN:OE1	2.36	0.42
2:V:168:THR:HG22	2:V:172:ILE:CD1	2.49	0.42
2:V:180:ALA:HB1	2:V:255:ASN:CA	2.49	0.42
2:V:274:TYR:N	2:V:284:LEU:HD23	2.34	0.42
3:W:87:PRO:O	3:W:105:VAL:HB	2.20	0.42
3:W:138:PHE:HZ	3:W:158:LEU:HG	1.84	0.42
3:X:414:PHE:CE1	3:X:559:ILE:HD13	2.54	0.42
3:X:429:GLU:OE2	3:X:431:ILE:HG13	2.20	0.42
3:Y:116:SER:OG	3:Y:117:LYS:N	2.52	0.42
3:Y:263:LEU:N	3:Y:266:ILE:O	2.48	0.42
3:Y:440:LEU:HD13	3:Y:483:THR:HA	2.01	0.42
3:Y:530:PHE:O	3:Y:548:ASN:OD1	2.37	0.42
1:A:140:VAL:HG21	1:A:158:ILE:HD12	2.02	0.42
1:B:329:ALA:HB3	1:B:335:LEU:CD2	2.50	0.42
1:B:489:ASN:HB3	1:B:490:PRO:HD2	2.01	0.42
1:C:138:SER:HA	1:C:171:ASN:ND2	2.34	0.42
1:C:192:ASN:ND2	1:C:653:SER:HA	2.34	0.42
1:C:736:LYS:O	1:C:740:THR:OG1	2.26	0.42
1:D:24:TYR:O	1:D:27:SER:N	2.52	0.42
1:D:269:LEU:HD23	1:D:604:PHE:CE1	2.55	0.42
1:D:289:ASN:OD1	1:D:295:VAL:HG22	2.19	0.42
1:D:531:ALA:O	1:D:533:LYS:NZ	2.51	0.42
1:D:602:PRO:O	1:D:604:PHE:CD2	2.73	0.42
1:E:3:ILE:CD1	2:L:562:SER:HA	2.50	0.42
1:E:3:ILE:HG12	1:E:7:LEU:HB2	2.01	0.42
1:E:133:TYR:CD1	1:E:143:LYS:HA	2.55	0.42
1:E:570:ASP:HB3	1:E:576:SER:CB	2.49	0.42
1:E:633:ILE:HG12	1:E:673:LEU:HG	2.02	0.42
1:E:673:LEU:O	1:E:677:VAL:HG22	2.20	0.42
1:F:2:ARG:NH2	2:V:37:THR:O	2.53	0.42
1:F:224:GLN:OE1	1:F:230:ASN:HA	2.18	0.42
1:G:71:GLU:O	1:G:75:ASN:ND2	2.52	0.42
1:G:111:ALA:O	1:G:115:GLU:OE1	2.37	0.42
1:G:181:ALA:HA	1:G:629:PRO:O	2.19	0.42
1:G:646:LYS:CD	1:G:648:ASN:OD1	2.67	0.42
1:H:9:PHE:CE2	2:O:581:GLN:HG3	2.55	0.42
1:H:26:ILE:HG21	1:H:724:LEU:HD12	2.01	0.42
1:H:165:GLY:H	2:U:508:GLN:NE2	2.18	0.42
1:I:439:ALA:HB1	1:I:519:TYR:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:91:LYS:HD3	1:J:670:LEU:HB3	2.00	0.42
1:J:211:TYR:CD1	1:J:304:GLY:HA3	2.54	0.42
1:K:7:LEU:N	2:S:565:GLN:HG2	2.35	0.42
1:K:713:ILE:HG23	1:K:714:ASP:N	2.34	0.42
2:L:180:ALA:HB2	2:L:259:LEU:HD11	2.00	0.42
2:M:161:VAL:O	2:M:165:ILE:HG13	2.19	0.42
2:M:496:VAL:HG12	2:M:497:ASP:N	2.34	0.42
2:N:251:VAL:HB	2:N:255:ASN:ND2	2.35	0.42
2:N:408:THR:N	2:N:416:SER:OG	2.52	0.42
2:N:469:SER:OG	2:N:479:LYS:HA	2.20	0.42
2:N:488:THR:O	2:N:490:ARG:NE	2.53	0.42
2:O:32:ASN:O	2:O:33:ALA:C	2.58	0.42
2:P:54:VAL:O	2:T:193:PRO:N	2.52	0.42
2:Q:107:THR:O	2:Q:108:GLY:C	2.57	0.42
2:Q:129:GLU:OE2	2:Q:131:ALA:HB3	2.19	0.42
2:T:241:TYR:CE2	2:T:253:GLY:HA2	2.54	0.42
2:U:37:THR:OG1	2:U:38:ARG:N	2.51	0.42
2:V:283:ASP:O	2:V:284:LEU:HD22	2.19	0.42
3:W:114:TYR:HE2	3:W:116:SER:HB3	1.85	0.42
3:W:137:THR:CG2	3:W:144:GLU:HG2	2.50	0.42
3:W:138:PHE:CE2	3:W:162:ILE:HG13	2.54	0.42
3:W:413:SER:HB3	3:W:556:GLY:O	2.19	0.42
3:X:34:ASP:O	3:X:37:THR:N	2.53	0.42
3:Y:76:ARG:HG2	3:Y:94:SER:HA	2.00	0.42
1:A:71:GLU:O	1:A:74:GLN:HG2	2.20	0.42
1:A:138:SER:OG	1:A:156:ASN:HB2	2.19	0.42
1:A:187:LYS:NZ	1:A:316:ASN:OD1	2.48	0.42
1:B:91:LYS:O	1:B:91:LYS:HD3	2.19	0.42
1:B:624:LEU:HD13	1:B:661:THR:HG21	2.01	0.42
1:C:441:ASP:HB3	1:C:520:GLY:HA3	2.01	0.42
1:C:541:ALA:O	1:C:545:GLN:N	2.49	0.42
1:C:547:ASN:OD1	1:C:548:ASN:N	2.53	0.42
1:D:7:LEU:HD21	2:Q:561:TYR:CD2	2.54	0.42
1:D:176:ASP:HA	1:D:180:LYS:CB	2.49	0.42
1:D:178:PHE:O	1:D:631:VAL:HG12	2.18	0.42
1:E:70:GLN:HE22	1:E:695:ASN:HB3	1.84	0.42
1:E:224:GLN:OE1	1:E:230:ASN:ND2	2.32	0.42
1:E:499:MET:SD	1:E:511:VAL:HG22	2.59	0.42
1:E:631:VAL:HG11	1:E:673:LEU:CD2	2.50	0.42
1:E:704:ASN:O	1:E:708:ILE:HG22	2.20	0.42
1:F:402:THR:HG23	1:F:415:VAL:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:464:ASN:HB2	1:F:588:GLU:HB2	2.02	0.42
1:F:500:HIS:CD2	2:V:415:ASN:HB2	2.54	0.42
1:G:128:SER:HB2	1:G:133:TYR:CE1	2.55	0.42
1:G:680:LEU:O	1:G:683:THR:OG1	2.27	0.42
1:H:72:MET:HE1	1:H:134:LEU:HD13	2.00	0.42
1:I:90:PHE:CE2	1:I:121:ILE:HD11	2.55	0.42
1:J:386:THR:C	1:J:387:ILE:HD12	2.40	0.42
1:J:463:VAL:HG12	1:J:464:ASN:N	2.34	0.42
1:J:502:ASN:HA	2:T:416:SER:N	2.35	0.42
1:K:74:GLN:NE2	3:X:327:TYR:OH	2.53	0.42
1:K:187:LYS:O	1:K:310:ASP:N	2.43	0.42
1:K:290:THR:HB	1:K:291:PRO:HD2	2.02	0.42
1:K:464:ASN:O	1:K:587:ILE:HG23	2.19	0.42
2:L:444:LYS:HG2	2:L:445:SER:N	2.34	0.42
2:M:562:SER:O	2:M:565:GLN:HB3	2.19	0.42
2:N:206:GLU:O	2:N:209:LEU:HB3	2.20	0.42
2:N:324:ASP:HA	2:N:327:ALA:HB3	2.01	0.42
2:O:95:GLN:HA	2:O:98:ALA:HB3	2.00	0.42
2:O:330:MET:HB3	2:O:528:MET:HE1	2.00	0.42
2:O:351:LEU:HB2	2:O:437:GLY:O	2.19	0.42
2:P:53:GLY:HA3	2:T:194:THR:HG23	2.01	0.42
2:P:367:ILE:HD11	2:P:461:ALA:HB3	2.01	0.42
2:Q:346:VAL:HG11	2:Q:464:ILE:CG2	2.45	0.42
2:Q:405:ASN:HA	2:Q:421:ASP:HB3	2.02	0.42
2:Q:418:ASP:OD1	2:Q:423:HIS:CE1	2.73	0.42
2:R:157:ILE:O	2:R:161:VAL:HG23	2.20	0.42
2:R:287:LYS:HG3	2:R:287:LYS:O	2.18	0.42
2:R:361:VAL:HB	2:R:367:ILE:O	2.19	0.42
2:S:305:SER:OG	2:S:308:GLU:OE1	2.29	0.42
2:S:392:ASP:OD1	2:S:395:THR:OG1	2.20	0.42
2:T:78:LYS:O	2:T:81:SER:HB2	2.20	0.42
2:T:222:ASN:HB3	2:T:239:HIS:NE2	2.34	0.42
2:U:73:SER:OG	2:U:564:TYR:OH	2.29	0.42
2:V:402:ARG:HA	2:V:402:ARG:NE	2.35	0.42
3:W:268:MET:SD	3:X:177:THR:HB	2.59	0.42
3:W:301:GLU:OE1	3:W:305:LYS:HD3	2.19	0.42
3:W:422:GLU:HG2	3:W:554:ILE:HD11	2.01	0.42
1:A:24:TYR:CE1	1:A:28:GLN:OE1	2.72	0.42
1:A:403:ASP:OD1	1:A:405:ASN:OD1	2.38	0.42
1:A:529:PHE:CD1	1:A:534:ILE:HD13	2.54	0.42
1:A:606:THR:O	1:A:607:THR:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:73:THR:HB	1:B:77:MET:HE2	2.01	0.42
1:B:489:ASN:HB3	1:B:490:PRO:CD	2.49	0.42
1:C:57:LYS:HD2	2:M:114:GLU:HG3	2.00	0.42
1:C:108:GLU:HG3	1:C:645:LEU:HD23	2.01	0.42
1:C:669:ARG:O	1:C:673:LEU:HG	2.20	0.42
1:C:743:GLN:OE1	1:C:743:GLN:N	2.49	0.42
1:D:364:PRO:O	1:D:368:ASP:HB2	2.19	0.42
1:E:260:ASP:OD1	1:E:261:GLY:N	2.53	0.42
1:E:470:SER:O	1:E:471:TYR:CD1	2.73	0.42
1:E:567:VAL:HG13	1:E:577:VAL:HG12	2.01	0.42
1:E:569:MET:HE3	1:E:573:GLY:O	2.20	0.42
1:F:379:THR:HB	1:F:382:ASN:HA	2.01	0.42
1:F:500:HIS:CD2	2:V:415:ASN:CB	3.03	0.42
1:G:356:VAL:O	1:G:376:VAL:CG1	2.68	0.42
1:G:432:ILE:HG22	1:G:433:LYS:O	2.20	0.42
1:G:511:VAL:HG23	1:G:544:GLY:C	2.40	0.42
1:G:722:MET:O	3:Z:620:LEU:HD23	2.19	0.42
1:H:158:ILE:HD11	1:H:170:TYR:CD1	2.54	0.42
1:H:222:ILE:CG2	1:H:326:THR:HG21	2.46	0.42
1:H:487:PRO:HD2	1:H:494:ILE:HD12	2.01	0.42
1:H:508:SER:HB2	1:H:551:TYR:CD2	2.55	0.42
1:H:679:LYS:O	1:H:683:THR:HG23	2.19	0.42
1:I:94:VAL:HG11	1:I:670:LEU:HD11	2.00	0.42
1:J:200:TRP:O	1:J:200:TRP:HE3	2.02	0.42
1:K:3:ILE:HD12	2:S:567:LYS:HB3	2.02	0.42
1:K:197:ASP:N	1:K:210:LYS:O	2.36	0.42
1:K:299:SER:O	1:K:307:GLN:N	2.47	0.42
2:L:514:VAL:O	2:L:525:ASN:HA	2.19	0.42
2:M:302:ARG:N	2:M:313:ASP:OD2	2.50	0.42
2:M:387:LYS:HE3	2:M:408:THR:HG21	2.01	0.42
2:N:16:ALA:O	2:N:19:VAL:HG22	2.20	0.42
2:N:19:VAL:O	2:N:22:ALA:N	2.53	0.42
2:N:393:VAL:HG23	2:N:394:ASN:N	2.35	0.42
2:N:525:ASN:C	2:N:526:LEU:HD12	2.40	0.42
2:N:585:SER:O	2:N:589:ALA:N	2.48	0.42
2:O:95:GLN:O	2:O:99:GLN:N	2.53	0.42
2:O:97:ILE:HA	2:O:100:ARG:CG	2.49	0.42
2:O:109:ILE:HG13	2:O:146:SER:OG	2.20	0.42
2:O:175:ILE:HD13	2:O:178:GLU:OE1	2.20	0.42
2:O:272:ILE:HD13	2:O:288:ILE:CD1	2.48	0.42
2:O:357:ASP:O	2:O:396:THR:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:203:ARG:CZ	2:U:552:SER:HA	2.49	0.42
2:P:370:GLY:O	2:P:391:ILE:HG22	2.20	0.42
2:P:518:ASN:ND2	2:P:524:ASP:OD1	2.47	0.42
2:Q:323:LEU:HA	2:Q:326:PHE:HD1	1.84	0.42
2:Q:574:GLU:CD	2:Q:574:GLU:C	2.78	0.42
2:Q:575:GLU:OE1	2:Q:575:GLU:N	2.49	0.42
2:R:202:ASP:O	2:R:205:ASP:N	2.53	0.42
2:R:410:ASP:HB2	2:R:418:ASP:O	2.20	0.42
2:S:147:VAL:O	2:S:151:PHE:N	2.34	0.42
2:S:302:ARG:N	2:S:313:ASP:OD2	2.52	0.42
2:S:489:VAL:O	2:S:497:ASP:OD1	2.37	0.42
2:T:44:THR:O	2:T:61:ALA:O	2.38	0.42
2:T:70:ASP:O	2:T:73:SER:N	2.52	0.42
2:T:203:ARG:O	2:T:206:GLU:HG3	2.19	0.42
2:T:546:ASN:HA	2:T:549:VAL:HG22	2.01	0.42
2:U:10:GLY:O	2:U:14:LEU:HB3	2.20	0.42
2:V:38:ARG:CG	2:V:39:GLN:N	2.81	0.42
2:V:119:ALA:HB3	2:V:136:LEU:HD13	2.02	0.42
3:X:363:THR:OG1	3:X:372:VAL:O	2.26	0.42
3:X:453:LYS:O	3:X:469:SER:CB	2.67	0.42
3:X:524:GLY:O	3:X:526:GLY:N	2.52	0.42
3:Y:462:ASN:HA	3:Y:528:SER:CB	2.49	0.42
3:Y:510:TYR:CZ	3:Y:512:GLN:HG2	2.54	0.42
3:Z:30:LYS:O	3:Z:34:ASP:HB2	2.20	0.42
3:Z:130:LEU:HG	3:Z:131:ASN:N	2.35	0.42
3:Z:193:THR:O	3:Z:197:SER:OG	2.30	0.42
3:Z:335:GLY:O	3:Z:338:GLN:HB3	2.20	0.42
3:Z:530:PHE:CE2	3:Z:547:VAL:HG11	2.55	0.42
1:A:62:VAL:HB	1:A:698:THR:HG21	2.01	0.42
1:A:328:GLN:N	1:A:388:ASP:O	2.51	0.42
1:A:379:THR:HA	1:A:384:GLN:HA	2.02	0.42
1:B:48:ASP:O	1:B:52:LEU:HD13	2.19	0.42
1:B:86:LEU:O	1:B:89:ASP:HB2	2.20	0.42
1:B:402:THR:HA	1:B:416:TYR:CZ	2.55	0.42
1:B:445:LEU:HD21	1:B:522:ILE:HD11	2.01	0.42
1:B:636:ASP:O	1:B:639:SER:OG	2.17	0.42
1:B:647:GLY:O	1:B:649:MET:HE2	2.19	0.42
1:C:193:VAL:HG22	1:C:394:PHE:O	2.20	0.42
1:C:252:LEU:HD12	1:C:323:VAL:O	2.19	0.42
1:D:252:LEU:HD11	1:D:322:ALA:HB1	2.02	0.42
1:D:486:ASP:HB3	1:D:492:GLN:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:494:ILE:HD13	1:D:536:THR:HA	2.02	0.42
1:F:333:ASP:O	1:F:336:LYS:HG2	2.20	0.42
1:H:59:LEU:HD13	1:H:702:SER:HA	2.02	0.42
1:H:136:ALA:O	1:H:154:ASP:OD1	2.37	0.42
1:H:565:VAL:HG22	1:H:566:ASP:N	2.35	0.42
1:H:602:PRO:HB3	1:H:604:PHE:CE2	2.55	0.42
1:I:140:VAL:HG11	1:I:158:ILE:HD11	2.02	0.42
1:I:335:LEU:HD23	1:I:339:ILE:HD12	2.01	0.42
1:I:500:HIS:ND1	1:I:511:VAL:O	2.52	0.42
1:I:510:VAL:HG22	1:I:545:GLN:OE1	2.19	0.42
1:I:626:ILE:O	1:I:627:ASP:HB2	2.20	0.42
1:I:631:VAL:HG22	1:I:673:LEU:CD2	2.50	0.42
1:J:512:THR:CG2	1:J:513:GLY:N	2.81	0.42
1:J:542:ASN:N	1:J:545:GLN:O	2.53	0.42
2:L:172:ILE:HD12	2:L:214:LEU:CG	2.49	0.42
2:M:259:LEU:HA	2:M:274:TYR:HB3	2.02	0.42
2:M:274:TYR:CE1	2:M:282:ARG:HB3	2.54	0.42
2:N:86:TYR:HA	2:N:292:GLN:HA	2.02	0.42
2:N:350:TYR:CE2	2:N:352:SER:HB3	2.54	0.42
2:O:515:ASN:HA	2:O:524:ASP:O	2.20	0.42
2:P:49:ILE:HG22	2:P:50:THR:N	2.35	0.42
2:P:54:VAL:CG2	2:T:194:THR:HA	2.49	0.42
2:P:72:TYR:O	2:P:75:TYR:N	2.53	0.42
2:P:606:LEU:HD11	2:T:586:TYR:HE2	1.84	0.42
2:Q:265:ASP:HB2	2:Q:304:TYR:CG	2.54	0.42
2:S:305:SER:HB3	2:S:312:GLU:OE2	2.20	0.42
2:S:326:PHE:CD1	2:S:531:TYR:CD2	3.08	0.42
2:S:342:ALA:HB3	2:S:495:GLY:HA3	2.01	0.42
2:T:212:SER:HA	2:T:215:VAL:O	2.20	0.42
2:T:353:GLY:N	2:T:435:GLY:O	2.48	0.42
2:T:401:MET:CE	2:T:404:ILE:HD12	2.50	0.42
2:U:177:GLU:OE2	2:U:181:THR:OG1	2.38	0.42
2:U:475:ASP:OD1	2:U:475:ASP:N	2.51	0.42
2:U:561:TYR:O	2:U:565:GLN:OE1	2.37	0.42
3:W:114:TYR:HD1	3:W:252:HIS:HA	1.85	0.42
3:W:202:TYR:HH	3:W:212:TYR:HB3	1.83	0.42
3:X:128:ALA:O	3:X:129:GLN:NE2	2.52	0.42
3:X:325:THR:HG21	3:X:347:ARG:NH1	2.35	0.42
3:X:442:SER:HA	3:X:482:LYS:HA	2.01	0.42
3:X:529:ASP:HA	3:X:550:THR:HA	2.01	0.42
3:Y:93:ASN:HB2	3:Y:281:GLY:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:268:MET:SD	3:Y:268:MET:N	2.93	0.42
3:Y:295:ASP:OD1	3:Y:296:VAL:N	2.52	0.42
3:Y:584:LEU:O	3:Y:588:ILE:HG12	2.19	0.42
3:Z:494:HIS:O	3:Z:498:LYS:N	2.53	0.42
1:A:379:THR:HA	1:A:383:GLN:O	2.20	0.42
1:B:114:LEU:HD13	1:B:117:ILE:HD12	2.01	0.42
1:B:132:GLN:O	1:B:134:LEU:HD23	2.20	0.42
1:B:217:LYS:HG2	1:B:275:THR:HG23	2.01	0.42
1:B:240:TYR:O	1:B:243:SER:N	2.53	0.42
1:B:425:TYR:HB2	1:B:574:ARG:NH1	2.34	0.42
1:C:133:TYR:N	1:C:140:VAL:O	2.39	0.42
1:D:4:THR:HA	2:Q:566:SER:CA	2.49	0.42
1:E:11:ASN:HA	1:E:14:ASN:OD1	2.20	0.42
1:E:128:SER:HB3	1:E:133:TYR:CD1	2.55	0.42
1:F:640:MET:HG2	1:F:662:GLY:HA2	2.01	0.42
1:F:716:ASP:HB3	1:F:719:GLU:HB3	2.00	0.42
1:G:2:ARG:HG2	2:O:571:ASN:HB2	2.01	0.42
1:G:100:ASP:OD1	3:Z:366:ASP:OD1	2.37	0.42
1:G:188:GLN:NE2	1:G:189:ILE:O	2.53	0.42
1:H:426:GLY:O	1:H:574:ARG:HB3	2.19	0.42
1:H:461:LEU:O	1:H:472:ASP:HA	2.20	0.42
1:I:240:TYR:H	1:I:243:SER:HB3	1.85	0.42
1:I:424:VAL:HG12	1:I:425:TYR:N	2.34	0.42
1:I:458:THR:C	1:I:459:LEU:HD12	2.40	0.42
1:I:511:VAL:HG12	1:I:512:THR:N	2.35	0.42
1:I:652:ASP:O	1:I:658:PRO:HA	2.19	0.42
1:J:107:ARG:HG2	1:J:644:VAL:HG23	2.02	0.42
1:J:258:LYS:O	1:J:261:GLY:N	2.53	0.42
1:J:550:ASP:O	1:J:554:ILE:HG12	2.20	0.42
1:K:34:LEU:HD22	1:K:713:ILE:CG1	2.48	0.42
1:K:402:THR:HA	1:K:416:TYR:CE1	2.54	0.42
1:K:643:ALA:O	1:K:647:GLY:N	2.53	0.42
2:L:376:ILE:HB	2:L:385:LEU:HB2	2.02	0.42
2:M:112:ASP:HA	2:M:115:ASN:ND2	2.35	0.42
2:M:355:LYS:HE3	2:M:358:ILE:HG12	2.02	0.42
2:M:424:ILE:N	2:M:444:LYS:HZ3	2.18	0.42
2:N:39:GLN:HB3	2:N:65:ILE:HG22	2.01	0.42
2:N:378:ASP:OD2	2:N:382:ASP:HB2	2.20	0.42
2:O:140:SER:O	2:O:143:LEU:HB3	2.20	0.42
2:O:187:TYR:HB3	2:O:236:ASP:HA	2.02	0.42
2:O:515:ASN:HB3	2:O:523:ILE:CG2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:558:ASN:O	2:O:561:TYR:HB2	2.20	0.42
2:P:35:PHE:CD2	2:P:203:ARG:HA	2.55	0.42
2:P:116:TYR:CD2	2:P:140:SER:HA	2.55	0.42
2:P:280:LYS:O	2:P:281:VAL:HG23	2.18	0.42
2:P:516:PHE:HB2	2:P:524:ASP:OD1	2.20	0.42
2:Q:35:PHE:HB2	2:Q:206:GLU:OE2	2.20	0.42
2:Q:67:ARG:HG3	2:Q:198:ASN:HB3	2.02	0.42
2:Q:160:LYS:O	2:Q:160:LYS:HD2	2.20	0.42
2:Q:221:LYS:HA	2:Q:240:GLN:O	2.19	0.42
2:Q:441:ILE:HD12	2:Q:464:ILE:HD13	2.00	0.42
2:R:15:LYS:O	2:R:19:VAL:HG22	2.20	0.42
2:R:419:ASP:OD1	2:R:420:VAL:N	2.52	0.42
2:R:489:VAL:O	2:R:490:ARG:NH1	2.53	0.42
2:V:97:ILE:HG22	2:V:157:ILE:HD13	2.01	0.42
2:V:326:PHE:CE1	2:V:528:MET:O	2.73	0.42
3:W:366:ASP:OD1	3:W:367:ALA:N	2.45	0.42
3:W:380:MET:HA	3:W:383:PHE:CZ	2.55	0.42
3:X:16:LEU:O	3:X:19:ASP:OD1	2.37	0.42
3:X:19:ASP:HA	3:X:22:ASP:HB2	2.01	0.42
3:X:432:LYS:HA	3:X:517:GLY:HA3	2.01	0.42
3:Y:27:ALA:O	3:Y:30:LYS:HG2	2.20	0.42
3:Y:33:ILE:O	3:Y:36:TYR:HB2	2.19	0.42
3:Y:38:LYS:HA	3:Y:41:GLU:OE1	2.20	0.42
3:Y:372:VAL:HG23	3:Y:373:ASN:ND2	2.35	0.42
3:Y:458:THR:OG1	3:Y:533:LYS:HB2	2.19	0.42
3:Z:539:LEU:O	3:Z:544:LEU:N	2.52	0.42
1:A:308:ILE:HG22	1:A:309:THR:N	2.35	0.42
1:A:740:THR:O	1:A:744:LEU:HG	2.20	0.42
1:B:189:ILE:HA	1:B:625:THR:HA	2.02	0.42
1:B:247:PHE:O	1:B:248:PRO:C	2.58	0.42
1:B:480:SER:C	1:B:498:ILE:HD12	2.40	0.42
1:B:649:MET:HE1	1:B:663:MET:SD	2.60	0.42
1:C:6:LYS:HE2	1:C:9:PHE:CZ	2.55	0.42
1:C:253:TYR:O	1:C:322:ALA:HB1	2.20	0.42
1:C:323:VAL:HG13	1:C:325:PHE:CZ	2.55	0.42
1:C:439:ALA:HB2	1:C:448:VAL:HG21	2.02	0.42
1:C:459:LEU:O	1:C:475:ILE:N	2.37	0.42
1:D:145:PHE:CZ	1:D:151:TYR:CD1	3.08	0.42
1:D:505:THR:O	1:D:507:ASN:N	2.52	0.42
1:D:570:ASP:OD2	1:D:574:ARG:NH2	2.40	0.42
1:E:21:SER:O	1:E:25:GLN:OE1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:255:GLN:HA	1:E:265:LYS:HA	2.02	0.42
1:E:422:ASN:ND2	1:E:582:SER:O	2.53	0.42
1:E:461:LEU:HD13	1:E:591:LEU:HD13	2.02	0.42
1:F:23:LEU:HD11	1:F:728:GLN:HA	2.02	0.42
1:F:159:ASN:HA	1:F:168:SER:O	2.20	0.42
1:F:179:PHE:CE1	1:F:632:ASP:HA	2.55	0.42
1:F:438:TYR:CD1	1:F:573:GLY:HA3	2.54	0.42
1:F:734:SER:O	1:F:738:SER:N	2.49	0.42
1:G:174:GLY:O	1:G:178:PHE:HD2	2.02	0.42
1:G:265:LYS:HD2	1:G:612:ASN:O	2.20	0.42
1:G:449:MET:SD	1:G:454:LEU:HD21	2.60	0.42
1:G:626:ILE:O	1:G:626:ILE:HG13	2.20	0.42
1:G:716:ASP:OD2	1:G:719:GLU:HB2	2.20	0.42
1:H:232:LEU:HD12	1:H:232:LEU:N	2.34	0.42
1:I:2:ARG:HB3	2:P:569:GLY:N	2.35	0.42
1:I:265:LYS:HB3	1:I:599:PHE:CE2	2.55	0.42
1:I:497:PRO:HD3	1:I:540:GLN:HA	2.01	0.42
1:J:189:ILE:HD11	1:J:623:SER:HB2	2.02	0.42
1:J:486:ASP:O	1:J:490:PRO:N	2.53	0.42
1:J:684:MET:HA	1:J:687:TYR:CD2	2.55	0.42
1:K:158:ILE:O	1:K:170:TYR:N	2.47	0.42
1:K:227:VAL:HG23	1:K:230:ASN:H	1.84	0.42
1:K:265:LYS:HB2	1:K:611:GLN:HB2	2.02	0.42
1:K:396:LYS:HB2	1:K:653:SER:HB2	2.01	0.42
1:K:502:ASN:HB3	1:K:503:PRO:CD	2.43	0.42
2:L:186:ILE:HG23	2:L:192:LEU:O	2.20	0.42
2:L:428:PHE:CG	2:L:429:SER:N	2.87	0.42
2:N:305:SER:CB	2:N:310:LYS:O	2.68	0.42
2:N:539:ILE:HD12	2:N:539:ILE:H	1.85	0.42
2:N:559:SER:HA	2:R:196:HIS:CD2	2.55	0.42
2:O:312:GLU:OE1	2:O:312:GLU:N	2.53	0.42
2:P:56:VAL:CG2	2:T:193:PRO:HB2	2.50	0.42
2:P:274:TYR:HB3	2:P:282:ARG:CB	2.49	0.42
2:Q:338:TYR:OH	2:Q:488:THR:O	2.37	0.42
2:R:11:VAL:O	2:R:15:LYS:HG2	2.20	0.42
2:R:74:TYR:CA	2:R:564:TYR:OH	2.68	0.42
2:R:141:GLN:O	2:R:144:THR:OG1	2.21	0.42
2:S:153:THR:O	2:S:156:LYS:HG2	2.20	0.42
2:S:204:ARG:CZ	2:S:208:GLU:OE2	2.68	0.42
2:S:516:PHE:HB2	2:S:524:ASP:OD1	2.20	0.42
2:T:482:ILE:H	2:T:482:ILE:HD12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:72:TYR:HA	2:U:75:TYR:CE2	2.55	0.42
2:U:184:LYS:HG3	2:U:254:ILE:HB	2.02	0.42
2:U:199:GLU:N	2:U:199:GLU:OE1	2.53	0.42
2:U:569:GLY:O	2:U:570:VAL:HB	2.20	0.42
3:W:530:PHE:HE2	3:W:549:ILE:HB	1.85	0.42
3:W:576:SER:O	3:W:579:LYS:HB2	2.20	0.42
3:X:104:ASN:HA	3:X:291:GLU:HA	2.02	0.42
3:X:203:ALA:HB2	3:X:222:PHE:CE1	2.42	0.42
3:X:531:SER:HB2	3:X:548:ASN:OD1	2.20	0.42
3:Y:74:ALA:O	3:Y:299:ASP:OD1	2.38	0.42
3:Y:331:THR:O	3:Y:331:THR:HG22	2.20	0.42
3:Y:380:MET:CG	3:Y:385:LEU:HD13	2.49	0.42
3:Y:622:LYS:HG3	3:Y:623:LEU:HD22	2.02	0.42
1:A:47:ILE:CD1	2:R:537:GLY:CA	2.98	0.41
1:A:158:ILE:HG22	1:A:159:ASN:N	2.35	0.41
1:A:449:MET:HA	1:A:616:PHE:CE1	2.54	0.41
1:A:686:ALA:HB1	1:C:116:ARG:NH1	2.34	0.41
1:B:599:PHE:HB3	1:B:600:PRO:HD2	2.02	0.41
1:C:401:ASP:OD1	1:C:405:ASN:N	2.53	0.41
1:D:669:ARG:CZ	1:D:672:HIS:CD2	3.03	0.41
1:E:138:SER:N	1:E:154:ASP:OD1	2.53	0.41
1:E:503:PRO:CB	2:L:408:THR:HB	2.50	0.41
1:F:90:PHE:HA	1:F:93:LYS:HG2	2.02	0.41
1:G:160:VAL:HG13	1:G:168:SER:OG	2.20	0.41
1:G:216:SER:O	1:G:276:LEU:HD13	2.20	0.41
1:G:531:ALA:CB	1:G:561:SER:HB2	2.50	0.41
1:H:495:SER:OG	1:H:540:GLN:NE2	2.49	0.41
1:H:728:GLN:OE1	1:H:729:LEU:HD22	2.20	0.41
1:I:2:ARG:HB3	2:P:568:SER:C	2.39	0.41
1:I:3:ILE:CA	2:P:566:SER:H	2.32	0.41
1:I:11:ASN:O	1:I:14:ASN:N	2.53	0.41
1:I:12:SER:O	1:I:16:SER:N	2.39	0.41
1:J:219:GLN:O	1:J:220:GLN:C	2.57	0.41
1:J:244:LYS:NZ	1:J:273:GLU:OE1	2.50	0.41
1:J:253:TYR:OH	1:J:265:LYS:HB3	2.20	0.41
1:J:669:ARG:O	1:J:672:HIS:HB3	2.20	0.41
1:K:128:SER:HB3	1:K:133:TYR:CD1	2.55	0.41
1:K:187:LYS:HE2	1:K:625:THR:HG21	2.01	0.41
1:K:233:ASP:N	1:K:237:ASP:OD2	2.53	0.41
2:L:556:LEU:HD23	2:L:560:VAL:HG23	2.00	0.41
2:M:87:THR:HG21	2:M:553:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:154:LEU:HA	2:M:157:ILE:HD12	2.02	0.41
2:M:342:ALA:CB	2:M:377:TYR:CE2	3.02	0.41
2:N:130:ASN:ND2	2:N:134:ILE:HD11	2.35	0.41
2:N:272:ILE:O	2:N:285:THR:OG1	2.26	0.41
2:N:372:PHE:HB2	2:N:452:GLU:O	2.19	0.41
2:O:129:GLU:OE2	2:O:131:ALA:HB3	2.20	0.41
2:O:167:ASN:OD1	2:O:167:ASN:N	2.53	0.41
2:O:250:ILE:O	2:O:251:VAL:CG2	2.68	0.41
2:P:419:ASP:N	2:P:422:ASP:OD2	2.41	0.41
2:Q:37:THR:O	2:Q:38:ARG:HG3	2.19	0.41
2:Q:237:PRO:O	2:Q:241:TYR:N	2.44	0.41
2:S:372:PHE:CZ	2:S:391:ILE:HG13	2.55	0.41
2:T:85:GLU:CG	2:T:213:LYS:HB3	2.50	0.41
2:T:222:ASN:HB2	2:T:239:HIS:CD2	2.55	0.41
2:U:374:ILE:HG12	2:U:387:LYS:HB3	2.02	0.41
2:U:514:VAL:O	2:U:526:LEU:O	2.37	0.41
2:V:165:ILE:HD12	2:V:300:ARG:HD3	2.01	0.41
2:V:252:ASP:OD2	2:V:255:ASN:N	2.53	0.41
2:V:276:THR:OG1	2:V:282:ARG:NE	2.50	0.41
3:W:288:LYS:HD2	3:W:289:THR:HG23	2.02	0.41
3:W:592:ASN:O	3:W:596:ASP:N	2.42	0.41
3:X:24:LEU:O	3:X:27:ALA:HB3	2.18	0.41
3:X:252:HIS:CD2	3:X:254:GLN:O	2.73	0.41
3:X:364:THR:O	3:X:372:VAL:HG22	2.20	0.41
3:X:538:ILE:HG22	3:X:542:LEU:HD22	2.02	0.41
3:Y:25:LYS:HB2	3:Y:606:TYR:CZ	2.54	0.41
3:Z:137:THR:O	3:Z:202:TYR:N	2.50	0.41
1:A:24:TYR:O	1:A:28:GLN:NE2	2.53	0.41
1:A:26:ILE:HG21	1:A:724:LEU:HB2	2.02	0.41
1:A:321:HIS:ND1	1:A:395:ILE:HD13	2.35	0.41
1:A:464:ASN:HA	1:A:469:ASN:O	2.20	0.41
1:A:533:LYS:HB2	1:A:561:SER:HB3	2.03	0.41
1:B:1:MET:HB3	2:N:574:GLU:OE1	2.20	0.41
1:B:129:VAL:HG23	1:B:134:LEU:HD11	2.02	0.41
1:B:229:ASP:OD1	1:B:230:ASN:N	2.54	0.41
1:B:256:GLY:O	1:B:264:PHE:N	2.48	0.41
1:B:264:PHE:CZ	1:B:286:LEU:HD21	2.54	0.41
1:B:393:ASP:OD1	1:B:393:ASP:N	2.53	0.41
1:C:77:MET:O	1:C:81:GLN:OE1	2.37	0.41
1:C:91:LYS:HG3	1:C:92:VAL:N	2.35	0.41
1:C:501:THR:HA	1:C:509:GLY:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:661:THR:HG22	1:C:661:THR:O	2.19	0.41
1:D:4:THR:OG1	2:Q:566:SER:HB2	2.20	0.41
1:D:29:GLN:O	1:D:33:GLY:N	2.33	0.41
1:D:160:VAL:O	1:D:168:SER:N	2.53	0.41
1:D:207:ASP:OD1	1:D:207:ASP:N	2.43	0.41
1:D:259:PRO:HA	1:D:315:ASN:ND2	2.35	0.41
1:D:646:LYS:HE3	1:D:656:GLU:OE2	2.20	0.41
1:E:429:SER:HA	1:E:573:GLY:O	2.20	0.41
1:E:460:ASN:O	1:E:592:SER:N	2.50	0.41
1:F:418:GLU:O	1:F:424:VAL:HA	2.19	0.41
1:F:741:ILE:HA	1:F:744:LEU:HD12	2.01	0.41
1:G:53:GLU:OE2	1:G:709:LYS:HE2	2.20	0.41
1:G:443:THR:HB	1:G:519:TYR:CE1	2.56	0.41
1:H:151:TYR:CD2	1:H:175:TRP:HB2	2.54	0.41
1:H:438:TYR:CD1	1:H:573:GLY:HA3	2.55	0.41
1:I:3:ILE:HG13	2:P:568:SER:HB2	2.02	0.41
1:I:5:ASN:CB	2:P:566:SER:HB2	2.49	0.41
1:I:425:TYR:HA	1:I:575:ILE:O	2.20	0.41
1:I:484:TYR:CD2	1:I:485:PRO:O	2.74	0.41
1:J:145:PHE:HA	1:J:150:ASN:O	2.19	0.41
1:J:200:TRP:O	1:J:200:TRP:CE3	2.73	0.41
1:J:332:LYS:O	1:J:335:LEU:HB3	2.20	0.41
1:J:570:ASP:OD2	1:J:576:SER:OG	2.32	0.41
1:K:121:ILE:HG23	1:K:122:VAL:N	2.35	0.41
1:K:138:SER:HG	1:K:154:ASP:CG	2.15	0.41
1:K:173:PRO:HD2	1:K:176:ASP:OD2	2.20	0.41
1:K:356:VAL:HG13	1:K:357:MET:N	2.35	0.41
1:K:653:SER:O	1:K:658:PRO:HB3	2.20	0.41
2:L:120:TRP:CE3	2:L:136:LEU:HD21	2.56	0.41
2:L:372:PHE:HA	2:L:452:GLU:O	2.20	0.41
2:M:86:TYR:HD1	2:M:291:GLY:HA2	1.86	0.41
2:M:260:LYS:HE2	2:M:262:ASP:HB3	2.01	0.41
2:M:594:SER:O	2:M:598:GLN:OE1	2.38	0.41
2:O:419:ASP:OD2	2:O:421:ASP:HB2	2.20	0.41
2:P:110:LEU:HD12	2:P:111:GLN:N	2.35	0.41
2:P:241:TYR:CG	2:P:242:ASN:N	2.87	0.41
2:P:407:ASN:HA	2:P:421:ASP:OD1	2.20	0.41
2:Q:5:GLY:O	2:Q:8:TYR:CB	2.68	0.41
2:Q:305:SER:N	2:Q:310:LYS:O	2.36	0.41
2:R:199:GLU:O	2:R:202:ASP:HB2	2.20	0.41
2:R:219:ALA:HA	2:R:242:ASN:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:367:ILE:HG12	2:R:458:PHE:HA	2.01	0.41
2:R:389:ILE:HG22	2:R:390:THR:N	2.34	0.41
2:R:392:ASP:CG	2:R:395:THR:HG1	2.23	0.41
2:S:130:ASN:O	2:S:134:ILE:N	2.36	0.41
2:S:338:TYR:HB2	2:S:467:PHE:HB2	2.02	0.41
2:U:109:ILE:HG23	2:U:143:LEU:CD1	2.51	0.41
2:U:157:ILE:O	2:U:161:VAL:HG23	2.20	0.41
2:U:338:TYR:HA	2:U:502:MET:HE2	2.02	0.41
2:U:377:TYR:HD1	2:U:382:ASP:O	2.03	0.41
2:U:492:SER:N	2:U:499:GLY:O	2.52	0.41
2:V:189:GLN:NE2	2:V:232:THR:HA	2.35	0.41
2:V:430:TYR:CD1	2:V:431:ASP:N	2.88	0.41
3:W:50:LEU:HD12	3:W:51:THR:N	2.35	0.41
3:X:103:ILE:HG22	3:X:104:ASN:N	2.35	0.41
3:X:353:ASP:OD1	3:X:562:LYS:NZ	2.40	0.41
3:X:364:THR:CG2	3:X:365:GLU:N	2.83	0.41
3:Y:70:ALA:O	3:Y:74:ALA:HB2	2.21	0.41
3:Y:126:VAL:HG22	3:Y:155:TYR:CD1	2.54	0.41
3:Z:156:ARG:HA	3:Z:174:ILE:HG21	2.01	0.41
3:Z:209:ASN:OD1	3:Z:211:LYS:CB	2.69	0.41
3:Z:441:ASN:OD1	3:Z:448:ASN:HB2	2.20	0.41
1:A:499:MET:HA	1:A:511:VAL:HA	2.02	0.41
1:A:570:ASP:OD2	1:A:574:ARG:NH2	2.53	0.41
1:B:77:MET:HE1	1:B:688:HIS:CG	2.55	0.41
1:B:79:ALA:HB1	1:B:83:MET:CE	2.51	0.41
1:B:139:GLN:NE2	2:N:382:ASP:OD1	2.50	0.41
1:B:217:LYS:CG	1:B:275:THR:HG23	2.50	0.41
1:B:420:ASN:HB2	1:B:425:TYR:CE1	2.55	0.41
1:B:465:SER:O	1:B:468:GLY:N	2.47	0.41
1:C:247:PHE:HB2	1:C:272:PRO:HG2	2.03	0.41
1:C:289:ASN:HA	1:C:294:LYS:HA	2.01	0.41
1:C:334:GLU:OE2	1:C:385:PHE:HB3	2.19	0.41
1:C:444:LYS:HD2	1:C:518:THR:HG22	2.02	0.41
1:C:666:ALA:O	1:C:670:LEU:HG	2.20	0.41
1:C:739:THR:O	1:C:740:THR:C	2.58	0.41
1:D:35:LYS:NZ	1:D:714:ASP:O	2.36	0.41
1:D:321:HIS:CE1	1:D:412:TYR:CE1	3.08	0.41
1:D:484:TYR:CZ	1:D:494:ILE:CG2	3.02	0.41
1:D:662:GLY:O	1:D:666:ALA:N	2.41	0.41
1:E:29:GLN:NE2	1:E:37:GLN:OE1	2.51	0.41
1:E:38:ASN:HA	2:L:104:LEU:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:271:LYS:O	1:E:274:ASP:OD2	2.37	0.41
1:E:363:ALA:O	1:E:367:GLY:N	2.54	0.41
1:F:90:PHE:HE1	1:F:117:ILE:HG21	1.85	0.41
1:F:517:ILE:HG23	1:F:521:GLN:OE1	2.20	0.41
1:F:539:ILE:HG22	1:F:540:GLN:N	2.35	0.41
1:F:725:MET:O	1:F:728:GLN:HB3	2.20	0.41
1:G:181:ALA:HA	1:G:630:ASN:HA	2.01	0.41
1:G:696:THR:O	1:G:699:SER:HB2	2.19	0.41
1:H:93:LYS:HB2	1:H:114:LEU:HD11	2.01	0.41
1:H:528:MET:HA	1:H:561:SER:HB2	2.03	0.41
1:I:7:LEU:H	2:P:565:GLN:HB2	1.85	0.41
1:I:475:ILE:CG1	1:I:482:VAL:HG22	2.50	0.41
1:I:570:ASP:OD1	1:I:574:ARG:N	2.54	0.41
1:J:82:ASP:O	1:J:86:LEU:HD12	2.20	0.41
1:J:232:LEU:HD13	1:J:238:PHE:HZ	1.84	0.41
1:J:463:VAL:O	1:J:470:SER:HA	2.20	0.41
1:K:301:ASN:O	1:K:304:GLY:N	2.52	0.41
1:K:317:LYS:NZ	1:K:433:LYS:HA	2.35	0.41
1:K:361:THR:O	1:K:363:ALA:N	2.53	0.41
1:K:454:LEU:HD13	1:K:477:LEU:HB3	2.01	0.41
1:K:650:ARG:HA	1:K:661:THR:HB	2.01	0.41
2:L:572:THR:O	2:L:576:LEU:HB3	2.21	0.41
2:M:580:ILE:HD12	2:M:580:ILE:H	1.86	0.41
2:N:376:ILE:N	2:N:385:LEU:O	2.51	0.41
2:O:1:MET:HE1	2:O:6:THR:HG21	2.02	0.41
2:O:548:VAL:O	2:O:551:SER:OG	2.17	0.41
2:O:559:SER:HB2	2:U:99:GLN:HG3	2.03	0.41
2:P:55:GLN:OE1	2:T:186:ILE:HA	2.20	0.41
2:P:55:GLN:O	2:T:196:HIS:N	2.53	0.41
2:P:117:ASN:HA	2:P:120:TRP:HD1	1.85	0.41
2:P:326:PHE:HB2	2:P:531:TYR:CE2	2.55	0.41
2:P:409:ASP:OD2	2:P:414:LYS:N	2.53	0.41
2:P:516:PHE:O	2:P:523:ILE:HA	2.20	0.41
2:Q:171:GLU:HG2	2:Q:175:ILE:CD1	2.50	0.41
2:R:90:MET:HE1	2:R:295:ALA:O	2.20	0.41
2:R:456:THR:O	2:R:457:ASN:HB2	2.19	0.41
2:S:101:PHE:CZ	2:S:154:LEU:HD23	2.55	0.41
2:S:597:ASP:HA	2:S:600:LEU:HG	2.03	0.41
2:T:259:LEU:HB3	2:T:284:LEU:HD12	2.01	0.41
2:U:423:HIS:HA	2:U:444:LYS:HE2	2.01	0.41
2:V:41:VAL:HG22	2:V:64:SER:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:401:GLU:O	3:W:405:LYS:HD2	2.20	0.41
3:W:639:ASN:OD1	3:W:640:SER:N	2.53	0.41
3:X:177:THR:OG1	3:X:183:PRO:HA	2.20	0.41
3:X:196:ASP:OD1	3:X:271:SER:OG	2.38	0.41
3:X:201:PHE:CE1	3:X:246:ILE:HG23	2.56	0.41
3:Y:56:LYS:HE3	3:Y:320:ASN:OD1	2.19	0.41
3:Y:116:SER:HA	3:Y:251:LEU:HD13	2.01	0.41
3:Y:157:ASP:O	3:Y:160:ASP:OD1	2.37	0.41
3:Y:297:GLN:OE1	3:Y:297:GLN:N	2.53	0.41
3:Y:354:LEU:O	3:Y:379:SER:N	2.53	0.41
3:Y:371:LYS:CG	3:Y:372:VAL:N	2.84	0.41
3:Y:441:ASN:OD1	3:Y:448:ASN:N	2.49	0.41
3:Z:301:GLU:HG2	3:Z:302:GLY:N	2.35	0.41
1:A:9:PHE:CD1	1:A:9:PHE:C	2.94	0.41
1:A:83:MET:HE3	1:A:83:MET:HA	2.02	0.41
1:A:133:TYR:CD2	1:A:143:LYS:HA	2.55	0.41
1:A:569:MET:SD	1:A:570:ASP:O	2.78	0.41
1:B:189:ILE:HA	1:B:624:LEU:O	2.20	0.41
1:B:235:ASP:HA	1:B:239:GLU:HG2	2.03	0.41
1:B:547:ASN:OD1	1:B:548:ASN:N	2.53	0.41
1:C:33:GLY:HA2	1:C:717:TYR:OH	2.20	0.41
1:C:146:ASP:HB3	1:C:152:TYR:OH	2.20	0.41
1:C:201:ASP:O	1:C:204:LYS:N	2.53	0.41
1:C:252:LEU:HA	1:C:323:VAL:O	2.21	0.41
1:C:426:GLY:H	1:C:575:ILE:HB	1.85	0.41
1:D:320:PHE:O	1:D:321:HIS:CG	2.74	0.41
1:E:48:ASP:O	1:E:51:ARG:HB3	2.21	0.41
1:E:257:THR:HA	1:E:263:SER:HA	2.03	0.41
1:E:294:LYS:O	1:E:311:LEU:HD12	2.21	0.41
1:E:401:ASP:OD1	1:E:405:ASN:N	2.54	0.41
1:F:402:THR:HA	1:F:416:TYR:CE2	2.56	0.41
1:G:30:LEU:HD21	1:G:720:ALA:HB3	2.01	0.41
1:G:170:TYR:CD2	1:G:171:ASN:N	2.88	0.41
1:G:257:THR:OG1	1:G:319:ASP:HB3	2.20	0.41
1:H:62:VAL:HG23	1:H:63:LYS:N	2.36	0.41
1:H:63:LYS:HD2	1:H:695:ASN:OD1	2.21	0.41
1:H:449:MET:HB2	1:H:615:ASN:OD1	2.20	0.41
1:I:198:ASN:ND2	1:I:221:LEU:O	2.53	0.41
1:I:215:ASP:OD1	1:I:275:THR:CG2	2.68	0.41
1:I:260:ASP:C	1:I:317:LYS:HD2	2.40	0.41
1:I:326:THR:HG23	1:I:327:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:391:GLN:HG2	1:I:392:THR:N	2.35	0.41
1:I:466:LYS:HB2	1:I:587:ILE:HD11	2.01	0.41
1:K:128:SER:HB3	1:K:133:TYR:HA	2.02	0.41
1:K:554:ILE:O	1:K:557:LEU:HB2	2.21	0.41
2:L:186:ILE:HG21	2:L:224:ILE:CG2	2.49	0.41
2:L:354:LEU:HD11	2:L:358:ILE:HG21	2.03	0.41
2:M:187:TYR:CZ	2:M:188:GLY:O	2.72	0.41
2:M:304:TYR:HA	2:M:311:TYR:HD1	1.84	0.41
2:N:39:GLN:HB3	2:N:65:ILE:CG2	2.50	0.41
2:N:78:LYS:CG	2:N:212:SER:HB3	2.50	0.41
2:N:604:LEU:HD23	2:N:604:LEU:O	2.20	0.41
2:O:35:PHE:CD2	2:O:202:ASP:HA	2.55	0.41
2:O:93:THR:O	2:O:94:LEU:C	2.59	0.41
2:O:332:ASN:O	2:O:336:ASN:ND2	2.53	0.41
2:O:538:LYS:NZ	2:O:542:ASP:OD1	2.50	0.41
2:P:54:VAL:O	2:T:192:LEU:HB2	2.19	0.41
2:Q:37:THR:O	2:Q:37:THR:HG22	2.21	0.41
2:R:203:ARG:HA	2:R:206:GLU:OE1	2.19	0.41
2:S:85:GLU:HB3	2:S:292:GLN:OE1	2.19	0.41
2:S:603:LEU:HA	2:S:606:LEU:HD12	2.03	0.41
2:T:376:ILE:HB	2:T:385:LEU:HB2	2.02	0.41
2:U:97:ILE:O	2:U:100:ARG:HG2	2.20	0.41
3:W:570:MET:SD	3:W:577:ILE:HG22	2.60	0.41
3:W:608:THR:O	3:W:612:GLN:OE1	2.39	0.41
3:X:309:ASP:O	3:X:312:ASP:OD1	2.38	0.41
3:Y:50:LEU:HD12	3:Y:51:THR:N	2.36	0.41
3:Y:414:PHE:C	3:Y:558:GLY:HA3	2.41	0.41
3:Z:194:GLY:O	3:Z:256:ALA:HB1	2.20	0.41
3:Z:421:TYR:CE1	3:Z:551:SER:OG	2.70	0.41
1:A:93:LYS:HB2	1:A:114:LEU:HD21	2.02	0.41
1:A:181:ALA:HB1	1:A:629:PRO:HB2	2.02	0.41
1:A:229:ASP:OD1	1:A:332:LYS:N	2.49	0.41
1:A:260:ASP:OD2	1:A:262:THR:HG23	2.20	0.41
1:B:227:VAL:HG21	1:B:232:LEU:HG	2.02	0.41
1:B:431:VAL:HG11	1:B:436:ASN:OD1	2.20	0.41
1:B:589:ILE:HG22	1:B:590:SER:N	2.36	0.41
1:C:236:LYS:HG2	1:C:240:TYR:CE2	2.54	0.41
1:C:280:MET:HA	1:C:283:ILE:HD12	2.03	0.41
1:C:652:ASP:O	1:C:658:PRO:HA	2.21	0.41
1:C:736:LYS:HA	1:C:736:LYS:HE2	2.02	0.41
1:D:46:TYR:CE2	2:Q:103:ASP:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:185:TYR:CZ	1:D:672:HIS:HA	2.56	0.41
1:D:748:ASN:HA	1:E:735:LEU:HD22	2.03	0.41
1:E:3:ILE:HG13	1:E:7:LEU:HB2	2.02	0.41
1:E:164:ALA:HA	2:L:511:TYR:CD2	2.56	0.41
1:F:229:ASP:OD1	1:F:230:ASN:N	2.52	0.41
1:F:248:PRO:HB2	1:F:353:THR:OG1	2.21	0.41
1:F:393:ASP:OD1	1:F:409:GLY:CA	2.68	0.41
1:F:422:ASN:HA	1:F:585:THR:N	2.36	0.41
1:F:500:HIS:CD2	2:V:413:ASN:C	2.94	0.41
1:F:500:HIS:NE2	1:F:510:VAL:O	2.53	0.41
1:H:52:LEU:HD13	1:H:709:LYS:HA	2.02	0.41
1:H:115:GLU:O	1:H:119:GLU:N	2.39	0.41
1:H:350:ASN:O	1:H:353:THR:HB	2.20	0.41
1:H:531:ALA:O	1:H:532:ASP:HB3	2.20	0.41
1:H:550:ASP:HA	1:H:553:GLN:NE2	2.34	0.41
1:I:298:VAL:HG22	1:I:308:ILE:HG23	2.02	0.41
1:I:686:ALA:HB1	1:J:116:ARG:HH21	1.86	0.41
1:I:729:LEU:HD21	3:Y:630:VAL:HB	2.02	0.41
1:J:30:LEU:HD11	1:J:724:LEU:HD22	2.03	0.41
1:J:42:ASP:O	1:J:46:TYR:CD2	2.74	0.41
1:J:214:GLY:O	1:J:275:THR:HB	2.20	0.41
1:K:6:LYS:HD2	2:S:570:VAL:HG13	2.01	0.41
1:K:335:LEU:O	1:K:338:ILE:HB	2.21	0.41
1:K:542:ASN:C	1:K:544:GLY:H	2.23	0.41
2:L:172:ILE:HD11	2:L:214:LEU:HD11	2.03	0.41
2:L:350:TYR:CE2	2:L:436:ASP:OD2	2.74	0.41
2:L:397:MET:HE2	2:L:428:PHE:CE2	2.56	0.41
2:M:81:SER:O	2:M:85:GLU:HG2	2.20	0.41
2:M:112:ASP:HB3	2:M:143:LEU:HD13	2.02	0.41
2:M:431:ASP:OD1	2:M:432:ALA:N	2.53	0.41
2:M:533:ARG:O	2:M:537:GLY:N	2.41	0.41
2:N:31:ALA:O	2:N:33:ALA:N	2.47	0.41
2:N:196:HIS:O	2:N:200:LEU:HG	2.20	0.41
2:N:387:LYS:HE2	2:N:420:VAL:HB	2.01	0.41
2:O:56:VAL:HG12	2:U:195:GLU:CG	2.50	0.41
2:O:169:VAL:O	2:O:173:ASN:OD1	2.39	0.41
2:O:331:ILE:HG13	2:O:476:MET:HE3	2.02	0.41
2:O:430:TYR:HA	2:O:437:GLY:HA2	2.01	0.41
2:P:39:GLN:HG3	2:P:67:ARG:HD3	2.02	0.41
2:P:138:LYS:HA	2:P:141:GLN:NE2	2.35	0.41
2:P:293:LEU:N	2:P:293:LEU:HD12	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:394:ASN:O	2:P:395:THR:C	2.59	0.41
2:Q:87:THR:O	2:Q:91:ALA:N	2.36	0.41
2:Q:184:LYS:HE3	2:Q:254:ILE:O	2.20	0.41
2:R:378:ASP:O	2:R:381:GLY:N	2.50	0.41
2:R:378:ASP:HA	2:R:447:PHE:HA	2.02	0.41
2:S:325:THR:HG23	2:S:517:TYR:O	2.18	0.41
2:S:527:THR:OG1	2:S:530:GLU:CB	2.68	0.41
2:T:196:HIS:C	2:T:196:HIS:CD2	2.89	0.41
2:T:224:ILE:CG2	2:T:225:ASN:N	2.83	0.41
2:T:344:SER:O	2:T:443:ALA:HB3	2.21	0.41
2:U:183:ASN:HB2	2:U:254:ILE:HA	2.01	0.41
2:U:326:PHE:HB2	2:U:531:TYR:CZ	2.55	0.41
2:U:376:ILE:H	2:U:385:LEU:HB2	1.85	0.41
2:U:462:PHE:CD1	2:U:464:ILE:HB	2.55	0.41
2:V:219:ALA:HA	2:V:242:ASN:O	2.20	0.41
3:W:71:THR:OG1	3:W:72:VAL:N	2.53	0.41
3:W:129:GLN:OE1	3:W:129:GLN:N	2.42	0.41
3:W:138:PHE:CD2	3:W:161:LYS:HB3	2.55	0.41
3:W:170:ILE:HG21	3:W:188:LEU:HD23	2.02	0.41
3:W:277:ASP:OD2	3:X:178:GLY:HA3	2.20	0.41
3:X:201:PHE:HD1	3:X:244:TYR:O	2.02	0.41
3:X:202:TYR:CE2	3:X:237:PRO:CG	3.04	0.41
3:X:364:THR:HG22	3:X:365:GLU:N	2.35	0.41
3:X:387:LEU:HD13	3:X:393:LEU:CD2	2.50	0.41
3:Y:353:ASP:HB2	3:Y:563:LEU:HD13	2.01	0.41
3:Y:535:ASP:OD1	3:Y:537:ASN:N	2.52	0.41
1:A:144:PRO:HG2	1:A:145:PHE:CD2	2.55	0.41
1:A:418:GLU:HB3	1:A:425:TYR:CE1	2.56	0.41
1:A:474:THR:O	1:A:483:SER:N	2.51	0.41
1:B:46:TYR:CE1	2:N:104:LEU:CD1	3.04	0.41
1:B:74:GLN:HA	1:B:77:MET:HE3	2.03	0.41
1:B:326:THR:HB	1:B:390:LYS:HE3	2.01	0.41
1:B:379:THR:HA	1:B:383:GLN:O	2.21	0.41
1:B:564:THR:HG23	1:B:581:LEU:HG	2.02	0.41
1:C:155:LYS:HA	1:C:173:PRO:HB2	2.02	0.41
1:C:217:LYS:N	1:C:220:GLN:OE1	2.52	0.41
1:C:229:ASP:OD1	1:C:230:ASN:N	2.53	0.41
1:D:93:LYS:CB	1:D:114:LEU:HD21	2.50	0.41
1:D:218:TRP:CZ3	1:D:222:ILE:CG1	3.04	0.41
1:D:278:ASP:O	1:D:281:GLU:HG3	2.21	0.41
1:D:486:ASP:HB2	1:D:492:GLN:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:600:PRO:HB3	1:D:611:GLN:HG3	2.01	0.41
1:E:59:LEU:HD12	1:E:59:LEU:H	1.85	0.41
1:E:199:ARG:NH1	1:E:239:GLU:OE2	2.44	0.41
1:E:401:ASP:HB2	1:E:414:ASN:CG	2.41	0.41
1:E:444:LYS:HA	1:E:517:ILE:O	2.21	0.41
1:F:182:ASP:HB3	1:F:672:HIS:NE2	2.36	0.41
1:G:4:THR:OG1	2:O:565:GLN:CB	2.69	0.41
1:G:52:LEU:O	1:G:56:ILE:N	2.44	0.41
1:G:287:TYR:O	1:G:295:VAL:HG21	2.20	0.41
1:G:503:PRO:HD3	2:O:409:ASP:HB3	2.03	0.41
1:G:571:TYR:CD2	1:G:572:LYS:HG2	2.56	0.41
1:H:73:THR:OG1	1:H:688:HIS:ND1	2.39	0.41
1:H:212:LEU:HA	1:H:216:SER:OG	2.19	0.41
1:H:457:THR:CG2	1:H:477:LEU:HD12	2.50	0.41
1:H:495:SER:O	1:H:538:THR:HG23	2.20	0.41
1:I:21:SER:O	1:I:25:GLN:OE1	2.39	0.41
1:J:3:ILE:CG2	2:T:565:GLN:O	2.65	0.41
1:J:50:THR:O	1:J:53:GLU:HB3	2.21	0.41
1:J:133:TYR:CE1	1:J:143:LYS:HA	2.56	0.41
1:J:247:PHE:O	1:J:271:LYS:NZ	2.41	0.41
1:J:333:ASP:OD1	1:J:336:LYS:HE3	2.20	0.41
1:J:507:ASN:O	2:T:415:ASN:HB2	2.21	0.41
1:J:748:ASN:HB3	2:T:573:ASN:OD1	2.20	0.41
1:K:128:SER:HB3	1:K:133:TYR:CG	2.56	0.41
1:K:236:LYS:HA	1:K:240:TYR:CD2	2.56	0.41
1:K:444:LYS:HZ3	1:K:518:THR:HG23	1.84	0.41
2:L:169:VAL:O	2:L:173:ASN:N	2.50	0.41
2:L:567:LYS:O	2:L:568:SER:HB3	2.20	0.41
2:M:129:GLU:HG3	2:M:132:THR:H	1.85	0.41
2:M:143:LEU:O	2:M:146:SER:OG	2.34	0.41
2:N:38:ARG:HB2	2:N:570:VAL:HG22	2.02	0.41
2:N:41:VAL:HG22	2:N:42:VAL:H	1.85	0.41
2:N:137:VAL:O	2:N:140:SER:HB2	2.20	0.41
2:N:275:GLU:OE1	2:N:281:VAL:HA	2.19	0.41
2:N:305:SER:HA	2:N:312:GLU:CG	2.51	0.41
2:N:373:ASP:OD1	2:N:388:THR:HG23	2.20	0.41
2:N:395:THR:HG21	2:N:400:ILE:HD11	2.03	0.41
2:N:400:ILE:HG22	2:N:404:ILE:CD1	2.51	0.41
2:O:27:ASN:HA	2:O:36:TYR:CE2	2.56	0.41
2:O:182:ILE:HG23	2:O:200:LEU:HD22	2.02	0.41
2:O:198:ASN:O	2:O:202:ASP:OD2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:218:VAL:O	2:P:243:LEU:HD12	2.20	0.41
2:P:323:LEU:O	2:P:326:PHE:HB3	2.21	0.41
2:P:366:THR:HA	2:P:517:TYR:CE2	2.56	0.41
2:Q:104:LEU:O	2:Q:106:ASN:N	2.53	0.41
2:Q:321:ASP:O	2:Q:324:ASP:OD1	2.38	0.41
2:Q:431:ASP:OD2	2:Q:434:THR:N	2.42	0.41
2:Q:515:ASN:HA	2:Q:524:ASP:O	2.21	0.41
2:R:304:TYR:HB2	2:R:311:TYR:CE1	2.56	0.41
2:S:73:SER:HA	2:S:76:LYS:HE2	2.02	0.41
2:S:96:GLU:HA	2:S:99:GLN:OE1	2.20	0.41
2:S:342:ALA:HB2	2:S:377:TYR:CE2	2.55	0.41
2:S:361:VAL:HG12	2:S:367:ILE:O	2.20	0.41
2:S:400:ILE:HD13	2:S:403:GLN:NE2	2.35	0.41
2:U:86:TYR:CD1	2:U:295:ALA:HB2	2.56	0.41
2:V:331:ILE:HA	2:V:468:PHE:CD2	2.56	0.41
2:V:373:ASP:N	2:V:452:GLU:O	2.45	0.41
3:W:138:PHE:HD2	3:W:161:LYS:C	2.24	0.41
3:W:369:GLY:N	3:W:374:THR:OG1	2.52	0.41
3:X:207:ASP:N	3:X:211:LYS:O	2.53	0.41
3:X:380:MET:SD	3:X:380:MET:N	2.93	0.41
3:Y:333:THR:HG23	3:Y:334:LYS:HG2	2.03	0.41
3:Y:459:ILE:HG22	3:Y:460:VAL:N	2.36	0.41
3:Y:537:ASN:O	3:Y:541:GLU:N	2.48	0.41
3:Z:427:THR:HG22	3:Z:428:GLY:N	2.36	0.41
1:A:57:LYS:HE3	2:R:114:GLU:HB2	2.03	0.41
1:A:380:ILE:HB	1:A:385:PHE:CE1	2.56	0.41
1:B:77:MET:HG3	1:B:684:MET:HG3	2.03	0.41
1:C:482:VAL:HG12	1:C:483:SER:N	2.36	0.41
1:C:483:SER:HA	1:C:495:SER:HA	2.02	0.41
1:C:495:SER:C	1:C:496:PHE:CD1	2.94	0.41
1:C:570:ASP:OD2	1:C:574:ARG:HB2	2.21	0.41
1:C:634:ILE:HD13	1:C:637:LEU:HD12	2.03	0.41
1:D:463:VAL:HG12	1:D:464:ASN:N	2.35	0.41
1:E:77:MET:O	1:E:81:GLN:OE1	2.38	0.41
1:E:441:ASP:O	1:E:519:TYR:N	2.53	0.41
1:E:523:ASN:HA	1:E:526:ILE:HD12	2.03	0.41
1:F:59:LEU:HD23	1:F:698:THR:HG23	2.03	0.41
1:F:207:ASP:OD1	1:F:207:ASP:N	2.53	0.41
1:F:501:THR:CG2	1:F:502:ASN:N	2.84	0.41
1:H:43:ALA:O	1:H:47:ILE:N	2.45	0.41
1:H:219:GLN:HE21	1:H:272:PRO:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:631:VAL:CG1	1:I:633:ILE:HG12	2.51	0.41
1:J:132:GLN:HA	1:J:140:VAL:HB	2.02	0.41
1:J:188:GLN:O	1:J:625:THR:HG23	2.21	0.41
1:J:298:VAL:HG12	1:J:299:SER:N	2.35	0.41
1:J:348:SER:O	1:J:352:VAL:HG23	2.20	0.41
1:J:566:ASP:O	1:J:577:VAL:HG13	2.20	0.41
1:J:694:VAL:HG23	1:J:695:ASN:N	2.35	0.41
1:K:163:GLY:HA2	2:S:511:TYR:CE2	2.56	0.41
1:K:226:TYR:CZ	1:K:247:PHE:HB3	2.56	0.41
2:L:3:ILE:HG23	2:L:4:PHE:N	2.36	0.41
2:L:24:THR:HG22	2:L:576:LEU:HD11	2.03	0.41
2:L:166:LYS:HE3	2:L:270:TYR:CG	2.56	0.41
2:M:75:TYR:HB2	2:M:76:LYS:HD2	2.03	0.41
2:M:352:SER:HA	2:M:436:ASP:OD1	2.19	0.41
2:M:441:ILE:N	2:M:441:ILE:HD12	2.35	0.41
2:N:41:VAL:HG22	2:N:42:VAL:N	2.35	0.41
2:N:332:ASN:OD1	2:N:461:ALA:HA	2.21	0.41
2:N:376:ILE:HG22	2:N:377:TYR:N	2.35	0.41
2:O:19:VAL:HG23	2:O:20:GLN:N	2.36	0.41
2:P:122:ASP:O	2:P:126:ASN:N	2.53	0.41
2:P:201:ARG:O	2:P:205:ASP:CG	2.59	0.41
2:P:292:GLN:O	2:P:296:GLN:N	2.42	0.41
2:P:453:ASP:OD1	2:P:456:THR:N	2.49	0.41
2:P:552:SER:O	2:P:555:THR:HB	2.20	0.41
2:P:576:LEU:HD12	2:P:577:ALA:N	2.35	0.41
2:Q:245:ILE:O	2:Q:248:PHE:O	2.39	0.41
2:Q:462:PHE:HD2	2:Q:464:ILE:HD12	1.84	0.41
2:R:376:ILE:HB	2:R:385:LEU:HB2	2.03	0.41
2:R:445:SER:OG	2:R:446:GLY:N	2.53	0.41
2:R:503:ALA:O	2:R:507:ILE:HG13	2.20	0.41
2:S:84:LEU:HD11	2:S:554:GLU:HA	2.02	0.41
2:S:116:TYR:O	2:S:120:TRP:CD1	2.74	0.41
2:S:254:ILE:HG13	2:S:255:ASN:N	2.35	0.41
2:T:372:PHE:CE2	2:T:391:ILE:CD1	3.04	0.41
2:T:392:ASP:OD1	2:T:395:THR:N	2.50	0.41
2:T:407:ASN:HD21	2:T:417:ASN:HA	1.86	0.41
2:V:41:VAL:HG12	2:V:42:VAL:N	2.34	0.41
2:V:324:ASP:O	2:V:328:LYS:N	2.50	0.41
2:V:532:TYR:O	2:V:535:LEU:HG	2.19	0.41
3:W:14:GLY:O	3:W:613:TRP:CH2	2.74	0.41
3:W:114:TYR:CE2	3:W:116:SER:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:158:LEU:HD21	3:W:225:LEU:HD11	2.02	0.41
3:W:292:ILE:HG23	3:W:294:PHE:CE2	2.55	0.41
3:W:374:THR:HG23	3:W:376:VAL:HG23	2.03	0.41
3:X:54:LYS:O	3:X:58:LEU:HG	2.21	0.41
3:X:268:MET:HE3	3:Y:175:VAL:HG11	2.03	0.41
3:X:449:GLY:HA3	3:X:479:LEU:O	2.19	0.41
3:Y:344:ASN:O	3:Y:347:ARG:HB2	2.21	0.41
3:Y:355:PHE:O	3:Y:378:LEU:HB3	2.21	0.41
3:Z:248:ASP:CG	3:Z:250:SER:HG	2.23	0.41
1:A:49:ASN:OD1	1:A:53:GLU:OE2	2.38	0.41
1:B:572:LYS:NZ	1:B:631:VAL:HG12	2.34	0.41
1:C:502:ASN:N	1:C:503:PRO:HD3	2.36	0.41
1:C:744:LEU:O	1:C:748:ASN:HB3	2.21	0.41
1:D:5:ASN:ND2	1:D:5:ASN:N	2.68	0.41
1:D:7:LEU:H	2:Q:565:GLN:CB	2.34	0.41
1:D:140:VAL:HG23	1:D:141:ALA:N	2.35	0.41
1:D:219:GLN:OE1	1:D:247:PHE:CD2	2.74	0.41
1:E:180:LYS:HE2	1:E:676:HIS:NE2	2.35	0.41
1:F:26:ILE:CG2	1:F:724:LEU:HD13	2.50	0.41
1:F:258:LYS:O	1:F:261:GLY:N	2.54	0.41
1:G:96:GLN:O	1:G:102:ASN:OD1	2.39	0.41
1:G:227:VAL:HG23	1:G:230:ASN:H	1.84	0.41
1:G:482:VAL:O	1:G:495:SER:HB2	2.21	0.41
1:G:547:ASN:OD1	1:G:547:ASN:C	2.59	0.41
1:H:5:ASN:HA	1:H:8:ASN:HD22	1.86	0.41
1:H:157:ASN:ND2	1:H:171:ASN:O	2.54	0.41
1:H:528:MET:SD	1:H:561:SER:HB2	2.61	0.41
1:I:369:ILE:HD13	1:I:599:PHE:CD1	2.56	0.41
1:I:602:PRO:CB	1:I:603:PRO:HA	2.51	0.41
1:J:71:GLU:O	1:J:74:GLN:HG2	2.21	0.41
1:J:145:PHE:CE1	1:J:151:TYR:HD1	2.39	0.41
1:J:323:VAL:HG21	1:J:409:GLY:HA3	2.03	0.41
1:J:443:THR:O	1:J:519:TYR:N	2.51	0.41
1:J:551:TYR:HE2	2:T:416:SER:HB3	1.83	0.41
1:K:254:VAL:HG13	1:K:320:PHE:HE1	1.85	0.41
2:L:102:PRO:HG2	2:L:107:THR:HG21	2.03	0.41
2:L:166:LYS:HE2	2:L:261:LEU:CD2	2.50	0.41
2:L:273:TYR:HB2	2:L:275:GLU:OE2	2.21	0.41
2:L:592:ILE:HG21	2:V:579:LEU:HD21	2.02	0.41
2:M:101:PHE:CZ	2:M:539:ILE:HG21	2.56	0.41
2:M:163:ASP:HA	2:M:166:LYS:NZ	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:419:ASP:N	2:M:422:ASP:OD2	2.43	0.41
2:N:90:MET:HB3	2:N:546:ASN:ND2	2.36	0.41
2:N:154:LEU:HB2	2:N:320:MET:CE	2.51	0.41
2:N:248:PHE:CE1	2:N:274:TYR:CE2	3.09	0.41
2:N:274:TYR:N	2:N:284:LEU:HG	2.36	0.41
2:N:314:GLY:HA3	2:N:317:GLN:HB3	2.02	0.41
2:N:326:PHE:HB2	2:N:531:TYR:CZ	2.56	0.41
2:N:515:ASN:HA	2:N:524:ASP:O	2.20	0.41
2:O:15:LYS:O	2:O:19:VAL:HG22	2.21	0.41
2:O:182:ILE:HG23	2:O:200:LEU:CD2	2.51	0.41
2:O:264:ASP:HB2	2:O:269:SER:HB3	2.02	0.41
2:O:560:VAL:O	2:O:564:TYR:CD2	2.74	0.41
2:P:161:VAL:O	2:P:165:ILE:HG13	2.21	0.41
2:P:396:THR:O	2:P:399:ASP:HB2	2.21	0.41
2:P:551:SER:HA	2:P:554:GLU:OE2	2.21	0.41
2:Q:146:SER:O	2:Q:149:ASN:OD1	2.39	0.41
2:Q:305:SER:HA	2:Q:312:GLU:CG	2.51	0.41
2:Q:396:THR:N	2:Q:399:ASP:OD2	2.40	0.41
2:Q:430:TYR:CZ	2:Q:435:GLY:HA2	2.56	0.41
2:R:74:TYR:OH	2:R:205:ASP:O	2.29	0.41
2:R:172:ILE:HD13	2:R:175:ILE:HD12	2.02	0.41
2:R:194:THR:OG1	2:R:225:ASN:HA	2.21	0.41
2:R:526:LEU:HB2	2:R:531:TYR:CE2	2.55	0.41
2:R:600:LEU:HA	2:R:603:LEU:HD12	2.02	0.41
2:S:553:ASN:C	2:S:553:ASN:HD22	2.23	0.41
2:T:160:LYS:HG3	2:T:161:VAL:N	2.36	0.41
2:T:337:LEU:HD23	2:T:337:LEU:C	2.41	0.41
2:T:371:SER:O	2:T:454:LYS:N	2.53	0.41
2:T:556:LEU:HD12	2:T:557:TYR:N	2.35	0.41
2:U:384:LYS:HD3	2:U:385:LEU:CD2	2.50	0.41
2:V:107:THR:HG23	2:V:110:LEU:HD12	2.02	0.41
2:V:214:LEU:HA	2:V:292:GLN:H	1.86	0.41
3:Y:371:LYS:HD2	3:Y:372:VAL:H	1.86	0.41
3:Z:78:VAL:HG21	3:Z:91:THR:HA	2.03	0.41
3:Z:380:MET:O	3:Z:385:LEU:HB3	2.21	0.41
1:A:23:LEU:HD22	1:A:728:GLN:HB2	2.03	0.41
1:A:157:ASN:OD1	1:A:158:ILE:O	2.39	0.41
1:A:264:PHE:CE2	1:A:286:LEU:HD21	2.56	0.41
1:A:297:GLU:O	1:A:308:ILE:HA	2.21	0.41
1:A:429:SER:OG	1:A:572:LYS:HG3	2.21	0.41
1:A:734:SER:HA	1:C:30:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:176:ASP:HA	1:B:180:LYS:HB2	2.03	0.41
1:B:419:LYS:HD2	1:B:421:GLY:O	2.21	0.41
1:B:428:VAL:O	1:B:430:GLN:NE2	2.54	0.41
1:B:454:LEU:HD22	1:B:514:SER:OG	2.21	0.41
1:B:669:ARG:O	1:B:673:LEU:N	2.49	0.41
1:C:71:GLU:O	1:C:75:ASN:OD1	2.39	0.41
1:C:339:ILE:O	1:C:343:ASN:ND2	2.43	0.41
1:C:422:ASN:ND2	1:C:582:SER:O	2.54	0.41
1:C:460:ASN:HA	1:C:474:THR:HA	2.02	0.41
1:C:500:HIS:ND1	1:C:511:VAL:O	2.54	0.41
1:C:528:MET:HE2	1:C:557:LEU:CG	2.50	0.41
1:C:697:ARG:HD2	1:C:700:PHE:CZ	2.56	0.41
1:D:433:LYS:NZ	1:D:450:ALA:O	2.53	0.41
1:E:184:ASP:HA	1:E:313:GLN:OE1	2.21	0.41
1:E:697:ARG:NH2	1:F:82:ASP:OD2	2.38	0.41
1:F:104:GLN:O	1:F:107:ARG:N	2.52	0.41
1:F:158:ILE:HG22	1:F:170:TYR:CZ	2.56	0.41
1:F:737:ALA:O	1:F:740:THR:HB	2.21	0.41
1:G:196:THR:HG22	1:G:211:TYR:HA	2.03	0.41
1:G:199:ARG:NH1	1:G:239:GLU:OE2	2.53	0.41
1:G:218:TRP:CE2	1:G:222:ILE:HG13	2.56	0.41
1:G:496:PHE:HA	1:G:539:ILE:O	2.21	0.41
1:H:205:ASP:N	1:H:206:PRO:CD	2.84	0.41
1:H:501:THR:O	1:H:509:GLY:N	2.54	0.41
1:H:538:THR:HG22	1:H:539:ILE:N	2.36	0.41
1:I:2:ARG:HB2	2:P:568:SER:C	2.41	0.41
1:I:170:TYR:CD1	1:I:170:TYR:N	2.89	0.41
1:I:236:LYS:C	1:I:243:SER:HG	2.23	0.41
1:I:551:TYR:CZ	2:P:414:LYS:HD3	2.55	0.41
1:I:693:GLY:O	1:I:696:THR:HG22	2.20	0.41
1:J:155:LYS:HD3	1:J:175:TRP:CZ2	2.56	0.41
1:J:214:GLY:O	1:J:277:GLU:OE1	2.38	0.41
1:J:500:HIS:HB3	2:T:414:LYS:N	2.35	0.41
1:J:750:MET:OXT	2:P:591:LYS:NZ	2.52	0.41
1:K:234:ALA:O	1:K:238:PHE:HB2	2.21	0.41
2:L:37:THR:HG22	2:L:38:ARG:N	2.36	0.41
2:L:241:TYR:HB3	2:L:254:ILE:CG2	2.51	0.41
2:L:306:LYS:O	2:L:309:GLY:N	2.54	0.41
2:L:580:ILE:HG23	2:L:581:GLN:N	2.36	0.41
2:M:74:TYR:HB2	2:M:564:TYR:CE1	2.56	0.41
2:M:318:GLY:HA2	2:M:321:ASP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:333:GLU:HG2	2:M:334:THR:N	2.35	0.41
2:M:367:ILE:HG23	2:M:458:PHE:CE1	2.56	0.41
2:M:526:LEU:CD2	2:M:530:GLU:OE1	2.68	0.41
2:M:564:TYR:HA	2:M:567:LYS:HD3	2.03	0.41
2:N:79:GLY:O	2:N:83:GLN:HG2	2.21	0.41
2:N:288:ILE:HG22	2:N:289:SER:N	2.35	0.41
2:N:321:ASP:O	2:N:325:THR:OG1	2.28	0.41
2:N:334:THR:HB	2:N:468:PHE:CE2	2.56	0.41
2:N:385:LEU:CD1	2:N:419:ASP:HA	2.50	0.41
2:O:31:ALA:HB1	2:O:570:VAL:HG21	2.02	0.41
2:O:77:LEU:HD13	2:O:564:TYR:HE2	1.86	0.41
2:O:87:THR:HB	2:O:550:ASN:ND2	2.36	0.41
2:O:303:ASN:OD1	2:O:304:TYR:N	2.54	0.41
2:O:546:ASN:O	2:O:549:VAL:HB	2.21	0.41
2:O:583:GLN:HA	2:O:583:GLN:OE1	2.21	0.41
2:P:51:THR:HB	2:T:64:SER:OG	2.20	0.41
2:P:56:VAL:HA	2:T:196:HIS:H	1.86	0.41
2:P:85:GLU:HG3	2:P:213:LYS:HB3	2.02	0.41
2:P:145:GLU:O	2:P:149:ASN:ND2	2.54	0.41
2:P:166:LYS:NZ	2:P:261:LEU:HD22	2.35	0.41
2:P:365:ARG:O	2:P:368:GLN:NE2	2.49	0.41
2:P:526:LEU:CD2	2:P:530:GLU:OE1	2.69	0.41
2:Q:39:GLN:HE22	2:Q:67:ARG:HG3	1.86	0.41
2:Q:77:LEU:HD22	2:Q:564:TYR:CE2	2.56	0.41
2:Q:129:GLU:O	2:Q:132:THR:OG1	2.35	0.41
2:Q:186:ILE:HB	2:Q:187:TYR:CD2	2.55	0.41
2:Q:204:ARG:NE	2:Q:208:GLU:OE2	2.54	0.41
2:Q:469:SER:HB2	2:Q:478:VAL:O	2.21	0.41
2:R:123:PHE:CE1	2:R:127:PRO:HA	2.56	0.41
2:R:177:GLU:OE1	2:R:184:LYS:NZ	2.52	0.41
2:R:312:GLU:OE1	2:R:312:GLU:N	2.54	0.41
2:R:604:LEU:HD23	2:R:604:LEU:O	2.20	0.41
2:S:83:GLN:O	2:S:86:TYR:HB3	2.20	0.41
2:S:105:GLN:O	2:S:106:ASN:HB2	2.20	0.41
2:S:395:THR:O	2:S:400:ILE:HG12	2.21	0.41
2:S:470:GLY:HA3	2:S:476:MET:HA	2.03	0.41
2:T:39:GLN:HG2	2:T:67:ARG:HA	2.03	0.41
2:T:86:TYR:HD1	2:T:295:ALA:HB2	1.86	0.41
2:T:261:LEU:HD12	2:T:271:SER:O	2.21	0.41
2:U:274:TYR:HD1	2:U:284:LEU:HG	1.84	0.41
2:U:328:LYS:HA	2:U:331:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:374:ILE:CD1	2:U:387:LYS:HB3	2.51	0.41
2:V:100:ARG:NE	2:V:153:THR:HG21	2.35	0.41
2:V:103:ASP:C	2:V:105:GLN:N	2.74	0.41
2:V:305:SER:CB	2:V:310:LYS:O	2.69	0.41
2:V:589:ALA:O	2:V:593:VAL:HG23	2.21	0.41
3:W:9:LEU:HB2	3:W:620:LEU:CG	2.49	0.41
3:W:61:GLN:OE1	3:W:567:LEU:HB2	2.21	0.41
3:W:87:PRO:CG	3:W:292:ILE:HB	2.51	0.41
3:W:371:LYS:C	3:W:373:ASN:N	2.75	0.41
3:W:431:ILE:HG22	3:W:432:LYS:N	2.36	0.41
3:X:105:VAL:O	3:X:289:THR:HA	2.21	0.41
3:X:112:ASP:HA	3:X:254:GLN:O	2.21	0.41
3:X:114:TYR:CD2	3:X:201:PHE:HZ	2.37	0.41
3:X:385:LEU:N	3:X:400:PHE:CZ	2.89	0.41
3:X:422:GLU:HG3	3:X:554:ILE:HD11	2.03	0.41
3:X:471:ASN:HA	3:X:494:HIS:ND1	2.36	0.41
3:Y:222:PHE:HB3	3:Y:228:GLY:HA2	2.03	0.41
3:Y:538:ILE:HA	3:Y:541:GLU:HB2	2.02	0.41
3:Z:39:LYS:HA	3:Z:39:LYS:HE2	2.03	0.41
3:Z:194:GLY:HA2	3:Z:258:ASN:HA	2.02	0.41
3:Z:209:ASN:OD1	3:Z:211:LYS:HB3	2.20	0.41
3:Z:451:GLU:OE1	3:Z:451:GLU:N	2.52	0.41
1:A:268:VAL:HG22	1:A:269:LEU:N	2.36	0.41
1:A:605:THR:OG1	1:A:607:THR:OG1	1.94	0.41
1:B:402:THR:HG22	1:B:416:TYR:CD1	2.56	0.41
1:C:7:LEU:HA	2:M:565:GLN:HE22	1.86	0.41
1:C:199:ARG:HA	1:C:223:GLY:HA3	2.02	0.41
1:D:271:LYS:HB2	1:D:274:ASP:OD1	2.20	0.41
1:D:699:SER:O	1:D:703:VAL:HG23	2.21	0.41
1:E:143:LYS:NZ	1:E:145:PHE:O	2.33	0.41
1:E:477:LEU:O	1:E:514:SER:OG	2.28	0.41
1:F:2:ARG:HB3	2:V:571:ASN:HB2	2.01	0.41
1:F:202:LEU:HD22	1:F:209:THR:H	1.86	0.41
1:F:221:LEU:H	1:F:221:LEU:HD23	1.86	0.41
1:F:353:THR:O	1:F:357:MET:HG2	2.21	0.41
1:F:360:SER:HA	1:F:366:ASN:O	2.21	0.41
1:G:7:LEU:O	1:G:10:THR:N	2.54	0.41
1:G:86:LEU:HD21	1:G:120:SER:OG	2.21	0.41
1:G:500:HIS:HB2	2:O:414:LYS:CA	2.51	0.41
1:H:160:VAL:HG12	1:H:168:SER:O	2.21	0.41
1:H:178:PHE:O	1:H:633:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:198:ASN:H	1:H:221:LEU:HA	1.86	0.41
1:H:464:ASN:HA	1:H:470:SER:HA	2.03	0.41
1:H:489:ASN:O	1:H:490:PRO:C	2.58	0.41
1:H:736:LYS:O	1:H:740:THR:HG23	2.20	0.41
1:I:1:MET:O	2:P:571:ASN:HB2	2.21	0.41
1:I:297:GLU:O	1:I:309:THR:N	2.54	0.41
1:I:597:GLY:O	1:I:599:PHE:CE1	2.74	0.41
1:J:728:GLN:HG2	1:J:732:GLN:OE1	2.21	0.41
1:K:6:LYS:HG3	1:K:9:PHE:CZ	2.56	0.41
1:K:338:ILE:O	1:K:341:ALA:HB3	2.21	0.41
1:K:565:VAL:HG12	1:K:566:ASP:N	2.35	0.41
2:L:236:ASP:O	2:L:240:GLN:NE2	2.41	0.41
2:L:260:LYS:NZ	2:L:262:ASP:OD2	2.43	0.41
2:L:263:TYR:CD2	2:L:268:LYS:HA	2.56	0.41
2:L:317:GLN:HA	2:L:320:MET:HE1	2.03	0.41
2:L:478:VAL:HG12	2:L:479:LYS:N	2.35	0.41
2:M:29:SER:HB3	2:M:575:GLU:HB3	2.02	0.41
2:M:383:LYS:HE2	2:M:384:LYS:N	2.36	0.41
2:N:40:ARG:HG3	2:N:41:VAL:N	2.36	0.41
2:N:172:ILE:O	2:N:176:GLY:N	2.49	0.41
2:N:232:THR:O	2:N:233:THR:C	2.60	0.41
2:N:234:ILE:HG12	2:N:235:THR:H	1.85	0.41
2:N:604:LEU:HA	2:N:607:LYS:HG2	2.02	0.41
2:Q:468:PHE:O	2:Q:479:LYS:HE2	2.21	0.41
2:Q:532:TYR:CZ	2:Q:536:THR:HG21	2.54	0.41
2:R:69:HIS:CE1	2:R:71:GLU:HA	2.56	0.41
2:S:113:LEU:HA	2:S:116:TYR:HB3	2.02	0.41
2:T:189:GLN:O	2:T:233:THR:O	2.39	0.41
2:U:378:ASP:C	2:U:380:LYS:H	2.25	0.41
2:V:505:LYS:O	2:V:508:GLN:HB3	2.21	0.41
3:W:86:PRO:O	3:W:287:ASN:HB2	2.21	0.41
3:W:228:GLY:H	3:W:247:LYS:HB2	1.86	0.41
3:W:306:ALA:O	3:W:310:LEU:N	2.39	0.41
3:X:609:MET:HA	3:X:612:GLN:OE1	2.21	0.41
3:X:628:ASN:OD1	3:X:628:ASN:C	2.59	0.41
3:Y:361:ASP:OD1	3:Y:361:ASP:C	2.60	0.41
3:Y:380:MET:HA	3:Y:383:PHE:CD2	2.56	0.41
3:Y:403:LYS:NZ	3:Y:407:ASP:OD2	2.51	0.41
3:Z:52:GLU:OE2	3:Z:53:ILE:HG13	2.21	0.41
1:B:173:PRO:HB2	1:B:175:TRP:CD1	2.56	0.40
1:B:197:ASP:OD1	1:B:198:ASN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:500:HIS:N	1:B:510:VAL:O	2.47	0.40
1:C:439:ALA:HB3	1:C:569:MET:CE	2.51	0.40
1:C:546:ILE:O	1:C:547:ASN:C	2.60	0.40
1:C:682:THR:HB	2:Q:131:ALA:HB1	2.03	0.40
1:C:746:LEU:O	1:C:750:MET:N	2.54	0.40
1:D:500:HIS:CE1	1:D:502:ASN:HB2	2.56	0.40
1:D:604:PHE:CB	1:D:609:THR:HG23	2.51	0.40
1:D:715:VAL:HG22	1:D:716:ASP:N	2.36	0.40
1:D:749:TYR:CZ	2:Q:573:ASN:HB2	2.56	0.40
1:E:67:SER:O	1:E:71:GLU:OE1	2.39	0.40
1:F:108:GLU:O	1:F:111:ALA:N	2.54	0.40
1:F:192:ASN:OD1	1:F:193:VAL:N	2.54	0.40
1:F:250:THR:HG22	1:F:251:THR:N	2.36	0.40
1:F:401:ASP:N	1:F:407:ALA:HB2	2.36	0.40
1:F:443:THR:O	1:F:518:THR:HA	2.21	0.40
1:F:631:VAL:HG12	1:F:632:ASP:N	2.36	0.40
1:F:736:LYS:HE2	1:F:736:LYS:HA	2.02	0.40
1:G:218:TRP:HB3	1:G:272:PRO:HA	2.02	0.40
1:G:352:VAL:CG1	1:G:380:ILE:HD11	2.51	0.40
1:G:682:THR:HG21	1:H:109:ALA:CA	2.51	0.40
1:I:431:VAL:HG11	1:I:436:ASN:HA	2.03	0.40
1:I:486:ASP:CB	1:I:490:PRO:HA	2.51	0.40
1:I:500:HIS:CE1	1:I:510:VAL:HB	2.55	0.40
1:J:171:ASN:ND2	1:J:173:PRO:HD3	2.36	0.40
1:K:547:ASN:OD1	1:K:549:ALA:HB3	2.21	0.40
2:L:207:LEU:O	2:L:210:THR:N	2.54	0.40
2:N:21:ILE:HG23	2:S:603:LEU:CD1	2.52	0.40
2:N:88:LYS:CG	2:N:89:TYR:N	2.84	0.40
2:N:299:LEU:O	2:N:316:ILE:HD12	2.21	0.40
2:O:84:LEU:CD1	2:O:88:LYS:HG3	2.51	0.40
2:O:96:GLU:HA	2:O:99:GLN:OE1	2.21	0.40
2:O:186:ILE:HG22	2:O:187:TYR:CE2	2.56	0.40
2:O:218:VAL:H	2:O:243:LEU:CD1	2.34	0.40
2:P:94:LEU:HD13	2:P:543:GLY:HA2	2.02	0.40
2:P:198:ASN:O	2:P:202:ASP:OD1	2.38	0.40
2:P:478:VAL:HG12	2:P:479:LYS:N	2.36	0.40
2:P:485:ASP:OD2	2:P:488:THR:HG23	2.21	0.40
2:Q:37:THR:HG22	2:Q:68:LEU:H	1.87	0.40
2:Q:38:ARG:HH11	2:Q:68:LEU:HB2	1.86	0.40
2:Q:299:LEU:HA	2:Q:315:ILE:HB	2.03	0.40
2:Q:474:SER:OG	2:Q:475:ASP:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:600:LEU:HA	2:Q:603:LEU:HD12	2.02	0.40
2:R:346:VAL:HG12	2:R:347:THR:N	2.36	0.40
2:S:30:ASN:HA	2:S:33:ALA:HB3	2.02	0.40
2:S:123:PHE:CE2	2:S:491:ALA:HB2	2.56	0.40
2:S:336:ASN:N	2:S:460:GLY:HA3	2.36	0.40
2:T:335:ASN:HA	2:T:467:PHE:H	1.85	0.40
2:T:367:ILE:HD11	2:T:462:PHE:CZ	2.57	0.40
2:U:261:LEU:HA	2:U:271:SER:O	2.21	0.40
2:U:345:SER:O	2:U:346:VAL:HG13	2.20	0.40
2:V:161:VAL:O	2:V:165:ILE:N	2.47	0.40
2:V:180:ALA:HB1	2:V:255:ASN:N	2.36	0.40
2:V:413:ASN:O	2:V:414:LYS:CB	2.68	0.40
2:V:467:PHE:CE1	2:V:482:ILE:HD13	2.56	0.40
3:W:101:MET:CG	3:W:102:ASN:N	2.85	0.40
3:W:492:ALA:HB2	3:W:507:VAL:HG23	2.02	0.40
3:W:573:LYS:HA	3:W:578:THR:HG21	2.02	0.40
3:W:598:THR:HG22	3:W:602:ILE:HD12	2.02	0.40
3:X:399:LYS:HG2	3:X:403:LYS:HZ3	1.86	0.40
3:X:530:PHE:O	3:X:549:ILE:N	2.50	0.40
3:X:569:GLU:O	3:X:575:GLY:HA2	2.21	0.40
3:Y:477:PHE:CE2	3:Y:479:LEU:HA	2.56	0.40
3:Y:482:LYS:H	3:Y:482:LYS:HD2	1.86	0.40
3:Z:24:LEU:O	3:Z:27:ALA:HB3	2.21	0.40
3:Z:54:LYS:HD3	3:Z:58:LEU:HD11	2.02	0.40
3:Z:106:THR:O	3:Z:107:GLN:HB2	2.21	0.40
3:Z:564:LYS:HG2	3:Z:568:GLN:OE1	2.22	0.40
1:A:35:LYS:NZ	1:A:714:ASP:O	2.44	0.40
1:A:440:THR:H	1:A:443:THR:CB	2.34	0.40
1:A:678:SER:O	1:A:681:ASN:HB2	2.21	0.40
1:B:459:LEU:N	1:B:475:ILE:O	2.43	0.40
1:B:471:TYR:CZ	1:B:487:PRO:HB3	2.57	0.40
1:B:495:SER:H	1:B:538:THR:HA	1.87	0.40
1:C:4:THR:HG23	1:C:5:ASN:N	2.37	0.40
1:C:396:LYS:HB3	1:C:653:SER:HB2	2.03	0.40
1:D:20:GLN:HA	1:D:23:LEU:HD12	2.03	0.40
1:D:469:ASN:HB2	1:D:471:TYR:CE2	2.57	0.40
1:D:499:MET:HE1	1:D:546:ILE:HG23	2.03	0.40
1:E:137:GLY:CA	1:E:173:PRO:HA	2.51	0.40
1:E:259:PRO:O	1:E:317:LYS:HB2	2.22	0.40
1:E:399:MET:O	1:E:407:ALA:HB3	2.22	0.40
1:E:411:ASP:O	1:E:621:ASN:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:460:ASN:O	1:E:591:LEU:HD12	2.21	0.40
1:F:62:VAL:HG13	1:F:162:THR:HB	2.04	0.40
1:F:150:ASN:OD1	1:F:151:TYR:N	2.49	0.40
1:G:202:LEU:HD13	1:G:209:THR:HG23	2.02	0.40
1:H:432:ILE:CG2	1:H:433:LYS:N	2.84	0.40
1:H:441:ASP:O	1:H:519:TYR:N	2.54	0.40
1:H:652:ASP:O	1:H:658:PRO:HA	2.20	0.40
1:H:716:ASP:OD2	1:I:17:MET:SD	2.79	0.40
1:I:334:GLU:OE2	1:I:338:ILE:HD11	2.21	0.40
1:I:376:VAL:HG23	1:I:389:LEU:HD21	2.03	0.40
1:I:419:LYS:CD	1:I:424:VAL:HG22	2.51	0.40
1:J:45:THR:HG23	1:J:46:TYR:N	2.36	0.40
1:K:189:ILE:HG22	1:K:625:THR:HG1	1.86	0.40
1:K:189:ILE:N	1:K:308:ILE:O	2.41	0.40
1:K:501:THR:O	1:K:502:ASN:C	2.58	0.40
2:L:95:GLN:O	2:L:99:GLN:OE1	2.38	0.40
2:L:400:ILE:O	2:L:404:ILE:N	2.40	0.40
2:N:241:TYR:CD2	2:N:242:ASN:N	2.89	0.40
2:N:261:LEU:HD12	2:N:272:ILE:HG13	2.04	0.40
2:N:317:GLN:HB3	2:N:317:GLN:HE21	1.71	0.40
2:N:337:LEU:O	2:N:337:LEU:HD23	2.21	0.40
2:N:372:PHE:CE2	2:N:389:ILE:HB	2.56	0.40
2:N:541:SER:O	2:N:545:ASN:N	2.41	0.40
2:O:45:THR:HB	2:O:58:THR:HA	2.02	0.40
2:O:71:GLU:OE1	2:O:75:TYR:N	2.55	0.40
2:P:271:SER:HB3	2:P:273:TYR:CE1	2.56	0.40
2:P:374:ILE:O	2:P:386:THR:HA	2.20	0.40
2:P:400:ILE:HG22	2:P:404:ILE:CD1	2.51	0.40
2:Q:121:ASN:O	2:Q:125:SER:N	2.45	0.40
2:Q:412:ASP:OD1	2:Q:412:ASP:C	2.59	0.40
2:R:470:GLY:HA3	2:R:476:MET:HA	2.04	0.40
2:R:492:SER:HA	2:R:501:ASP:OD1	2.22	0.40
2:S:166:LYS:HE3	2:S:270:TYR:CD1	2.56	0.40
2:S:283:ASP:OD1	2:S:285:THR:HG23	2.21	0.40
2:S:389:ILE:CG2	2:S:403:GLN:NE2	2.85	0.40
2:S:514:VAL:HG22	2:S:526:LEU:O	2.20	0.40
2:S:525:ASN:O	2:S:526:LEU:HD12	2.21	0.40
2:U:3:ILE:HG23	2:U:4:PHE:N	2.36	0.40
2:U:42:VAL:HG12	2:U:43:GLN:O	2.21	0.40
2:U:75:TYR:HA	2:U:78:LYS:HB2	2.03	0.40
2:U:399:ASP:HA	2:U:402:ARG:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:36:TYR:CG	2:V:37:THR:N	2.88	0.40
2:V:123:PHE:CE2	2:V:503:ALA:HB2	2.57	0.40
2:V:246:GLU:HG3	2:V:287:LYS:HB3	2.03	0.40
3:W:17:THR:HB	3:W:613:TRP:CZ2	2.56	0.40
3:W:102:ASN:HA	3:W:292:ILE:O	2.21	0.40
3:W:138:PHE:CE2	3:W:161:LYS:HB2	2.57	0.40
3:X:20:THR:O	3:X:24:LEU:HD23	2.21	0.40
3:Y:411:THR:HG23	3:Y:412:GLU:N	2.36	0.40
3:Z:61:GLN:OE1	3:Z:567:LEU:HB3	2.21	0.40
3:Z:382:ASP:O	3:Z:403:LYS:HG3	2.21	0.40
1:A:34:LEU:HD22	1:A:713:ILE:HG13	2.03	0.40
1:A:39:SER:HA	1:A:46:TYR:CD2	2.56	0.40
1:A:218:TRP:HB3	1:A:272:PRO:O	2.22	0.40
1:B:361:THR:CG2	1:B:369:ILE:HG23	2.52	0.40
1:C:79:ALA:HA	1:C:82:ASP:OD2	2.21	0.40
1:C:83:MET:N	1:C:83:MET:SD	2.93	0.40
1:C:97:ALA:HA	1:C:110:ILE:HD13	2.03	0.40
1:C:622:ASN:ND2	1:C:623:SER:O	2.54	0.40
1:D:501:THR:HA	1:D:509:GLY:H	1.86	0.40
1:E:93:LYS:O	1:E:97:ALA:N	2.52	0.40
1:E:331:THR:OG1	1:E:334:GLU:HG2	2.21	0.40
1:E:521:GLN:NE2	2:L:414:LYS:HB3	2.35	0.40
1:E:708:ILE:O	1:E:712:VAL:HG23	2.21	0.40
1:F:523:ASN:OD1	1:F:567:VAL:HG11	2.20	0.40
1:G:53:GLU:HA	1:G:56:ILE:HB	2.03	0.40
1:G:651:ALA:N	1:G:661:THR:HG22	2.37	0.40
1:H:271:LYS:NZ	1:H:274:ASP:OD1	2.49	0.40
1:H:607:THR:HA	1:I:582:SER:HB2	2.04	0.40
1:I:11:ASN:HB2	2:P:561:TYR:HE2	1.87	0.40
1:I:195:PHE:CE2	1:I:212:LEU:HB2	2.55	0.40
1:I:236:LYS:O	1:I:243:SER:OG	2.32	0.40
1:I:331:THR:O	1:I:335:LEU:N	2.42	0.40
1:I:704:ASN:OD1	1:I:705:VAL:HG23	2.22	0.40
1:J:64:GLU:CD	1:J:68:ARG:HE	2.25	0.40
1:J:74:GLN:HB3	1:J:688:HIS:CD2	2.55	0.40
1:J:217:LYS:O	1:J:220:GLN:OE1	2.39	0.40
1:J:297:GLU:O	1:J:308:ILE:HA	2.21	0.40
1:J:378:VAL:O	1:J:384:GLN:HA	2.22	0.40
1:J:460:ASN:O	1:J:592:SER:N	2.50	0.40
1:K:91:LYS:HD2	1:K:670:LEU:HD22	2.02	0.40
1:K:218:TRP:HB3	1:K:272:PRO:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:528:MET:CA	1:K:561:SER:HB2	2.51	0.40
1:K:570:ASP:OD2	1:K:574:ARG:HB2	2.22	0.40
2:L:106:ASN:HA	2:L:111:GLN:NE2	2.33	0.40
2:L:194:THR:HG23	2:L:223:GLU:HB3	2.03	0.40
2:L:389:ILE:HG22	2:L:390:THR:N	2.37	0.40
2:L:472:ASP:O	2:L:474:SER:N	2.54	0.40
2:M:1:MET:O	2:M:4:PHE:CG	2.75	0.40
2:M:38:ARG:HD2	2:M:68:LEU:HD11	2.04	0.40
2:M:187:TYR:CE1	2:M:226:GLN:HG3	2.55	0.40
2:M:272:ILE:O	2:M:283:ASP:OD1	2.39	0.40
2:M:431:ASP:OD2	2:M:433:LYS:HE3	2.21	0.40
2:O:112:ASP:O	2:O:116:TYR:HB2	2.21	0.40
2:O:160:LYS:HA	2:O:163:ASP:OD2	2.21	0.40
2:P:332:ASN:HA	2:P:460:GLY:CA	2.51	0.40
2:Q:39:GLN:OE1	2:Q:67:ARG:HG2	2.21	0.40
2:Q:243:LEU:HD23	2:Q:251:VAL:HG23	2.02	0.40
2:Q:375:VAL:HA	2:Q:385:LEU:O	2.22	0.40
2:S:376:ILE:O	2:S:384:LYS:N	2.46	0.40
2:S:394:ASN:O	2:S:395:THR:C	2.57	0.40
2:S:439:PHE:CE2	2:S:441:ILE:HG13	2.56	0.40
2:S:472:ASP:O	2:S:474:SER:N	2.54	0.40
2:S:490:ARG:HD3	2:S:497:ASP:OD1	2.22	0.40
2:T:36:TYR:CD2	2:T:36:TYR:O	2.74	0.40
2:T:146:SER:O	2:T:150:THR:HG23	2.22	0.40
2:T:301:GLY:HA2	2:T:314:GLY:N	2.35	0.40
2:T:332:ASN:OD1	2:T:461:ALA:HA	2.21	0.40
2:T:360:LEU:HD11	2:T:395:THR:O	2.22	0.40
2:T:378:ASP:O	2:T:380:LYS:N	2.55	0.40
2:T:384:LYS:O	2:T:385:LEU:CG	2.70	0.40
2:U:417:ASN:O	2:U:418:ASP:HB3	2.22	0.40
2:U:472:ASP:O	2:U:474:SER:N	2.54	0.40
2:V:6:THR:CG2	2:V:596:VAL:HG21	2.51	0.40
2:V:162:ASN:HA	2:V:165:ILE:HD12	2.02	0.40
2:V:508:GLN:HG3	2:V:512:ASP:OD1	2.22	0.40
3:W:77:LYS:O	3:W:296:VAL:HA	2.20	0.40
3:W:307:MET:O	3:W:310:LEU:HB3	2.22	0.40
3:W:529:ASP:OD1	3:W:551:SER:N	2.34	0.40
3:W:563:LEU:O	3:W:567:LEU:HG	2.21	0.40
3:X:93:ASN:OD1	3:X:96:VAL:HG23	2.21	0.40
3:X:202:TYR:OH	3:X:214:LYS:HA	2.20	0.40
3:X:402:GLN:OE1	3:X:403:LYS:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:416:SER:HB2	3:X:561:SER:OG	2.21	0.40
3:X:463:ASN:OD1	3:X:529:ASP:HB2	2.21	0.40
3:Y:318:VAL:HG13	3:Y:347:ARG:HH22	1.86	0.40
3:Z:24:LEU:O	3:Z:28:GLU:OE1	2.40	0.40
3:Z:138:PHE:HE1	3:Z:170:ILE:CD1	2.35	0.40
3:Z:160:ASP:O	3:Z:164:GLU:OE1	2.39	0.40
3:Z:482:LYS:N	3:Z:486:GLU:OE1	2.53	0.40
3:Z:491:LEU:O	3:Z:495:ILE:N	2.44	0.40
1:A:90:PHE:HD1	1:A:117:ILE:HG21	1.86	0.40
1:A:258:LYS:HB3	1:A:259:PRO:CD	2.51	0.40
1:A:656:GLU:HG2	1:A:657:ASN:N	2.37	0.40
1:B:233:ASP:OD2	1:B:236:LYS:HE3	2.22	0.40
1:B:290:THR:OG1	1:B:293:ASN:N	2.54	0.40
1:B:471:TYR:CE1	1:B:487:PRO:HB3	2.57	0.40
1:C:2:ARG:NE	1:C:2:ARG:HA	2.36	0.40
1:C:5:ASN:O	1:C:8:ASN:ND2	2.54	0.40
1:C:26:ILE:HG23	1:C:720:ALA:HB1	2.04	0.40
1:C:401:ASP:HA	1:C:414:ASN:O	2.21	0.40
1:C:445:LEU:HG	1:C:517:ILE:O	2.22	0.40
1:D:181:ALA:C	1:D:631:VAL:HG23	2.42	0.40
1:D:222:ILE:O	1:D:222:ILE:HG22	2.22	0.40
1:D:426:GLY:O	1:D:575:ILE:HD12	2.21	0.40
1:G:108:GLU:O	1:G:112:LYS:HD3	2.21	0.40
1:G:192:ASN:OD1	1:G:193:VAL:HG23	2.22	0.40
1:H:9:PHE:CD2	2:O:581:GLN:HG3	2.56	0.40
1:H:182:ASP:HB3	1:H:672:HIS:CE1	2.56	0.40
1:H:241:ASP:HA	1:H:244:LYS:HB3	2.03	0.40
1:H:500:HIS:CE1	1:H:512:THR:HA	2.57	0.40
1:H:526:ILE:CD1	1:H:567:VAL:HG11	2.51	0.40
1:I:315:ASN:HD21	1:I:317:LYS:HB2	1.87	0.40
1:I:449:MET:HB2	1:I:615:ASN:OD1	2.22	0.40
1:I:547:ASN:O	1:I:550:ASP:N	2.54	0.40
1:I:548:ASN:HA	1:I:551:TYR:HB3	2.03	0.40
1:J:338:ILE:HG23	1:J:380:ILE:HD11	2.04	0.40
1:J:438:TYR:CE2	1:J:572:LYS:HA	2.57	0.40
1:K:63:LYS:O	1:K:66:THR:OG1	2.29	0.40
1:K:151:TYR:CD2	1:K:175:TRP:HB2	2.57	0.40
1:K:540:GLN:C	1:K:546:ILE:HG22	2.41	0.40
1:K:651:ALA:HB3	1:K:661:THR:HG22	2.02	0.40
2:L:156:LYS:HD2	2:L:156:LYS:O	2.21	0.40
2:L:506:ILE:O	2:L:510:GLN:N	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:472:ASP:O	2:M:476:MET:N	2.39	0.40
2:M:531:TYR:O	2:M:534:LYS:HG2	2.22	0.40
2:O:359:PRO:HA	2:O:394:ASN:OD1	2.21	0.40
2:O:508:GLN:HA	2:O:511:TYR:CD1	2.57	0.40
2:O:515:ASN:HA	2:O:524:ASP:C	2.42	0.40
2:O:524:ASP:OD1	2:O:524:ASP:O	2.40	0.40
2:P:72:TYR:O	2:P:76:LYS:HG2	2.22	0.40
2:Q:44:THR:N	2:Q:61:ALA:O	2.54	0.40
2:Q:339:ALA:N	2:Q:465:GLY:O	2.54	0.40
2:Q:364:ASP:OD1	2:Q:365:ARG:N	2.55	0.40
2:R:187:TYR:CE1	2:R:254:ILE:CG2	3.04	0.40
2:S:59:GLY:O	2:S:60:THR:OG1	2.37	0.40
2:S:263:TYR:CG	2:S:268:LYS:HA	2.56	0.40
2:T:4:PHE:O	2:T:7:LEU:HG	2.21	0.40
2:T:147:VAL:HG12	2:T:473:ALA:HA	2.02	0.40
2:T:518:ASN:HB2	2:T:520:ASP:OD1	2.22	0.40
2:T:532:TYR:O	2:T:536:THR:HG23	2.22	0.40
2:U:358:ILE:HD12	2:U:358:ILE:H	1.86	0.40
2:V:17:SER:HB3	2:V:586:TYR:HB2	2.02	0.40
2:V:42:VAL:HG12	2:V:43:GLN:N	2.36	0.40
2:V:375:VAL:HG22	2:V:386:THR:HG23	2.04	0.40
2:V:378:ASP:O	2:V:380:LYS:N	2.54	0.40
3:W:321:LEU:O	3:W:325:THR:OG1	2.18	0.40
3:Y:101:MET:O	3:Y:293:ASN:OD1	2.40	0.40
3:Y:107:GLN:HB3	3:Y:260:GLU:HB3	2.04	0.40
3:Y:351:LEU:O	3:Y:354:LEU:HG	2.22	0.40
3:Y:364:THR:HG22	3:Y:365:GLU:H	1.87	0.40
3:Y:602:ILE:HA	3:Y:605:ARG:NH1	2.36	0.40
1:A:420:ASN:CB	1:A:425:TYR:HE2	2.35	0.40
1:A:424:VAL:CG2	1:A:577:VAL:HB	2.51	0.40
1:A:461:LEU:CD1	1:A:463:VAL:CG2	3.00	0.40
1:A:502:ASN:OD1	1:A:510:VAL:HG21	2.21	0.40
1:B:25:GLN:HA	1:B:28:GLN:HG2	2.04	0.40
1:B:138:SER:HG	1:B:154:ASP:CG	2.20	0.40
1:C:445:LEU:HB3	1:C:454:LEU:HD13	2.03	0.40
1:C:571:TYR:OH	1:C:574:ARG:NH2	2.54	0.40
1:D:113:GLU:HG3	1:D:116:ARG:NH2	2.35	0.40
1:D:605:THR:OG1	1:D:606:THR:N	2.54	0.40
1:E:53:GLU:OE1	2:L:114:GLU:OE1	2.40	0.40
1:E:135:PHE:HZ	1:E:177:LEU:HB2	1.86	0.40
1:E:508:SER:HB3	1:E:551:TYR:HD1	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:35:LYS:NZ	1:G:714:ASP:O	2.47	0.40
1:G:145:PHE:CZ	1:G:178:PHE:CD2	3.09	0.40
1:G:199:ARG:HD2	1:G:234:ALA:O	2.22	0.40
1:G:227:VAL:HG23	1:G:230:ASN:N	2.36	0.40
1:G:422:ASN:HB2	1:G:579:ASP:HB3	2.04	0.40
1:H:86:LEU:HD12	1:H:117:ILE:HG23	2.04	0.40
1:H:125:ALA:O	1:H:135:PHE:HD2	2.04	0.40
1:H:700:PHE:HA	1:H:703:VAL:HB	2.04	0.40
1:I:7:LEU:HG	2:P:561:TYR:CE2	2.57	0.40
1:I:21:SER:O	1:I:24:TYR:HB3	2.22	0.40
1:J:7:LEU:HD23	1:J:7:LEU:O	2.22	0.40
1:J:57:LYS:HA	1:J:57:LYS:HE2	2.03	0.40
1:J:117:ILE:O	1:J:121:ILE:HG13	2.21	0.40
1:J:265:LYS:O	1:J:610:VAL:HA	2.21	0.40
1:K:315:ASN:HA	1:K:436:ASN:HD22	1.87	0.40
1:K:413:ASP:OD2	1:K:596:SER:OG	2.35	0.40
1:K:636:ASP:OD2	1:K:669:ARG:NE	2.54	0.40
1:K:736:LYS:O	1:K:740:THR:HG23	2.22	0.40
2:L:419:ASP:HB2	2:L:422:ASP:OD2	2.22	0.40
2:M:111:GLN:O	2:M:114:GLU:N	2.55	0.40
2:M:200:LEU:O	2:M:203:ARG:HB3	2.21	0.40
2:M:304:TYR:CE1	2:M:306:LYS:HA	2.56	0.40
2:M:359:PRO:HB2	2:M:362:ASN:ND2	2.36	0.40
2:N:179:ILE:HG12	2:N:207:LEU:HD22	2.03	0.40
2:N:398:ASN:O	2:N:401:MET:HB2	2.21	0.40
2:N:584:SER:HA	2:S:606:LEU:HD11	2.04	0.40
2:O:128:ASN:ND2	2:O:497:ASP:O	2.54	0.40
2:O:241:TYR:CG	2:O:242:ASN:N	2.89	0.40
2:O:399:ASP:HA	2:O:402:ARG:HD2	2.02	0.40
2:P:2:GLY:N	2:P:5:GLY:HA3	2.37	0.40
2:P:360:LEU:HD11	2:P:395:THR:O	2.22	0.40
2:P:398:ASN:O	2:P:402:ARG:NE	2.52	0.40
2:Q:95:GLN:OE1	2:Q:95:GLN:HA	2.22	0.40
2:Q:168:THR:HG22	2:Q:172:ILE:HD13	2.03	0.40
2:Q:402:ARG:O	2:Q:405:ASN:OD1	2.39	0.40
2:R:62:VAL:HG12	2:R:63:GLU:N	2.37	0.40
2:R:274:TYR:CG	2:R:275:GLU:N	2.90	0.40
2:S:92:SER:O	2:S:96:GLU:HB2	2.21	0.40
2:S:96:GLU:O	2:S:100:ARG:HG2	2.22	0.40
2:S:327:ALA:C	2:S:476:MET:HE1	2.42	0.40
2:S:359:PRO:HB2	2:S:362:ASN:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:384:LYS:O	2:S:385:LEU:HG	2.21	0.40
2:S:500:ASN:O	2:S:501:ASP:C	2.59	0.40
2:T:62:VAL:HG12	2:T:63:GLU:N	2.36	0.40
2:T:532:TYR:CZ	2:T:536:THR:HG21	2.56	0.40
2:U:99:GLN:O	2:U:100:ARG:C	2.60	0.40
2:U:597:ASP:HA	2:U:600:LEU:HG	2.03	0.40
2:V:184:LYS:CG	2:V:254:ILE:HB	2.51	0.40
2:V:212:SER:HB2	2:V:217:ALA:HB2	2.02	0.40
2:V:593:VAL:O	2:V:596:VAL:HG12	2.22	0.40
3:W:23:LYS:O	3:W:26:GLU:HG3	2.22	0.40
3:W:598:THR:O	3:W:601:MET:HG3	2.22	0.40
3:X:135:ASP:O	3:X:218:ALA:CB	2.70	0.40
3:X:143:LYS:HA	3:X:143:LYS:HE2	2.03	0.40
3:X:458:THR:HG22	3:X:467:ASP:HA	2.04	0.40
3:Y:193:THR:O	3:Y:271:SER:HB2	2.21	0.40
3:Y:314:TYR:CZ	3:Y:318:VAL:HG21	2.56	0.40
3:Z:201:PHE:HD2	3:Z:229:LEU:CD2	2.35	0.40
3:Z:532:ILE:HB	3:Z:547:VAL:HG12	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	742/750 (99%)	687 (93%)	54 (7%)	1 (0%)	48 83
1	B	748/750 (100%)	674 (90%)	71 (10%)	3 (0%)	30 68
1	C	748/750 (100%)	681 (91%)	65 (9%)	2 (0%)	37 73
1	D	748/750 (100%)	690 (92%)	55 (7%)	3 (0%)	30 68
1	E	748/750 (100%)	703 (94%)	44 (6%)	1 (0%)	48 83
1	F	748/750 (100%)	675 (90%)	72 (10%)	1 (0%)	48 83

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	G	748/750 (100%)	684 (91%)	64 (9%)	0	100	100
1	H	748/750 (100%)	672 (90%)	70 (9%)	6 (1%)	16	55
1	I	748/750 (100%)	680 (91%)	65 (9%)	3 (0%)	30	68
1	J	748/750 (100%)	687 (92%)	61 (8%)	0	100	100
1	K	748/750 (100%)	669 (89%)	74 (10%)	5 (1%)	19	57
2	L	606/608 (100%)	529 (87%)	77 (13%)	0	100	100
2	M	606/608 (100%)	525 (87%)	78 (13%)	3 (0%)	25	64
2	N	606/608 (100%)	526 (87%)	76 (12%)	4 (1%)	19	57
2	O	606/608 (100%)	531 (88%)	66 (11%)	9 (2%)	8	40
2	P	606/608 (100%)	543 (90%)	60 (10%)	3 (0%)	25	64
2	Q	606/608 (100%)	543 (90%)	61 (10%)	2 (0%)	37	73
2	R	606/608 (100%)	542 (89%)	63 (10%)	1 (0%)	44	78
2	S	606/608 (100%)	540 (89%)	61 (10%)	5 (1%)	16	55
2	T	606/608 (100%)	539 (89%)	59 (10%)	8 (1%)	10	43
2	U	606/608 (100%)	553 (91%)	44 (7%)	9 (2%)	8	40
2	V	606/608 (100%)	533 (88%)	68 (11%)	5 (1%)	16	55
3	W	634/642 (99%)	572 (90%)	61 (10%)	1 (0%)	44	78
3	X	633/642 (99%)	569 (90%)	62 (10%)	2 (0%)	37	73
3	Y	627/642 (98%)	565 (90%)	58 (9%)	4 (1%)	22	60
3	Z	628/642 (98%)	584 (93%)	40 (6%)	4 (1%)	22	60
3	a	630/642 (98%)	568 (90%)	60 (10%)	2 (0%)	37	73
All	All	18040/18148 (99%)	16264 (90%)	1689 (9%)	87 (0%)	27	64

All (87) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	H	452	ASP
1	H	510	VAL
1	K	247	PHE
1	K	502	ASN
2	M	193	PRO
2	M	258	PRO
2	N	229	ARG
2	O	415	ASN
2	O	570	VAL

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Mol	Chain	Res	Type
2	P	570	VAL
2	Q	106	ASN
2	R	568	SER
2	T	215	VAL
2	T	409	ASP
2	U	407	ASN
2	V	108	GLY
3	X	525	ASP
3	Y	107	GLN
3	Y	378	LEU
3	Z	299	ASP
1	C	187	LYS
1	E	493	THR
1	H	633	ILE
1	I	633	ILE
1	K	6	LYS
1	K	382	ASN
2	M	518	ASN
2	N	102	PRO
2	N	222	ASN
2	N	281	VAL
2	O	55	GLN
2	O	238	GLY
2	S	106	ASN
2	S	570	VAL
2	T	108	GLY
2	T	264	ASP
2	T	570	VAL
2	U	224	ILE
2	V	105	GLN
2	V	570	VAL
3	Y	359	VAL
3	Z	129	GLN
3	Z	374	THR
1	A	502	ASN
1	B	633	ILE
1	F	663	MET
1	H	503	PRO
2	T	416	SER
2	T	418	ASP
2	U	385	LEU
2	U	570	VAL

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Mol	Chain	Res	Type
2	V	107	THR
2	V	418	ASP
3	Y	377	MET
3	Z	280	VAL
1	H	501	THR
1	I	318	LEU
1	K	368	ASP
2	O	445	SER
2	P	35	PHE
2	S	108	GLY
2	U	264	ASP
2	U	268	LYS
2	U	410	ASP
3	a	198	ALA
3	a	253	ILE
1	D	6	LYS
1	D	502	ASN
1	D	614	PRO
2	S	104	LEU
2	S	256	PHE
2	U	223	GLU
3	X	415	PHE
1	C	209	THR
1	H	605	THR
2	O	237	PRO
2	O	416	SER
2	P	237	PRO
2	Q	563	GLU
2	T	107	THR
2	U	416	SER
1	B	634	ILE
2	O	53	GLY
1	I	487	PRO
2	O	56	VAL
1	B	369	ILE
3	W	87	PRO

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	647/654 (99%)	643 (99%)	4 (1%)	84	88
1	B	653/654 (100%)	648 (99%)	5 (1%)	79	85
1	C	653/654 (100%)	650 (100%)	3 (0%)	86	89
1	D	653/654 (100%)	647 (99%)	6 (1%)	75	83
1	E	653/654 (100%)	649 (99%)	4 (1%)	84	88
1	F	653/654 (100%)	650 (100%)	3 (0%)	86	89
1	G	653/654 (100%)	651 (100%)	2 (0%)	91	92
1	H	653/654 (100%)	650 (100%)	3 (0%)	86	89
1	I	653/654 (100%)	645 (99%)	8 (1%)	67	79
1	J	653/654 (100%)	649 (99%)	4 (1%)	84	88
1	K	653/654 (100%)	650 (100%)	3 (0%)	86	89
2	L	524/524 (100%)	521 (99%)	3 (1%)	84	88
2	M	524/524 (100%)	520 (99%)	4 (1%)	79	85
2	N	524/524 (100%)	516 (98%)	8 (2%)	60	75
2	O	524/524 (100%)	519 (99%)	5 (1%)	73	82
2	P	524/524 (100%)	515 (98%)	9 (2%)	56	72
2	Q	524/524 (100%)	521 (99%)	3 (1%)	84	88
2	R	524/524 (100%)	518 (99%)	6 (1%)	70	80
2	S	524/524 (100%)	518 (99%)	6 (1%)	70	80
2	T	524/524 (100%)	517 (99%)	7 (1%)	65	77
2	U	524/524 (100%)	512 (98%)	12 (2%)	45	64
2	V	524/524 (100%)	516 (98%)	8 (2%)	60	75
3	W	548/552 (99%)	544 (99%)	4 (1%)	81	87
3	X	547/552 (99%)	544 (100%)	3 (0%)	86	89
3	Y	543/552 (98%)	539 (99%)	4 (1%)	81	87
3	Z	544/552 (99%)	543 (100%)	1 (0%)	92	94
3	a	544/552 (99%)	542 (100%)	2 (0%)	89	91
All	All	15667/15718 (100%)	15537 (99%)	130 (1%)	77	85

All (130) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	LEU
1	A	9	PHE
1	A	143	LYS
1	A	493	THR
1	B	143	LYS
1	B	466	LYS
1	B	628	GLU
1	B	633	ILE
1	B	709	LYS
1	C	186	LYS
1	C	489	ASN
1	C	492	GLN
1	D	3	ILE
1	D	4	THR
1	D	63	LYS
1	D	143	LYS
1	D	492	GLN
1	D	637	LEU
1	E	6	LYS
1	E	631	VAL
1	E	633	ILE
1	E	635	LYS
1	F	200	TRP
1	F	489	ASN
1	F	661	THR
1	G	210	LYS
1	G	748	ASN
1	H	373	ASN
1	H	572	LYS
1	H	635	LYS
1	I	166	THR
1	I	167	GLU
1	I	170	TYR
1	I	171	ASN
1	I	318	LEU
1	I	553	GLN
1	I	632	ASP
1	I	670	LEU
1	J	166	THR
1	J	489	ASN
1	J	492	GLN
1	J	494	ILE
1	K	379	THR

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Mol	Chain	Res	Type
1	K	390	LYS
1	K	492	GLN
2	L	160	LYS
2	L	284	LEU
2	L	573	ASN
2	M	355	LYS
2	M	383	LYS
2	M	433	LYS
2	M	591	LYS
2	N	192	LEU
2	N	241	TYR
2	N	276	THR
2	N	287	LYS
2	N	317	GLN
2	N	402	ARG
2	N	598	GLN
2	N	601	ASP
2	O	48	TYR
2	O	49	ILE
2	O	54	VAL
2	O	276	THR
2	O	415	ASN
2	P	50	THR
2	P	51	THR
2	P	106	ASN
2	P	116	TYR
2	P	241	TYR
2	P	310	LYS
2	P	377	TYR
2	P	598	GLN
2	P	606	LEU
2	Q	384	LYS
2	Q	572	THR
2	Q	574	GLU
2	R	107	THR
2	R	355	LYS
2	R	384	LYS
2	R	402	ARG
2	R	538	LYS
2	R	566	SER
2	S	231	ASP
2	S	343	LYS

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Mol	Chain	Res	Type
2	S	383	LYS
2	S	384	LYS
2	S	385	LEU
2	S	553	ASN
2	T	88	LYS
2	T	194	THR
2	T	196	HIS
2	T	229	ARG
2	T	413	ASN
2	T	598	GLN
2	T	599	MET
2	U	192	LEU
2	U	194	THR
2	U	195	GLU
2	U	229	ARG
2	U	263	TYR
2	U	384	LYS
2	U	385	LEU
2	U	407	ASN
2	U	415	ASN
2	U	416	SER
2	U	420	VAL
2	U	607	LYS
2	V	104	LEU
2	V	128	ASN
2	V	245	ILE
2	V	246	GLU
2	V	380	LYS
2	V	417	ASN
2	V	600	LEU
2	V	606	LEU
3	W	9	LEU
3	W	47	GLN
3	W	288	LYS
3	W	622	LYS
3	X	205	LYS
3	X	220	LYS
3	X	562	LYS
3	Y	377	MET
3	Y	379	SER
3	Y	380	MET
3	Y	405	LYS

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Mol	Chain	Res	Type
3	Z	54	LYS
3	a	151	LYS
3	a	506	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (169) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	8	ASN
1	A	14	ASN
1	A	28	GLN
1	A	307	GLN
1	A	704	ASN
1	B	5	ASN
1	B	305	GLN
1	B	307	GLN
1	B	374	ASN
1	B	430	GLN
1	B	436	ASN
1	B	492	GLN
1	B	553	GLN
1	B	630	ASN
1	B	648	ASN
1	B	660	ASN
1	B	676	HIS
1	B	681	ASN
1	C	20	GLN
1	C	61	GLN
1	C	81	GLN
1	C	156	ASN
1	C	313	GLN
1	C	488	ASN
1	C	489	ASN
1	C	681	ASN
1	D	5	ASN
1	D	74	GLN
1	D	132	GLN
1	D	142	ASN
1	D	219	GLN
1	D	307	GLN
1	D	328	GLN
1	D	382	ASN
1	D	420	ASN

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Mol	Chain	Res	Type
1	D	488	ASN
1	D	492	GLN
1	D	555	GLN
1	E	11	ASN
1	E	70	GLN
1	E	282	ASN
1	E	430	GLN
1	E	492	GLN
1	E	681	ASN
1	F	123	GLN
1	F	130	ASN
1	F	132	GLN
1	F	230	ASN
1	F	384	GLN
1	F	391	GLN
1	F	464	ASN
1	F	488	ASN
1	F	672	HIS
1	G	344	GLN
1	G	374	ASN
1	G	488	ASN
1	G	502	ASN
1	G	555	GLN
1	G	615	ASN
1	H	37	GLN
1	H	61	GLN
1	H	282	ASN
1	H	328	GLN
1	H	502	ASN
1	H	556	GLN
1	H	732	GLN
1	I	159	ASN
1	I	316	ASN
1	I	630	ASN
1	J	28	GLN
1	J	139	GLN
1	J	171	ASN
1	J	203	ASN
1	J	255	GLN
1	J	500	HIS
1	K	383	GLN
1	K	476	ASN

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Mol	Chain	Res	Type
1	K	523	ASN
1	K	540	GLN
2	L	69	HIS
2	L	95	GLN
2	L	189	GLN
2	L	398	ASN
2	L	508	GLN
2	M	32	ASN
2	M	141	GLN
2	M	362	ASN
2	M	398	ASN
2	M	565	GLN
2	M	571	ASN
2	N	95	GLN
2	N	105	GLN
2	N	111	GLN
2	N	117	ASN
2	N	126	ASN
2	N	158	GLN
2	N	162	ASN
2	N	183	ASN
2	N	255	ASN
2	N	553	ASN
2	O	83	GLN
2	O	239	HIS
2	O	240	GLN
2	O	415	ASN
2	O	442	ASN
2	P	106	ASN
2	P	117	ASN
2	P	196	HIS
2	P	413	ASN
2	P	457	ASN
2	P	550	ASN
2	P	553	ASN
2	P	598	GLN
2	Q	106	ASN
2	Q	111	GLN
2	Q	158	GLN
2	Q	222	ASN
2	Q	546	ASN
2	Q	581	GLN

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Mol	Chain	Res	Type
2	R	69	HIS
2	R	183	ASN
2	R	196	HIS
2	R	484	ASN
2	S	99	GLN
2	S	105	GLN
2	S	121	ASN
2	S	198	ASN
2	S	368	GLN
2	S	394	ASN
2	S	403	GLN
2	T	30	ASN
2	T	95	GLN
2	T	117	ASN
2	T	267	ASN
2	T	292	GLN
2	T	411	ASN
2	T	546	ASN
2	U	95	GLN
2	U	117	ASN
2	U	149	ASN
2	U	196	HIS
2	U	407	ASN
2	U	415	ASN
2	U	417	ASN
2	U	547	ASN
2	V	83	GLN
2	V	126	ASN
2	V	162	ASN
2	V	417	ASN
2	V	546	ASN
3	W	252	HIS
3	X	61	GLN
3	X	297	GLN
3	X	338	GLN
3	X	625	GLN
3	Y	104	ASN
3	Y	107	GLN
3	Y	373	ASN
3	Y	381	GLN
3	Y	417	ASN
3	Y	441	ASN

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Mol	Chain	Res	Type
3	Y	611	ASN
3	Z	217	ASN
3	Z	252	HIS
3	a	252	HIS
3	a	298	GLN
3	a	358	GLN
3	a	426	HIS
3	a	494	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

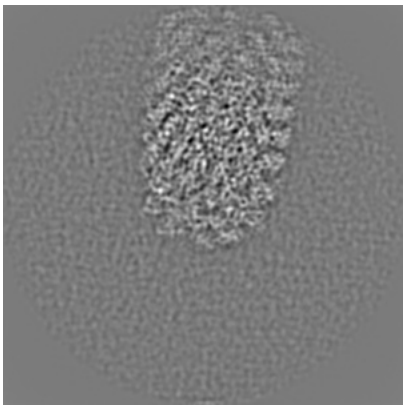
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-51557. These allow visual inspection of the internal detail of the map and identification of artifacts.

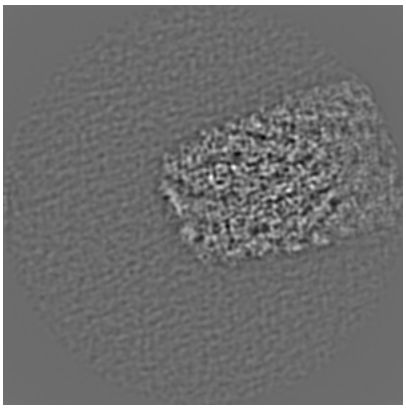
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

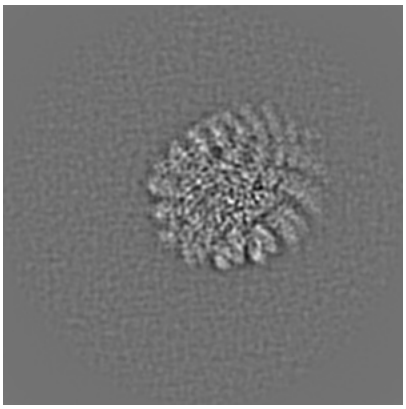
6.1.1 Primary map



X

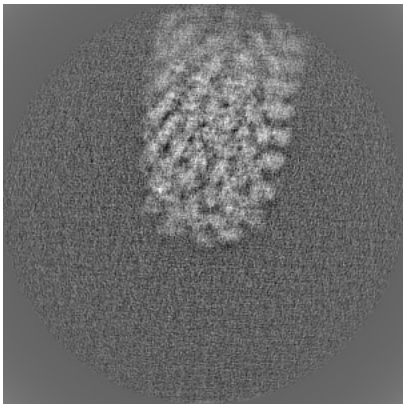


Y

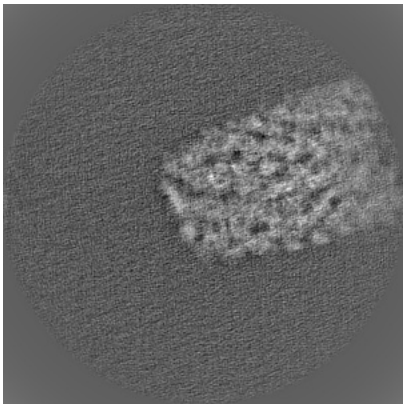


Z

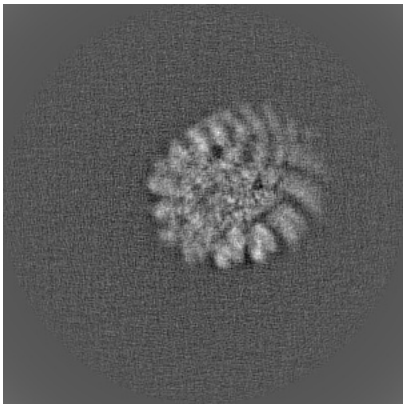
6.1.2 Raw map



X



Y

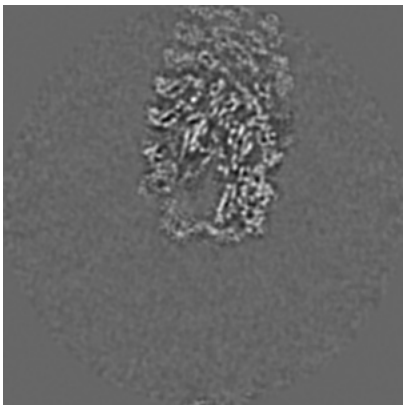


Z

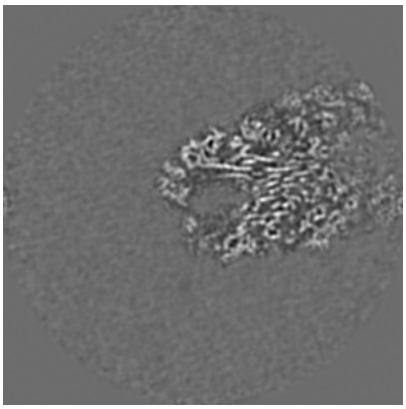
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

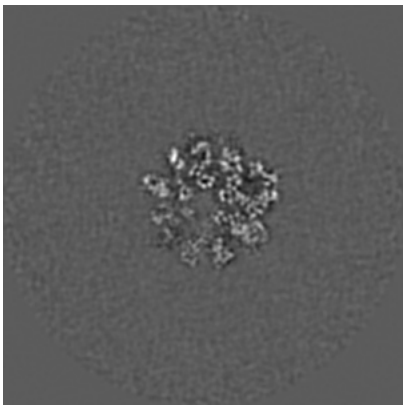
6.2.1 Primary map



X Index: 150

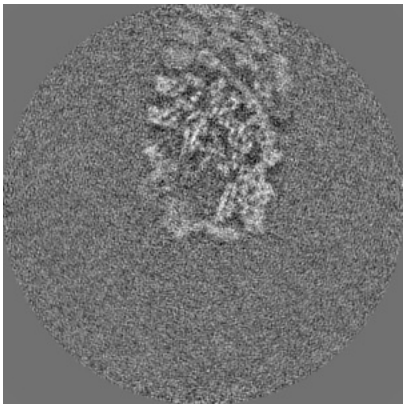


Y Index: 150

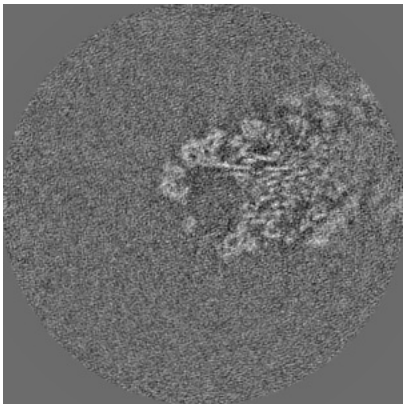


Z Index: 150

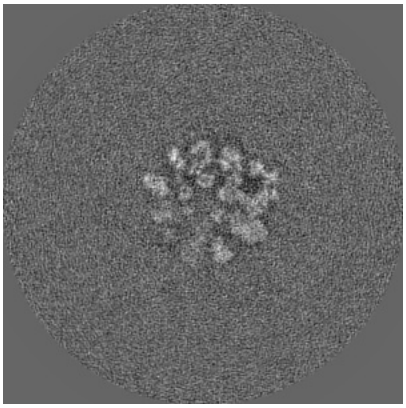
6.2.2 Raw map



X Index: 150



Y Index: 150

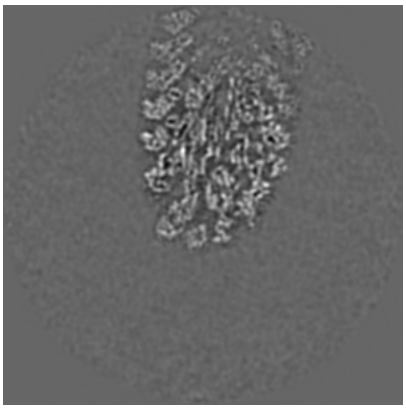


Z Index: 150

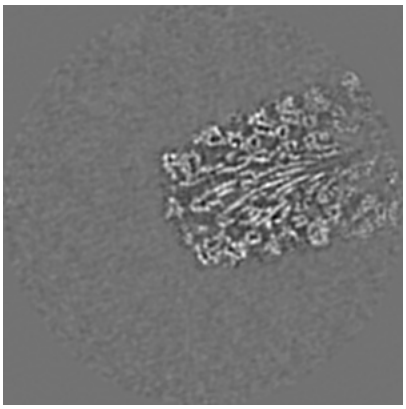
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

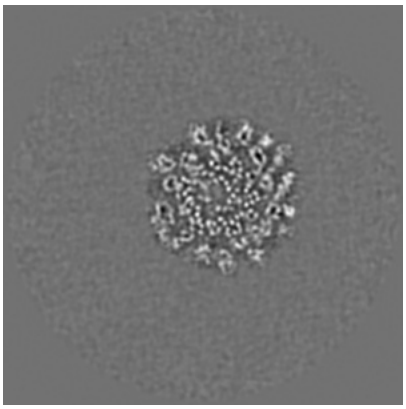
6.3.1 Primary map



X Index: 176

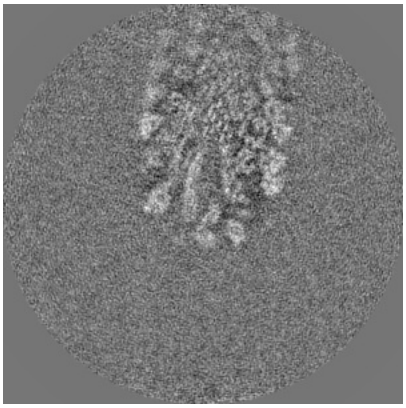


Y Index: 167

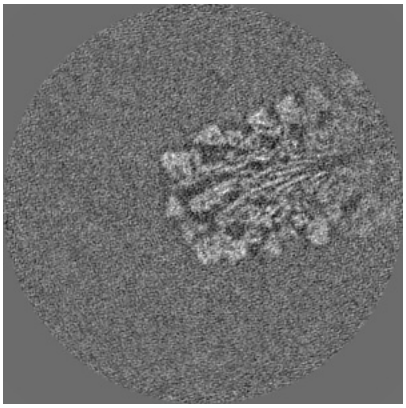


Z Index: 186

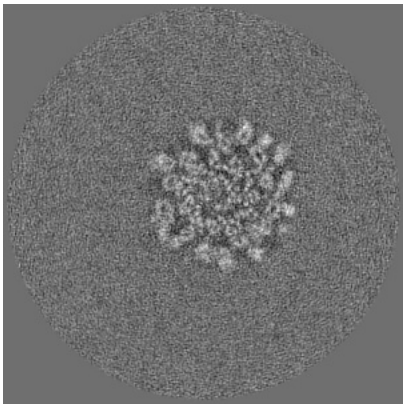
6.3.2 Raw map



X Index: 161



Y Index: 167

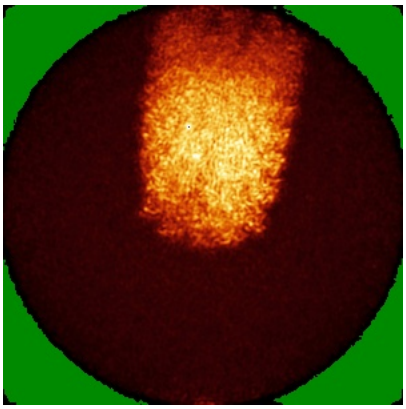


Z Index: 186

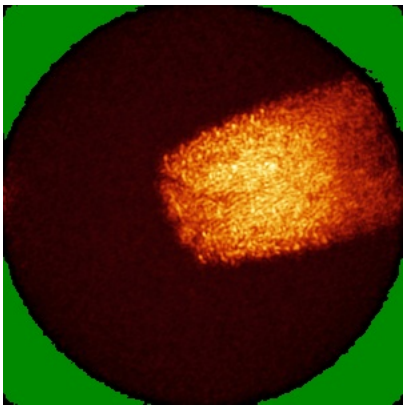
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

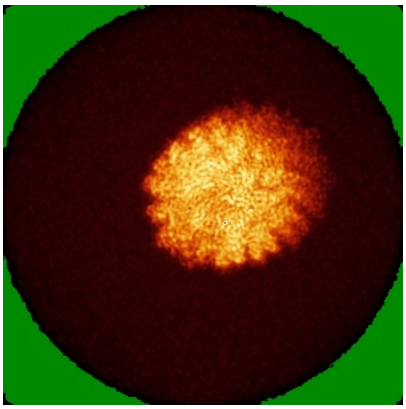
6.4.1 Primary map



X

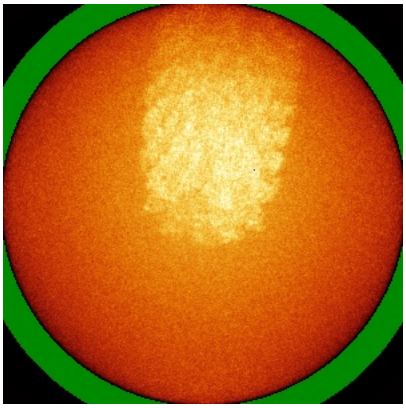


Y

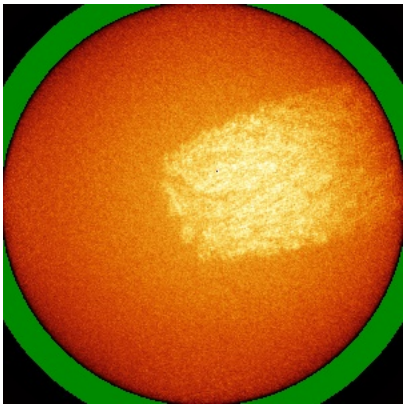


Z

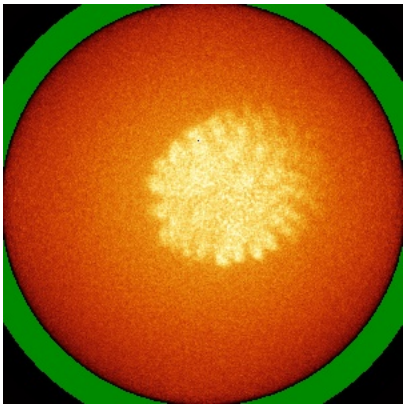
6.4.2 Raw map



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.

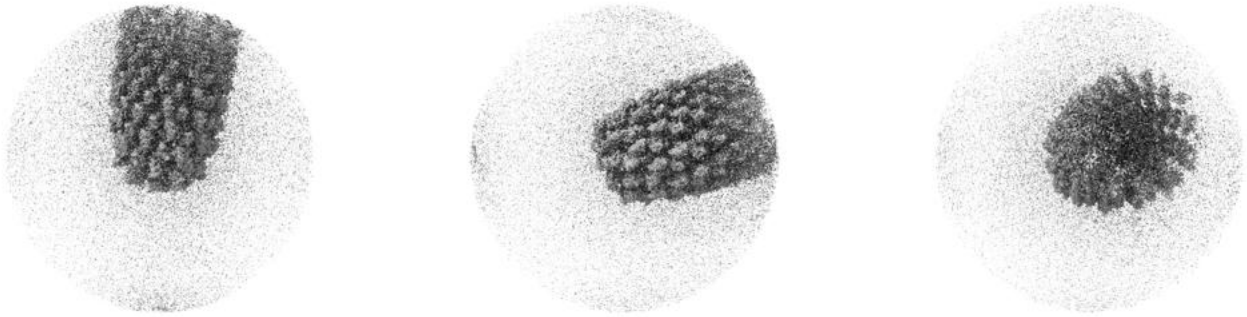
6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.01. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

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

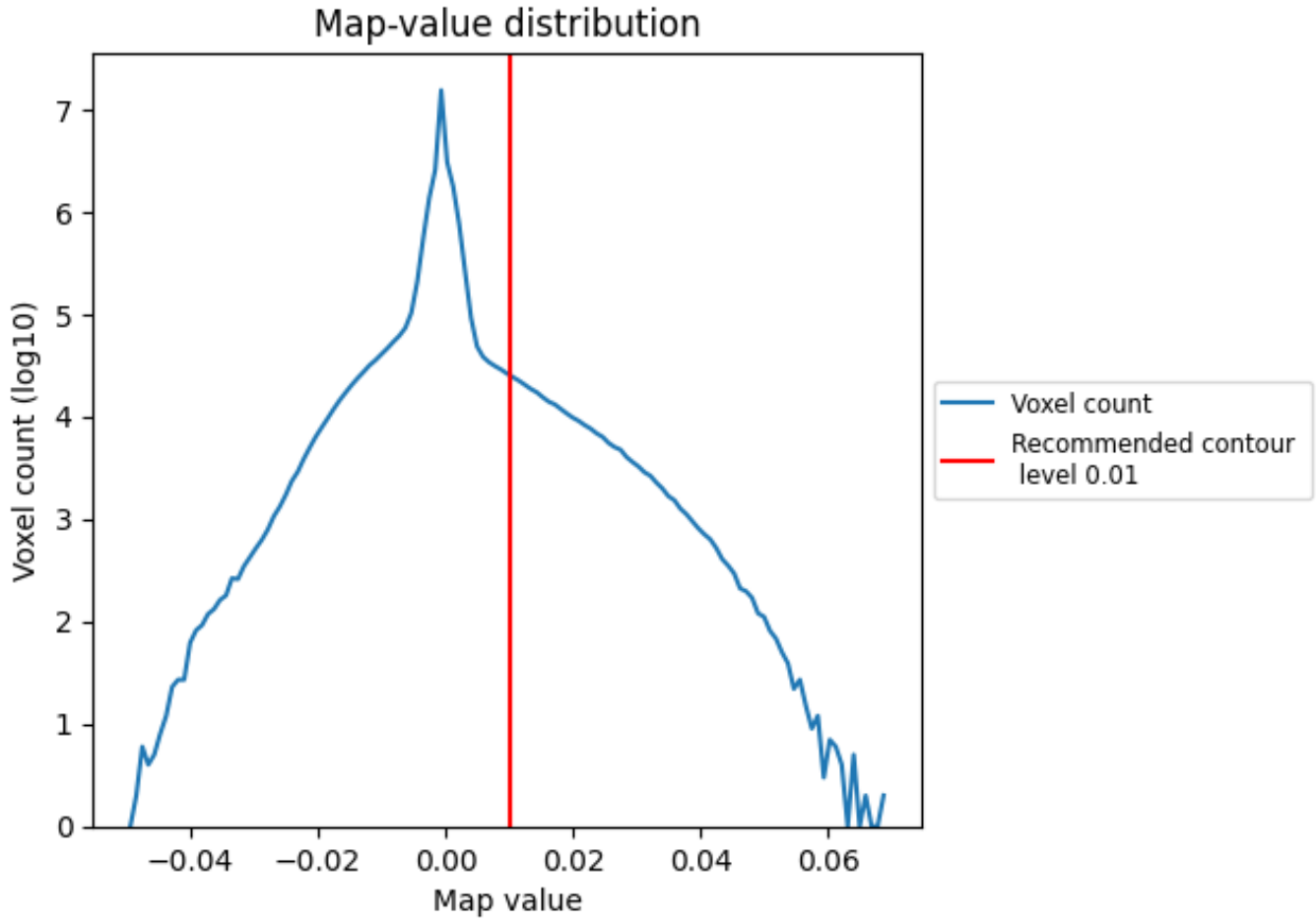
6.6 Mask visualisation (i)

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

7 Map analysis

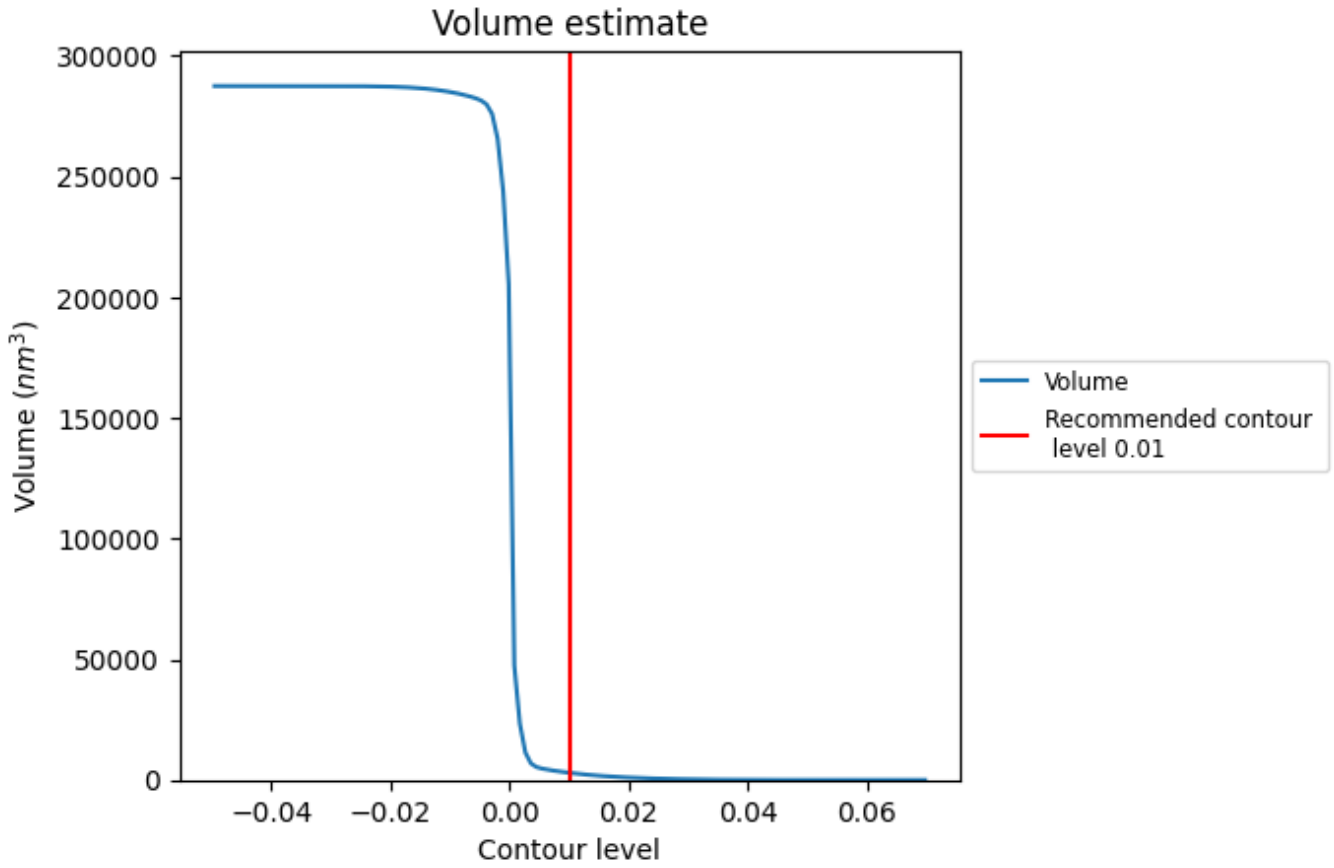
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

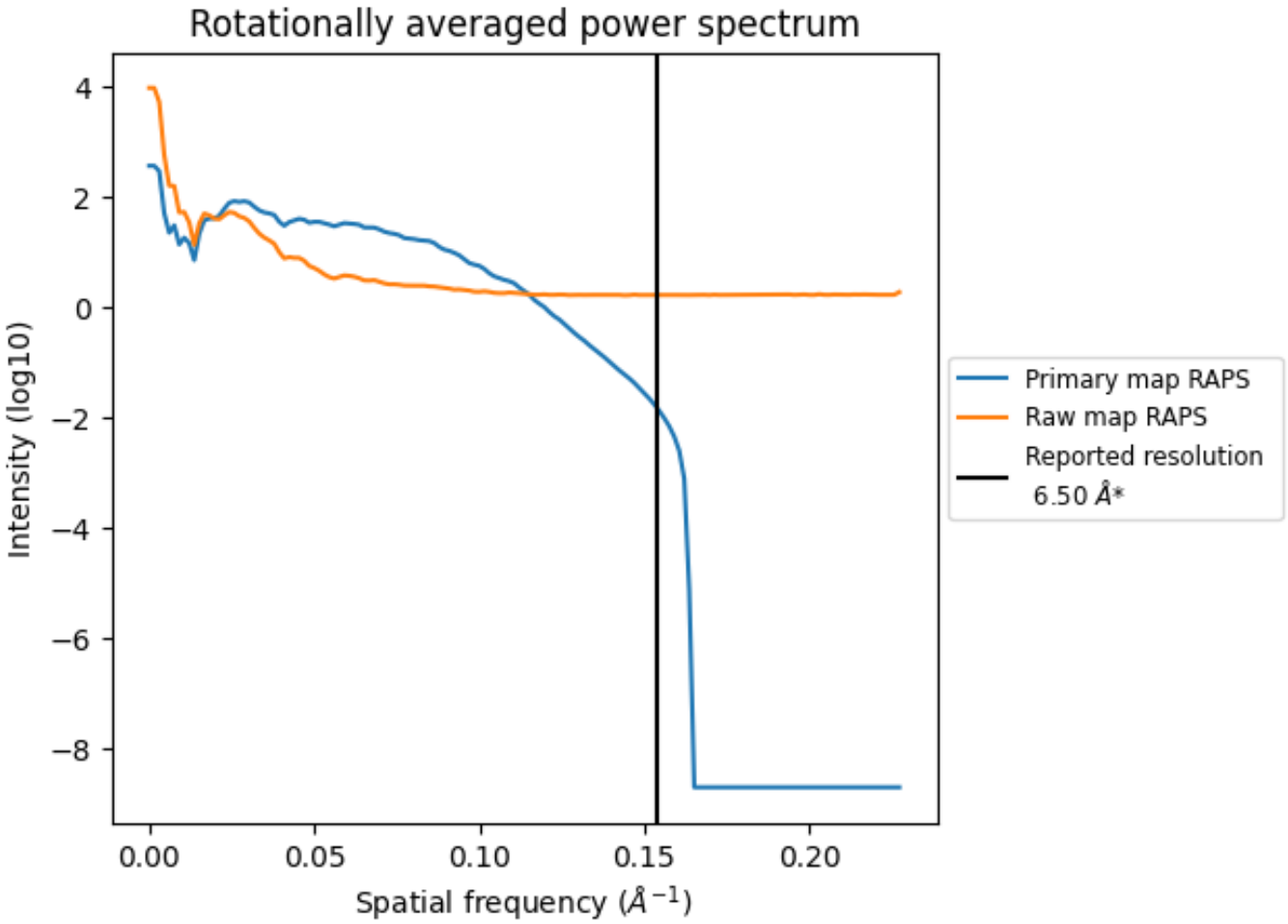
7.2 Volume estimate



The volume at the recommended contour level is 2978 nm^3; this corresponds to an approximate mass of 2690 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)

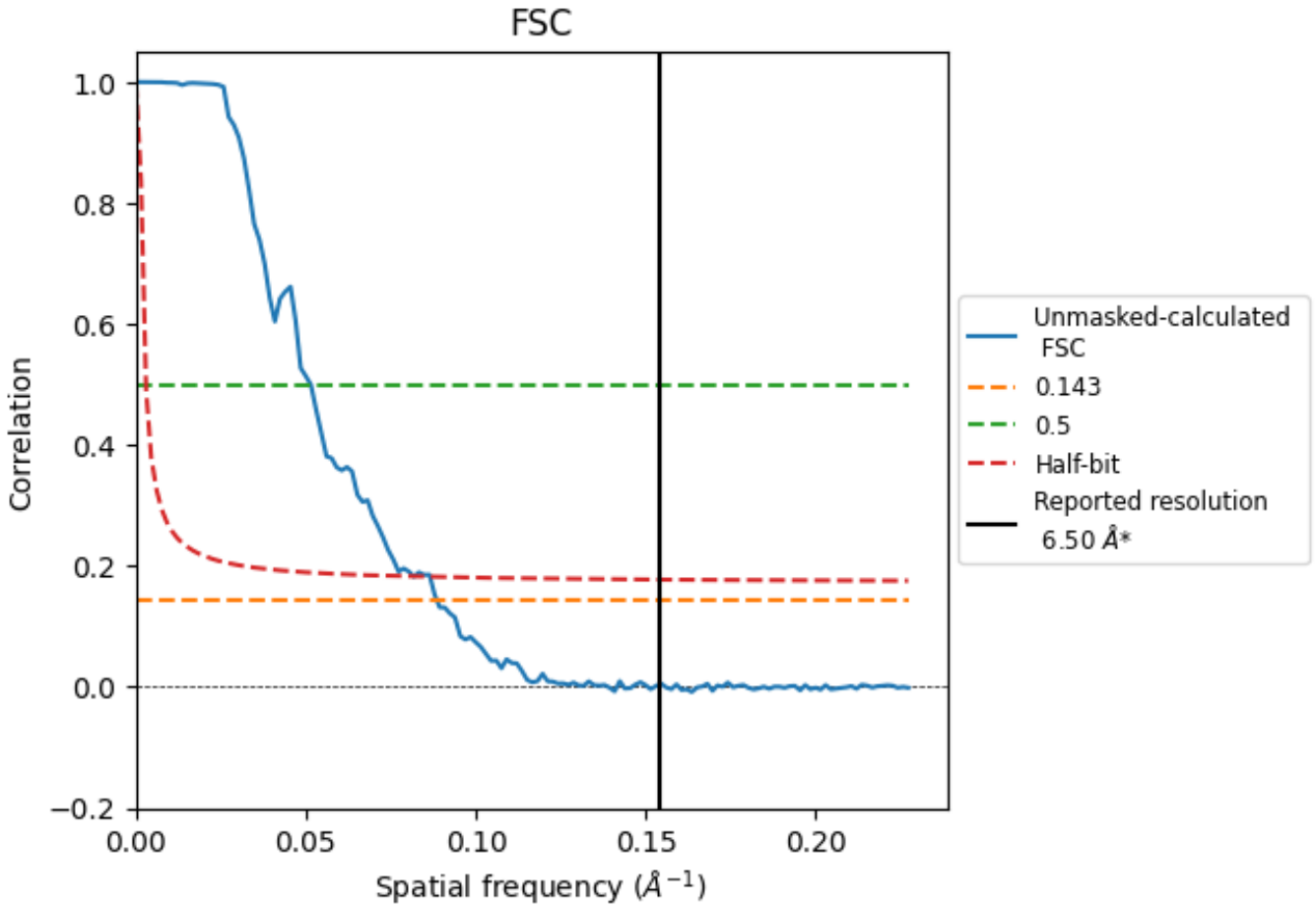


*Reported resolution corresponds to spatial frequency of 0.154 Å^{-1}

8 Fourier-Shell correlation

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



*Reported resolution corresponds to spatial frequency of 0.154 Å^{-1}

8.2 Resolution estimates (i)

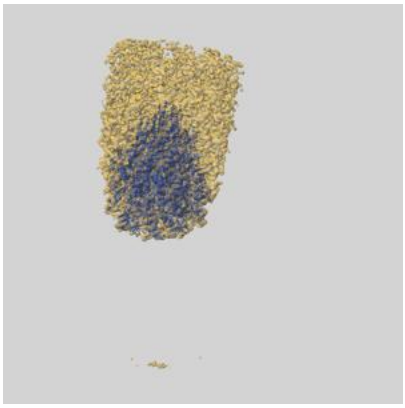
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.50	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	11.29	19.42	12.22

*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 11.29 differs from the reported value 6.5 by more than 10 %

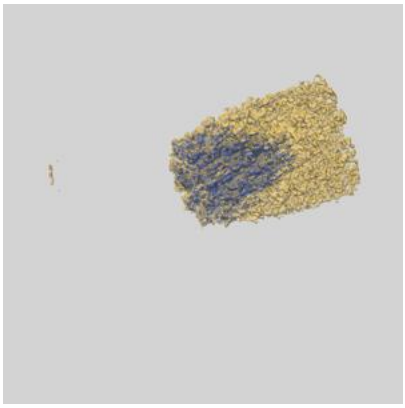
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-51557 and PDB model 9GSX. Per-residue inclusion information can be found in section 3 on page 6.

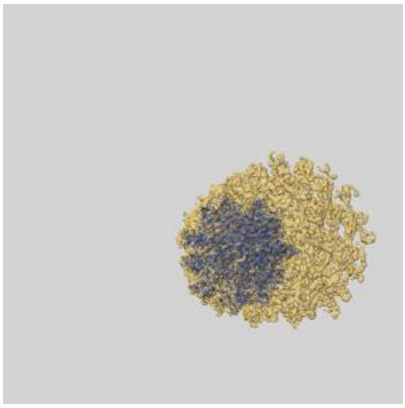
9.1 Map-model overlay



X



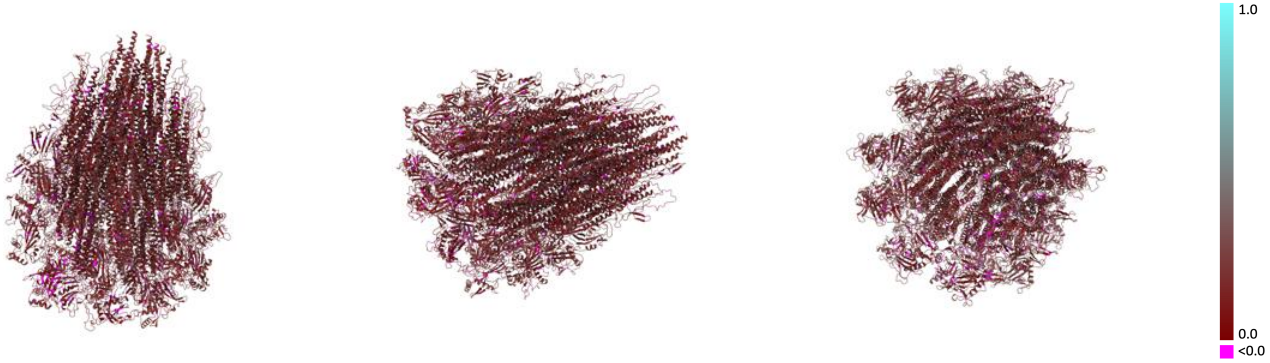
Y



Z

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

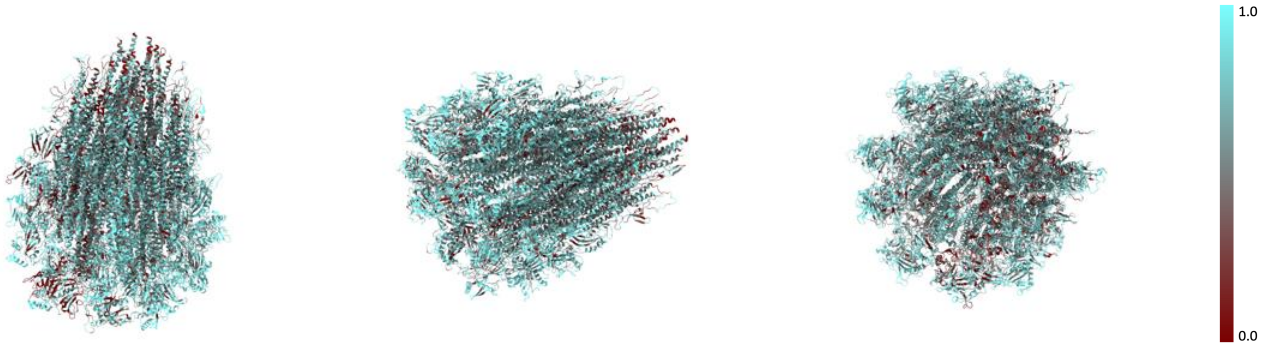
9.2 Q-score mapped to coordinate model



X Y Z

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

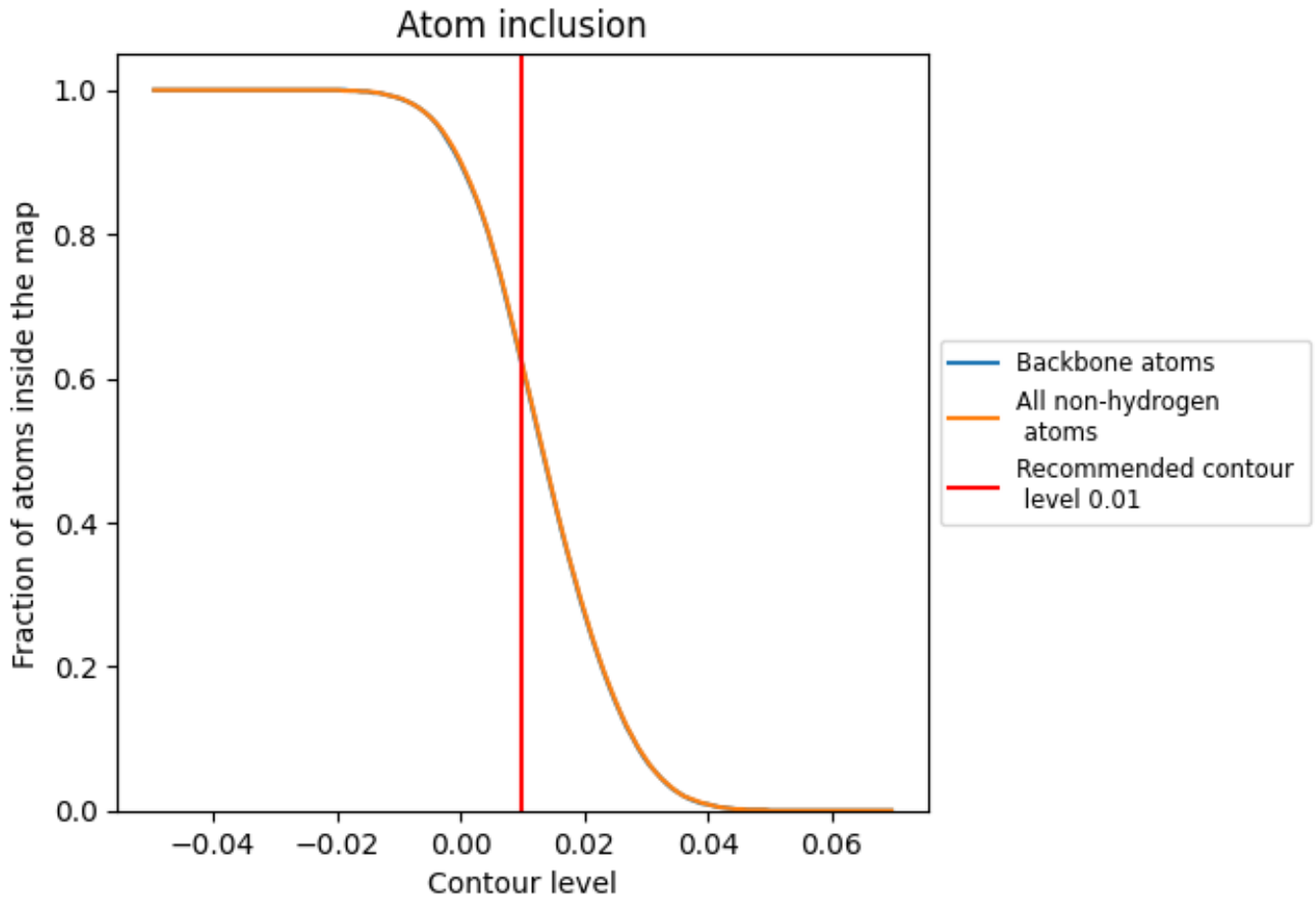
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.01).

9.4 Atom inclusion (i)



At the recommended contour level, 62% of all backbone atoms, 62% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6210	0.1780
A	0.6740	0.1840
B	0.6830	0.1900
C	0.7160	0.1900
D	0.5750	0.1630
E	0.6930	0.1860
F	0.5170	0.1650
G	0.6790	0.1760
H	0.6480	0.1820
I	0.6740	0.1810
J	0.6840	0.1840
K	0.6850	0.1740
L	0.6520	0.1890
M	0.6410	0.1890
N	0.6190	0.1870
O	0.6340	0.1830
P	0.6420	0.1830
Q	0.5910	0.1780
R	0.6300	0.1850
S	0.6530	0.1870
T	0.6150	0.1830
U	0.5870	0.1820
V	0.4870	0.1640
W	0.5830	0.1670
X	0.6970	0.1700
Y	0.6800	0.1770
Z	0.4910	0.1610
a	0.3960	0.1500