



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 08:33 AM UTC

PDB ID : 8V41 / pdb_00008v41
EMDB ID : EMD-42963
Title : CryoEM Structure of Diffocin - postcontracted - Baseplate - transitional state
Authors : Cai, X.Y.; He, Y.; Zhou, Z.H.
Deposited on : 2023-11-28
Resolution : 5.60 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

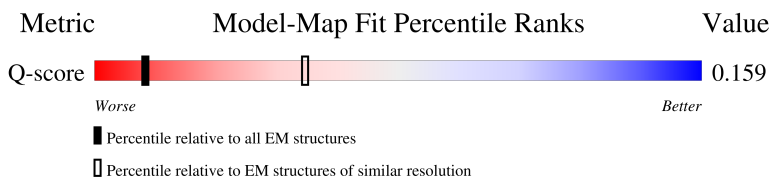
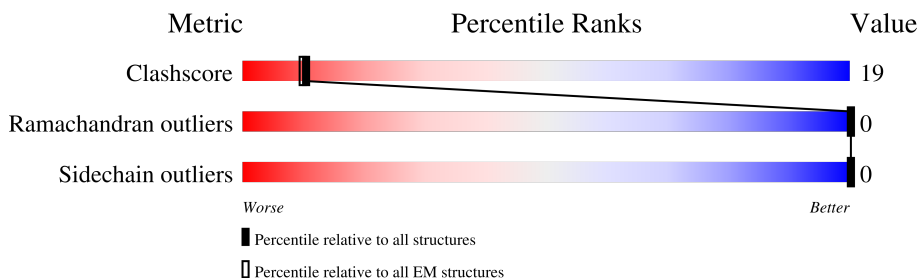
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 5.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	513 (5.10 - 6.10)

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

Mol	Chain	Length	Quality of chain
1	B	350	26% 55% 43%
1	F	350	27% 56% 43%
1	K	350	43% 55% 43%
1	O	350	27% 55% 44%

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Mol	Chain	Length	Quality of chain
1	Q	350	
1	R	350	
1	Z	350	
1	e	350	
1	m	350	
1	n	350	
1	o	350	
1	v	350	
2	C	354	
2	D	354	
2	G	354	
2	H	354	
2	I	354	
2	P	354	
2	S	354	
2	T	354	
2	U	354	
2	V	354	
2	W	354	
2	X	354	
2	a	354	
2	b	354	
2	c	354	
2	f	354	
2	g	354	

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Mol	Chain	Length	Quality of chain
2	h	354	
3	J	142	
3	d	142	
3	i	142	
3	j	142	
3	k	142	
3	l	142	
4	A	232	
4	E	232	
4	L	232	
4	M	232	
4	N	232	
4	Y	232	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 95286 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called TRI-2 (CD1371).

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	v	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	O	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	m	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	Q	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	n	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	F	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	K	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	R	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	o	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	Z	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	e	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		

- Molecule 2 is a protein called Sheath (CD1363).

Mol	Chain	Residues	Atoms					AltConf	Trace
2	P	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
2	C	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
2	D	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	f	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
2	S	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
2	V	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
2	g	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
2	T	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
2	W	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
2	I	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
2	G	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
2	H	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
2	h	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
2	U	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
2	X	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
2	c	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
2	a	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
2	b	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		

- Molecule 3 is a protein called Sheath initiator (CD1370).

Mol	Chain	Residues	Atoms					AltConf	Trace
3	j	120	Total	C	N	O	S	0	0
			995	648	157	189	1		
3	i	120	Total	C	N	O	S	0	0
			995	648	157	189	1		
3	k	120	Total	C	N	O	S	0	0
			995	648	157	189	1		
3	J	120	Total	C	N	O	S	0	0
			995	648	157	189	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	l	120	Total	C	N	O	S	0	0
			995	648	157	189	1		
3	d	120	Total	C	N	O	S	0	0
			995	648	157	189	1		

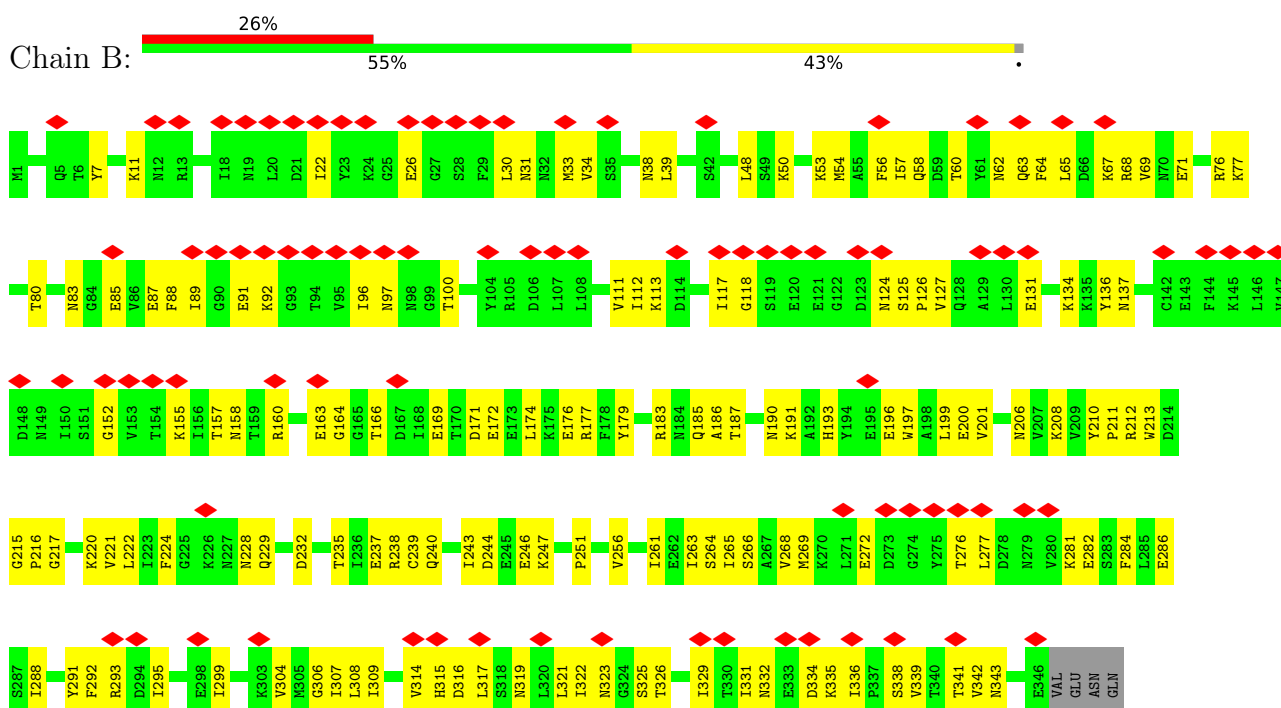
- Molecule 4 is a protein called TRI-1 (CD1372).

Mol	Chain	Residues	Atoms					AltConf	Trace
4	A	148	Total	C	N	O	S	0	0
			1214	774	192	240	8		
4	L	148	Total	C	N	O	S	0	0
			1214	774	192	240	8		
4	M	148	Total	C	N	O	S	0	0
			1214	774	192	240	8		
4	E	148	Total	C	N	O	S	0	0
			1214	774	192	240	8		
4	N	148	Total	C	N	O	S	0	0
			1214	774	192	240	8		
4	Y	148	Total	C	N	O	S	0	0
			1214	774	192	240	8		

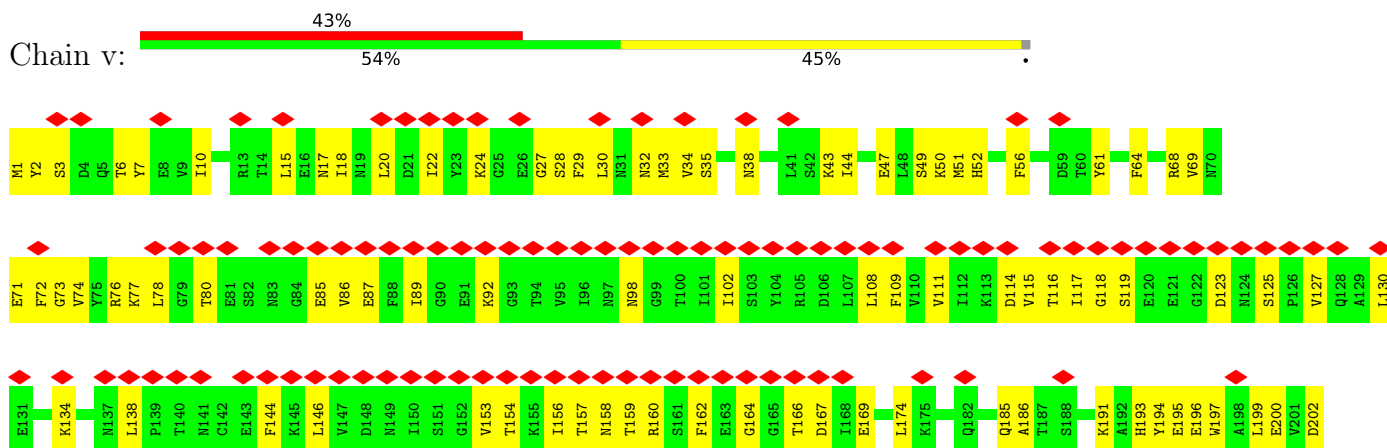
3 Residue-property plots

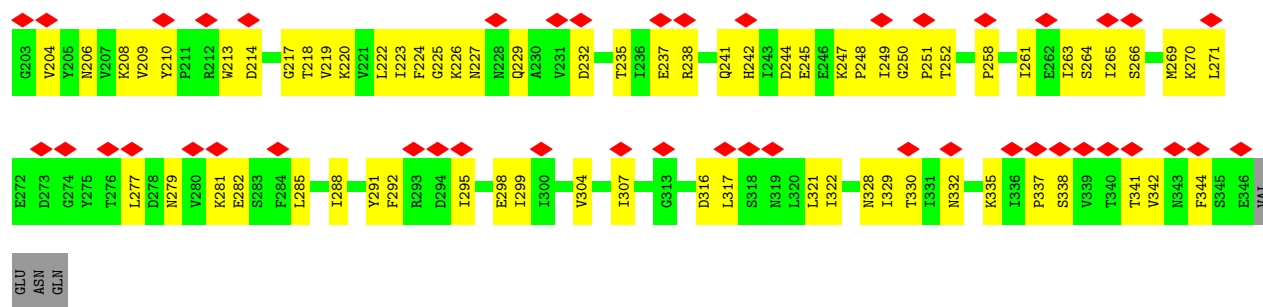
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: TRI-2 (CD1371)

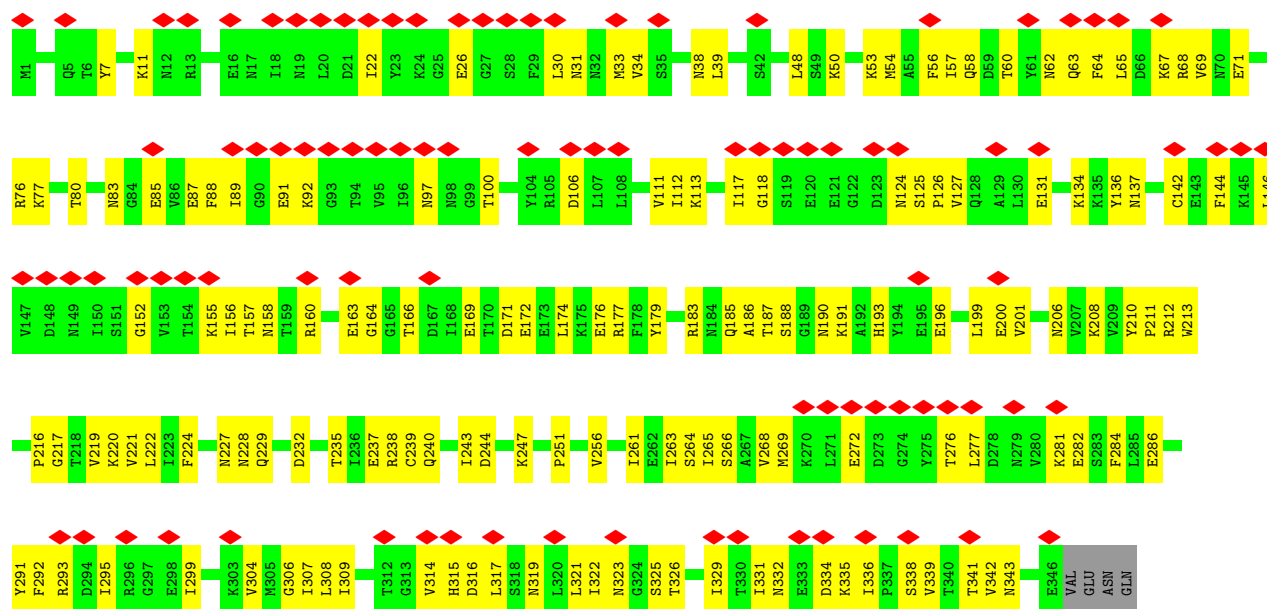


• Molecule 1: TRI-2 (CD1371)

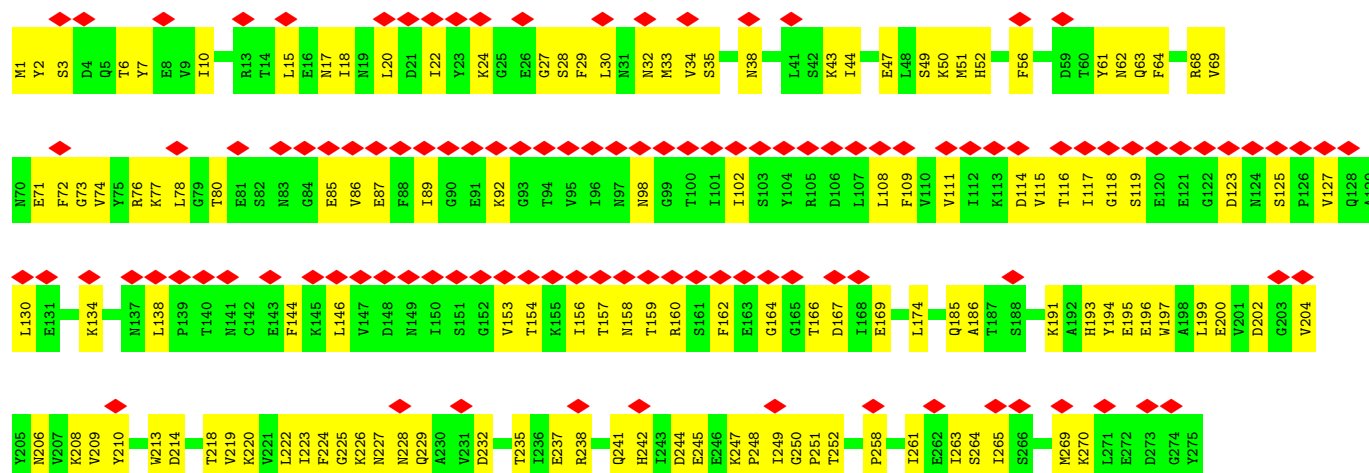
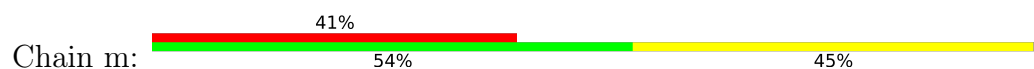


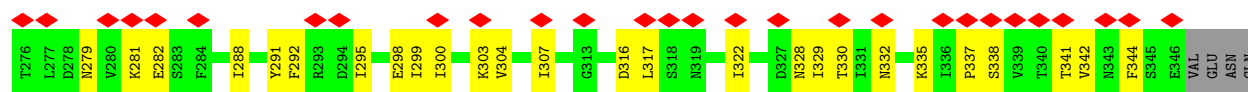


• Molecule 1: TRI-2 (CD1371)

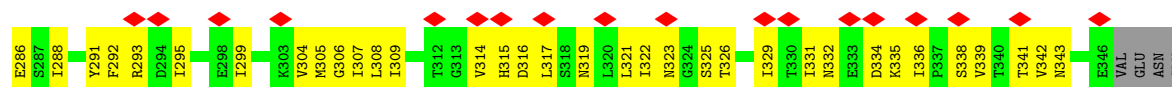
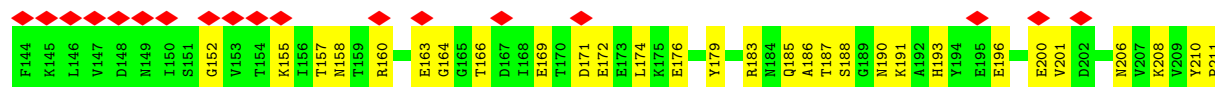
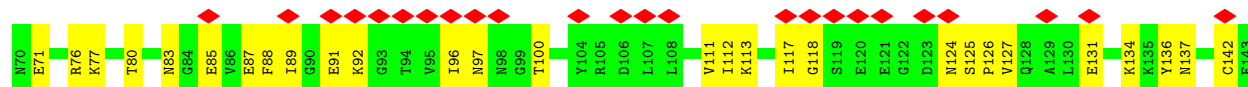
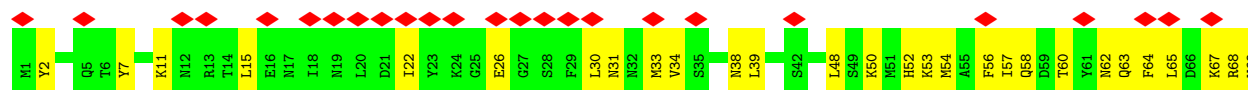


• Molecule 1: TRI-2 (CD1371)

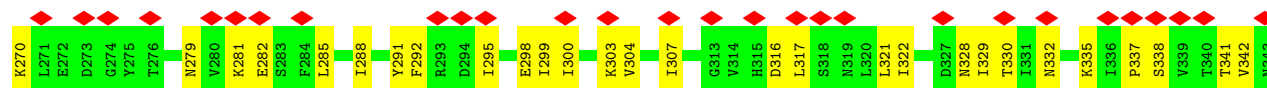
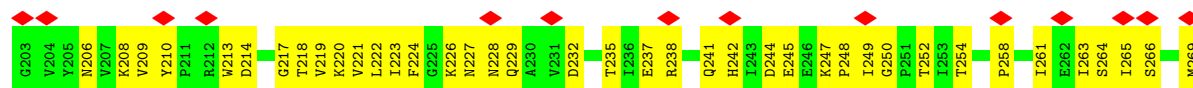
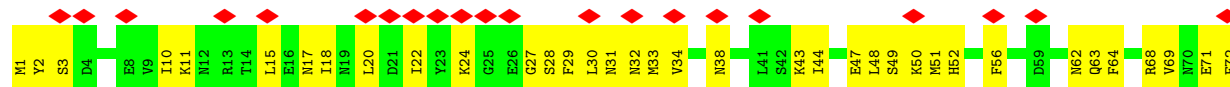
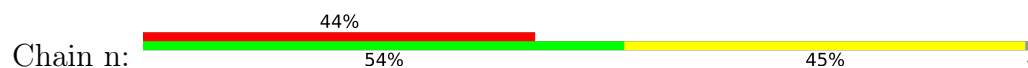


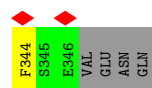


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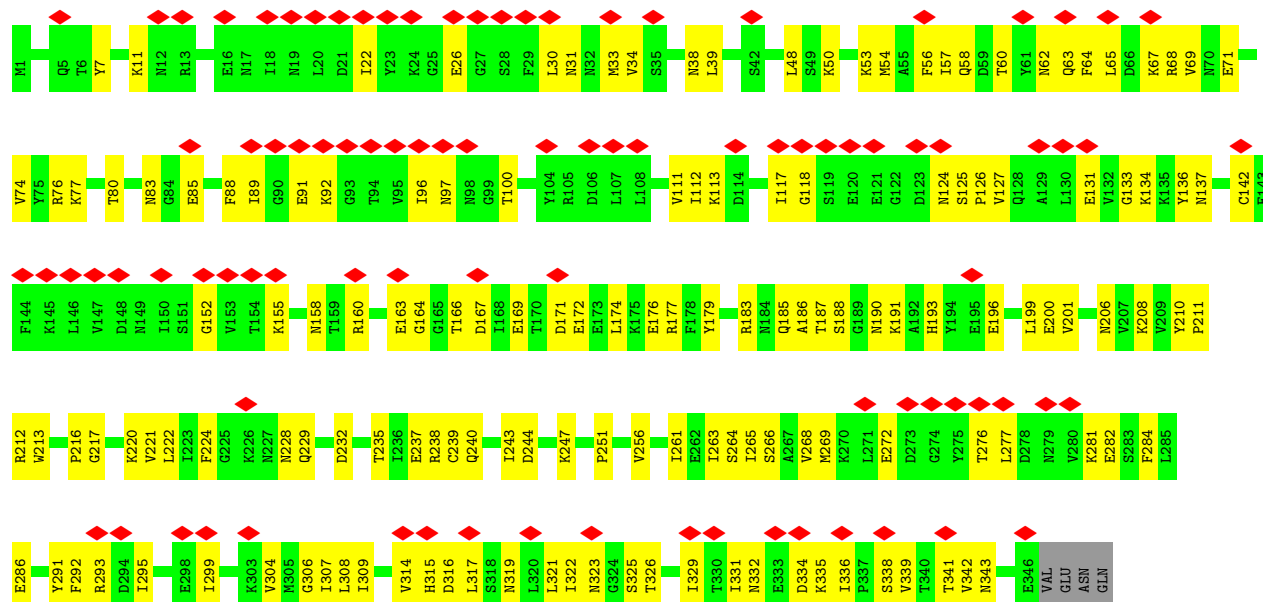


• Molecule 1: TRI-2 (CD1371)

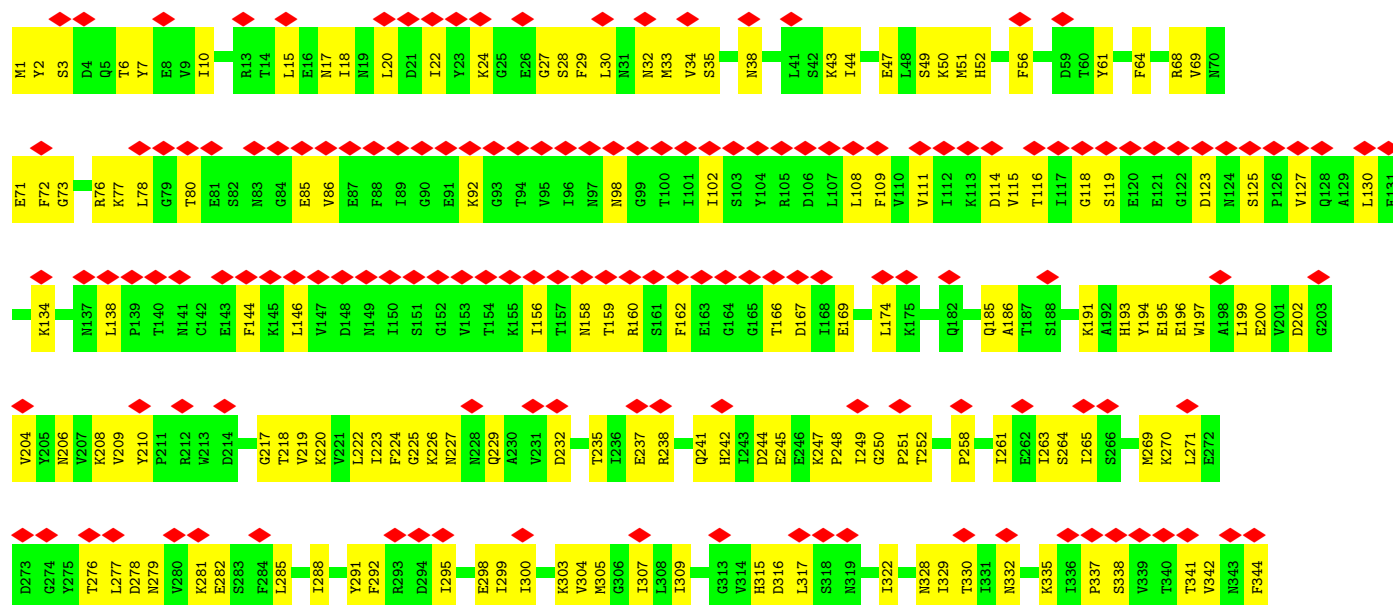
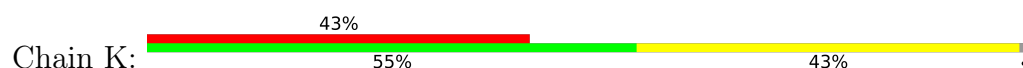


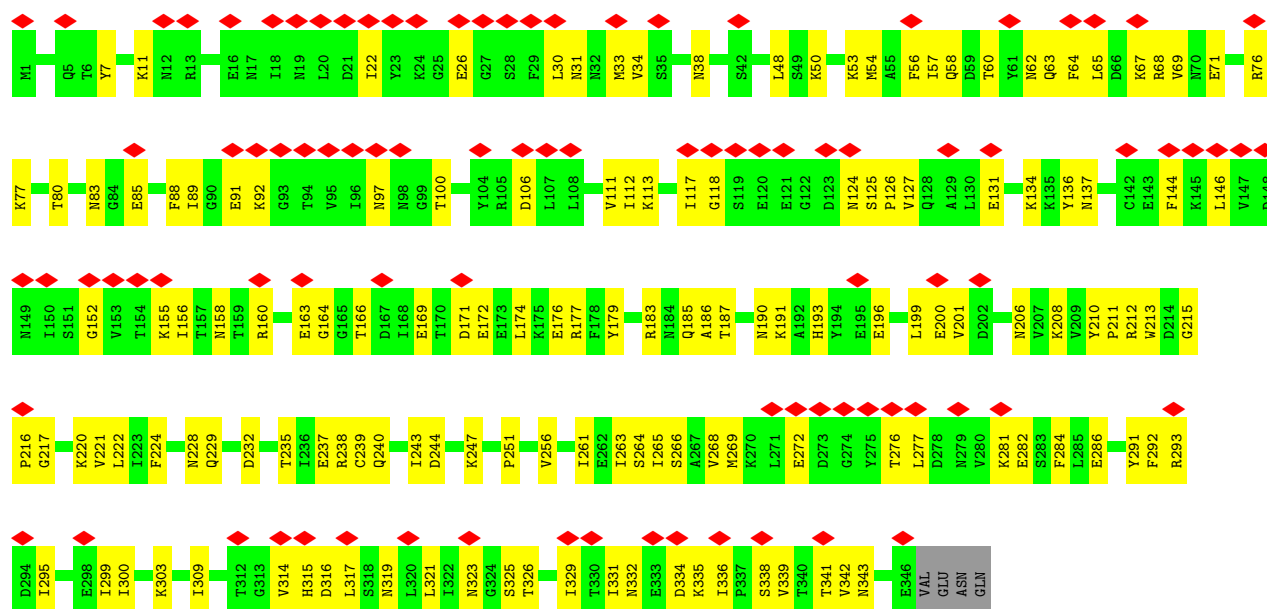


• Molecule 1: TRI-2 (CD1371)

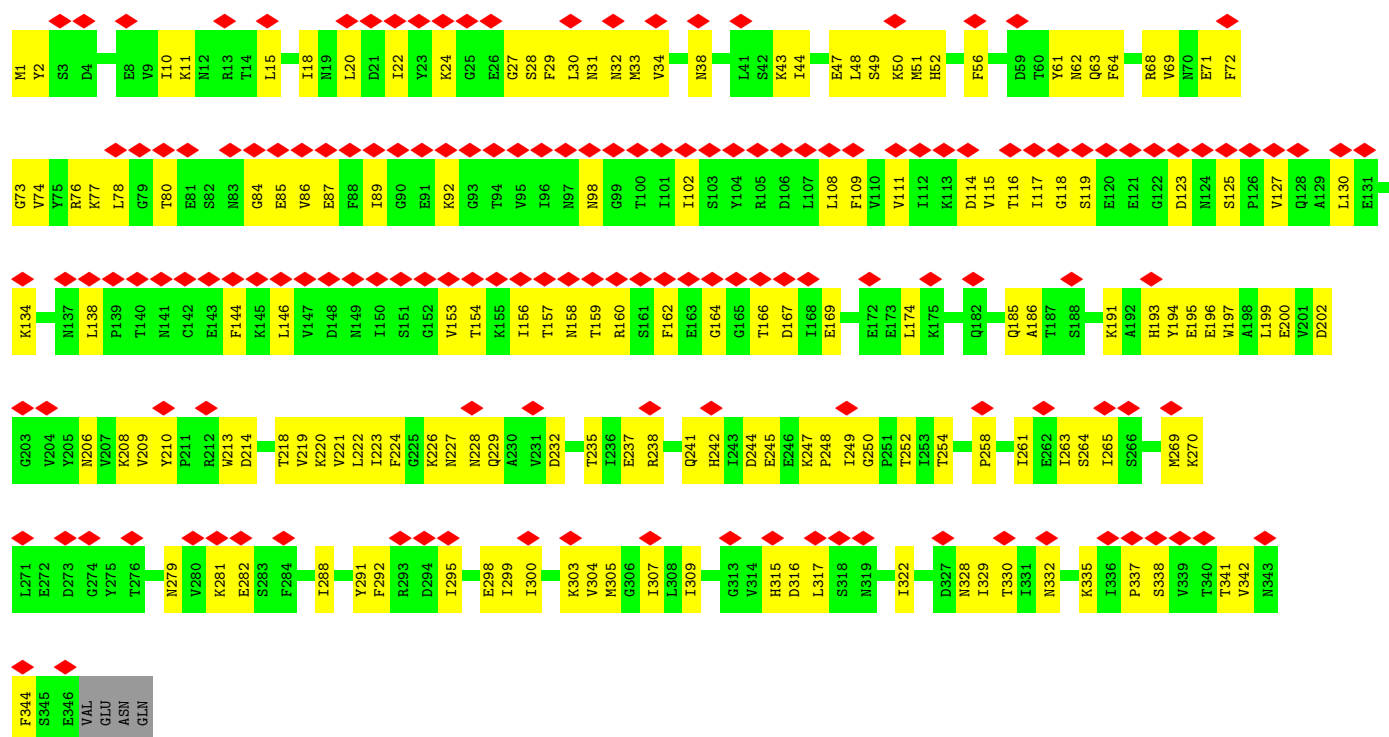
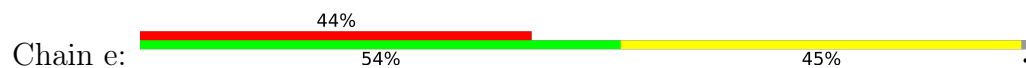


• Molecule 1: TRI-2 (CD1371)





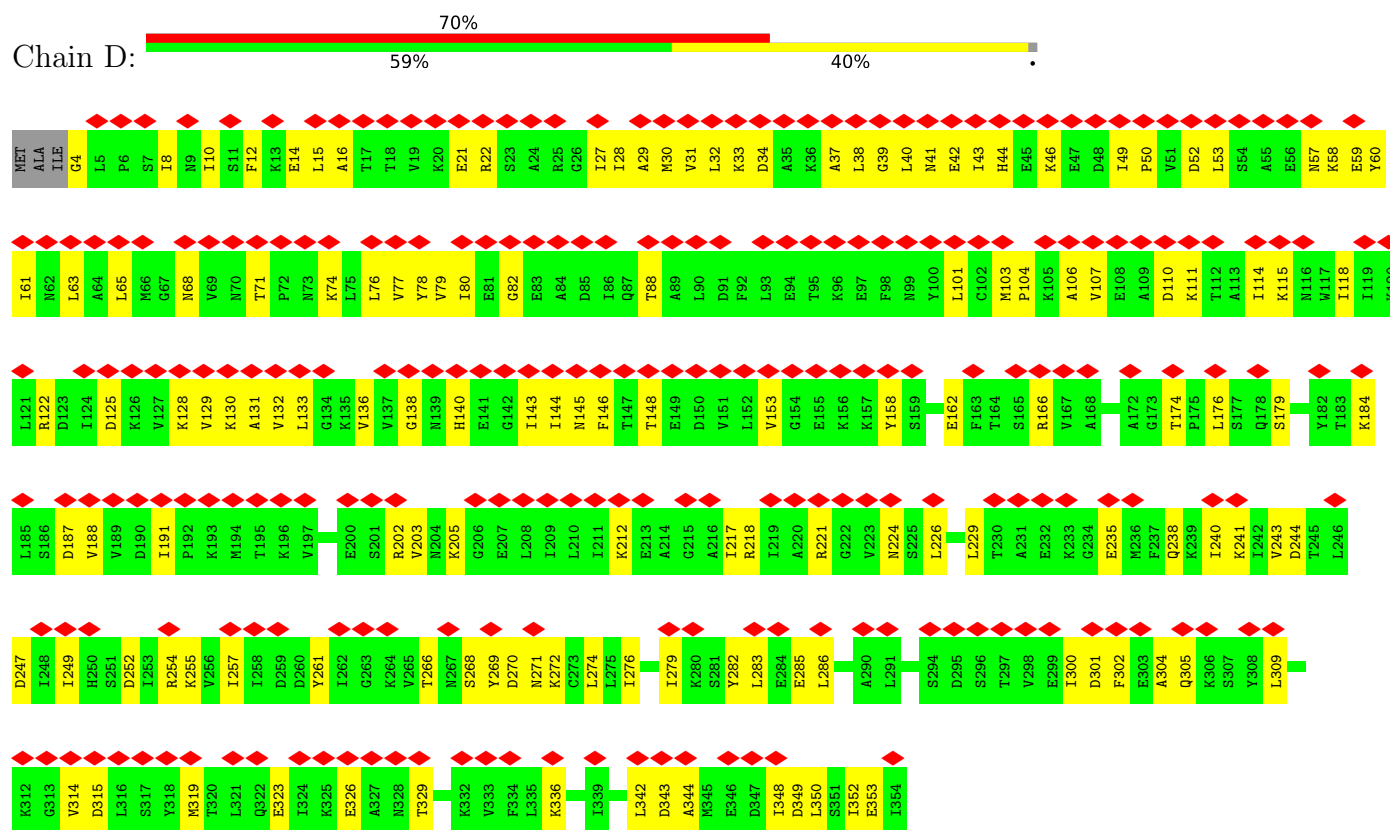
• Molecule 1: TRI-2 (CD1371)



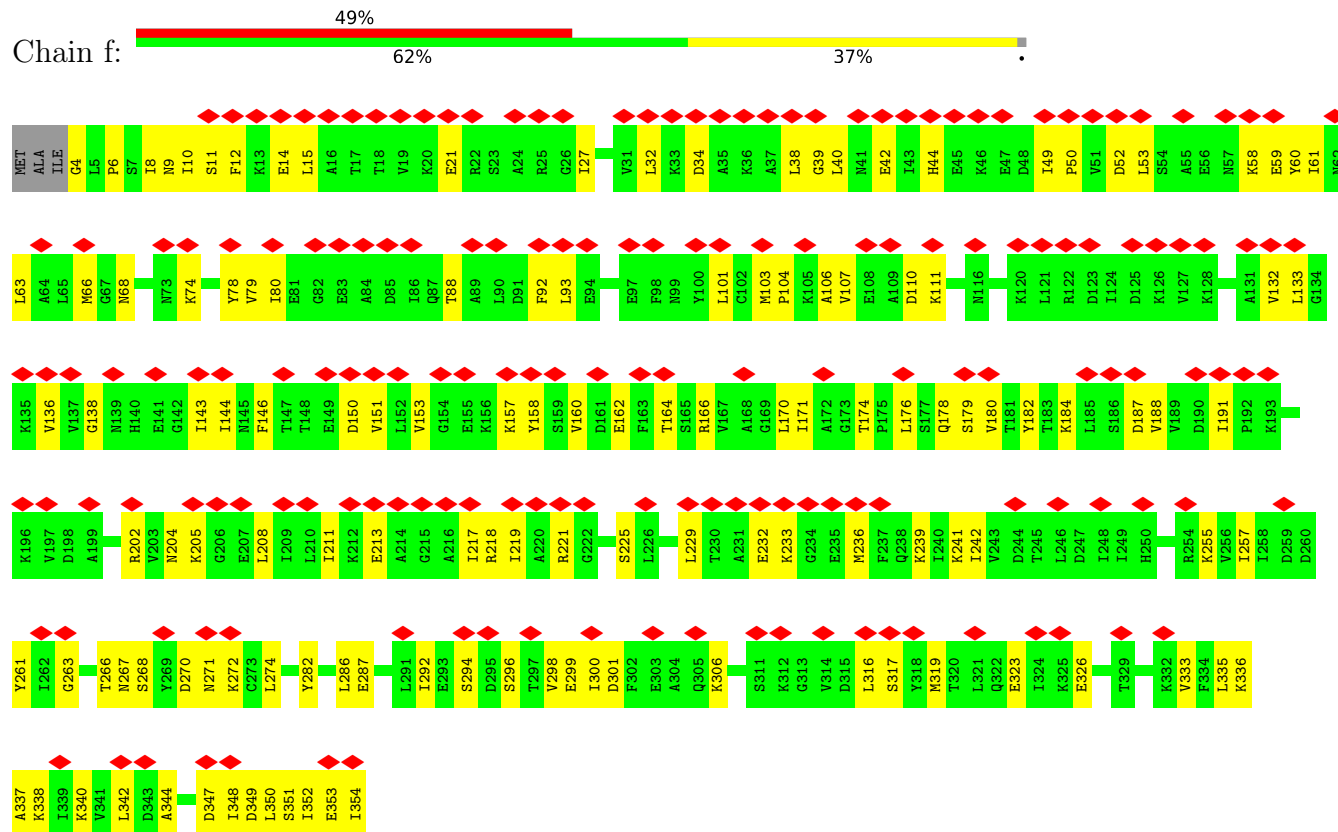
• Molecule 2: Sheath (CD1363)





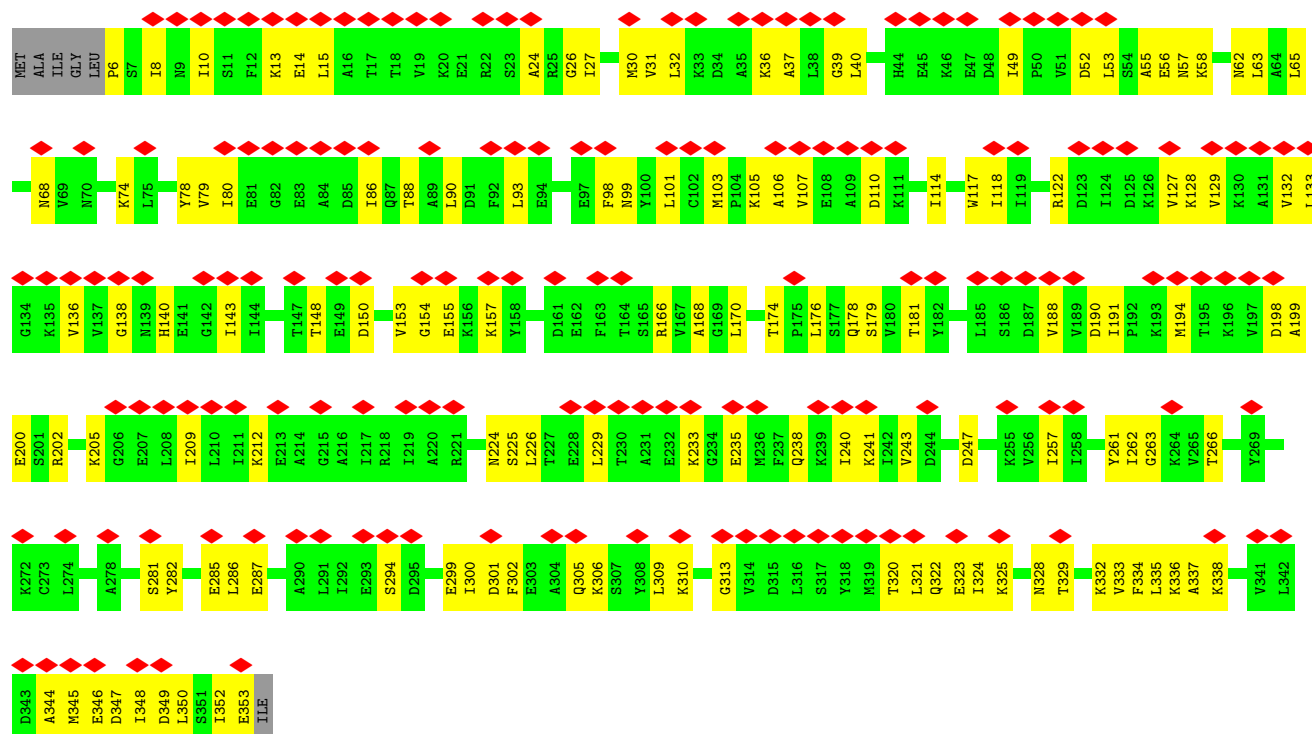


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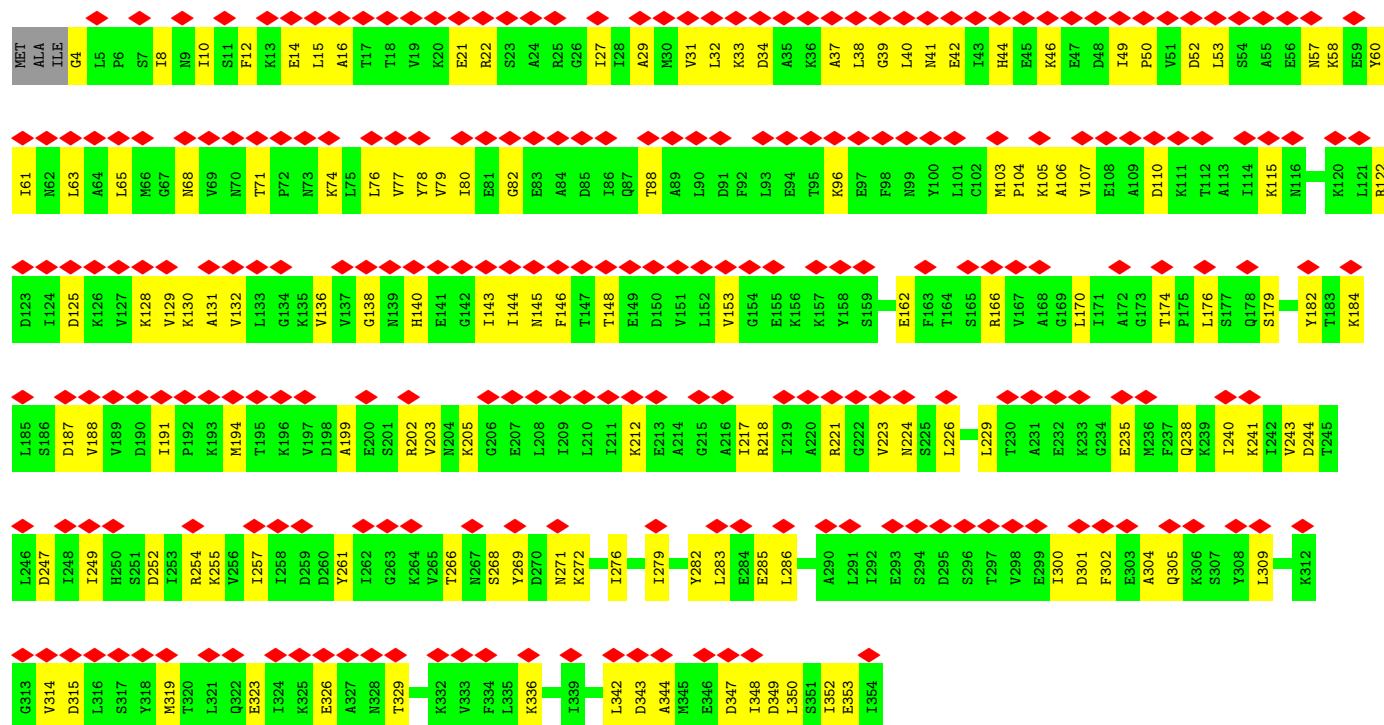
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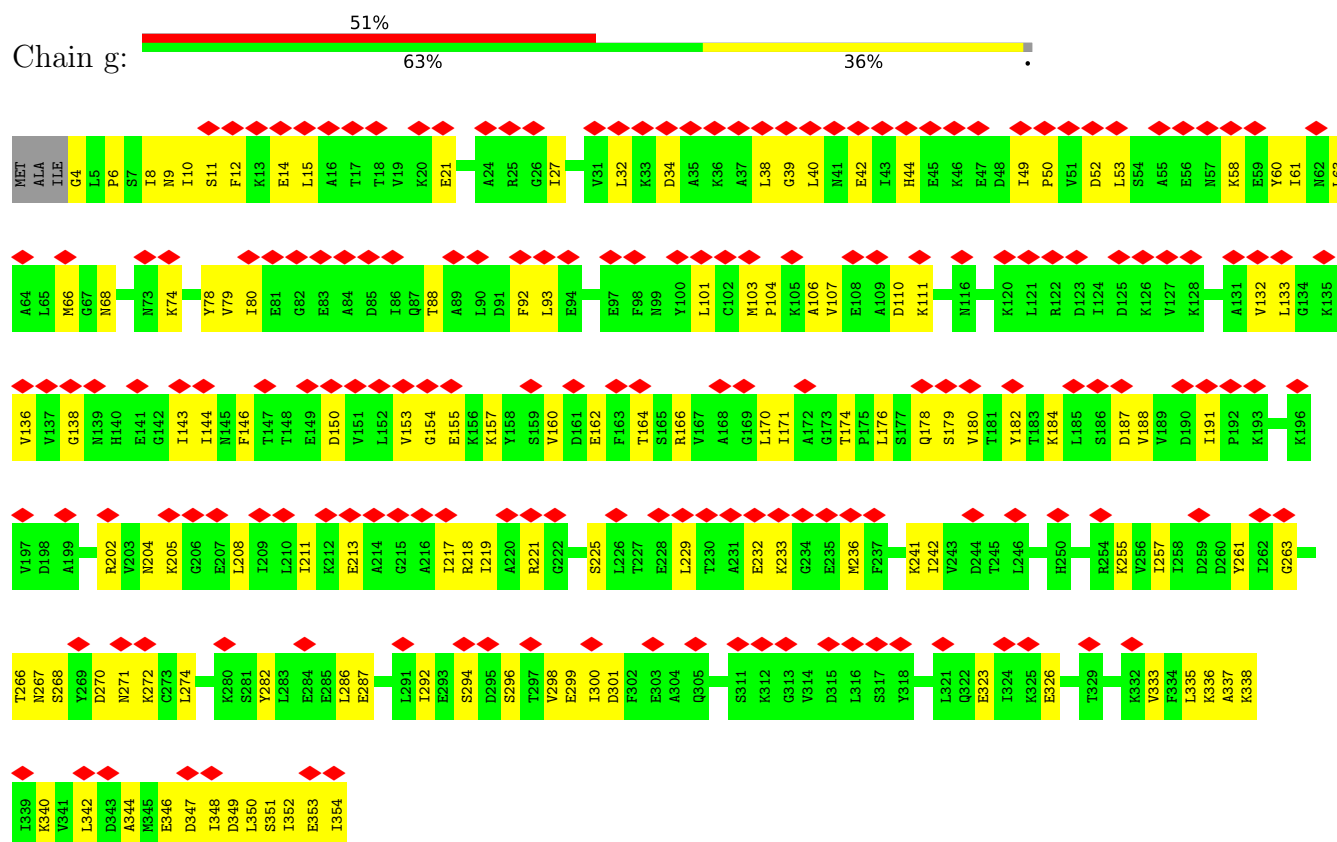
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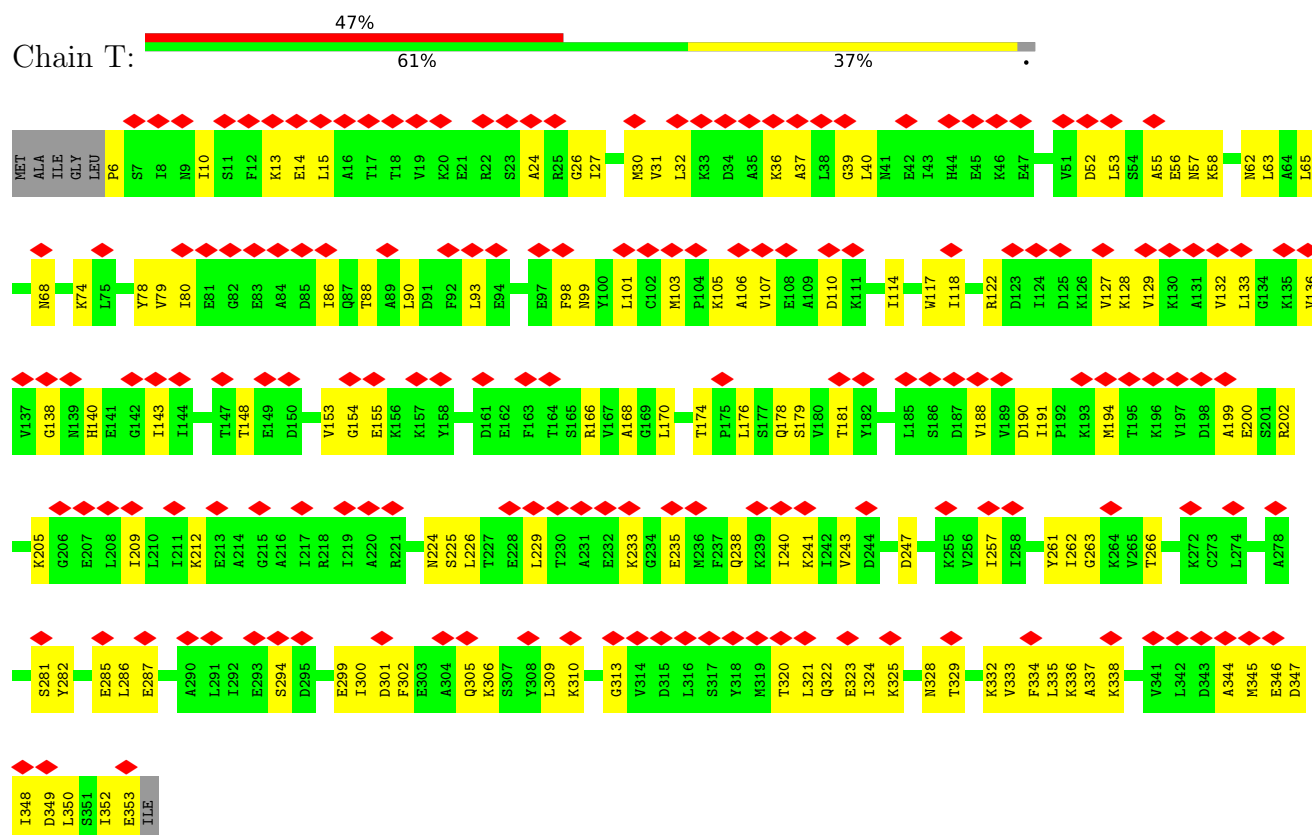
• Molecule 2: Sheath (CD1363)

Chain V: 

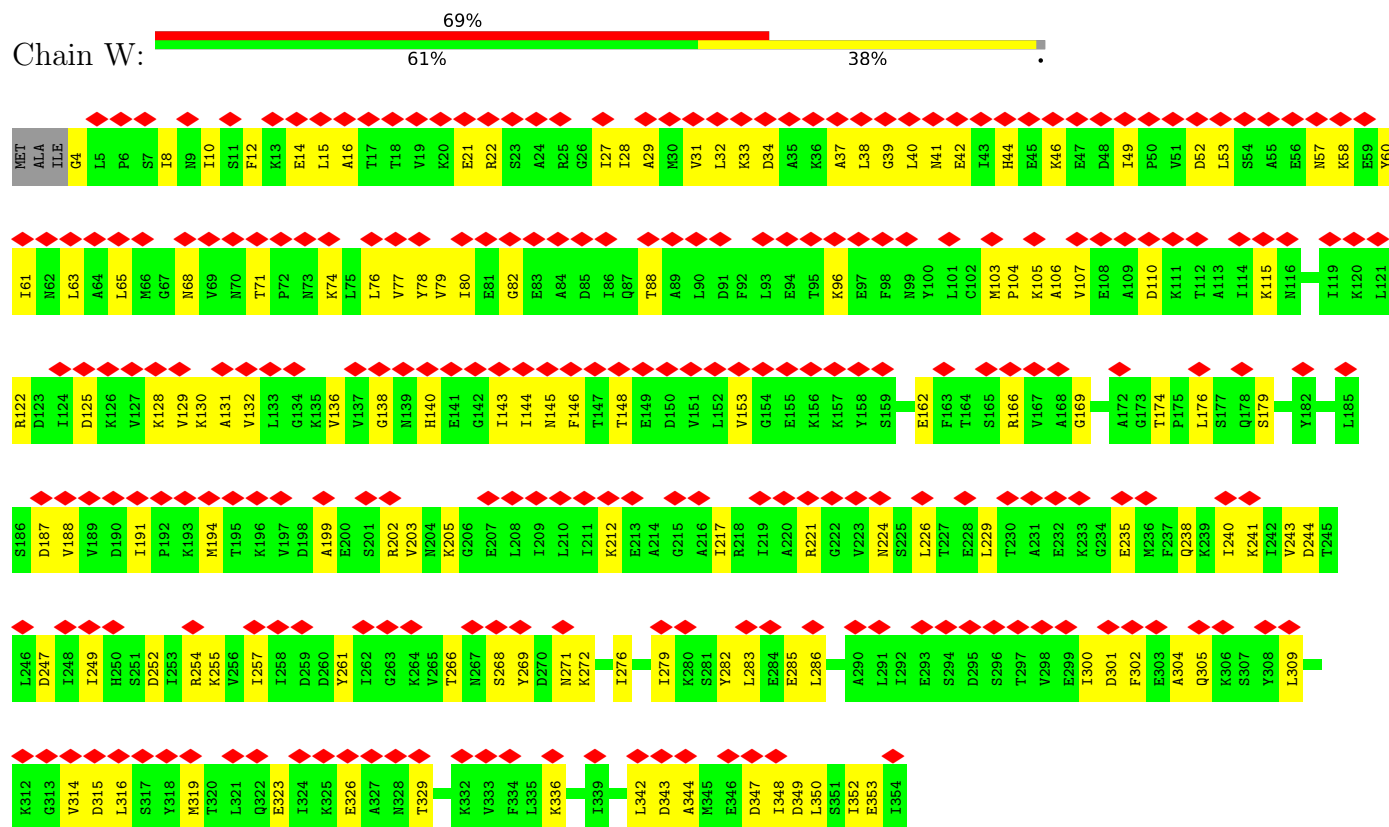




• Molecule 2: Sheath (CD1363)



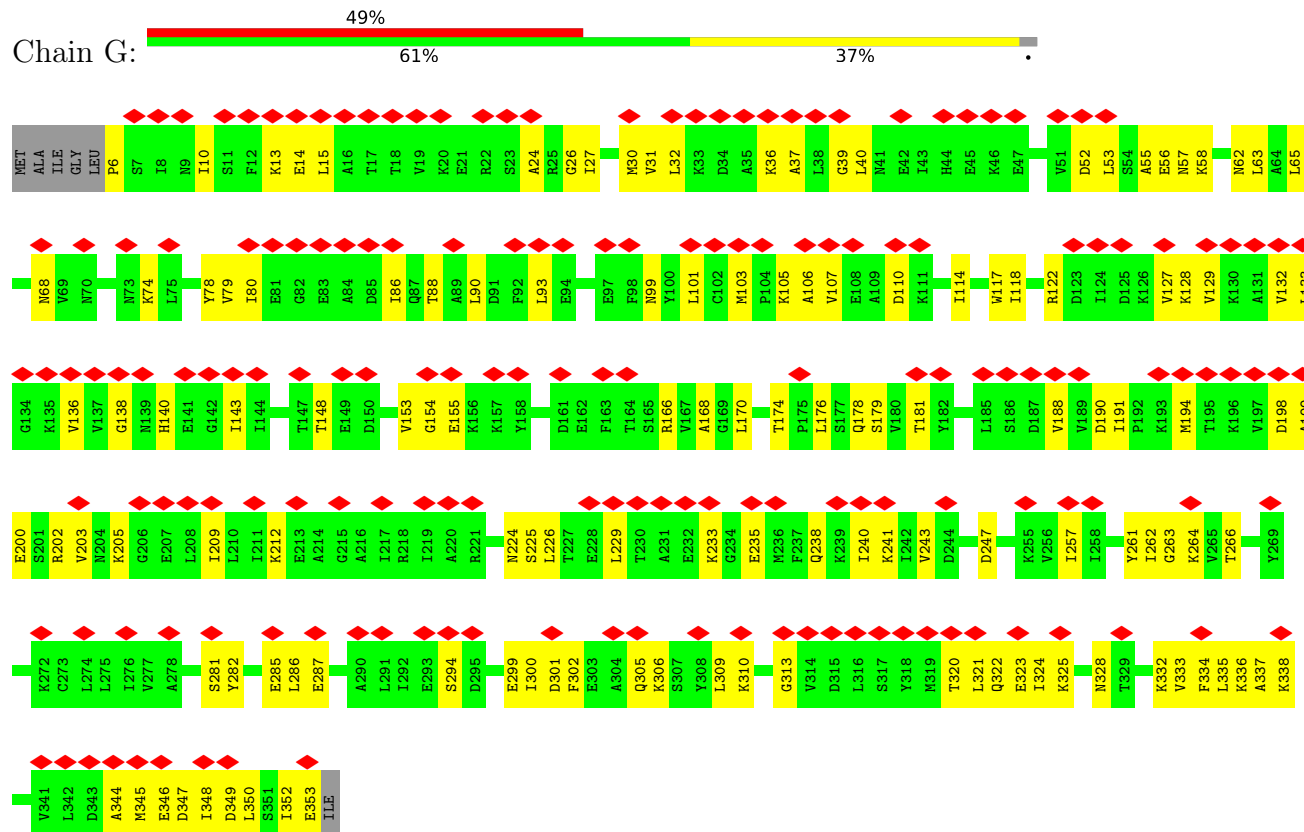
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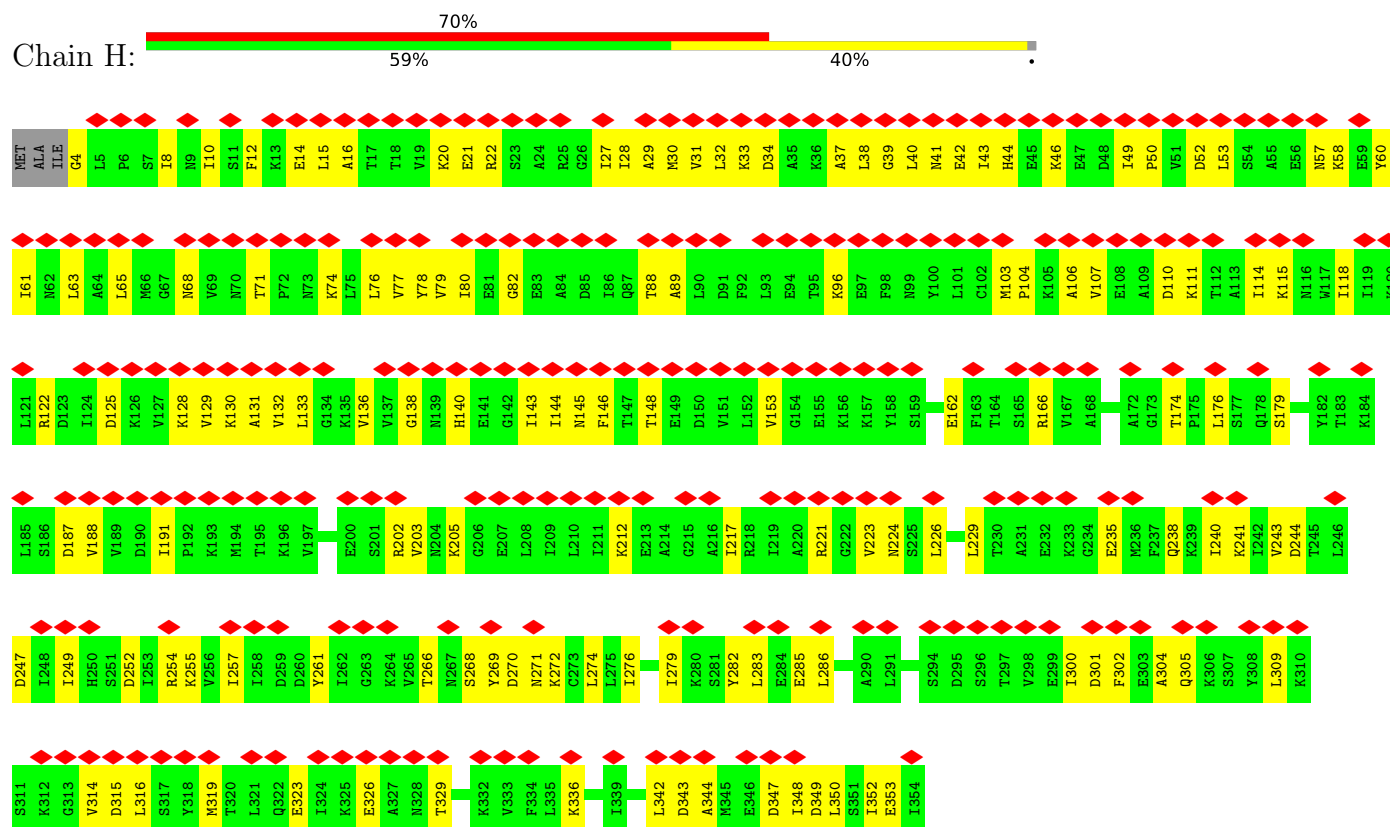
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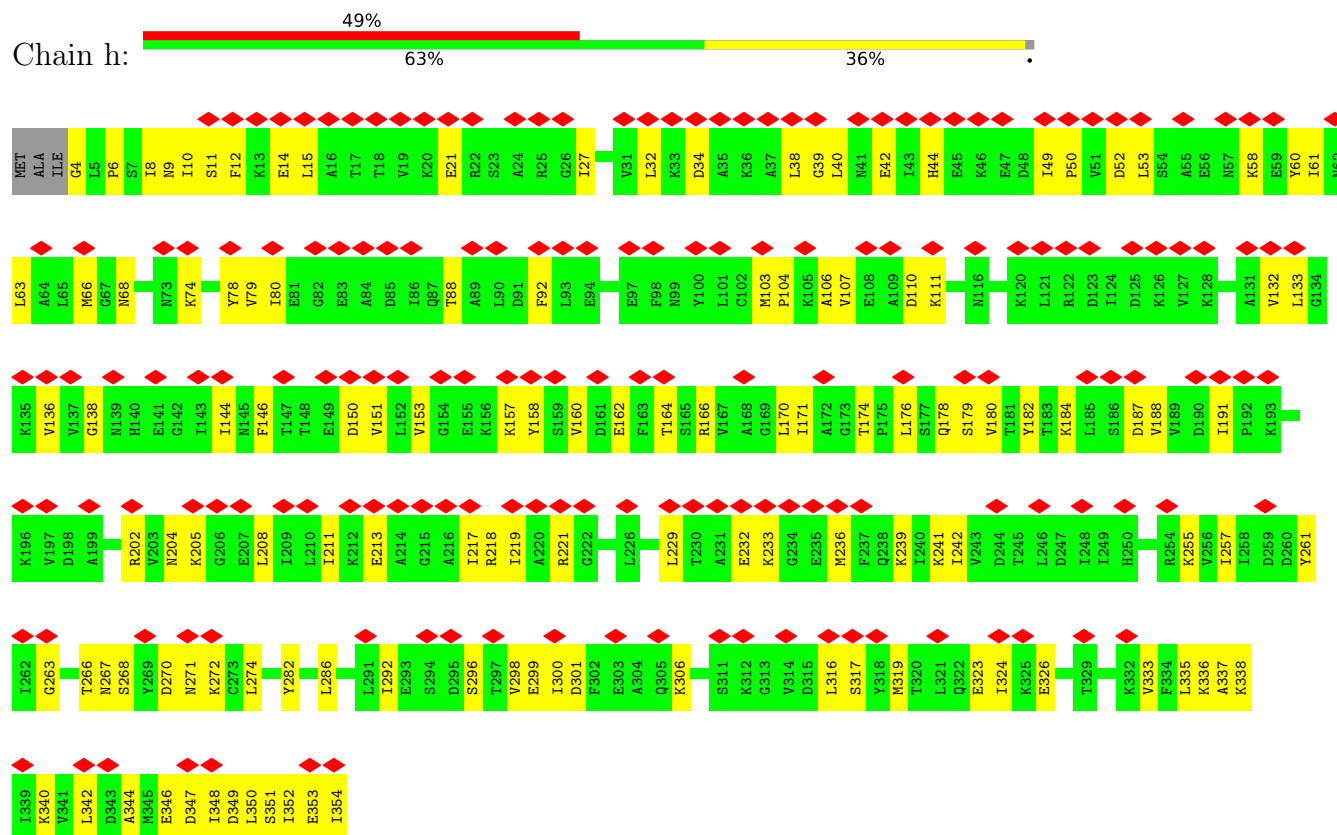
- Molecule 2: Sheath (CD1363)



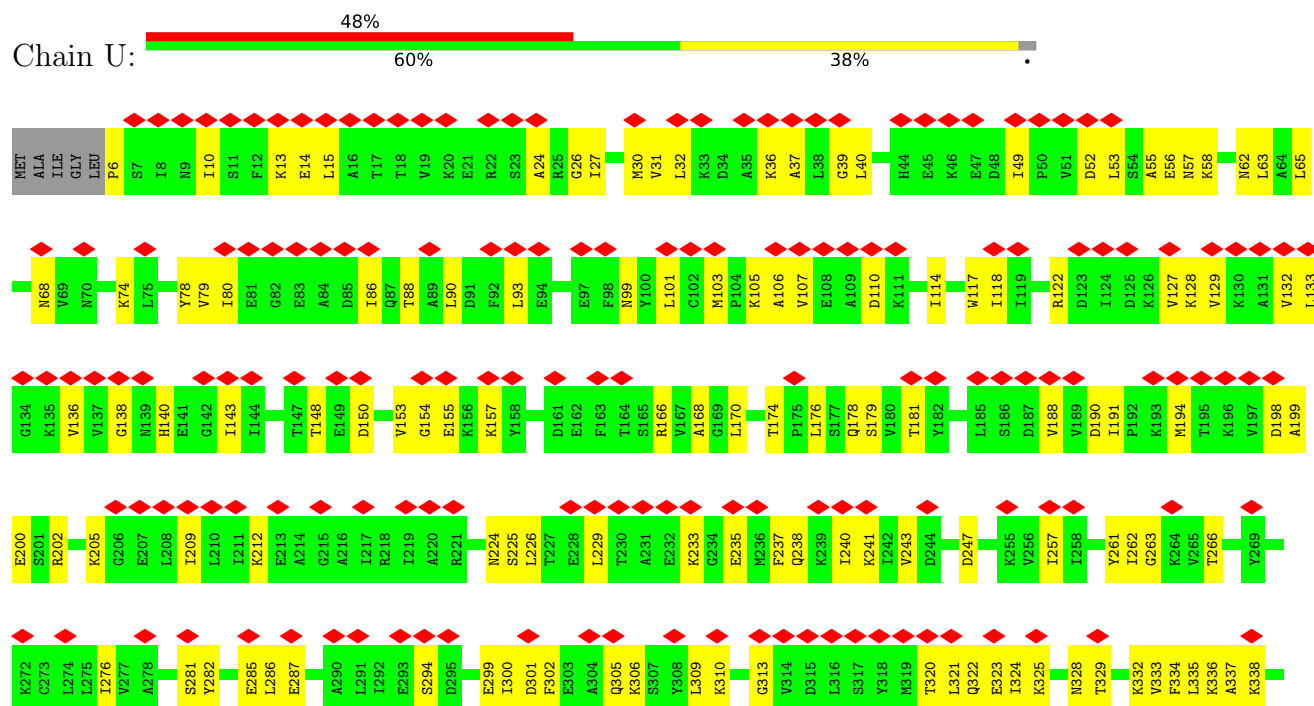
- Molecule 2: Sheath (CD1363)



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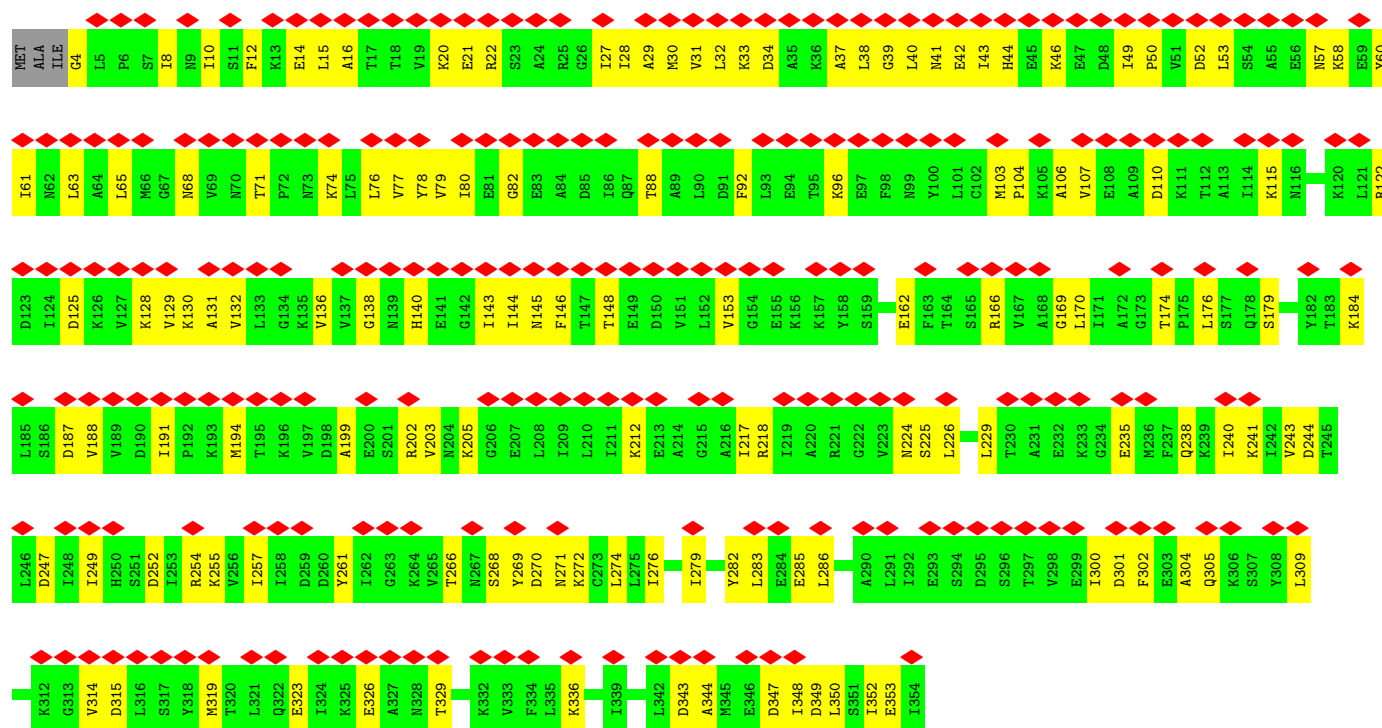


• Molecule 2: Sheath (CD1363)

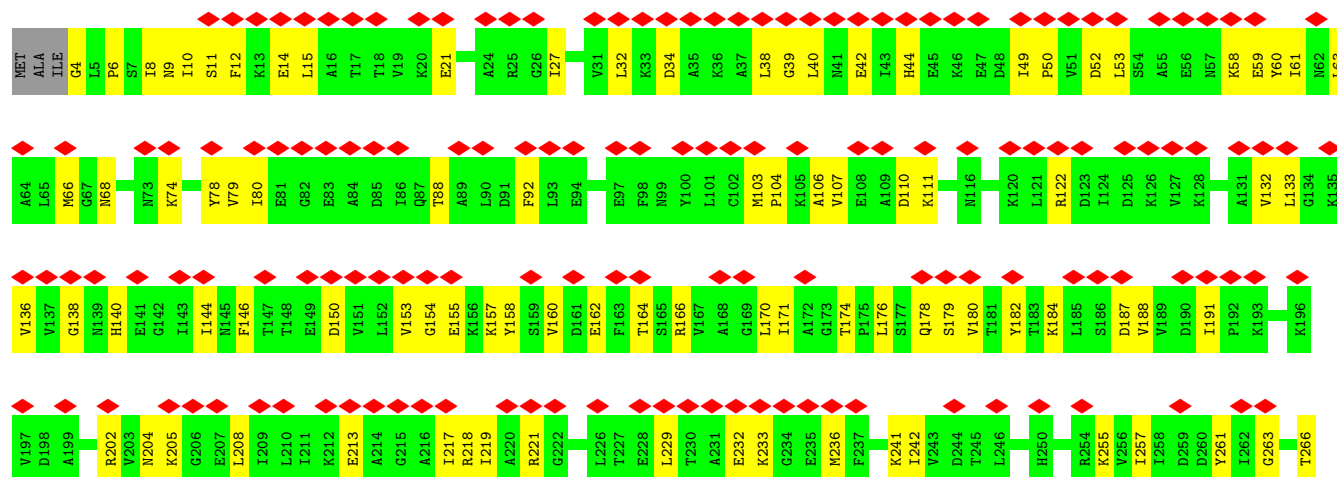


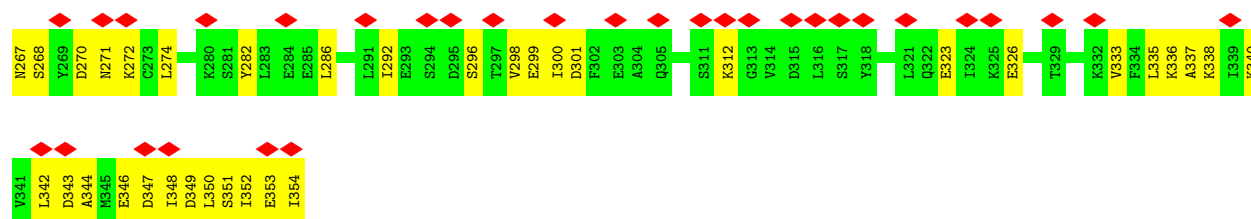


• Molecule 2: Sheath (CD1363)



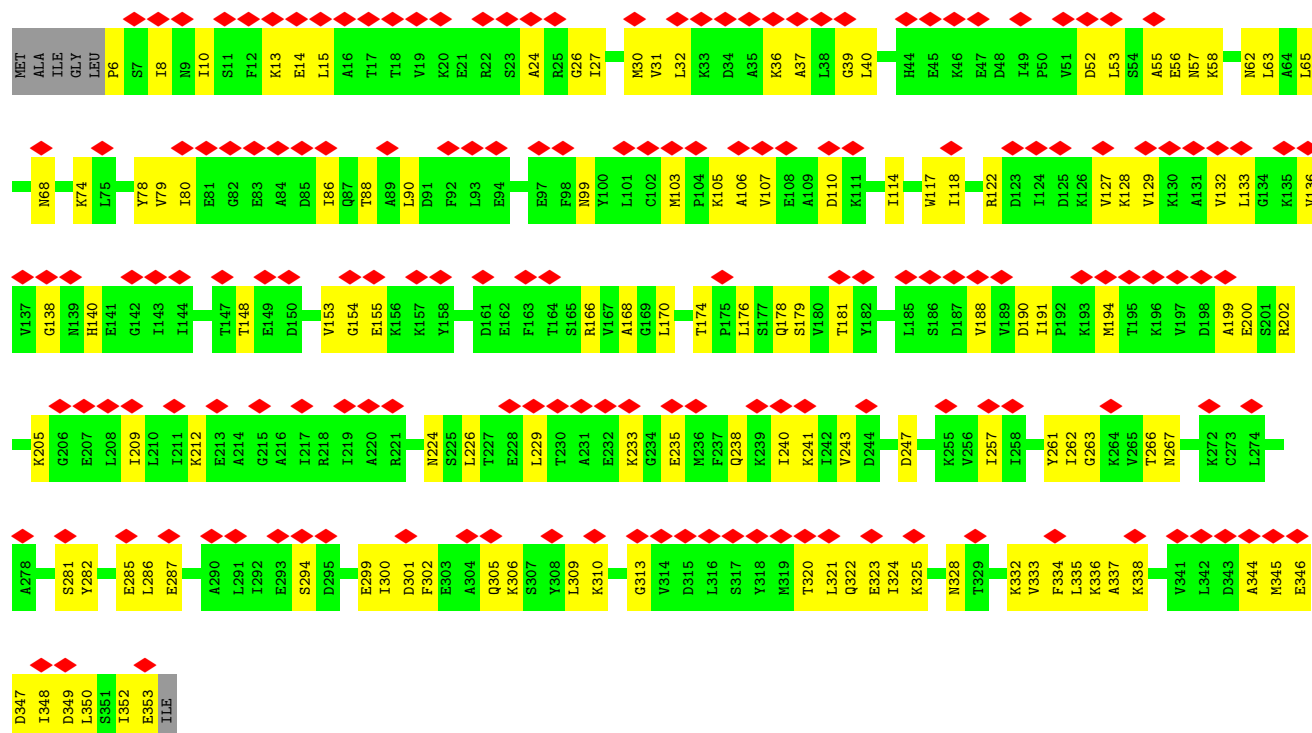
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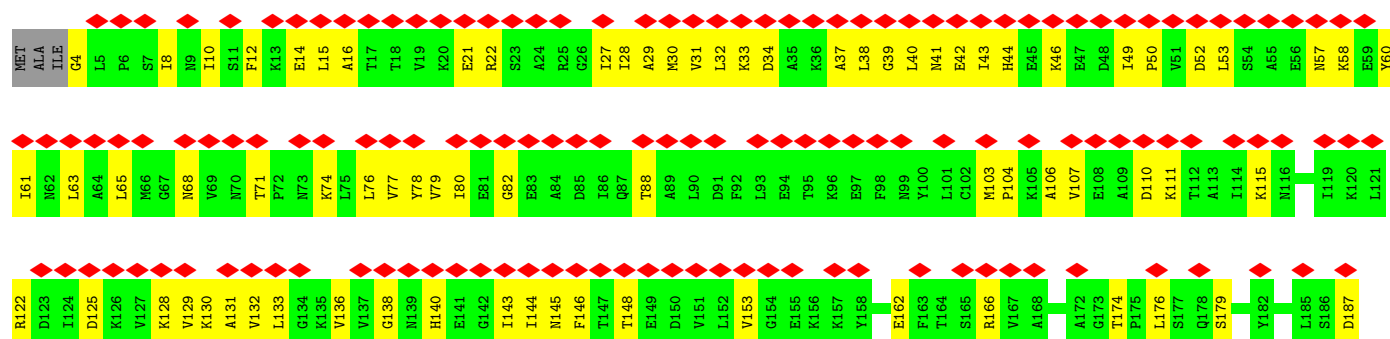
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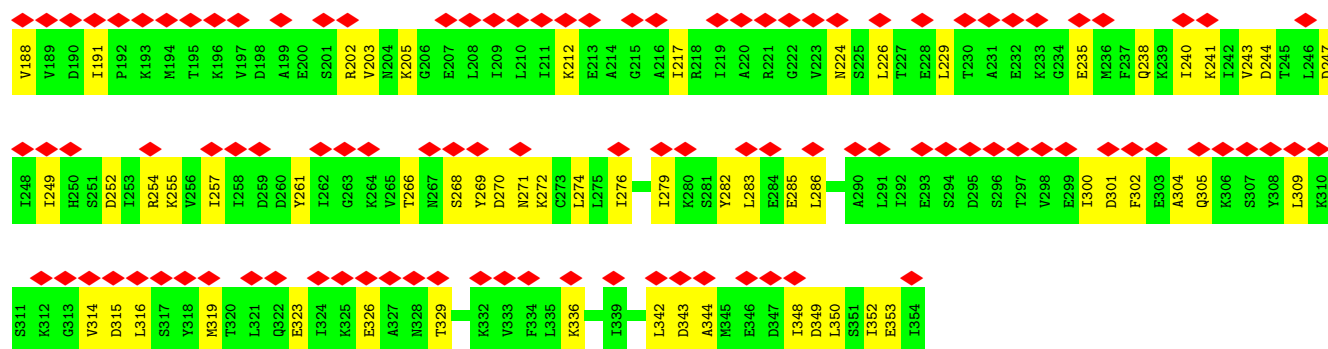
Chain a: 47% 62% 36%



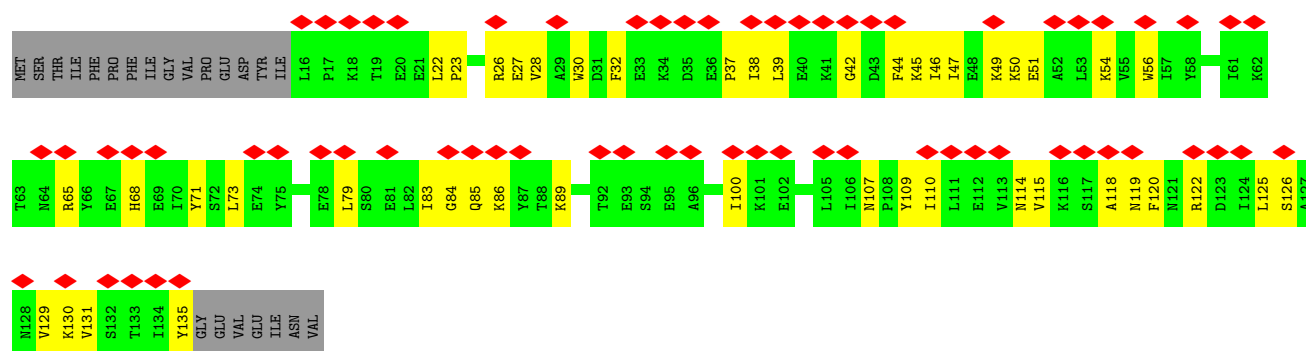
• Molecule 2: Sheath (CD1363)

Chain b: 69% 61% 38%

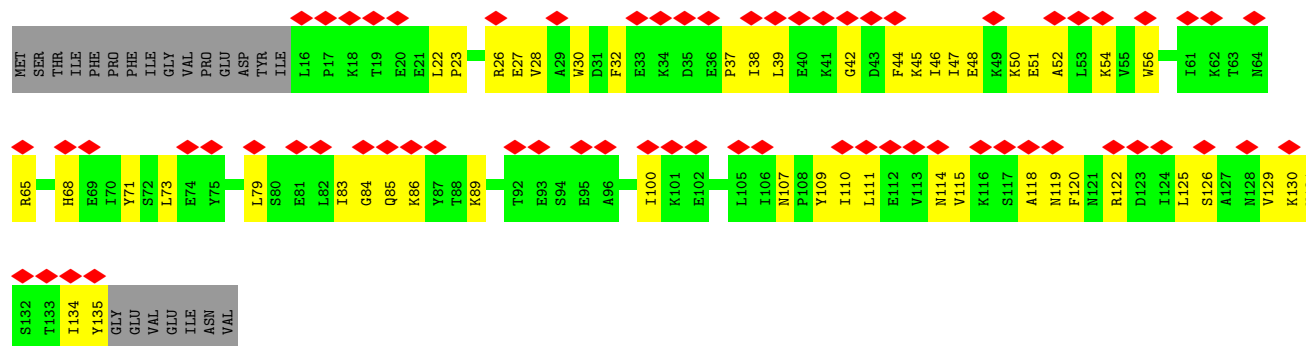




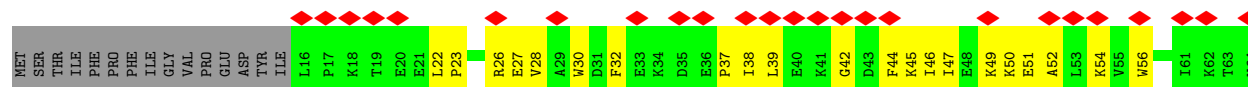
• Molecule 3: Sheath initiator (CD1370)

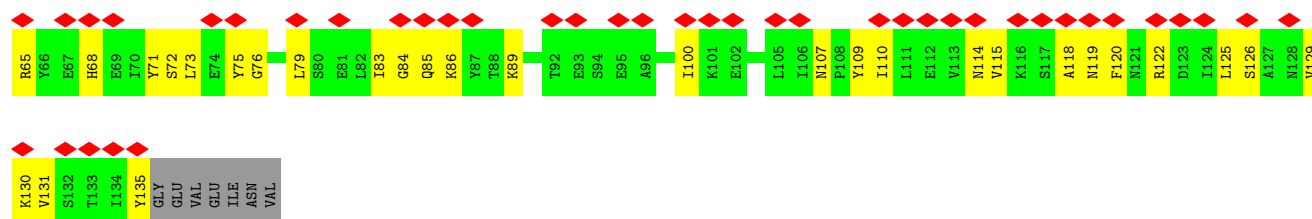


• Molecule 3: Sheath initiator (CD1370)

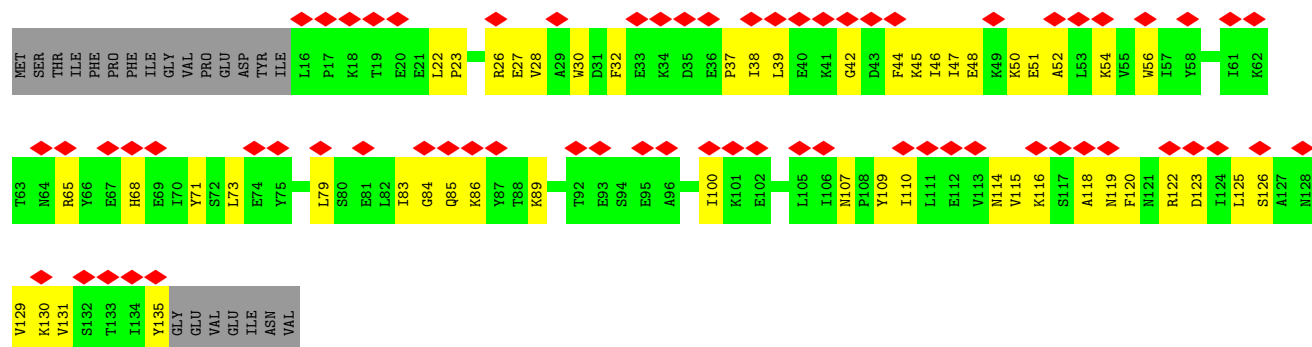


• Molecule 3: Sheath initiator (CD1370)

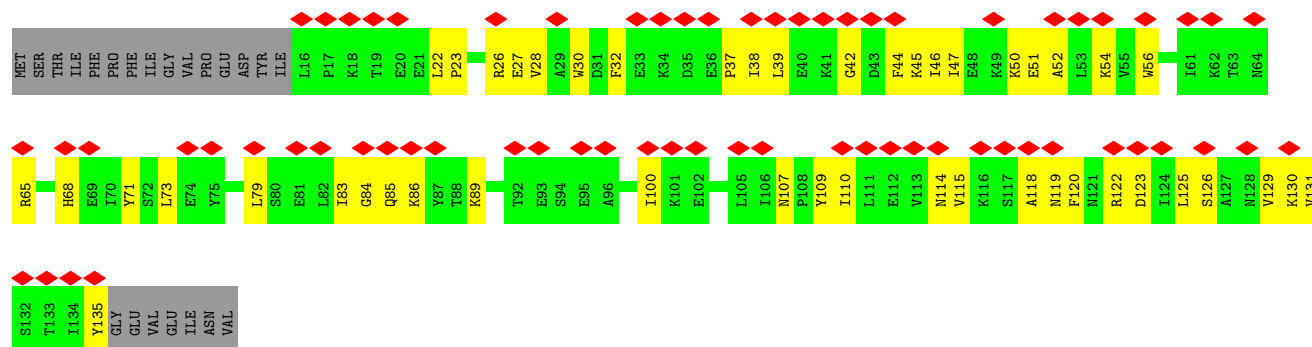




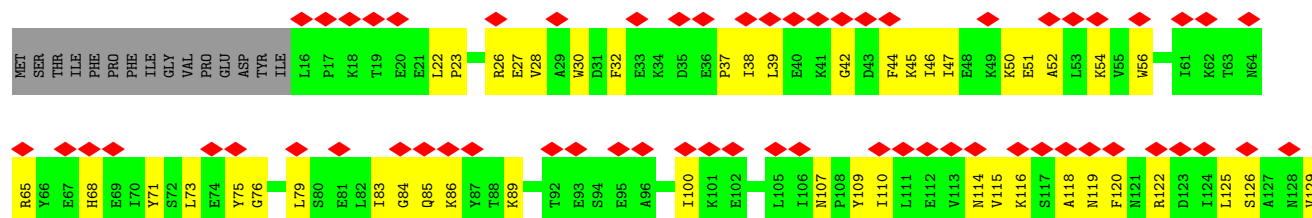
• Molecule 3: Sheath initiator (CD1370)

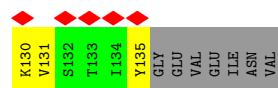


• Molecule 3: Sheath initiator (CD1370)

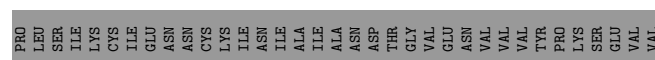
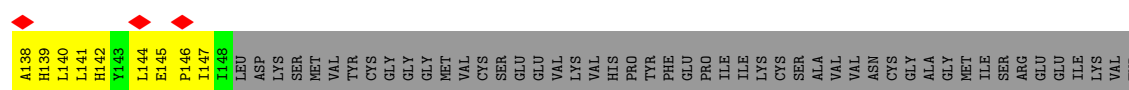
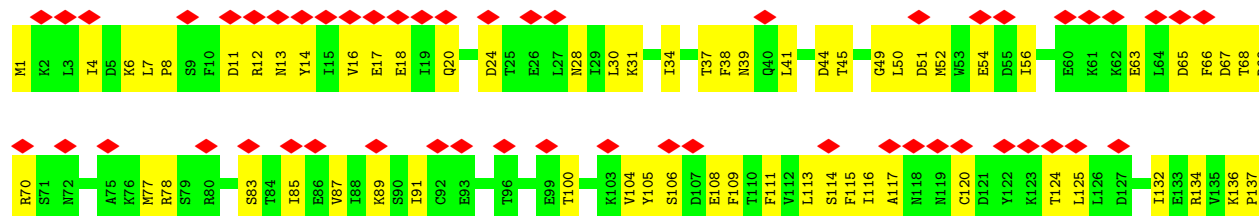


• Molecule 3: Sheath initiator (CD1370)

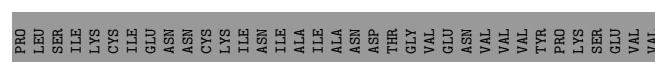
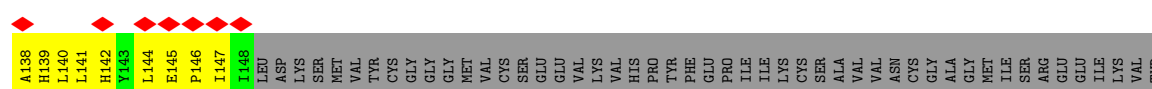
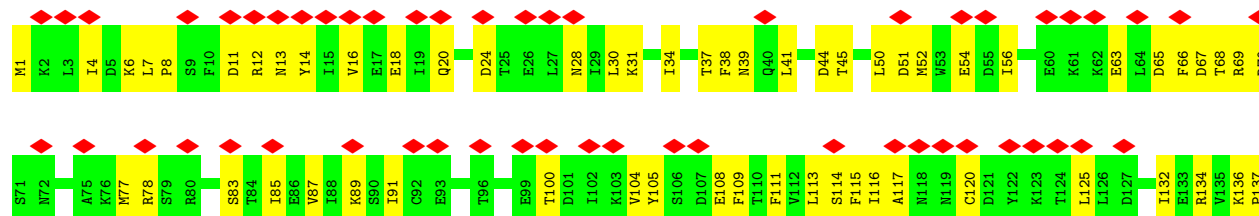




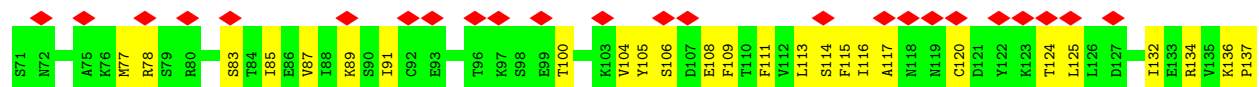
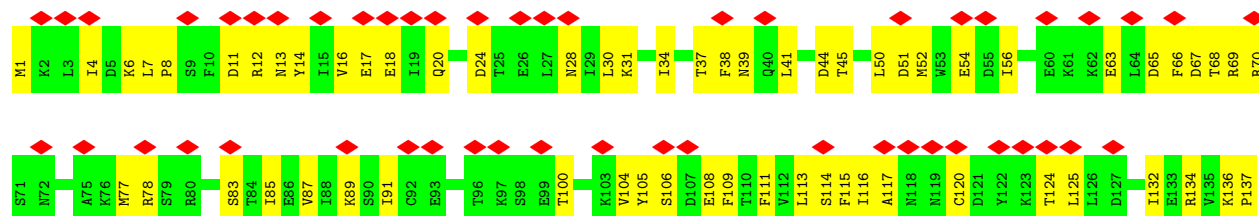
• Molecule 4: TRI-1 (CD1372)



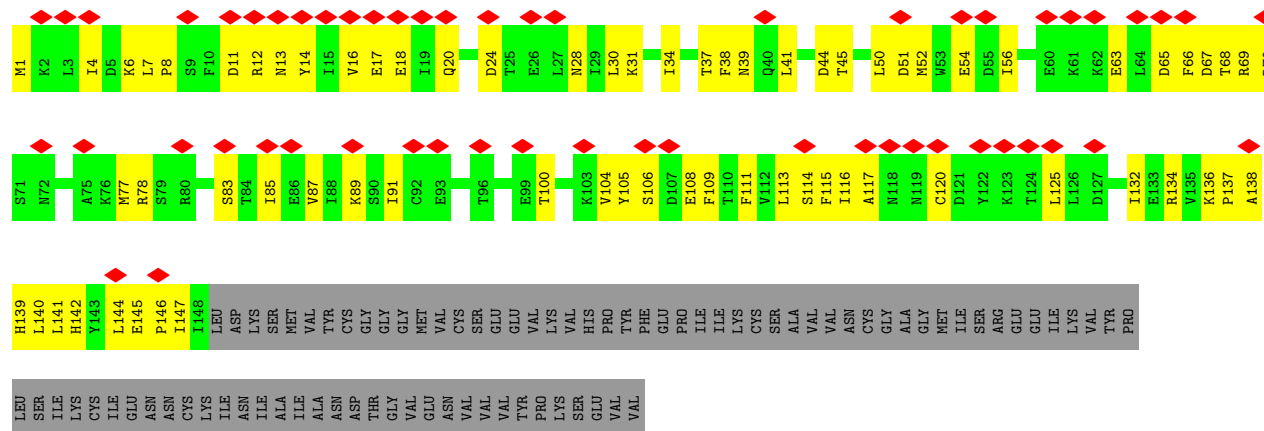
• Molecule 4: TRI-1 (CD1372)



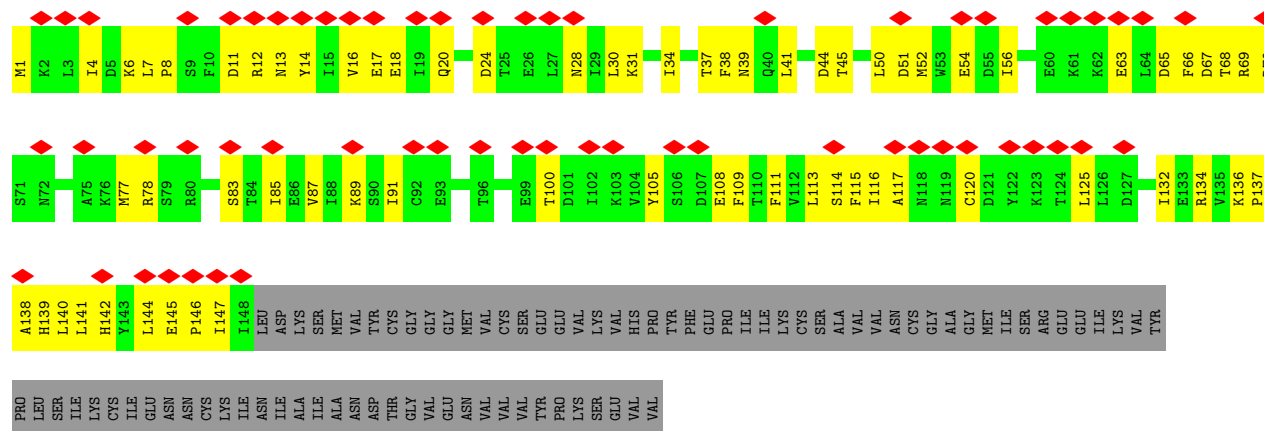
• Molecule 4: TRI-1 (CD1372)



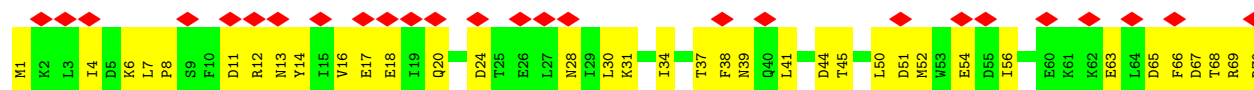
- Molecule 4: TRI-1 (CD1372)

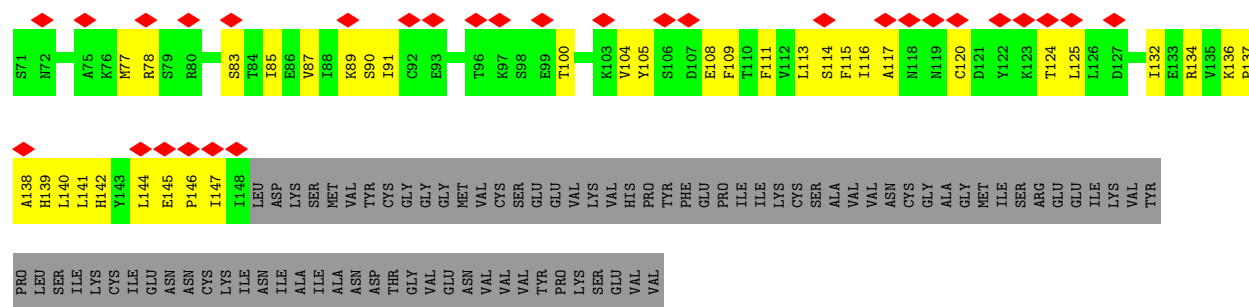


- Molecule 4: TRI-1 (CD1372)



- Molecule 4: TRI-1 (CD1372)





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	11345	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50.0	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.044	Depositor
Minimum map value	-0.026	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.0141	Depositor
Map size (Å)	330.0, 330.0, 330.0	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.1, 1.1, 1.1	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	B	0.11	0/2795	0.29	0/3784
1	F	0.11	0/2795	0.29	0/3784
1	K	0.11	0/2795	0.28	0/3784
1	O	0.11	0/2795	0.29	0/3784
1	Q	0.11	0/2795	0.29	0/3784
1	R	0.11	0/2795	0.29	0/3784
1	Z	0.11	0/2795	0.29	0/3784
1	e	0.11	0/2795	0.27	0/3784
1	m	0.11	0/2795	0.28	0/3784
1	n	0.11	0/2795	0.28	0/3784
1	o	0.11	0/2795	0.28	0/3784
1	v	0.11	0/2795	0.28	0/3784
2	C	0.11	0/2738	0.29	0/3690
2	D	0.12	0/2758	0.33	0/3718
2	G	0.11	0/2738	0.30	0/3690
2	H	0.12	0/2758	0.32	0/3718
2	I	0.11	0/2758	0.30	0/3718
2	P	0.11	0/2758	0.30	0/3718
2	S	0.11	0/2738	0.29	0/3690
2	T	0.11	0/2738	0.29	0/3690
2	U	0.11	0/2738	0.30	0/3690
2	V	0.12	0/2758	0.32	0/3718
2	W	0.12	0/2758	0.32	0/3718
2	X	0.12	0/2758	0.33	0/3718
2	a	0.11	0/2738	0.29	0/3690
2	b	0.12	0/2758	0.33	0/3718
2	c	0.11	0/2758	0.31	0/3718
2	f	0.11	0/2758	0.30	0/3718
2	g	0.12	0/2758	0.31	0/3718
2	h	0.11	0/2758	0.30	0/3718
3	J	0.11	0/1015	0.28	0/1369
3	d	0.11	0/1015	0.28	0/1369
3	i	0.11	0/1015	0.29	0/1369
3	j	0.11	0/1015	0.28	0/1369

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	k	0.11	0/1015	0.28	0/1369
3	l	0.12	0/1015	0.28	0/1369
4	A	0.11	0/1235	0.33	0/1668
4	E	0.11	0/1235	0.33	0/1668
4	L	0.11	0/1235	0.33	0/1668
4	M	0.11	0/1235	0.33	0/1668
4	N	0.11	0/1235	0.33	0/1668
4	Y	0.11	0/1235	0.33	0/1668
All	All	0.11	0/96564	0.30	0/130386

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	2751	0	2720	118	0
1	F	2751	0	2720	121	0
1	K	2751	0	2720	116	0
1	O	2751	0	2720	125	0
1	Q	2751	0	2720	121	0
1	R	2751	0	2720	123	0
1	Z	2751	0	2720	116	0
1	e	2751	0	2720	120	0
1	m	2751	0	2720	118	0
1	n	2751	0	2720	118	0
1	o	2751	0	2720	117	0
1	v	2751	0	2720	116	0
2	C	2710	0	2829	115	0
2	D	2730	0	2853	114	0
2	G	2710	0	2829	110	0
2	H	2730	0	2853	120	0
2	I	2730	0	2853	122	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	P	2730	0	2853	117	0
2	S	2710	0	2829	114	0
2	T	2710	0	2829	110	0
2	U	2710	0	2829	117	0
2	V	2730	0	2853	115	0
2	W	2730	0	2853	112	0
2	X	2730	0	2853	121	0
2	a	2710	0	2829	110	0
2	b	2730	0	2853	110	0
2	c	2730	0	2853	116	0
2	f	2730	0	2853	121	0
2	g	2730	0	2853	117	0
2	h	2730	0	2853	119	0
3	J	995	0	1011	50	0
3	d	995	0	1011	48	0
3	i	995	0	1011	50	0
3	j	995	0	1011	46	0
3	k	995	0	1011	49	0
3	l	995	0	1011	50	0
4	A	1214	0	1203	69	0
4	E	1214	0	1203	66	0
4	L	1214	0	1203	66	0
4	M	1214	0	1203	66	0
4	N	1214	0	1203	66	0
4	Y	1214	0	1203	66	0
All	All	95286	0	97134	3642	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 19.

All (3642) 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)
2:f:221:ARG:HD3	2:g:6:PRO:HD3	1.48	0.96
2:P:221:ARG:HD3	2:f:6:PRO:HD3	1.48	0.95
2:P:6:PRO:HD3	2:c:221:ARG:HD3	1.49	0.94
2:g:221:ARG:HD3	2:I:6:PRO:HD3	1.50	0.92
2:I:221:ARG:HD3	2:h:6:PRO:HD3	1.51	0.90
2:h:221:ARG:HD3	2:c:6:PRO:HD3	1.51	0.89
2:D:348:ILE:H	2:V:8:ILE:HG21	1.39	0.88
2:H:350:LEU:HD23	2:X:10:ILE:HD11	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:8:ILE:HG21	2:b:348:ILE:H	1.39	0.85
1:R:33:MET:HG2	1:o:30:LEU:HD11	1.60	0.84
2:X:350:LEU:HD23	2:b:10:ILE:HD11	1.59	0.84
1:F:33:MET:HG2	1:K:30:LEU:HD11	1.60	0.84
2:W:350:LEU:HD23	2:H:10:ILE:HD11	1.60	0.84
1:O:33:MET:HG2	1:m:30:LEU:HD11	1.60	0.83
1:B:33:MET:HG2	1:v:30:LEU:HD11	1.60	0.82
2:a:352:ILE:HD11	3:d:131:VAL:HG23	1.61	0.82
2:W:348:ILE:H	2:H:8:ILE:HG21	1.45	0.81
2:G:352:ILE:HD11	3:J:131:VAL:HG23	1.61	0.81
2:C:352:ILE:HD11	3:j:131:VAL:HG23	1.61	0.81
2:H:348:ILE:H	2:X:8:ILE:HG21	1.46	0.81
2:V:348:ILE:H	2:W:8:ILE:HG21	1.46	0.80
2:U:352:ILE:HD11	3:l:131:VAL:HG23	1.62	0.80
3:i:50:LYS:HE3	3:i:135:TYR:HB2	1.64	0.80
3:d:50:LYS:HE3	3:d:135:TYR:HB2	1.64	0.80
2:T:352:ILE:HD11	3:k:131:VAL:HG23	1.61	0.80
3:k:50:LYS:HE3	3:k:135:TYR:HB2	1.64	0.79
1:F:210:TYR:HB2	1:F:220:LYS:HB3	1.63	0.79
1:B:210:TYR:HB2	1:B:220:LYS:HB3	1.63	0.79
1:o:227:ASN:HB3	1:o:229:GLN:HE22	1.47	0.79
2:S:352:ILE:HD11	3:i:131:VAL:HG23	1.62	0.79
1:e:227:ASN:HB3	1:e:229:GLN:HE22	1.48	0.79
3:J:50:LYS:HE3	3:J:135:TYR:HB2	1.64	0.78
3:l:50:LYS:HE3	3:l:135:TYR:HB2	1.64	0.78
3:j:50:LYS:HE3	3:j:135:TYR:HB2	1.64	0.78
1:v:227:ASN:HB3	1:v:229:GLN:HE22	1.48	0.78
2:D:37:ALA:HB3	2:D:52:ASP:HB3	1.66	0.78
2:V:37:ALA:HB3	2:V:52:ASP:HB3	1.66	0.78
1:Z:210:TYR:HB2	1:Z:220:LYS:HB3	1.65	0.78
1:O:210:TYR:HB2	1:O:220:LYS:HB3	1.64	0.78
1:Q:210:TYR:HB2	1:Q:220:LYS:HB3	1.64	0.78
1:R:210:TYR:HB2	1:R:220:LYS:HB3	1.64	0.78
2:X:348:ILE:H	2:b:8:ILE:HG21	1.47	0.78
1:O:54:MET:SD	1:O:62:ASN:ND2	2.57	0.78
2:b:37:ALA:HB3	2:b:52:ASP:HB3	1.66	0.78
2:S:194:MET:HE1	2:S:199:ALA:HB2	1.65	0.78
1:Q:54:MET:SD	1:Q:62:ASN:ND2	2.57	0.77
2:U:194:MET:HE1	2:U:199:ALA:HB2	1.64	0.77
1:B:54:MET:SD	1:B:62:ASN:ND2	2.57	0.77
1:n:227:ASN:HB3	1:n:229:GLN:HE22	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:37:ALA:HB3	2:W:52:ASP:HB3	1.66	0.77
1:K:227:ASN:HB3	1:K:229:GLN:HE22	1.48	0.77
2:X:37:ALA:HB3	2:X:52:ASP:HB3	1.66	0.77
1:m:227:ASN:HB3	1:m:229:GLN:HE22	1.47	0.77
1:R:54:MET:SD	1:R:62:ASN:ND2	2.57	0.77
1:F:54:MET:SD	1:F:62:ASN:ND2	2.57	0.77
2:b:103:MET:HB3	2:b:106:ALA:HB2	1.66	0.77
2:V:350:LEU:HD23	2:W:10:ILE:HD11	1.65	0.76
2:C:194:MET:HE1	2:C:199:ALA:HB2	1.68	0.76
3:J:30:TRP:HB3	3:J:37:PRO:HA	1.68	0.76
2:G:194:MET:HE1	2:G:199:ALA:HB2	1.68	0.76
1:Z:54:MET:SD	1:Z:62:ASN:ND2	2.57	0.75
1:Q:33:MET:HG2	1:n:30:LEU:HD11	1.67	0.75
1:Z:33:MET:HG2	1:e:30:LEU:HD11	1.67	0.74
3:l:30:TRP:HB3	3:l:37:PRO:HA	1.70	0.74
2:H:37:ALA:HB3	2:H:52:ASP:HB3	1.67	0.74
2:X:27:ILE:HG13	2:X:74:LYS:HB2	1.70	0.74
2:D:103:MET:HB3	2:D:106:ALA:HB2	1.69	0.74
3:i:30:TRP:HB3	3:i:37:PRO:HA	1.68	0.74
2:W:27:ILE:HG13	2:W:74:LYS:HB2	1.69	0.74
2:I:298:VAL:HG13	2:I:337:ALA:HB2	1.69	0.74
1:e:92:LYS:HG3	1:e:118:GLY:HA3	1.70	0.74
3:d:118:ALA:HB1	3:d:125:LEU:HD11	1.69	0.74
2:P:298:VAL:HG13	2:P:337:ALA:HB2	1.70	0.74
2:h:298:VAL:HG13	2:h:337:ALA:HB2	1.70	0.74
3:d:30:TRP:HB3	3:d:37:PRO:HA	1.70	0.74
3:j:30:TRP:HB3	3:j:37:PRO:HA	1.69	0.74
2:D:226:LEU:HD22	2:D:229:LEU:HD22	1.70	0.73
2:V:27:ILE:HG13	2:V:74:LYS:HB2	1.68	0.73
2:f:298:VAL:HG13	2:f:337:ALA:HB2	1.70	0.73
4:A:66:PHE:HA	4:A:69:ARG:HD2	1.70	0.73
4:Y:66:PHE:HA	4:Y:69:ARG:HD2	1.71	0.73
1:e:28:SER:HB2	1:e:31:ASN:HB2	1.71	0.73
2:I:257:ILE:HA	2:I:261:TYR:HD2	1.54	0.73
2:b:226:LEU:HD22	2:b:229:LEU:HD22	1.70	0.73
1:m:92:LYS:HG3	1:m:118:GLY:HA3	1.71	0.73
2:P:257:ILE:HA	2:P:261:TYR:HD2	1.54	0.73
2:c:338:LYS:HA	2:b:353:GLU:H	1.52	0.73
2:c:257:ILE:HA	2:c:261:TYR:HD2	1.54	0.72
2:H:226:LEU:HD22	2:H:229:LEU:HD22	1.70	0.72
3:l:118:ALA:HB1	3:l:125:LEU:HD11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N:66:PHE:HA	4:N:69:ARG:HD2	1.71	0.72
2:H:103:MET:HB3	2:H:106:ALA:HB2	1.71	0.72
2:h:257:ILE:HA	2:h:261:TYR:HD2	1.54	0.72
1:o:92:LYS:HG3	1:o:118:GLY:HA3	1.70	0.72
1:B:247:LYS:NZ	1:B:251:PRO:O	2.23	0.72
4:E:66:PHE:HA	4:E:69:ARG:HD2	1.70	0.72
3:j:37:PRO:HD2	4:A:13:ASN:HD21	1.55	0.72
2:V:226:LEU:HD22	2:V:229:LEU:HD22	1.71	0.72
4:A:136:LYS:NZ	4:A:140:LEU:O	2.22	0.72
2:I:338:LYS:HA	2:H:353:GLU:H	1.55	0.72
1:n:28:SER:HB2	1:n:31:ASN:HB2	1.71	0.72
2:f:257:ILE:HA	2:f:261:TYR:HD2	1.54	0.72
2:X:226:LEU:HD22	2:X:229:LEU:HD22	1.71	0.72
1:n:92:LYS:HG3	1:n:118:GLY:HA3	1.70	0.71
1:v:92:LYS:HG3	1:v:118:GLY:HA3	1.71	0.71
3:j:118:ALA:HB1	3:j:125:LEU:HD11	1.71	0.71
2:g:298:VAL:HG13	2:g:337:ALA:HB2	1.70	0.71
4:M:1:MET:N	4:M:24:ASP:OD2	2.23	0.71
1:K:92:LYS:HG3	1:K:118:GLY:HA3	1.71	0.71
4:L:66:PHE:HA	4:L:69:ARG:HD2	1.71	0.71
2:g:257:ILE:HA	2:g:261:TYR:HD2	1.54	0.71
2:g:338:LYS:HA	2:W:353:GLU:H	1.56	0.71
4:N:136:LYS:NZ	4:N:140:LEU:O	2.22	0.71
3:k:30:TRP:HB3	3:k:37:PRO:HA	1.70	0.71
4:E:1:MET:N	4:E:24:ASP:OD2	2.24	0.71
4:Y:1:MET:N	4:Y:24:ASP:OD2	2.23	0.71
4:M:66:PHE:HA	4:M:69:ARG:HD2	1.71	0.71
3:J:118:ALA:HB1	3:J:125:LEU:HD11	1.72	0.71
4:N:1:MET:N	4:N:24:ASP:OD2	2.24	0.71
2:D:27:ILE:HG13	2:D:74:LYS:HB2	1.72	0.71
4:E:136:LYS:NZ	4:E:140:LEU:O	2.22	0.71
2:h:348:ILE:HA	2:U:333:VAL:HB	1.72	0.71
2:W:226:LEU:HD22	2:W:229:LEU:HD22	1.70	0.71
2:C:40:LEU:HA	2:C:78:TYR:HA	1.73	0.71
4:L:1:MET:N	4:L:24:ASP:OD2	2.24	0.71
3:k:118:ALA:HB1	3:k:125:LEU:HD11	1.71	0.71
1:e:226:LYS:O	1:e:229:GLN:NE2	2.24	0.71
2:P:266:THR:O	2:P:271:ASN:ND2	2.23	0.70
1:v:226:LYS:O	1:v:229:GLN:NE2	2.24	0.70
4:A:1:MET:N	4:A:24:ASP:OD2	2.24	0.70
2:f:266:THR:O	2:f:271:ASN:ND2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:208:LYS:HB2	1:F:222:LEU:HB3	1.74	0.70
2:c:298:VAL:HG13	2:c:337:ALA:HB2	1.73	0.70
2:a:40:LEU:HA	2:a:78:TYR:HA	1.74	0.70
3:i:27:GLU:HB3	3:i:47:ILE:HD11	1.74	0.70
2:f:176:LEU:O	2:f:241:LYS:NZ	2.24	0.70
2:f:348:ILE:HA	2:S:333:VAL:HB	1.73	0.70
2:S:40:LEU:HA	2:S:78:TYR:HA	1.74	0.70
1:m:86:VAL:HA	1:m:158:ASN:HA	1.74	0.70
2:g:266:THR:O	2:g:271:ASN:ND2	2.23	0.70
1:K:226:LYS:O	1:K:229:GLN:NE2	2.24	0.70
1:O:247:LYS:NZ	1:O:251:PRO:O	2.25	0.70
2:T:40:LEU:HA	2:T:78:TYR:HA	1.74	0.70
2:I:348:ILE:HA	2:G:333:VAL:HB	1.73	0.70
2:h:338:LYS:HA	2:X:353:GLU:H	1.56	0.70
4:Y:136:LYS:NZ	4:Y:140:LEU:O	2.22	0.70
2:f:338:LYS:HA	2:V:353:GLU:H	1.56	0.70
1:m:226:LYS:O	1:m:229:GLN:NE2	2.24	0.70
2:G:40:LEU:HA	2:G:78:TYR:HA	1.73	0.70
2:P:348:ILE:HA	2:C:333:VAL:HB	1.72	0.70
3:i:118:ALA:HB1	3:i:125:LEU:HD11	1.72	0.70
1:n:226:LYS:O	1:n:229:GLN:NE2	2.24	0.70
3:k:27:GLU:HB3	3:k:47:ILE:HD11	1.74	0.70
3:J:27:GLU:HB3	3:J:47:ILE:HD11	1.74	0.70
2:g:348:ILE:HA	2:T:333:VAL:HB	1.72	0.70
1:R:208:LYS:HB2	1:R:222:LEU:HB3	1.74	0.70
2:b:27:ILE:HG13	2:b:74:LYS:HB2	1.72	0.70
1:v:86:VAL:HA	1:v:158:ASN:HA	1.74	0.69
3:j:27:GLU:HB3	3:j:47:ILE:HD11	1.74	0.69
1:o:226:LYS:O	1:o:229:GLN:NE2	2.24	0.69
1:R:247:LYS:NZ	1:R:251:PRO:O	2.25	0.69
2:H:27:ILE:HG13	2:H:74:LYS:HB2	1.72	0.69
2:H:266:THR:O	2:H:271:ASN:ND2	2.26	0.69
1:Z:208:LYS:HB2	1:Z:222:LEU:HB3	1.74	0.69
2:c:348:ILE:HA	2:a:333:VAL:HB	1.73	0.69
2:D:4:GLY:HA3	2:b:203:VAL:HG11	1.73	0.69
2:S:31:VAL:HG22	2:S:78:TYR:HB3	1.75	0.69
2:T:31:VAL:HG22	2:T:78:TYR:HB3	1.74	0.69
4:M:136:LYS:NZ	4:M:140:LEU:O	2.22	0.69
1:F:247:LYS:NZ	1:F:251:PRO:O	2.25	0.69
2:U:40:LEU:HA	2:U:78:TYR:HA	1.74	0.69
3:l:27:GLU:HB3	3:l:47:ILE:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:208:LYS:HB2	1:Q:222:LEU:HB3	1.74	0.69
2:a:31:VAL:HG22	2:a:78:TYR:HB3	1.74	0.69
2:W:266:THR:O	2:W:271:ASN:ND2	2.26	0.69
1:Z:247:LYS:NZ	1:Z:251:PRO:O	2.25	0.69
2:V:266:THR:O	2:V:271:ASN:ND2	2.26	0.69
2:I:40:LEU:HA	2:I:78:TYR:HA	1.75	0.69
2:I:266:THR:O	2:I:271:ASN:ND2	2.24	0.69
2:h:40:LEU:HA	2:h:78:TYR:HA	1.75	0.69
1:O:208:LYS:HB2	1:O:222:LEU:HB3	1.74	0.69
1:Q:247:LYS:NZ	1:Q:251:PRO:O	2.25	0.69
2:g:40:LEU:HA	2:g:78:TYR:HA	1.75	0.69
2:U:31:VAL:HG22	2:U:78:TYR:HB3	1.75	0.69
2:b:266:THR:O	2:b:271:ASN:ND2	2.26	0.69
2:g:53:LEU:HD13	2:g:61:ILE:HD11	1.75	0.69
2:H:203:VAL:HG11	2:X:4:GLY:HA3	1.73	0.69
1:o:86:VAL:HA	1:o:158:ASN:HA	1.74	0.69
3:d:27:GLU:HB3	3:d:47:ILE:HD11	1.74	0.69
3:i:37:PRO:HD2	4:L:13:ASN:HD21	1.58	0.68
2:h:53:LEU:HD13	2:h:61:ILE:HD11	1.75	0.68
2:V:276:ILE:HD11	2:V:300:ILE:HG12	1.75	0.68
2:X:266:THR:O	2:X:271:ASN:ND2	2.26	0.68
1:B:208:LYS:HB2	1:B:222:LEU:HB3	1.74	0.68
1:B:332:ASN:HB2	1:B:335:LYS:HD2	1.75	0.68
2:P:40:LEU:HA	2:P:78:TYR:HA	1.75	0.68
2:f:53:LEU:HD13	2:f:61:ILE:HD11	1.75	0.68
3:J:37:PRO:HD2	4:E:13:ASN:HD21	1.57	0.68
1:R:299:ILE:HG23	1:R:331:ILE:HD11	1.76	0.68
2:a:345:MET:HE2	3:d:125:LEU:HB2	1.75	0.68
2:f:40:LEU:HA	2:f:78:TYR:HA	1.75	0.68
1:Q:299:ILE:HG23	1:Q:331:ILE:HD11	1.75	0.68
1:Q:332:ASN:HB2	1:Q:335:LYS:HD2	1.76	0.68
2:h:176:LEU:O	2:h:241:LYS:NZ	2.24	0.68
2:h:213:GLU:HB3	2:h:218:ARG:HD2	1.75	0.68
2:c:40:LEU:HA	2:c:78:TYR:HA	1.76	0.68
2:P:176:LEU:O	2:P:241:LYS:NZ	2.25	0.68
2:C:31:VAL:HG22	2:C:78:TYR:HB3	1.75	0.68
2:C:345:MET:HE2	3:j:125:LEU:HB2	1.75	0.68
2:D:15:LEU:HD11	2:b:353:GLU:HB3	1.74	0.68
3:l:37:PRO:HD2	4:N:13:ASN:HD21	1.59	0.68
2:D:40:LEU:HA	2:D:78:TYR:HA	1.76	0.68
2:V:353:GLU:HB3	2:W:15:LEU:HD11	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:86:VAL:HA	1:n:158:ASN:HA	1.75	0.68
2:W:276:ILE:HD11	2:W:300:ILE:HG12	1.76	0.68
1:K:86:VAL:HA	1:K:158:ASN:HA	1.75	0.68
1:B:299:ILE:HG23	1:B:331:ILE:HD11	1.76	0.68
2:D:266:THR:O	2:D:271:ASN:ND2	2.26	0.67
1:F:332:ASN:HB2	1:F:335:LYS:HD2	1.76	0.67
2:G:345:MET:HE2	3:J:125:LEU:HB2	1.75	0.67
2:H:276:ILE:HD11	2:H:300:ILE:HG12	1.76	0.67
1:Z:332:ASN:HB2	1:Z:335:LYS:HD2	1.77	0.67
2:P:136:VAL:HG12	2:P:138:GLY:H	1.59	0.67
1:O:332:ASN:HB2	1:O:335:LYS:HD2	1.75	0.67
1:F:206:ASN:ND2	1:F:228:ASN:OD1	2.27	0.67
2:X:166:ARG:NH1	2:X:166:ARG:O	2.28	0.67
4:Y:136:LYS:HE2	4:Y:142:HIS:HB3	1.77	0.67
1:v:237:GLU:O	1:v:241:GLN:NE2	2.28	0.67
1:F:299:ILE:HG23	1:F:331:ILE:HD11	1.76	0.67
2:I:136:VAL:HG12	2:I:138:GLY:H	1.59	0.67
2:I:213:GLU:HB3	2:I:218:ARG:HD2	1.76	0.67
3:d:37:PRO:HD2	4:Y:13:ASN:HD21	1.59	0.67
1:m:237:GLU:O	1:m:241:GLN:NE2	2.28	0.67
3:k:37:PRO:HD2	4:M:13:ASN:HD21	1.60	0.67
2:W:103:MET:HB3	2:W:106:ALA:HB2	1.77	0.67
2:b:40:LEU:HA	2:b:78:TYR:HA	1.76	0.67
4:L:136:LYS:NZ	4:L:140:LEU:O	2.23	0.67
1:m:116:THR:HB	1:m:119:SER:HB3	1.77	0.67
1:R:332:ASN:HB2	1:R:335:LYS:HD2	1.75	0.67
1:B:206:ASN:ND2	1:B:228:ASN:OD1	2.27	0.67
2:D:125:ASP:O	2:D:254:ARG:NH1	2.28	0.67
2:D:276:ILE:HD11	2:D:300:ILE:HG12	1.76	0.67
2:V:125:ASP:O	2:V:254:ARG:NH1	2.28	0.67
2:G:31:VAL:HG22	2:G:78:TYR:HB3	1.75	0.67
2:H:40:LEU:HA	2:H:78:TYR:HA	1.76	0.67
2:U:345:MET:HE2	3:l:125:LEU:HB2	1.76	0.67
1:o:116:THR:HB	1:o:119:SER:HB3	1.77	0.67
2:P:53:LEU:HD13	2:P:61:ILE:HD11	1.76	0.67
1:n:116:THR:HB	1:n:119:SER:HB3	1.77	0.67
2:W:125:ASP:O	2:W:254:ARG:NH1	2.28	0.67
2:X:276:ILE:HD11	2:X:300:ILE:HG12	1.75	0.67
2:S:345:MET:HE2	3:i:125:LEU:HB2	1.76	0.67
2:H:125:ASP:O	2:H:254:ARG:NH1	2.28	0.67
2:c:53:LEU:HD13	2:c:61:ILE:HD11	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:86:VAL:HA	1:e:158:ASN:HA	1.75	0.67
1:m:68:ARG:NH1	1:m:71:GLU:OE1	2.29	0.66
2:V:166:ARG:NH1	2:V:166:ARG:O	2.28	0.66
2:h:333:VAL:HB	2:X:348:ILE:HA	1.77	0.66
2:c:136:VAL:HG12	2:c:138:GLY:H	1.59	0.66
2:I:53:LEU:HD13	2:I:61:ILE:HD11	1.76	0.66
1:R:206:ASN:ND2	1:R:228:ASN:OD1	2.28	0.66
2:c:213:GLU:HB3	2:c:218:ARG:HD2	1.76	0.66
1:e:116:THR:HB	1:e:119:SER:HB3	1.77	0.66
2:b:125:ASP:O	2:b:254:ARG:NH1	2.28	0.66
2:b:166:ARG:NH1	2:b:166:ARG:O	2.28	0.66
1:v:116:THR:HB	1:v:119:SER:HB3	1.77	0.66
2:g:136:VAL:HG12	2:g:138:GLY:H	1.59	0.66
2:W:166:ARG:NH1	2:W:166:ARG:O	2.28	0.66
1:O:206:ASN:ND2	1:O:228:ASN:OD1	2.28	0.66
2:V:176:LEU:O	2:V:241:LYS:NZ	2.29	0.66
1:Q:206:ASN:ND2	1:Q:228:ASN:OD1	2.28	0.66
2:T:345:MET:HE2	3:k:125:LEU:HB2	1.76	0.66
1:K:208:LYS:NZ	1:K:209:VAL:O	2.29	0.66
1:Z:206:ASN:ND2	1:Z:228:ASN:OD1	2.28	0.66
1:O:299:ILE:HG23	1:O:331:ILE:HD11	1.77	0.66
2:f:213:GLU:HB3	2:f:218:ARG:HD2	1.75	0.66
2:W:40:LEU:HA	2:W:78:TYR:HA	1.78	0.66
3:l:26:ARG:HD3	3:l:46:ILE:HD12	1.78	0.66
2:c:176:LEU:O	2:c:241:LYS:NZ	2.24	0.66
2:P:213:GLU:HB3	2:P:218:ARG:HD2	1.76	0.66
4:A:136:LYS:HE2	4:A:142:HIS:HB3	1.77	0.66
1:n:237:GLU:O	1:n:241:GLN:NE2	2.28	0.66
2:I:176:LEU:O	2:I:241:LYS:NZ	2.25	0.66
2:U:150:ASP:OD1	2:U:157:LYS:NZ	2.29	0.66
4:N:136:LYS:HE2	4:N:142:HIS:HB3	1.77	0.66
2:P:338:LYS:HA	2:D:353:GLU:H	1.60	0.66
2:H:166:ARG:NH1	2:H:166:ARG:O	2.28	0.66
2:h:266:THR:O	2:h:271:ASN:ND2	2.22	0.66
1:e:237:GLU:O	1:e:241:GLN:NE2	2.28	0.66
2:b:60:TYR:CZ	2:b:104:PRO:HB3	2.31	0.66
1:B:11:LYS:HB2	1:B:38:ASN:ND2	2.11	0.66
2:S:150:ASP:OD1	2:S:157:LYS:NZ	2.29	0.66
3:i:26:ARG:HD3	3:i:46:ILE:HD12	1.76	0.66
2:H:353:GLU:HB3	2:X:15:LEU:HD11	1.76	0.66
2:c:333:VAL:HB	2:b:348:ILE:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:276:ILE:HD11	2:b:300:ILE:HG12	1.76	0.66
1:O:11:LYS:HB2	1:O:38:ASN:ND2	2.11	0.66
2:V:40:LEU:HA	2:V:78:TYR:HA	1.76	0.66
2:V:103:MET:HB3	2:V:106:ALA:HB2	1.78	0.66
1:n:68:ARG:NH1	1:n:71:GLU:OE1	2.29	0.66
4:M:136:LYS:HE2	4:M:142:HIS:HB3	1.76	0.66
2:g:213:GLU:HB3	2:g:218:ARG:HD2	1.76	0.66
2:W:176:LEU:O	2:W:241:LYS:NZ	2.28	0.66
2:W:353:GLU:HB3	2:H:15:LEU:HD11	1.78	0.66
1:K:116:THR:HB	1:K:119:SER:HB3	1.77	0.66
1:K:237:GLU:O	1:K:241:GLN:NE2	2.28	0.66
1:o:237:GLU:O	1:o:241:GLN:NE2	2.28	0.66
2:X:176:LEU:O	2:X:241:LYS:NZ	2.29	0.66
2:V:352:ILE:HG13	2:W:12:PHE:HB3	1.78	0.65
1:R:11:LYS:HB2	1:R:38:ASN:ND2	2.11	0.65
1:e:68:ARG:NH1	1:e:71:GLU:OE1	2.29	0.65
2:W:46:LYS:HD3	2:W:65:LEU:HD22	1.78	0.65
1:B:57:ILE:HG21	1:B:65:LEU:HB2	1.77	0.65
2:D:166:ARG:NH1	2:D:166:ARG:O	2.28	0.65
2:D:176:LEU:O	2:D:241:LYS:NZ	2.29	0.65
1:O:57:ILE:HG21	1:O:65:LEU:HB2	1.77	0.65
2:I:150:ASP:HA	2:I:157:LYS:HE2	1.78	0.65
1:o:68:ARG:NH1	1:o:71:GLU:OE1	2.29	0.65
1:Z:299:ILE:HG23	1:Z:331:ILE:HD11	1.78	0.65
2:f:136:VAL:HG12	2:f:138:GLY:H	1.62	0.65
2:V:203:VAL:HG11	2:W:4:GLY:HA3	1.79	0.65
4:L:136:LYS:HE2	4:L:142:HIS:HB3	1.77	0.65
2:I:232:GLU:HB3	2:X:16:ALA:HB2	1.78	0.65
1:v:208:LYS:NZ	1:v:209:VAL:O	2.29	0.65
1:F:11:LYS:HB2	1:F:38:ASN:ND2	2.11	0.65
4:E:136:LYS:HE2	4:E:142:HIS:HB3	1.77	0.65
2:X:103:MET:HB3	2:X:106:ALA:HB2	1.77	0.65
2:X:125:ASP:O	2:X:254:ARG:NH1	2.28	0.65
1:Z:57:ILE:HG21	1:Z:65:LEU:HB2	1.78	0.65
2:c:266:THR:O	2:c:271:ASN:ND2	2.23	0.65
1:v:68:ARG:NH1	1:v:71:GLU:OE1	2.30	0.65
3:J:26:ARG:HD3	3:J:46:ILE:HD12	1.78	0.65
2:H:176:LEU:O	2:H:241:LYS:NZ	2.28	0.65
2:g:176:LEU:O	2:g:241:LYS:NZ	2.25	0.65
1:K:68:ARG:NH1	1:K:71:GLU:OE1	2.29	0.65
1:Q:11:LYS:HB2	1:Q:38:ASN:ND2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:200:GLU:HA	2:U:6:PRO:HG3	1.79	0.65
2:h:150:ASP:HA	2:h:157:LYS:HE2	1.78	0.65
1:Q:57:ILE:HG21	1:Q:65:LEU:HB2	1.78	0.65
1:Q:276:THR:HG22	1:Q:277:LEU:N	2.12	0.65
2:P:150:ASP:HA	2:P:157:LYS:HE2	1.78	0.65
2:D:60:TYR:CZ	2:D:104:PRO:HB3	2.32	0.65
1:F:276:THR:HG22	1:F:277:LEU:N	2.12	0.65
1:R:57:ILE:HG21	1:R:65:LEU:HB2	1.77	0.65
1:R:268:VAL:HG23	1:R:319:ASN:HD21	1.62	0.65
1:m:208:LYS:NZ	1:m:209:VAL:O	2.29	0.64
2:g:150:ASP:HA	2:g:157:LYS:HE2	1.78	0.64
2:H:21:GLU:O	2:H:255:LYS:NZ	2.30	0.64
2:h:136:VAL:HG12	2:h:138:GLY:H	1.62	0.64
2:D:21:GLU:O	2:D:255:LYS:NZ	2.30	0.64
1:O:276:THR:HG22	1:O:277:LEU:N	2.12	0.64
2:V:136:VAL:HG12	2:V:138:GLY:H	1.62	0.64
2:H:136:VAL:HG12	2:H:138:GLY:H	1.62	0.64
1:Z:266:SER:HA	1:Z:343:ASN:HB3	1.78	0.64
2:b:46:LYS:HD3	2:b:65:LEU:HD22	1.79	0.64
4:A:44:ASP:O	4:A:70:ARG:NH1	2.31	0.64
1:O:266:SER:HA	1:O:343:ASN:HB3	1.80	0.64
2:b:176:LEU:O	2:b:241:LYS:NZ	2.29	0.64
2:D:63:LEU:HD23	2:D:166:ARG:HB2	1.80	0.64
2:D:136:VAL:HG12	2:D:138:GLY:H	1.62	0.64
2:W:21:GLU:O	2:W:255:LYS:NZ	2.30	0.64
1:Z:11:LYS:HB2	1:Z:38:ASN:ND2	2.11	0.64
2:H:46:LYS:HD3	2:H:65:LEU:HD22	1.78	0.64
2:H:352:ILE:HG13	2:X:12:PHE:HB3	1.80	0.64
1:R:276:THR:HG22	1:R:277:LEU:N	2.12	0.64
2:X:21:GLU:O	2:X:255:LYS:NZ	2.30	0.64
2:X:353:GLU:HB3	2:b:15:LEU:HD11	1.79	0.64
2:c:266:THR:HA	2:b:344:ALA:HA	1.80	0.64
1:e:15:LEU:HD23	1:e:24:LYS:HD3	1.80	0.64
3:d:26:ARG:HD3	3:d:46:ILE:HD12	1.80	0.64
3:j:26:ARG:HD3	3:j:46:ILE:HD12	1.79	0.64
2:f:266:THR:HA	2:V:344:ALA:HA	1.80	0.64
1:o:208:LYS:NZ	1:o:209:VAL:O	2.29	0.64
2:b:21:GLU:O	2:b:255:LYS:NZ	2.30	0.64
2:f:241:LYS:HE2	2:f:344:ALA:HB2	1.80	0.64
1:F:268:VAL:HG23	1:F:319:ASN:HD21	1.62	0.64
2:I:333:VAL:HB	2:H:348:ILE:HA	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:201:VAL:HG21	1:B:239:CYS:HA	1.79	0.64
1:B:276:THR:HG22	1:B:277:LEU:N	2.12	0.64
2:P:153:VAL:HA	2:P:188:VAL:HA	1.80	0.64
2:V:21:GLU:O	2:V:255:LYS:NZ	2.29	0.64
4:N:44:ASP:O	4:N:70:ARG:NH1	2.31	0.64
1:m:191:LYS:HZ1	1:m:209:VAL:H	1.45	0.64
2:W:136:VAL:HG12	2:W:138:GLY:H	1.63	0.64
1:B:266:SER:HA	1:B:343:ASN:HB3	1.80	0.63
2:P:266:THR:HA	2:D:344:ALA:HA	1.80	0.63
2:D:46:LYS:HD3	2:D:65:LEU:HD22	1.79	0.63
2:f:150:ASP:HA	2:f:157:LYS:HE2	1.78	0.63
2:g:266:THR:HA	2:W:344:ALA:HA	1.80	0.63
2:I:153:VAL:HA	2:I:188:VAL:HA	1.80	0.63
2:c:150:ASP:HA	2:c:157:LYS:HE2	1.79	0.63
1:F:11:LYS:HD2	1:F:34:VAL:HG12	1.80	0.63
2:U:122:ARG:HD3	2:U:140:HIS:HE1	1.64	0.63
2:X:46:LYS:HD3	2:X:65:LEU:HD22	1.79	0.63
2:X:63:LEU:HD23	2:X:166:ARG:HB2	1.80	0.63
2:X:136:VAL:HG12	2:X:138:GLY:H	1.63	0.63
2:a:103:MET:HB3	2:a:106:ALA:HB2	1.81	0.63
1:e:191:LYS:HZ1	1:e:209:VAL:H	1.46	0.63
2:P:333:VAL:HB	2:D:348:ILE:HA	1.79	0.63
1:O:268:VAL:HG23	1:O:319:ASN:HD21	1.62	0.63
4:L:44:ASP:O	4:L:70:ARG:NH1	2.31	0.63
2:W:202:ARG:HA	2:W:205:LYS:HD2	1.81	0.63
2:H:63:LEU:HD23	2:H:166:ARG:HB2	1.80	0.63
2:U:309:LEU:HD11	2:U:324:ILE:HG23	1.80	0.63
2:X:40:LEU:HA	2:X:78:TYR:HA	1.78	0.63
1:Z:268:VAL:HG23	1:Z:319:ASN:HD21	1.63	0.63
1:Z:276:THR:HG22	1:Z:277:LEU:N	2.12	0.63
1:e:208:LYS:NZ	1:e:209:VAL:O	2.29	0.63
2:V:46:LYS:HD3	2:V:65:LEU:HD22	1.79	0.63
2:V:202:ARG:HA	2:V:205:LYS:HD2	1.81	0.63
4:M:44:ASP:O	4:M:70:ARG:NH1	2.32	0.63
2:h:241:LYS:HE2	2:h:344:ALA:HB2	1.80	0.63
2:c:241:LYS:HE2	2:c:344:ALA:HB2	1.81	0.63
2:D:32:LEU:HD13	2:D:104:PRO:HG2	1.81	0.63
2:V:63:LEU:HD23	2:V:166:ARG:HB2	1.80	0.63
1:Q:268:VAL:HG23	1:Q:319:ASN:HD21	1.62	0.63
2:W:309:LEU:HD12	2:W:314:VAL:HB	1.81	0.63
2:X:202:ARG:HA	2:X:205:LYS:HD2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:153:VAL:HA	2:f:188:VAL:HA	1.81	0.63
3:k:26:ARG:HD3	3:k:46:ILE:HD12	1.80	0.63
2:H:202:ARG:HA	2:H:205:LYS:HD2	1.81	0.63
4:E:44:ASP:O	4:E:70:ARG:NH1	2.31	0.63
2:a:309:LEU:HD11	2:a:324:ILE:HG23	1.80	0.63
2:b:136:VAL:HG12	2:b:138:GLY:H	1.63	0.63
2:D:10:ILE:HD11	2:b:350:LEU:HB3	1.80	0.63
1:O:11:LYS:HD2	1:O:34:VAL:HG12	1.81	0.63
2:f:333:VAL:HB	2:V:348:ILE:HA	1.79	0.63
2:c:63:LEU:HA	2:c:66:MET:HE3	1.81	0.63
2:a:122:ARG:HD3	2:a:140:HIS:HE1	1.64	0.63
2:b:63:LEU:HD23	2:b:166:ARG:HB2	1.80	0.63
4:Y:44:ASP:O	4:Y:70:ARG:NH1	2.32	0.63
1:B:268:VAL:HG23	1:B:319:ASN:HD21	1.62	0.63
2:D:202:ARG:HA	2:D:205:LYS:HD2	1.81	0.63
2:S:122:ARG:HD3	2:S:140:HIS:HE1	1.64	0.63
2:g:232:GLU:HB3	2:H:16:ALA:HB2	1.81	0.63
2:g:241:LYS:HE2	2:g:344:ALA:HB2	1.81	0.63
2:I:266:THR:HA	2:H:344:ALA:HA	1.81	0.63
2:G:122:ARG:HD3	2:G:140:HIS:HE1	1.64	0.63
2:C:122:ARG:HD3	2:C:140:HIS:HE1	1.64	0.62
2:T:103:MET:HB3	2:T:106:ALA:HB2	1.81	0.62
4:M:105:TYR:HB2	4:M:108:GLU:HB2	1.81	0.62
1:o:191:LYS:HZ1	1:o:209:VAL:H	1.46	0.62
1:Z:11:LYS:HD2	1:Z:34:VAL:HG12	1.81	0.62
2:f:232:GLU:HB3	2:W:16:ALA:HB2	1.80	0.62
1:Q:11:LYS:HD2	1:Q:34:VAL:HG12	1.81	0.62
2:g:333:VAL:HB	2:W:348:ILE:HA	1.80	0.62
2:G:103:MET:HB3	2:G:106:ALA:HB2	1.81	0.62
1:R:11:LYS:HD2	1:R:34:VAL:HG12	1.81	0.62
1:B:11:LYS:HD2	1:B:34:VAL:HG12	1.80	0.62
2:P:241:LYS:HE2	2:P:344:ALA:HB2	1.81	0.62
1:v:191:LYS:HZ1	1:v:209:VAL:H	1.47	0.62
2:D:12:PHE:HB3	2:b:352:ILE:HG13	1.82	0.62
1:O:244:ASP:HA	1:O:247:LYS:HG2	1.81	0.62
2:T:202:ARG:HA	2:T:205:LYS:HD2	1.81	0.62
1:R:266:SER:HA	1:R:343:ASN:HB3	1.80	0.62
2:h:63:LEU:HA	2:h:66:MET:HE3	1.81	0.62
2:h:153:VAL:HA	2:h:188:VAL:HA	1.81	0.62
2:C:309:LEU:HD11	2:C:324:ILE:HG23	1.81	0.62
1:Q:26:GLU:HA	1:Q:31:ASN:HD22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:309:LEU:HD11	2:T:324:ILE:HG23	1.80	0.62
3:l:65:ARG:NH1	3:l:68:HIS:O	2.33	0.62
1:Q:266:SER:HA	1:Q:343:ASN:HB3	1.80	0.62
2:T:122:ARG:HD3	2:T:140:HIS:HE1	1.64	0.62
1:o:210:TYR:HB2	1:o:220:LYS:HB3	1.82	0.62
2:b:32:LEU:HD13	2:b:104:PRO:HG2	1.81	0.62
2:b:202:ARG:HA	2:b:205:LYS:HD2	1.81	0.62
2:V:29:ALA:HA	2:V:76:LEU:HB2	1.81	0.62
3:J:65:ARG:NH1	3:J:68:HIS:O	2.33	0.62
2:h:266:THR:HA	2:X:344:ALA:HA	1.82	0.62
1:Q:185:GLN:O	4:M:134:ARG:NH2	2.32	0.62
1:n:208:LYS:NZ	1:n:209:VAL:O	2.29	0.62
2:W:63:LEU:HD23	2:W:166:ARG:HB2	1.80	0.62
1:R:244:ASP:HA	1:R:247:LYS:HG2	1.81	0.62
2:h:232:GLU:HB3	2:b:16:ALA:HB2	1.80	0.62
2:P:350:LEU:HB3	2:f:10:ILE:HG23	1.82	0.62
1:n:15:LEU:HD23	1:n:24:LYS:HD3	1.80	0.62
4:M:89:LYS:NZ	4:M:100:THR:O	2.33	0.62
2:G:309:LEU:HD11	2:G:324:ILE:HG23	1.81	0.62
1:R:185:GLN:O	4:N:134:ARG:NH2	2.33	0.62
4:A:116:ILE:HA	4:A:147:ILE:HB	1.81	0.62
1:m:298:GLU:HB3	1:m:330:THR:HA	1.81	0.62
1:F:244:ASP:HA	1:F:247:LYS:HG2	1.81	0.62
2:I:241:LYS:HE2	2:I:344:ALA:HB2	1.81	0.62
4:E:105:TYR:HB2	4:E:108:GLU:HB2	1.82	0.62
2:U:103:MET:HB3	2:U:106:ALA:HB2	1.80	0.62
2:f:63:LEU:HA	2:f:66:MET:HE3	1.81	0.62
1:F:57:ILE:HG21	1:F:65:LEU:HB2	1.82	0.62
1:F:266:SER:HA	1:F:343:ASN:HB3	1.80	0.62
1:K:261:ILE:O	1:K:338:SER:N	2.33	0.62
2:P:10:ILE:HG23	2:c:350:LEU:HB3	1.82	0.61
2:V:60:TYR:CZ	2:V:104:PRO:HB3	2.35	0.61
2:g:350:LEU:HB3	2:I:10:ILE:HG23	1.82	0.61
1:F:26:GLU:HA	1:F:31:ASN:HD22	1.65	0.61
2:I:350:LEU:HB3	2:h:10:ILE:HG23	1.82	0.61
1:e:76:ARG:NH1	1:e:77:LYS:O	2.33	0.61
2:D:53:LEU:HD13	2:D:61:ILE:HD11	1.83	0.61
3:i:65:ARG:NH1	3:i:68:HIS:O	2.32	0.61
1:n:1:MET:SD	1:n:2:TYR:N	2.73	0.61
1:R:26:GLU:HA	1:R:31:ASN:HD22	1.65	0.61
2:X:309:LEU:HD12	2:X:314:VAL:HB	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:53:LEU:HD13	2:b:61:ILE:HD11	1.82	0.61
1:B:26:GLU:HA	1:B:31:ASN:HD22	1.66	0.61
2:S:309:LEU:HD11	2:S:324:ILE:HG23	1.80	0.61
1:n:261:ILE:O	1:n:338:SER:N	2.33	0.61
3:k:30:TRP:HA	3:k:38:ILE:HG22	1.82	0.61
1:K:298:GLU:HB3	1:K:330:THR:HA	1.81	0.61
1:o:261:ILE:O	1:o:338:SER:N	2.33	0.61
2:S:191:ILE:HD11	2:S:212:LYS:HB2	1.83	0.61
2:V:309:LEU:HD12	2:V:314:VAL:HB	1.82	0.61
1:F:216:PRO:HA	4:E:141:LEU:HD22	1.83	0.61
1:K:1:MET:SD	1:K:2:TYR:N	2.73	0.61
1:K:210:TYR:HB2	1:K:220:LYS:HB3	1.82	0.61
1:o:1:MET:SD	1:o:2:TYR:N	2.73	0.61
1:Z:216:PRO:HA	4:Y:141:LEU:HD22	1.83	0.61
2:c:153:VAL:HA	2:c:188:VAL:HA	1.82	0.61
4:Y:105:TYR:HB2	4:Y:108:GLU:HB2	1.81	0.61
2:C:103:MET:HB3	2:C:106:ALA:HB2	1.82	0.61
1:O:26:GLU:HA	1:O:31:ASN:HD22	1.64	0.61
2:g:63:LEU:HA	2:g:66:MET:HE3	1.81	0.61
1:n:76:ARG:NH1	1:n:77:LYS:O	2.33	0.61
2:W:29:ALA:HA	2:W:76:LEU:HB2	1.82	0.61
1:K:76:ARG:NH1	1:K:77:LYS:O	2.33	0.61
1:B:216:PRO:HA	4:A:141:LEU:HD22	1.83	0.61
4:L:105:TYR:HB2	4:L:108:GLU:HB2	1.82	0.61
4:L:116:ILE:HA	4:L:147:ILE:HB	1.83	0.61
1:e:210:TYR:HB2	1:e:220:LYS:HB3	1.83	0.61
4:A:105:TYR:HB2	4:A:108:GLU:HB2	1.82	0.61
2:S:103:MET:HB3	2:S:106:ALA:HB2	1.80	0.61
1:m:1:MET:SD	1:m:2:TYR:N	2.73	0.61
1:Q:216:PRO:HA	4:M:141:LEU:HD22	1.83	0.61
1:Q:244:ASP:HA	1:Q:247:LYS:HG2	1.81	0.61
2:g:337:ALA:HB3	2:W:352:ILE:HG22	1.82	0.61
1:F:201:VAL:HG21	1:F:239:CYS:HA	1.83	0.61
2:G:191:ILE:HD11	2:G:212:LYS:HB2	1.83	0.61
2:H:29:ALA:HA	2:H:76:LEU:HB2	1.83	0.61
1:Z:26:GLU:HA	1:Z:31:ASN:HD22	1.64	0.61
1:Z:244:ASP:HA	1:Z:247:LYS:HG2	1.81	0.61
4:Y:89:LYS:NZ	4:Y:100:THR:O	2.32	0.61
2:C:235:GLU:HG3	3:j:122:ARG:HH21	1.66	0.61
3:l:30:TRP:HA	3:l:38:ILE:HG22	1.83	0.61
3:d:30:TRP:HA	3:d:38:ILE:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:j:65:ARG:NH1	3:j:68:HIS:O	2.33	0.61
1:O:201:VAL:HG21	1:O:239:CYS:HA	1.83	0.61
1:m:210:TYR:HB2	1:m:220:LYS:HB3	1.82	0.61
1:m:261:ILE:O	1:m:338:SER:N	2.33	0.61
2:g:80:ILE:HG21	2:g:88:THR:HG21	1.83	0.61
2:I:337:ALA:HB3	2:H:352:ILE:HG22	1.83	0.61
2:G:235:GLU:HG3	3:J:122:ARG:HH21	1.66	0.61
1:o:76:ARG:NH1	1:o:77:LYS:O	2.34	0.61
1:Z:185:GLN:O	4:Y:134:ARG:NH2	2.34	0.61
1:e:1:MET:SD	1:e:2:TYR:N	2.73	0.61
2:b:29:ALA:HA	2:b:76:LEU:HB2	1.82	0.61
2:b:309:LEU:HD12	2:b:314:VAL:HB	1.81	0.61
4:Y:116:ILE:HA	4:Y:147:ILE:HB	1.82	0.61
1:B:243:ILE:O	1:B:247:LYS:N	2.33	0.61
1:v:76:ARG:NH1	1:v:77:LYS:O	2.33	0.61
1:O:185:GLN:O	4:L:134:ARG:NH2	2.33	0.61
2:W:60:TYR:CZ	2:W:104:PRO:HB3	2.35	0.61
2:G:181:THR:O	3:J:86:LYS:NZ	2.34	0.61
2:G:136:VAL:HG12	2:G:138:GLY:H	1.66	0.60
1:K:270:LYS:N	1:K:316:ASP:O	2.31	0.60
2:H:309:LEU:HD12	2:H:314:VAL:HB	1.82	0.60
1:R:201:VAL:HG21	1:R:239:CYS:HA	1.83	0.60
2:h:350:LEU:HB3	2:c:10:ILE:HG23	1.81	0.60
4:N:105:TYR:HB2	4:N:108:GLU:HB2	1.82	0.60
2:a:136:VAL:HG12	2:a:138:GLY:H	1.66	0.60
2:C:202:ARG:HA	2:C:205:LYS:HD2	1.82	0.60
1:v:210:TYR:HB2	1:v:220:LYS:HB3	1.82	0.60
2:S:202:ARG:HA	2:S:205:LYS:HD2	1.83	0.60
2:S:235:GLU:HG3	3:i:122:ARG:HH21	1.65	0.60
1:n:191:LYS:HZ1	1:n:209:VAL:H	1.46	0.60
1:K:191:LYS:HZ1	1:K:209:VAL:H	1.47	0.60
1:v:270:LYS:N	1:v:316:ASP:O	2.33	0.60
2:f:350:LEU:HB3	2:g:10:ILE:HG23	1.82	0.60
4:M:116:ILE:HA	4:M:147:ILE:HB	1.82	0.60
1:F:113:LYS:NZ	1:F:124:ASN:O	2.34	0.60
2:U:191:ILE:HD11	2:U:212:LYS:HB2	1.83	0.60
1:e:86:VAL:HG12	1:e:158:ASN:HB3	1.83	0.60
1:B:185:GLN:O	4:A:134:ARG:NH2	2.34	0.60
1:B:244:ASP:HA	1:B:247:LYS:HG2	1.82	0.60
1:B:261:ILE:N	1:B:336:ILE:O	2.33	0.60
2:D:16:ALA:HB2	2:c:232:GLU:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:30:MET:HE1	2:G:32:LEU:HD23	1.84	0.60
2:G:202:ARG:HA	2:G:205:LYS:HD2	1.82	0.60
1:R:216:PRO:HA	4:N:141:LEU:HD22	1.83	0.60
2:h:337:ALA:HB3	2:X:352:ILE:HG22	1.82	0.60
2:U:299:GLU:O	2:U:336:LYS:N	2.33	0.60
1:O:216:PRO:HA	4:L:141:LEU:HD22	1.83	0.60
1:n:298:GLU:HB3	1:n:330:THR:HA	1.83	0.60
1:F:185:GLN:O	4:E:134:ARG:NH2	2.35	0.60
2:I:353:GLU:HA	2:h:15:LEU:HD13	1.84	0.60
2:C:6:PRO:HG3	2:a:200:GLU:HG3	1.84	0.60
1:O:213:TRP:CG	1:O:220:LYS:HB2	2.36	0.60
1:n:210:TYR:HB2	1:n:220:LYS:HB3	1.83	0.60
2:c:353:GLU:HB2	2:a:338:LYS:HG2	1.84	0.60
1:e:261:ILE:O	1:e:338:SER:N	2.33	0.60
1:B:113:LYS:NZ	1:B:124:ASN:O	2.34	0.60
2:P:15:LEU:HD13	2:c:353:GLU:HA	1.84	0.60
2:P:184:LYS:HA	2:P:218:ARG:HG2	1.84	0.60
2:P:353:GLU:HA	2:f:15:LEU:HD13	1.84	0.60
2:C:191:ILE:HD11	2:C:212:LYS:HB2	1.83	0.60
1:v:298:GLU:HB3	1:v:330:THR:HA	1.83	0.60
2:T:136:VAL:HG12	2:T:138:GLY:H	1.66	0.60
1:n:206:ASN:HB3	1:n:224:PHE:HB2	1.83	0.60
2:h:353:GLU:HB2	2:U:338:LYS:HG2	1.84	0.60
1:Z:76:ARG:NH2	1:Z:171:ASP:OD1	2.35	0.60
1:e:298:GLU:HB3	1:e:330:THR:HA	1.81	0.60
1:B:213:TRP:CG	1:B:220:LYS:HB2	2.36	0.60
1:m:76:ARG:NH1	1:m:77:LYS:O	2.34	0.60
2:T:191:ILE:HD11	2:T:212:LYS:HB2	1.84	0.60
3:k:65:ARG:NH1	3:k:68:HIS:O	2.33	0.60
2:I:40:LEU:HD22	2:I:92:PHE:HE2	1.67	0.60
2:I:353:GLU:HB2	2:G:338:LYS:HG2	1.84	0.60
1:K:206:ASN:HB3	1:K:224:PHE:HB2	1.84	0.60
4:E:116:ILE:HA	4:E:147:ILE:HB	1.81	0.60
1:v:206:ASN:HB3	1:v:224:PHE:HB2	1.84	0.60
1:v:261:ILE:O	1:v:338:SER:N	2.33	0.60
2:S:176:LEU:O	2:S:241:LYS:NZ	2.29	0.60
2:S:200:GLU:HA	2:T:6:PRO:HG3	1.84	0.60
1:m:206:ASN:HB3	1:m:224:PHE:HB2	1.84	0.60
1:Q:201:VAL:HG21	1:Q:239:CYS:HA	1.84	0.60
2:H:60:TYR:CZ	2:H:104:PRO:HB3	2.37	0.60
1:Z:213:TRP:CG	1:Z:220:LYS:HB2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:65:ARG:NH1	3:d:68:HIS:O	2.33	0.60
1:B:33:MET:HA	1:v:18:ILE:HG12	1.83	0.60
2:S:30:MET:HE1	2:S:32:LEU:HD23	1.84	0.60
1:m:270:LYS:N	1:m:316:ASP:O	2.31	0.60
3:k:114:ASN:O	3:k:130:LYS:N	2.35	0.60
1:o:298:GLU:HB3	1:o:330:THR:HA	1.83	0.60
1:e:206:ASN:HB3	1:e:224:PHE:HB2	1.83	0.60
3:j:114:ASN:O	3:j:130:LYS:N	2.34	0.59
2:D:309:LEU:HD12	2:D:314:VAL:HB	1.82	0.59
2:f:40:LEU:HD22	2:f:92:PHE:HE2	1.67	0.59
4:L:4:ILE:HA	4:L:7:LEU:HD12	1.84	0.59
2:g:40:LEU:HD22	2:g:92:PHE:HE2	1.67	0.59
2:U:136:VAL:HG12	2:U:138:GLY:H	1.67	0.59
1:o:206:ASN:HB3	1:o:224:PHE:HB2	1.84	0.59
2:X:46:LYS:HD2	2:X:71:THR:HG21	1.84	0.59
2:a:181:THR:O	3:d:86:LYS:NZ	2.35	0.59
2:P:353:GLU:HB2	2:C:338:LYS:HG2	1.84	0.59
1:R:213:TRP:CG	1:R:220:LYS:HB2	2.36	0.59
2:U:235:GLU:HG3	3:l:122:ARG:HH21	1.66	0.59
2:X:29:ALA:HA	2:X:76:LEU:HB2	1.83	0.59
4:N:4:ILE:HA	4:N:7:LEU:HD12	1.85	0.59
3:d:114:ASN:O	3:d:130:LYS:N	2.35	0.59
2:C:30:MET:HE1	2:C:32:LEU:HD23	1.84	0.59
2:C:136:VAL:HG12	2:C:138:GLY:H	1.66	0.59
1:v:1:MET:SD	1:v:2:TYR:N	2.74	0.59
2:f:184:LYS:HA	2:f:218:ARG:HG2	1.85	0.59
2:f:202:ARG:HA	2:f:205:LYS:HD2	1.84	0.59
1:F:213:TRP:CG	1:F:220:LYS:HB2	2.36	0.59
1:R:33:MET:HA	1:o:18:ILE:HG12	1.84	0.59
2:h:40:LEU:HD22	2:h:92:PHE:HE2	1.67	0.59
2:h:299:GLU:N	2:h:336:LYS:O	2.34	0.59
2:U:202:ARG:HA	2:U:205:LYS:HD2	1.83	0.59
1:o:86:VAL:HG12	1:o:158:ASN:HB3	1.85	0.59
2:a:191:ILE:HD11	2:a:212:LYS:HB2	1.84	0.59
2:f:353:GLU:HA	2:g:15:LEU:HD13	1.84	0.59
2:T:181:THR:O	3:k:86:LYS:NZ	2.35	0.59
4:E:11:ASP:HB3	4:E:16:VAL:HG11	1.85	0.59
1:Z:201:VAL:HG21	1:Z:239:CYS:HA	1.84	0.59
1:v:134:LYS:N	1:v:167:ASP:OD1	2.35	0.59
4:A:11:ASP:HB3	4:A:16:VAL:HG11	1.85	0.59
1:O:113:LYS:NZ	1:O:124:ASN:O	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:337:ALA:HB3	2:V:352:ILE:HG22	1.85	0.59
1:Q:113:LYS:NZ	1:Q:124:ASN:O	2.34	0.59
1:Q:213:TRP:CG	1:Q:220:LYS:HB2	2.37	0.59
2:W:46:LYS:HD2	2:W:71:THR:HG21	1.84	0.59
1:F:261:ILE:N	1:F:336:ILE:O	2.33	0.59
2:G:176:LEU:O	2:G:241:LYS:NZ	2.29	0.59
1:K:86:VAL:HG12	1:K:158:ASN:HB3	1.85	0.59
2:h:353:GLU:HA	2:c:15:LEU:HD13	1.84	0.59
4:N:116:ILE:HA	4:N:147:ILE:HB	1.83	0.59
1:e:33:MET:SD	4:Y:20:GLN:NE2	2.76	0.59
4:Y:11:ASP:HB3	4:Y:16:VAL:HG11	1.85	0.59
4:A:4:ILE:HA	4:A:7:LEU:HD12	1.85	0.59
1:O:316:ASP:OD2	1:n:328:ASN:ND2	2.36	0.59
2:V:46:LYS:HD2	2:V:71:THR:HG21	1.84	0.59
2:T:200:GLU:HG3	2:G:6:PRO:HG3	1.85	0.59
1:n:86:VAL:HG12	1:n:158:ASN:HB3	1.83	0.59
4:M:11:ASP:HB3	4:M:16:VAL:HG11	1.85	0.59
1:F:316:ASP:OD2	1:o:328:ASN:ND2	2.36	0.59
2:X:60:TYR:CZ	2:X:104:PRO:HB3	2.36	0.59
4:N:89:LYS:NZ	4:N:100:THR:O	2.34	0.59
1:Z:33:MET:HA	1:e:18:ILE:HG12	1.84	0.59
4:Y:4:ILE:HA	4:Y:7:LEU:HD12	1.84	0.59
4:A:89:LYS:NZ	4:A:100:THR:O	2.33	0.59
2:f:80:ILE:HG21	2:f:88:THR:HG21	1.84	0.59
3:i:114:ASN:HB2	3:i:130:LYS:HB2	1.85	0.59
2:T:30:MET:HE1	2:T:32:LEU:HD23	1.85	0.59
3:J:114:ASN:O	3:J:130:LYS:N	2.35	0.59
2:U:181:THR:O	3:l:86:LYS:NZ	2.36	0.59
2:f:236:MET:N	2:f:236:MET:SD	2.76	0.59
2:S:136:VAL:HG12	2:S:138:GLY:H	1.67	0.59
2:S:181:THR:O	3:i:86:LYS:NZ	2.36	0.59
3:i:119:ASN:N	3:i:126:SER:O	2.33	0.59
1:Q:76:ARG:NH2	1:Q:171:ASP:OD1	2.35	0.59
1:Q:316:ASP:OD2	1:K:328:ASN:ND2	2.35	0.59
2:T:235:GLU:HG3	3:k:122:ARG:HH21	1.67	0.59
1:n:33:MET:SD	4:M:20:GLN:NE2	2.76	0.59
4:M:4:ILE:HA	4:M:7:LEU:HD12	1.84	0.59
2:P:202:ARG:HA	2:P:205:LYS:HD2	1.85	0.59
2:C:181:THR:O	3:j:86:LYS:NZ	2.36	0.59
2:D:31:VAL:HG23	2:D:78:TYR:HD2	1.67	0.59
1:n:270:LYS:N	1:n:316:ASP:O	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:32:LEU:HD13	2:H:104:PRO:HG2	1.84	0.59
4:E:4:ILE:HA	4:E:7:LEU:HD12	1.85	0.59
2:h:184:LYS:HA	2:h:218:ARG:HG2	1.84	0.59
2:h:202:ARG:HA	2:h:205:LYS:HD2	1.85	0.59
2:U:30:MET:HE1	2:U:32:LEU:HD23	1.84	0.59
2:c:202:ARG:HA	2:c:205:LYS:HD2	1.84	0.59
1:B:212:ARG:HH11	4:A:141:LEU:HA	1.68	0.59
1:v:328:ASN:ND2	1:Z:316:ASP:OD2	2.35	0.59
4:A:44:ASP:HA	4:A:70:ARG:HD3	1.85	0.59
2:f:299:GLU:N	2:f:336:LYS:O	2.33	0.59
2:f:353:GLU:HB2	2:S:338:LYS:HG2	1.83	0.59
2:g:184:LYS:HA	2:g:218:ARG:HG2	1.83	0.59
2:H:235:GLU:HA	2:H:238:GLN:HG3	1.85	0.59
1:Z:113:LYS:NZ	1:Z:124:ASN:O	2.34	0.59
1:Z:261:ILE:N	1:Z:336:ILE:O	2.33	0.59
2:a:235:GLU:HG3	3:d:122:ARG:HH21	1.68	0.59
1:e:270:LYS:N	1:e:316:ASP:O	2.32	0.59
1:v:15:LEU:HD23	1:v:24:LYS:HD3	1.85	0.58
3:j:114:ASN:HB2	3:j:130:LYS:HB2	1.85	0.58
4:L:11:ASP:HB3	4:L:16:VAL:HG11	1.85	0.58
2:g:353:GLU:HA	2:I:15:LEU:HD13	1.84	0.58
2:g:353:GLU:HB2	2:T:338:LYS:HG2	1.84	0.58
2:I:34:ASP:HB2	2:I:79:VAL:HG13	1.85	0.58
1:R:316:ASP:OD2	1:e:328:ASN:ND2	2.36	0.58
2:h:80:ILE:HG21	2:h:88:THR:HG21	1.84	0.58
2:P:80:ILE:HG21	2:P:88:THR:HG21	1.84	0.58
1:v:86:VAL:HG12	1:v:158:ASN:HB3	1.84	0.58
3:i:114:ASN:O	3:i:130:LYS:N	2.36	0.58
2:T:299:GLU:O	2:T:336:LYS:N	2.33	0.58
2:P:40:LEU:HD22	2:P:92:PHE:HE2	1.67	0.58
1:O:76:ARG:NH2	1:O:171:ASP:OD1	2.36	0.58
1:Q:212:ARG:HH11	4:M:141:LEU:HA	1.68	0.58
2:g:202:ARG:HA	2:g:205:LYS:HD2	1.85	0.58
2:g:299:GLU:N	2:g:336:LYS:O	2.34	0.58
1:o:15:LEU:HD23	1:o:24:LYS:HD3	1.85	0.58
3:l:114:ASN:O	3:l:130:LYS:N	2.36	0.58
2:X:53:LEU:HD13	2:X:61:ILE:HD11	1.84	0.58
2:c:80:ILE:HG21	2:c:88:THR:HG21	1.84	0.58
2:a:299:GLU:O	2:a:336:LYS:N	2.33	0.58
2:D:29:ALA:HA	2:D:76:LEU:HB2	1.84	0.58
2:V:41:ASN:ND2	2:V:52:ASP:OD2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:134:LYS:N	1:o:167:ASP:OD1	2.35	0.58
1:m:134:LYS:N	1:m:167:ASP:OD1	2.35	0.58
1:Q:92:LYS:HG3	1:Q:118:GLY:HA3	1.86	0.58
1:F:33:MET:HA	1:K:18:ILE:HG12	1.85	0.58
1:R:113:LYS:NZ	1:R:124:ASN:O	2.34	0.58
2:X:352:ILE:HG13	2:b:12:PHE:HB3	1.86	0.58
4:N:11:ASP:HB3	4:N:16:VAL:HG11	1.85	0.58
1:Z:212:ARG:HH11	4:Y:141:LEU:HA	1.68	0.58
2:a:202:ARG:HA	2:a:205:LYS:HD2	1.85	0.58
2:P:232:GLU:HB3	2:V:16:ALA:HB2	1.84	0.58
2:D:235:GLU:HA	2:D:238:GLN:HG3	1.85	0.58
1:m:86:VAL:HG12	1:m:158:ASN:HB3	1.85	0.58
2:g:229:LEU:HD12	2:g:233:LYS:HB3	1.85	0.58
4:E:89:LYS:NZ	4:E:100:THR:O	2.33	0.58
1:R:179:TYR:HB3	1:R:183:ARG:HH12	1.69	0.58
1:m:15:LEU:HD23	1:m:24:LYS:HD3	1.85	0.58
2:c:40:LEU:HD22	2:c:92:PHE:HE2	1.67	0.58
1:e:134:LYS:N	1:e:167:ASP:OD1	2.35	0.58
1:Q:33:MET:HA	1:n:18:ILE:HG12	1.85	0.58
2:W:235:GLU:HA	2:W:238:GLN:HG3	1.86	0.58
2:I:80:ILE:HG21	2:I:88:THR:HG21	1.84	0.58
1:R:76:ARG:NH2	1:R:171:ASP:OD1	2.36	0.58
2:h:236:MET:N	2:h:236:MET:SD	2.76	0.58
2:a:30:MET:HE1	2:a:32:LEU:HD23	1.85	0.58
1:B:316:ASP:OD2	1:m:328:ASN:ND2	2.36	0.58
1:O:179:TYR:HB3	1:O:183:ARG:HH12	1.69	0.58
1:m:51:MET:HE3	4:L:38:PHE:HD1	1.68	0.58
4:L:44:ASP:HA	4:L:70:ARG:HD3	1.86	0.58
2:I:202:ARG:HA	2:I:205:LYS:HD2	1.85	0.58
2:h:229:LEU:HD12	2:h:233:LYS:HB3	1.85	0.58
3:l:114:ASN:HB2	3:l:130:LYS:HB2	1.85	0.58
1:Z:92:LYS:HG3	1:Z:118:GLY:HA3	1.86	0.58
2:c:184:LYS:HA	2:c:218:ARG:HG2	1.84	0.58
2:c:229:LEU:HD12	2:c:233:LYS:HB3	1.85	0.58
2:C:200:GLU:HA	2:S:6:PRO:HG3	1.86	0.58
3:j:119:ASN:N	3:j:126:SER:O	2.33	0.58
1:Q:80:THR:N	1:Q:166:THR:OG1	2.36	0.58
2:W:352:ILE:HG13	2:H:12:PHE:HB3	1.86	0.58
1:F:212:ARG:HH11	4:E:141:LEU:HA	1.68	0.58
1:R:261:ILE:N	1:R:336:ILE:O	2.34	0.58
2:X:41:ASN:ND2	2:X:52:ASP:OD2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:235:GLU:HA	2:b:238:GLN:HG3	1.86	0.58
2:D:29:ALA:O	2:D:30:MET:HE2	2.04	0.57
2:D:203:VAL:HG11	2:V:4:GLY:HA3	1.86	0.57
1:O:33:MET:HA	1:m:18:ILE:HG12	1.85	0.57
3:k:119:ASN:N	3:k:126:SER:O	2.33	0.57
1:R:212:ARG:HH11	4:N:141:LEU:HA	1.68	0.57
2:U:55:ALA:HA	2:U:58:LYS:HE2	1.86	0.57
2:a:55:ALA:HA	2:a:58:LYS:HE2	1.86	0.57
2:P:236:MET:SD	2:P:236:MET:N	2.77	0.57
1:m:208:LYS:HB3	1:m:222:LEU:HB3	1.86	0.57
2:T:55:ALA:HA	2:T:58:LYS:HE2	1.86	0.57
2:H:49:ILE:HG21	2:H:58:LYS:HG3	1.87	0.57
2:b:31:VAL:HG23	2:b:78:TYR:HD2	1.69	0.57
2:b:125:ASP:OD1	2:b:254:ARG:NH1	2.37	0.57
1:B:76:ARG:NH2	1:B:171:ASP:OD1	2.37	0.57
1:O:80:THR:N	1:O:166:THR:OG1	2.35	0.57
1:n:281:LYS:HE3	1:n:344:PHE:HB2	1.86	0.57
2:I:184:LYS:HA	2:I:218:ARG:HG2	1.85	0.57
2:G:37:ALA:HB3	2:G:79:VAL:HG11	1.85	0.57
2:D:125:ASP:OD1	2:D:254:ARG:NH1	2.38	0.57
2:D:350:LEU:HD21	2:V:10:ILE:HG23	1.85	0.57
1:O:212:ARG:HH11	4:L:141:LEU:HA	1.68	0.57
1:K:80:THR:N	1:K:166:THR:OG1	2.38	0.57
3:J:114:ASN:HB2	3:J:130:LYS:HB2	1.85	0.57
1:Z:299:ILE:HD11	1:Z:329:ILE:HB	1.85	0.57
2:a:37:ALA:HB3	2:a:79:VAL:HG11	1.85	0.57
1:B:179:TYR:HB3	1:B:183:ARG:HH12	1.70	0.57
2:P:229:LEU:HD12	2:P:233:LYS:HB3	1.85	0.57
2:C:37:ALA:HB3	2:C:79:VAL:HG11	1.85	0.57
2:D:352:ILE:HG13	2:V:12:PHE:HB3	1.85	0.57
2:S:37:ALA:HB3	2:S:79:VAL:HG11	1.85	0.57
2:W:32:LEU:HD12	2:W:33:LYS:H	1.70	0.57
2:W:41:ASN:ND2	2:W:52:ASP:OD2	2.38	0.57
1:K:208:LYS:HB3	1:K:222:LEU:HB3	1.87	0.57
2:X:136:VAL:O	2:X:145:ASN:ND2	2.37	0.57
1:F:76:ARG:NH2	1:F:171:ASP:OD1	2.37	0.57
1:K:15:LEU:HD23	1:K:24:LYS:HD3	1.85	0.57
3:J:119:ASN:N	3:J:126:SER:O	2.33	0.57
2:P:63:LEU:HA	2:P:66:MET:HE2	1.85	0.57
2:C:176:LEU:O	2:C:241:LYS:NZ	2.29	0.57
2:S:299:GLU:O	2:S:336:LYS:N	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:179:TYR:HB3	1:Q:183:ARG:HH12	1.70	0.57
2:W:49:ILE:HG21	2:W:58:LYS:HG3	1.86	0.57
4:M:44:ASP:HA	4:M:70:ARG:HD3	1.87	0.57
1:R:206:ASN:HB2	1:R:224:PHE:HB2	1.87	0.57
1:o:208:LYS:HB3	1:o:222:LEU:HB3	1.86	0.57
2:X:235:GLU:HA	2:X:238:GLN:HG3	1.86	0.57
4:Y:31:LYS:HA	4:Y:34:ILE:HD12	1.87	0.57
1:B:261:ILE:O	1:B:338:SER:N	2.38	0.57
2:P:337:ALA:HB3	2:D:352:ILE:HG22	1.86	0.57
1:v:208:LYS:HB3	1:v:222:LEU:HB3	1.87	0.57
2:D:49:ILE:HG21	2:D:58:LYS:HG3	1.86	0.57
2:T:37:ALA:HB3	2:T:79:VAL:HG11	1.85	0.57
2:W:125:ASP:OD1	2:W:254:ARG:NH1	2.37	0.57
2:W:203:VAL:HG11	2:H:4:GLY:HA3	1.87	0.57
2:I:236:MET:N	2:I:236:MET:SD	2.77	0.57
4:E:51:ASP:OD1	4:E:52:MET:N	2.38	0.57
1:o:80:THR:N	1:o:166:THR:OG1	2.38	0.57
1:o:270:LYS:N	1:o:316:ASP:O	2.31	0.57
2:P:34:ASP:HB2	2:P:79:VAL:HG13	1.86	0.57
1:O:261:ILE:O	1:O:338:SER:N	2.38	0.57
2:f:229:LEU:HD12	2:f:233:LYS:HB3	1.85	0.57
2:f:344:ALA:HA	2:S:266:THR:HA	1.87	0.57
2:g:153:VAL:HA	2:g:188:VAL:HA	1.86	0.57
2:g:344:ALA:HA	2:T:266:THR:HA	1.87	0.57
3:k:114:ASN:HB2	3:k:130:LYS:HB2	1.86	0.57
2:G:55:ALA:HA	2:G:58:LYS:HE2	1.87	0.57
1:K:134:LYS:N	1:K:167:ASP:OD1	2.35	0.57
1:R:50:LYS:HA	1:R:53:LYS:HD2	1.87	0.57
1:Z:206:ASN:HB2	1:Z:224:PHE:HB2	1.87	0.57
2:V:32:LEU:HD12	2:V:33:LYS:H	1.70	0.57
1:Q:206:ASN:HB2	1:Q:224:PHE:HB2	1.87	0.57
1:F:179:TYR:HB3	1:F:183:ARG:HH12	1.70	0.57
4:E:44:ASP:HA	4:E:70:ARG:HD3	1.86	0.57
2:U:37:ALA:HB3	2:U:79:VAL:HG11	1.85	0.57
2:b:29:ALA:O	2:b:30:MET:HE2	2.04	0.57
1:v:80:THR:N	1:v:166:THR:OG1	2.38	0.56
2:D:136:VAL:O	2:D:145:ASN:ND2	2.38	0.56
1:Q:269:MET:HA	1:Q:317:LEU:HA	1.87	0.56
4:M:31:LYS:HA	4:M:34:ILE:HD12	1.87	0.56
1:F:50:LYS:HA	1:F:53:LYS:HD2	1.86	0.56
2:X:125:ASP:OD1	2:X:254:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:353:GLU:HB3	2:V:15:LEU:HD11	1.86	0.56
1:O:50:LYS:HA	1:O:53:LYS:HD2	1.87	0.56
2:f:335:LEU:HB2	2:V:350:LEU:HB3	1.85	0.56
2:g:335:LEU:HB2	2:W:350:LEU:HB3	1.87	0.56
1:F:222:LEU:HD13	1:F:256:VAL:HG23	1.87	0.56
1:K:85:GLU:HB3	1:K:160:ARG:HD2	1.87	0.56
2:h:34:ASP:HB2	2:h:79:VAL:HG13	1.88	0.56
2:c:34:ASP:HB2	2:c:79:VAL:HG13	1.87	0.56
2:a:53:LEU:O	2:a:58:LYS:NZ	2.38	0.56
4:Y:44:ASP:HA	4:Y:70:ARG:HD3	1.87	0.56
1:B:222:LEU:HD13	1:B:256:VAL:HG23	1.87	0.56
2:D:114:ILE:O	2:D:118:ILE:HG12	2.04	0.56
1:O:92:LYS:HG3	1:O:118:GLY:HA3	1.87	0.56
1:O:299:ILE:HD11	1:O:329:ILE:HB	1.87	0.56
1:F:269:MET:HA	1:F:317:LEU:HA	1.87	0.56
2:H:125:ASP:OD1	2:H:254:ARG:NH1	2.38	0.56
1:R:269:MET:HA	1:R:317:LEU:HA	1.87	0.56
2:h:344:ALA:HA	2:U:266:THR:HA	1.87	0.56
2:U:53:LEU:O	2:U:58:LYS:NZ	2.38	0.56
2:U:176:LEU:O	2:U:241:LYS:NZ	2.29	0.56
4:N:44:ASP:HA	4:N:70:ARG:HD3	1.86	0.56
1:B:80:THR:N	1:B:166:THR:OG1	2.36	0.56
2:P:344:ALA:HA	2:C:266:THR:HA	1.87	0.56
2:C:178:GLN:O	2:C:241:LYS:NZ	2.38	0.56
2:C:299:GLU:O	2:C:336:LYS:N	2.34	0.56
1:O:206:ASN:HB2	1:O:224:PHE:HB2	1.87	0.56
2:S:55:ALA:HA	2:S:58:LYS:HE2	1.86	0.56
2:T:53:LEU:O	2:T:58:LYS:NZ	2.38	0.56
2:T:178:GLN:O	2:T:241:LYS:NZ	2.39	0.56
1:n:80:THR:N	1:n:166:THR:OG1	2.38	0.56
1:n:134:LYS:N	1:n:167:ASP:OD1	2.35	0.56
3:k:28:VAL:HG12	3:k:44:PHE:HB3	1.88	0.56
1:F:92:LYS:HG3	1:F:118:GLY:HA3	1.87	0.56
2:I:335:LEU:HB2	2:H:350:LEU:HB3	1.88	0.56
3:J:28:VAL:HG12	3:J:44:PHE:HB3	1.88	0.56
2:V:235:GLU:HA	2:V:238:GLN:HG3	1.86	0.56
2:g:204:ASN:OD1	2:I:4:GLY:N	2.39	0.56
1:F:206:ASN:HB2	1:F:224:PHE:HB2	1.88	0.56
2:I:299:GLU:N	2:I:336:LYS:O	2.34	0.56
3:l:28:VAL:HG12	3:l:44:PHE:HB3	1.88	0.56
1:Z:179:TYR:HB3	1:Z:183:ARG:HH12	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:92:LYS:HG3	1:B:118:GLY:HA3	1.87	0.56
1:m:80:THR:N	1:m:166:THR:OG1	2.38	0.56
2:G:53:LEU:O	2:G:58:LYS:NZ	2.39	0.56
2:G:349:ASP:HA	2:U:10:ILE:HG13	1.87	0.56
1:K:51:MET:HE3	4:E:38:PHE:HD1	1.71	0.56
1:Z:261:ILE:O	1:Z:338:SER:N	2.38	0.56
2:C:53:LEU:O	2:C:58:LYS:NZ	2.39	0.56
2:C:63:LEU:HD23	2:C:166:ARG:HB2	1.87	0.56
1:v:51:MET:HE3	4:A:38:PHE:HD1	1.71	0.56
1:v:281:LYS:HE3	1:v:344:PHE:HB2	1.88	0.56
2:V:125:ASP:OD1	2:V:254:ARG:NH1	2.38	0.56
1:Q:50:LYS:HA	1:Q:53:LYS:HD2	1.87	0.56
1:Q:261:ILE:O	1:Q:338:SER:N	2.38	0.56
1:Q:299:ILE:HD11	1:Q:329:ILE:HB	1.88	0.56
1:o:51:MET:HE3	4:N:38:PHE:HD1	1.68	0.56
1:Z:50:LYS:HA	1:Z:53:LYS:HD2	1.88	0.56
2:c:344:ALA:HA	2:a:266:THR:HA	1.87	0.56
1:e:34:VAL:O	1:e:38:ASN:ND2	2.39	0.56
1:e:80:THR:N	1:e:166:THR:OG1	2.38	0.56
1:B:299:ILE:HD11	1:B:329:ILE:HB	1.88	0.56
2:P:21:GLU:O	2:P:255:LYS:NZ	2.39	0.56
2:C:55:ALA:HA	2:C:58:LYS:HE2	1.87	0.56
2:C:349:ASP:HA	2:S:10:ILE:HG13	1.87	0.56
1:m:281:LYS:HE3	1:m:344:PHE:HB2	1.88	0.56
3:i:28:VAL:HG12	3:i:44:PHE:HB3	1.87	0.56
1:n:34:VAL:O	1:n:38:ASN:ND2	2.39	0.56
2:I:296:SER:OG	2:I:338:LYS:O	2.23	0.56
1:R:92:LYS:HG3	1:R:118:GLY:HA3	1.87	0.56
2:U:320:THR:HG22	2:U:322:GLN:H	1.71	0.56
2:X:49:ILE:HG21	2:X:58:LYS:HG3	1.88	0.56
2:c:21:GLU:O	2:c:255:LYS:NZ	2.39	0.56
1:e:249:ILE:HA	4:Y:85:ILE:HG12	1.88	0.56
2:S:178:GLN:O	2:S:241:LYS:NZ	2.39	0.56
2:V:136:VAL:O	2:V:145:ASN:ND2	2.39	0.56
2:U:63:LEU:HD23	2:U:166:ARG:HB2	1.87	0.56
1:o:85:GLU:HB3	1:o:160:ARG:HD2	1.88	0.56
3:d:114:ASN:HB2	3:d:130:LYS:HB2	1.86	0.56
1:B:206:ASN:HB2	1:B:224:PHE:HB2	1.88	0.56
2:T:257:ILE:HA	2:T:261:TYR:HD2	1.71	0.56
2:G:63:LEU:HD23	2:G:166:ARG:HB2	1.87	0.56
2:U:257:ILE:HA	2:U:261:TYR:HD2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N:111:PHE:HB3	4:N:142:HIS:HA	1.88	0.56
1:Z:80:THR:N	1:Z:166:THR:OG1	2.36	0.56
4:Y:132:ILE:O	4:Y:136:LYS:N	2.26	0.56
2:P:182:TYR:CD2	2:C:262:ILE:HD12	2.41	0.55
3:j:28:VAL:HG12	3:j:44:PHE:HB3	1.87	0.55
1:O:269:MET:HA	1:O:317:LEU:HA	1.87	0.55
2:f:296:SER:OG	2:f:338:LYS:O	2.23	0.55
2:S:63:LEU:HD23	2:S:166:ARG:HB2	1.87	0.55
2:S:257:ILE:HA	2:S:261:TYR:HD2	1.71	0.55
2:T:63:LEU:HD23	2:T:166:ARG:HB2	1.87	0.55
2:H:136:VAL:O	2:H:145:ASN:ND2	2.38	0.55
1:R:158:ASN:ND2	1:R:160:ARG:O	2.40	0.55
2:h:21:GLU:O	2:h:255:LYS:NZ	2.39	0.55
2:a:63:LEU:HD23	2:a:166:ARG:HB2	1.87	0.55
1:e:208:LYS:HB3	1:e:222:LEU:HB3	1.87	0.55
1:e:281:LYS:HE3	1:e:344:PHE:HB2	1.87	0.55
2:b:136:VAL:O	2:b:145:ASN:ND2	2.40	0.55
2:C:257:ILE:HA	2:C:261:TYR:HD2	1.71	0.55
1:Q:243:ILE:O	1:Q:247:LYS:N	2.39	0.55
1:n:28:SER:O	1:n:32:ASN:N	2.40	0.55
2:I:21:GLU:O	2:I:255:LYS:NZ	2.39	0.55
2:I:344:ALA:HA	2:G:266:THR:HA	1.87	0.55
2:G:178:GLN:O	2:G:241:LYS:NZ	2.38	0.55
2:H:53:LEU:HD13	2:H:61:ILE:HD11	1.87	0.55
2:H:122:ARG:HG2	2:H:128:LYS:HA	1.88	0.55
2:h:204:ASN:OD1	2:c:4:GLY:N	2.39	0.55
1:o:249:ILE:HA	4:N:85:ILE:HG12	1.88	0.55
2:c:49:ILE:HG21	2:c:58:LYS:HG3	1.88	0.55
2:a:346:GLU:O	3:d:84:GLY:N	2.39	0.55
3:d:28:VAL:HG12	3:d:44:PHE:HB3	1.88	0.55
2:f:49:ILE:HG21	2:f:58:LYS:HG3	1.89	0.55
1:m:185:GLN:O	1:m:193:HIS:NE2	2.40	0.55
2:g:34:ASP:HB2	2:g:79:VAL:HG13	1.87	0.55
3:k:56:TRP:CH2	3:k:107:ASN:HB2	2.42	0.55
2:W:53:LEU:HD13	2:W:61:ILE:HD11	1.88	0.55
1:F:299:ILE:HD11	1:F:329:ILE:HB	1.88	0.55
2:I:39:GLY:N	2:I:79:VAL:O	2.33	0.55
1:K:115:VAL:HB	1:K:125:SER:HB2	1.89	0.55
3:d:47:ILE:HB	3:d:51:GLU:HB3	1.89	0.55
1:B:269:MET:HA	1:B:317:LEU:HA	1.86	0.55
3:j:56:TRP:CH2	3:j:107:ASN:HB2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:191:ILE:HG23	2:D:217:ILE:HD13	1.89	0.55
1:O:222:LEU:HD13	1:O:256:VAL:HG23	1.88	0.55
2:f:21:GLU:O	2:f:255:LYS:NZ	2.39	0.55
1:m:85:GLU:HB3	1:m:160:ARG:HD2	1.88	0.55
1:F:261:ILE:O	1:F:338:SER:N	2.38	0.55
4:E:111:PHE:HB3	4:E:142:HIS:HA	1.89	0.55
3:d:56:TRP:CH2	3:d:107:ASN:HB2	2.42	0.55
2:P:204:ASN:OD1	2:f:4:GLY:N	2.39	0.55
3:i:56:TRP:CH2	3:i:107:ASN:HB2	2.42	0.55
2:V:122:ARG:NH1	2:V:129:VAL:O	2.40	0.55
4:L:111:PHE:HB3	4:L:142:HIS:HA	1.89	0.55
1:n:249:ILE:HA	4:M:85:ILE:HG12	1.88	0.55
1:R:299:ILE:HD11	1:R:329:ILE:HB	1.87	0.55
2:U:346:GLU:O	3:l:84:GLY:N	2.39	0.55
1:o:281:LYS:HE3	1:o:344:PHE:HB2	1.88	0.55
2:a:178:GLN:O	2:a:241:LYS:NZ	2.39	0.55
4:A:111:PHE:HB3	4:A:142:HIS:HA	1.89	0.55
1:O:243:ILE:O	1:O:247:LYS:N	2.39	0.55
2:G:257:ILE:HA	2:G:261:TYR:HD2	1.72	0.55
3:J:47:ILE:HB	3:J:51:GLU:HB3	1.89	0.55
1:R:261:ILE:O	1:R:338:SER:N	2.38	0.55
4:N:31:LYS:HA	4:N:34:ILE:HD12	1.89	0.55
1:B:68:ARG:HH22	1:v:56:PHE:HD1	1.54	0.55
2:C:306:LYS:O	2:C:310:LYS:HG2	2.07	0.55
1:Q:187:THR:HB	1:Q:190:ASN:HB2	1.89	0.55
2:T:346:GLU:O	3:k:84:GLY:N	2.39	0.55
4:M:111:PHE:HB3	4:M:142:HIS:HA	1.89	0.55
2:X:32:LEU:HD12	2:X:33:LYS:H	1.71	0.55
1:Z:269:MET:HA	1:Z:317:LEU:HA	1.89	0.55
2:b:46:LYS:HD2	2:b:71:THR:HG21	1.89	0.55
1:B:187:THR:HB	1:B:190:ASN:HB2	1.89	0.55
1:O:158:ASN:ND2	1:O:160:ARG:O	2.40	0.55
1:m:209:VAL:HG13	1:m:219:VAL:HG13	1.89	0.55
4:L:89:LYS:NZ	4:L:100:THR:O	2.34	0.55
1:Q:261:ILE:N	1:Q:336:ILE:O	2.34	0.55
1:n:208:LYS:HB3	1:n:222:LEU:HB3	1.87	0.55
3:J:56:TRP:CH2	3:J:107:ASN:HB2	2.42	0.55
4:E:31:LYS:HA	4:E:34:ILE:HD12	1.89	0.55
1:R:68:ARG:HH22	1:o:56:PHE:HD1	1.55	0.55
2:h:335:LEU:HB2	2:X:350:LEU:HB3	1.88	0.55
1:o:209:VAL:HG13	1:o:219:VAL:HG13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:49:ILE:HG21	2:b:58:LYS:HG3	1.89	0.55
2:b:122:ARG:NH1	2:b:129:VAL:O	2.40	0.55
2:C:320:THR:HG22	2:C:322:GLN:H	1.72	0.55
1:O:89:ILE:HB	1:O:155:LYS:HB3	1.89	0.55
1:O:187:THR:HB	1:O:190:ASN:HB2	1.89	0.55
2:S:53:LEU:O	2:S:58:LYS:NZ	2.40	0.55
2:S:306:LYS:O	2:S:310:LYS:HG2	2.07	0.55
2:g:21:GLU:O	2:g:255:LYS:NZ	2.39	0.55
2:W:136:VAL:O	2:W:145:ASN:ND2	2.40	0.55
2:H:191:ILE:HG23	2:H:217:ILE:HD13	1.89	0.55
1:R:89:ILE:HB	1:R:155:LYS:HB3	1.89	0.55
2:D:131:ALA:O	2:D:144:ILE:N	2.39	0.55
2:f:34:ASP:HB2	2:f:79:VAL:HG13	1.88	0.55
1:Q:222:LEU:HD13	1:Q:256:VAL:HG23	1.88	0.55
2:T:320:THR:HG22	2:T:322:GLN:H	1.72	0.55
4:E:14:TYR:O	4:E:18:GLU:HG2	2.07	0.55
1:R:222:LEU:HD13	1:R:256:VAL:HG23	1.88	0.55
2:U:178:GLN:O	2:U:241:LYS:NZ	2.39	0.55
1:o:185:GLN:O	1:o:193:HIS:NE2	2.40	0.55
1:Z:158:ASN:ND2	1:Z:160:ARG:O	2.40	0.55
1:e:185:GLN:O	1:e:193:HIS:NE2	2.40	0.55
3:d:119:ASN:N	3:d:126:SER:O	2.33	0.55
4:Y:111:PHE:HB3	4:Y:142:HIS:HA	1.89	0.55
1:v:85:GLU:HB3	1:v:160:ARG:HD2	1.90	0.54
3:j:47:ILE:HB	3:j:51:GLU:HB3	1.89	0.54
1:m:249:ILE:HA	4:L:85:ILE:HG12	1.88	0.54
2:T:306:LYS:O	2:T:310:LYS:HG2	2.07	0.54
3:k:47:ILE:HB	3:k:51:GLU:HB3	1.89	0.54
1:F:187:THR:HB	1:F:190:ASN:HB2	1.89	0.54
2:G:306:LYS:O	2:G:310:LYS:HG2	2.07	0.54
1:o:44:ILE:HD13	4:N:30:LEU:HD22	1.89	0.54
1:Z:89:ILE:HB	1:Z:155:LYS:HB3	1.89	0.54
1:Z:187:THR:HB	1:Z:190:ASN:HB2	1.89	0.54
1:v:209:VAL:HG13	1:v:219:VAL:HG13	1.89	0.54
2:S:320:THR:HG22	2:S:322:GLN:H	1.71	0.54
1:m:44:ILE:HD13	4:L:30:LEU:HD22	1.89	0.54
1:m:115:VAL:HB	1:m:125:SER:HB2	1.90	0.54
2:G:299:GLU:O	2:G:336:LYS:N	2.34	0.54
3:l:56:TRP:CH2	3:l:107:ASN:HB2	2.42	0.54
2:a:257:ILE:HA	2:a:261:TYR:HD2	1.71	0.54
1:e:47:GLU:HA	1:e:50:LYS:HD2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:85:GLU:HB3	1:e:160:ARG:HD2	1.89	0.54
2:b:33:LYS:HD2	2:b:82:GLY:HA2	1.89	0.54
2:P:299:GLU:N	2:P:336:LYS:O	2.37	0.54
2:g:49:ILE:HG21	2:g:58:LYS:HG3	1.88	0.54
1:n:47:GLU:HA	1:n:50:LYS:HD2	1.90	0.54
1:K:44:ILE:HD13	4:E:30:LEU:HD22	1.89	0.54
1:K:185:GLN:O	1:K:193:HIS:NE2	2.40	0.54
2:h:49:ILE:HG21	2:h:58:LYS:HG3	1.89	0.54
2:h:349:ASP:O	2:U:335:LEU:N	2.41	0.54
2:U:306:LYS:O	2:U:310:LYS:HG2	2.07	0.54
1:Z:22:ILE:HD11	3:d:39:LEU:HD13	1.90	0.54
2:c:68:ASN:ND2	2:c:174:THR:OG1	2.38	0.54
2:c:349:ASP:O	2:a:335:LEU:N	2.41	0.54
1:B:50:LYS:HA	1:B:53:LYS:HD2	1.87	0.54
1:v:185:GLN:O	1:v:193:HIS:NE2	2.40	0.54
1:m:47:GLU:HA	1:m:50:LYS:HD2	1.90	0.54
1:n:85:GLU:HB3	1:n:160:ARG:HD2	1.89	0.54
1:n:185:GLN:O	1:n:193:HIS:NE2	2.40	0.54
1:F:68:ARG:HH22	1:K:56:PHE:HD1	1.55	0.54
1:F:80:THR:N	1:F:166:THR:OG1	2.36	0.54
2:U:200:GLU:HG3	2:a:6:PRO:HG3	1.89	0.54
2:X:122:ARG:NH1	2:X:129:VAL:O	2.40	0.54
2:a:36:LYS:O	2:a:36:LYS:NZ	2.36	0.54
2:a:306:LYS:O	2:a:310:LYS:HG2	2.08	0.54
2:C:36:LYS:O	2:C:36:LYS:NZ	2.36	0.54
1:v:47:GLU:HA	1:v:50:LYS:HD2	1.90	0.54
2:S:349:ASP:HA	2:T:10:ILE:HG13	1.88	0.54
2:T:349:ASP:HA	2:G:10:ILE:HG13	1.89	0.54
1:n:102:ILE:HG22	1:n:146:LEU:HD23	1.89	0.54
1:n:115:VAL:HB	1:n:125:SER:HB2	1.90	0.54
1:K:76:ARG:HH11	1:K:169:GLU:HB3	1.72	0.54
1:K:281:LYS:HE3	1:K:344:PHE:HB2	1.88	0.54
3:l:47:ILE:HB	3:l:51:GLU:HB3	1.90	0.54
2:C:346:GLU:O	3:j:84:GLY:N	2.40	0.54
1:v:44:ILE:HD13	4:A:30:LEU:HD22	1.89	0.54
3:j:22:LEU:O	3:j:135:TYR:OH	2.24	0.54
2:D:115:LYS:HG3	2:D:143:ILE:HG21	1.90	0.54
1:O:146:LEU:HG	1:O:156:ILE:HD11	1.89	0.54
2:V:53:LEU:HD13	2:V:61:ILE:HD11	1.89	0.54
4:L:31:LYS:HA	4:L:34:ILE:HD12	1.89	0.54
1:K:249:ILE:HA	4:E:85:ILE:HG12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:8:PRO:O	4:E:12:ARG:NH1	2.41	0.54
1:Z:222:LEU:HD13	1:Z:256:VAL:HG23	1.88	0.54
2:a:176:LEU:O	2:a:241:LYS:NZ	2.29	0.54
2:b:191:ILE:HG23	2:b:217:ILE:HD13	1.90	0.54
2:P:49:ILE:HG21	2:P:58:LYS:HG3	1.89	0.54
4:A:14:TYR:O	4:A:18:GLU:HG2	2.07	0.54
2:f:352:ILE:HG12	2:g:12:PHE:HA	1.90	0.54
4:L:14:TYR:O	4:L:18:GLU:HG2	2.08	0.54
2:I:166:ARG:NH1	2:I:170:LEU:HB2	2.23	0.54
1:R:22:ILE:HD11	3:l:39:LEU:HD13	1.89	0.54
2:X:30:MET:HE1	2:X:32:LEU:HD22	1.90	0.54
2:X:191:ILE:HG23	2:X:217:ILE:HD13	1.90	0.54
2:X:203:VAL:HG11	2:b:4:GLY:HA3	1.90	0.54
1:v:115:VAL:HB	1:v:125:SER:HB2	1.90	0.54
2:D:46:LYS:HD2	2:D:71:THR:HG21	1.90	0.54
2:f:236:MET:HB2	2:f:242:ILE:HG21	1.90	0.54
1:Q:22:ILE:HD11	3:k:39:LEU:HD13	1.90	0.54
2:g:349:ASP:O	2:T:335:LEU:N	2.40	0.54
4:M:14:TYR:O	4:M:18:GLU:HG2	2.08	0.54
2:I:166:ARG:HH12	2:I:170:LEU:HB2	1.73	0.54
2:G:36:LYS:O	2:G:36:LYS:NZ	2.36	0.54
2:G:320:THR:HG22	2:G:322:GLN:H	1.72	0.54
1:K:209:VAL:HG13	1:K:219:VAL:HG13	1.89	0.54
1:R:97:ASN:O	1:R:100:THR:OG1	2.26	0.54
1:o:47:GLU:HA	1:o:50:LYS:HD2	1.90	0.54
2:a:26:GLY:O	2:a:74:LYS:N	2.41	0.54
4:Y:8:PRO:O	4:Y:12:ARG:NH1	2.41	0.54
2:P:352:ILE:HG12	2:f:12:PHE:HA	1.90	0.54
2:C:10:ILE:HG13	2:a:349:ASP:HA	1.90	0.54
2:D:257:ILE:HA	2:D:261:TYR:HD2	1.73	0.54
4:A:8:PRO:O	4:A:12:ARG:NH1	2.41	0.54
3:i:47:ILE:HB	3:i:51:GLU:HB3	1.90	0.54
2:T:176:LEU:O	2:T:241:LYS:NZ	2.29	0.54
2:I:232:GLU:HG3	2:X:14:GLU:CD	2.33	0.54
1:o:115:VAL:HB	1:o:125:SER:HB2	1.89	0.54
4:N:8:PRO:O	4:N:12:ARG:NH1	2.41	0.54
2:c:296:SER:OG	2:c:338:LYS:O	2.24	0.54
2:a:27:ILE:HB	2:a:99:ASN:H	1.73	0.54
2:a:320:THR:HG22	2:a:322:GLN:H	1.73	0.54
4:Y:14:TYR:O	4:Y:18:GLU:HG2	2.07	0.54
1:K:47:GLU:HA	1:K:50:LYS:HD2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:146:LEU:HG	1:R:156:ILE:HD11	1.90	0.54
1:R:187:THR:HB	1:R:190:ASN:HB2	1.89	0.54
1:e:288:ILE:HD11	1:e:304:VAL:HG22	1.90	0.54
4:A:31:LYS:HA	4:A:34:ILE:HD12	1.89	0.53
1:m:76:ARG:HG3	1:m:174:LEU:HD22	1.90	0.53
2:g:68:ASN:ND2	2:g:174:THR:OG1	2.38	0.53
2:G:179:SER:HB2	3:J:85:GLN:O	2.08	0.53
2:H:131:ALA:O	2:H:144:ILE:N	2.39	0.53
2:h:268:SER:O	2:h:272:LYS:N	2.35	0.53
1:Z:80:THR:OG1	1:Z:164:GLY:O	2.22	0.53
3:d:22:LEU:O	3:d:135:TYR:OH	2.24	0.53
1:O:265:ILE:HD12	1:O:342:VAL:HG22	1.90	0.53
2:S:346:GLU:O	3:i:84:GLY:N	2.40	0.53
2:W:191:ILE:HG23	2:W:217:ILE:HD13	1.90	0.53
2:G:133:LEU:HD13	2:G:136:VAL:HG21	1.90	0.53
2:H:68:ASN:ND2	2:H:174:THR:OG1	2.37	0.53
2:H:224:ASN:N	2:H:238:GLN:O	2.40	0.53
1:e:115:VAL:HB	1:e:125:SER:HB2	1.90	0.53
2:b:224:ASN:N	2:b:238:GLN:O	2.40	0.53
2:P:349:ASP:O	2:C:335:LEU:N	2.41	0.53
1:v:249:ILE:HA	4:A:85:ILE:HG12	1.89	0.53
1:O:68:ARG:HH22	1:m:56:PHE:HD1	1.55	0.53
2:f:349:ASP:O	2:S:335:LEU:N	2.41	0.53
2:V:224:ASN:N	2:V:238:GLN:O	2.40	0.53
1:Q:158:ASN:ND2	1:Q:160:ARG:O	2.41	0.53
1:n:209:VAL:HG13	1:n:219:VAL:HG13	1.90	0.53
2:G:127:VAL:HG12	2:G:129:VAL:HG13	1.91	0.53
1:o:76:ARG:HG3	1:o:174:LEU:HD22	1.91	0.53
1:e:102:ILE:HG22	1:e:146:LEU:HD23	1.90	0.53
4:Y:39:ASN:O	4:Y:45:THR:OG1	2.26	0.53
2:C:133:LEU:HD13	2:C:136:VAL:HG21	1.91	0.53
1:v:76:ARG:HH11	1:v:169:GLU:HB3	1.72	0.53
2:V:33:LYS:HD2	2:V:82:GLY:HA2	1.90	0.53
2:V:191:ILE:HG23	2:V:217:ILE:HD13	1.90	0.53
2:g:301:ASP:HB2	2:g:335:LEU:O	2.09	0.53
2:W:33:LYS:HD2	2:W:82:GLY:HA2	1.89	0.53
1:F:54:MET:HE1	1:F:60:THR:HB	1.90	0.53
2:I:236:MET:HB2	2:I:242:ILE:HG21	1.89	0.53
2:I:352:ILE:HG12	2:h:12:PHE:HA	1.90	0.53
1:K:288:ILE:HD11	1:K:304:VAL:HG22	1.90	0.53
2:h:38:LEU:HA	2:h:79:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:257:ILE:HA	2:X:261:TYR:HD2	1.74	0.53
2:c:38:LEU:HA	2:c:79:VAL:HG12	1.89	0.53
1:e:28:SER:O	1:e:32:ASN:N	2.40	0.53
2:P:38:LEU:HA	2:P:79:VAL:HG12	1.90	0.53
2:T:133:LEU:HD13	2:T:136:VAL:HG21	1.91	0.53
4:M:8:PRO:O	4:M:12:ARG:NH1	2.41	0.53
1:K:102:ILE:HG22	1:K:146:LEU:HD23	1.90	0.53
3:J:84:GLY:HA3	3:J:86:LYS:HE2	1.91	0.53
2:H:46:LYS:HD2	2:H:71:THR:HG21	1.90	0.53
1:R:80:THR:N	1:R:166:THR:OG1	2.35	0.53
2:a:133:LEU:HD13	2:a:136:VAL:HG21	1.91	0.53
2:D:122:ARG:NH1	2:D:129:VAL:O	2.42	0.53
2:f:204:ASN:OD1	2:g:4:GLY:N	2.41	0.53
4:L:8:PRO:O	4:L:12:ARG:NH1	2.41	0.53
1:n:76:ARG:HH11	1:n:169:GLU:HB3	1.73	0.53
1:F:158:ASN:ND2	1:F:160:ARG:O	2.41	0.53
3:l:119:ASN:N	3:l:126:SER:O	2.33	0.53
1:B:97:ASN:O	1:B:100:THR:OG1	2.27	0.53
2:P:263:GLY:HA2	2:D:179:SER:HB3	1.91	0.53
2:C:26:GLY:O	2:C:74:LYS:N	2.41	0.53
4:A:132:ILE:O	4:A:136:LYS:N	2.28	0.53
2:g:38:LEU:HA	2:g:79:VAL:HG12	1.90	0.53
2:g:352:ILE:HG12	2:I:12:PHE:HA	1.91	0.53
2:G:27:ILE:HB	2:G:99:ASN:H	1.74	0.53
2:H:114:ILE:O	2:H:118:ILE:HG12	2.08	0.53
2:U:127:VAL:HG12	2:U:129:VAL:HG13	1.91	0.53
2:X:39:GLY:N	2:X:79:VAL:O	2.38	0.53
4:N:132:ILE:O	4:N:136:LYS:N	2.27	0.53
1:B:54:MET:HE1	1:B:60:THR:HB	1.90	0.53
1:B:261:ILE:HD11	1:B:335:LYS:HB3	1.91	0.53
1:O:186:ALA:HB1	1:O:193:HIS:CD2	2.44	0.53
1:O:261:ILE:N	1:O:336:ILE:O	2.33	0.53
2:S:179:SER:HB2	3:i:85:GLN:O	2.08	0.53
2:T:179:SER:HB2	3:k:85:GLN:O	2.09	0.53
2:I:349:ASP:O	2:G:335:LEU:N	2.41	0.53
2:h:236:MET:HB2	2:h:242:ILE:HG21	1.90	0.53
1:o:265:ILE:HG22	1:o:342:VAL:HA	1.90	0.53
2:P:4:GLY:N	2:c:204:ASN:OD1	2.41	0.53
2:D:33:LYS:HD2	2:D:82:GLY:HA2	1.90	0.53
2:D:122:ARG:HG2	2:D:128:LYS:HA	1.91	0.53
4:N:14:TYR:O	4:N:18:GLU:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:287:GLU:HG2	2:a:294:SER:HA	1.91	0.53
1:B:306:GLY:HA2	1:B:309:ILE:HG22	1.91	0.53
2:f:301:ASP:HB2	2:f:335:LEU:O	2.08	0.53
2:S:26:GLY:O	2:S:74:LYS:N	2.41	0.53
1:m:288:ILE:HD11	1:m:304:VAL:HG22	1.91	0.53
1:F:265:ILE:HD12	1:F:342:VAL:HG22	1.91	0.53
2:I:301:ASP:HB2	2:I:335:LEU:O	2.08	0.53
1:Z:69:VAL:HG11	1:Z:174:LEU:HD21	1.91	0.53
1:Z:146:LEU:HG	1:Z:156:ILE:HD11	1.90	0.53
2:C:179:SER:HB2	3:j:85:GLN:O	2.09	0.52
1:m:102:ILE:HG22	1:m:146:LEU:HD23	1.90	0.52
1:n:265:ILE:HG22	1:n:342:VAL:HA	1.90	0.52
2:I:68:ASN:ND2	2:I:174:THR:OG1	2.39	0.52
2:H:31:VAL:HG23	2:H:78:TYR:HD2	1.74	0.52
2:U:179:SER:HB2	3:l:85:GLN:O	2.09	0.52
1:Z:68:ARG:HH22	1:e:56:PHE:HD1	1.57	0.52
1:Z:97:ASN:O	1:Z:100:THR:OG1	2.26	0.52
1:B:158:ASN:ND2	1:B:160:ARG:O	2.41	0.52
2:P:236:MET:HB2	2:P:242:ILE:HG21	1.91	0.52
1:v:232:ASP:OD1	1:v:235:THR:N	2.38	0.52
2:S:287:GLU:HG2	2:S:294:SER:HA	1.91	0.52
2:V:49:ILE:HG21	2:V:58:LYS:HG3	1.90	0.52
1:Q:306:GLY:HA2	1:Q:309:ILE:HG22	1.92	0.52
2:T:127:VAL:HG12	2:T:129:VAL:HG13	1.91	0.52
4:E:113:LEU:O	4:E:145:GLU:N	2.39	0.52
1:R:265:ILE:HD12	1:R:342:VAL:HG22	1.91	0.52
2:U:287:GLU:HG2	2:U:294:SER:HA	1.92	0.52
2:U:349:ASP:HA	2:a:10:ILE:HG13	1.90	0.52
2:a:229:LEU:HD12	2:a:233:LYS:HB3	1.92	0.52
2:b:131:ALA:O	2:b:144:ILE:N	2.39	0.52
2:C:287:GLU:HG2	2:C:294:SER:HA	1.91	0.52
1:O:97:ASN:O	1:O:100:THR:OG1	2.26	0.52
1:m:76:ARG:HH11	1:m:169:GLU:HB3	1.74	0.52
2:g:296:SER:OG	2:g:338:LYS:O	2.24	0.52
2:T:26:GLY:O	2:T:74:LYS:N	2.41	0.52
2:W:122:ARG:HG2	2:W:128:LYS:HA	1.91	0.52
2:W:257:ILE:HA	2:W:261:TYR:HD2	1.74	0.52
2:G:229:LEU:HD12	2:G:233:LYS:HB3	1.92	0.52
1:R:113:LYS:HB3	1:R:126:PRO:HD2	1.91	0.52
2:h:352:ILE:HG12	2:c:12:PHE:HA	1.91	0.52
2:b:257:ILE:HA	2:b:261:TYR:HD2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:27:ILE:HB	2:C:99:ASN:H	1.74	0.52
2:W:107:VAL:HG23	2:W:110:ASP:H	1.75	0.52
2:G:229:LEU:HG	2:G:238:GLN:HG2	1.92	0.52
2:G:346:GLU:O	3:J:84:GLY:N	2.42	0.52
1:Z:265:ILE:HD12	1:Z:342:VAL:HG22	1.91	0.52
2:c:299:GLU:N	2:c:336:LYS:O	2.37	0.52
1:e:209:VAL:HG13	1:e:219:VAL:HG13	1.90	0.52
1:B:265:ILE:HD12	1:B:342:VAL:HG22	1.92	0.52
2:f:68:ASN:ND2	2:f:174:THR:OG1	2.38	0.52
1:Q:265:ILE:HD12	1:Q:342:VAL:HG22	1.92	0.52
2:T:27:ILE:HB	2:T:99:ASN:H	1.73	0.52
1:F:80:THR:OG1	1:F:164:GLY:O	2.23	0.52
2:I:204:ASN:OD1	2:h:4:GLY:N	2.42	0.52
2:V:107:VAL:HG23	2:V:110:ASP:H	1.75	0.52
1:n:76:ARG:HG3	1:n:174:LEU:HD22	1.92	0.52
2:H:257:ILE:HA	2:H:261:TYR:HD2	1.74	0.52
2:X:122:ARG:HG2	2:X:128:LYS:HA	1.91	0.52
1:e:76:ARG:HG3	1:e:174:LEU:HD22	1.91	0.52
1:e:76:ARG:HH11	1:e:169:GLU:HB3	1.73	0.52
3:j:84:GLY:HA3	3:j:86:LYS:HE2	1.91	0.52
2:T:229:LEU:HD12	2:T:233:LYS:HB3	1.92	0.52
2:T:287:GLU:HG2	2:T:294:SER:HA	1.91	0.52
3:k:84:GLY:HA3	3:k:86:LYS:HE2	1.91	0.52
1:R:69:VAL:HG11	1:R:174:LEU:HD21	1.92	0.52
1:R:186:ALA:HB1	1:R:193:HIS:CD2	2.44	0.52
2:h:317:SER:O	2:h:319:MET:HE3	2.10	0.52
1:Z:295:ILE:HD11	1:Z:299:ILE:HA	1.92	0.52
1:v:85:GLU:HB3	1:v:160:ARG:HH11	1.75	0.52
2:D:107:VAL:HG23	2:D:110:ASP:H	1.75	0.52
1:O:276:THR:CG2	1:O:277:LEU:N	2.73	0.52
2:S:27:ILE:HB	2:S:99:ASN:H	1.74	0.52
2:V:257:ILE:HA	2:V:261:TYR:HD2	1.73	0.52
1:v:102:ILE:HG22	1:v:146:LEU:HD23	1.90	0.52
4:A:39:ASN:O	4:A:45:THR:OG1	2.27	0.52
2:f:38:LEU:HD23	2:f:80:ILE:HG13	1.92	0.52
2:S:133:LEU:HD13	2:S:136:VAL:HG21	1.92	0.52
1:Q:68:ARG:HH22	1:n:56:PHE:HD1	1.57	0.52
1:Q:97:ASN:O	1:Q:100:THR:OG1	2.27	0.52
1:Q:186:ALA:HB1	1:Q:193:HIS:CD2	2.44	0.52
3:k:23:PRO:O	3:k:109:TYR:OH	2.26	0.52
2:P:12:PHE:HA	2:c:352:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:348:ILE:N	2:V:8:ILE:HG21	2.18	0.52
1:O:54:MET:HE1	1:O:60:THR:HB	1.92	0.52
2:f:317:SER:O	2:f:319:MET:HE3	2.10	0.52
2:V:122:ARG:HG2	2:V:128:LYS:HA	1.91	0.52
2:g:263:GLY:HA2	2:W:179:SER:HB3	1.92	0.52
2:T:229:LEU:HG	2:T:238:GLN:HG2	1.92	0.52
1:F:113:LYS:HB3	1:F:126:PRO:HD2	1.92	0.52
2:h:39:GLY:N	2:h:79:VAL:O	2.35	0.52
2:X:107:VAL:HG23	2:X:110:ASP:H	1.74	0.52
1:B:89:ILE:HB	1:B:155:LYS:HB3	1.91	0.51
2:C:229:LEU:HD12	2:C:233:LYS:HB3	1.92	0.51
3:i:30:TRP:HA	3:i:38:ILE:HG22	1.92	0.51
1:Q:89:ILE:HB	1:Q:155:LYS:HB3	1.91	0.51
2:I:38:LEU:HD23	2:I:80:ILE:HG13	1.92	0.51
1:R:243:ILE:O	1:R:247:LYS:N	2.39	0.51
1:o:30:LEU:HA	1:o:33:MET:HE2	1.92	0.51
2:X:33:LYS:HD2	2:X:82:GLY:HA2	1.92	0.51
1:Z:113:LYS:HB3	1:Z:126:PRO:HD2	1.91	0.51
1:Z:243:ILE:O	1:Z:247:LYS:N	2.39	0.51
1:B:87:GLU:N	1:B:157:THR:O	2.28	0.51
2:D:41:ASN:ND2	2:D:52:ASP:OD2	2.43	0.51
4:L:132:ILE:O	4:L:136:LYS:N	2.27	0.51
1:F:186:ALA:HB1	1:F:193:HIS:CD2	2.45	0.51
2:G:344:ALA:HB3	3:J:85:GLN:HG2	1.93	0.51
1:R:306:GLY:HA2	1:R:309:ILE:HG22	1.92	0.51
2:U:133:LEU:HD13	2:U:136:VAL:HG21	1.92	0.51
1:o:102:ILE:HG22	1:o:146:LEU:HD23	1.90	0.51
2:a:179:SER:HB2	3:d:85:GLN:O	2.09	0.51
1:B:276:THR:CG2	1:B:277:LEU:N	2.74	0.51
2:f:38:LEU:HA	2:f:79:VAL:HG12	1.90	0.51
2:S:127:VAL:HG12	2:S:129:VAL:HG13	1.91	0.51
1:Q:276:THR:CG2	1:Q:277:LEU:N	2.74	0.51
1:Q:282:GLU:O	1:Q:286:GLU:HG2	2.11	0.51
2:G:287:GLU:HG2	2:G:294:SER:HA	1.91	0.51
2:H:107:VAL:HG23	2:H:110:ASP:H	1.76	0.51
2:h:38:LEU:HD23	2:h:80:ILE:HG13	1.92	0.51
1:o:76:ARG:HH11	1:o:169:GLU:HB3	1.74	0.51
3:i:119:ASN:HB3	3:i:126:SER:HB2	1.92	0.51
3:k:119:ASN:HB3	3:k:126:SER:HB2	1.93	0.51
2:H:29:ALA:O	2:H:30:MET:HE2	2.10	0.51
2:h:301:ASP:HB2	2:h:335:LEU:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:27:ILE:HB	2:U:99:ASN:H	1.74	0.51
3:l:84:GLY:HA3	3:l:86:LYS:HE2	1.91	0.51
3:l:119:ASN:HB3	3:l:126:SER:HB2	1.92	0.51
1:Z:186:ALA:HB1	1:Z:193:HIS:CD2	2.46	0.51
1:B:186:ALA:HB1	1:B:193:HIS:CD2	2.45	0.51
2:P:317:SER:O	2:P:319:MET:HE3	2.10	0.51
2:C:127:VAL:HG12	2:C:129:VAL:HG13	1.92	0.51
1:O:69:VAL:HG11	1:O:174:LEU:HD21	1.92	0.51
1:O:113:LYS:HB3	1:O:126:PRO:HD2	1.91	0.51
1:O:261:ILE:HD11	1:O:335:LYS:HB3	1.92	0.51
1:m:146:LEU:HG	1:m:156:ILE:HD11	1.92	0.51
1:m:248:PRO:HA	4:L:83:SER:HB2	1.92	0.51
1:Q:83:ASN:N	1:Q:163:GLU:O	2.33	0.51
1:Q:113:LYS:HB3	1:Q:126:PRO:HD2	1.92	0.51
1:F:264:SER:N	1:F:323:ASN:OD1	2.43	0.51
1:F:282:GLU:O	1:F:286:GLU:HG2	2.11	0.51
1:K:76:ARG:HG3	1:K:174:LEU:HD22	1.91	0.51
3:J:119:ASN:HB3	3:J:126:SER:HB2	1.92	0.51
2:H:33:LYS:HD2	2:H:82:GLY:HA2	1.93	0.51
2:H:115:LYS:HG3	2:H:143:ILE:HG21	1.91	0.51
1:R:217:GLY:HA2	4:N:139:HIS:HB2	1.93	0.51
2:U:229:LEU:HD12	2:U:233:LYS:HB3	1.93	0.51
1:o:138:LEU:O	1:o:162:PHE:N	2.43	0.51
3:l:54:LYS:HE2	2:a:14:GLU:HG2	1.92	0.51
1:Z:217:GLY:HA2	4:Y:139:HIS:HB2	1.93	0.51
2:c:39:GLY:N	2:c:79:VAL:O	2.35	0.51
2:a:127:VAL:HG12	2:a:129:VAL:HG13	1.91	0.51
1:e:265:ILE:HG22	1:e:342:VAL:HA	1.91	0.51
2:P:38:LEU:HD23	2:P:80:ILE:HG13	1.92	0.51
1:v:76:ARG:HG3	1:v:174:LEU:HD22	1.91	0.51
3:j:23:PRO:O	3:j:109:TYR:OH	2.27	0.51
2:S:229:LEU:HD12	2:S:233:LYS:HB3	1.92	0.51
1:m:87:GLU:N	1:m:157:THR:O	2.34	0.51
4:L:105:TYR:O	4:L:109:PHE:N	2.44	0.51
1:Q:56:PHE:CD2	4:M:52:MET:HG2	2.46	0.51
2:g:38:LEU:HD23	2:g:80:ILE:HG13	1.93	0.51
1:n:85:GLU:HB3	1:n:160:ARG:HH11	1.76	0.51
4:M:113:LEU:O	4:M:145:GLU:N	2.39	0.51
2:U:200:GLU:HA	2:a:6:PRO:HG3	1.92	0.51
1:Z:54:MET:HE1	1:Z:60:THR:HB	1.92	0.51
1:e:85:GLU:HB3	1:e:160:ARG:HH11	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:GLU:O	1:B:286:GLU:HG2	2.11	0.51
2:C:344:ALA:HB3	3:j:85:GLN:HG2	1.93	0.51
1:O:282:GLU:O	1:O:286:GLU:HG2	2.11	0.51
3:i:38:ILE:HG23	3:i:45:LYS:HD3	1.93	0.51
4:M:7:LEU:O	4:M:12:ARG:NH2	2.37	0.51
1:F:232:ASP:OD1	1:F:235:THR:N	2.40	0.51
1:F:261:ILE:HD11	1:F:335:LYS:HB3	1.91	0.51
2:I:80:ILE:HD13	2:I:88:THR:HG21	1.93	0.51
1:R:54:MET:HE1	1:R:60:THR:HB	1.92	0.51
2:h:68:ASN:ND2	2:h:174:THR:OG1	2.38	0.51
2:X:347:ASP:HB2	2:b:8:ILE:HD12	1.93	0.51
2:b:122:ARG:HG2	2:b:128:LYS:HA	1.92	0.51
1:B:295:ILE:HD11	1:B:299:ILE:HA	1.93	0.51
2:C:229:LEU:HG	2:C:238:GLN:HG2	1.91	0.51
1:O:22:ILE:HD11	3:i:39:LEU:HD13	1.93	0.51
2:S:344:ALA:HB3	3:i:85:GLN:HG2	1.93	0.51
1:m:30:LEU:HA	1:m:33:MET:HE2	1.92	0.51
3:i:84:GLY:HA3	3:i:86:LYS:HE2	1.91	0.51
1:Q:69:VAL:HG11	1:Q:174:LEU:HD21	1.91	0.51
2:T:344:ALA:HB3	3:k:85:GLN:HG2	1.93	0.51
1:n:248:PRO:HA	4:M:83:SER:HB2	1.93	0.51
2:H:38:LEU:HA	2:H:79:VAL:HG12	1.93	0.51
1:R:80:THR:OG1	1:R:164:GLY:O	2.23	0.51
1:R:282:GLU:O	1:R:286:GLU:HG2	2.11	0.51
2:U:229:LEU:HG	2:U:238:GLN:HG2	1.92	0.51
1:o:146:LEU:HG	1:o:156:ILE:HD11	1.92	0.51
1:o:299:ILE:HD12	1:o:329:ILE:HB	1.93	0.51
1:Z:261:ILE:HD11	1:Z:335:LYS:HB3	1.93	0.51
2:b:107:VAL:HG23	2:b:110:ASP:H	1.75	0.51
1:O:56:PHE:CD2	4:L:52:MET:HG2	2.46	0.51
2:f:208:LEU:HD21	2:f:219:ILE:HD12	1.93	0.51
4:L:117:ALA:HB2	4:L:146:PRO:HB2	1.93	0.51
1:Q:54:MET:HE1	1:Q:60:THR:HB	1.91	0.51
1:F:243:ILE:O	1:F:247:LYS:N	2.39	0.51
2:I:38:LEU:HA	2:I:79:VAL:HG12	1.93	0.51
2:G:26:GLY:O	2:G:74:LYS:N	2.41	0.51
2:G:350:LEU:HG	2:U:10:ILE:HD11	1.92	0.51
4:E:105:TYR:O	4:E:109:PHE:N	2.44	0.51
1:R:56:PHE:CD2	4:N:52:MET:HG2	2.46	0.51
2:X:29:ALA:HB2	2:X:76:LEU:HD12	1.91	0.51
4:N:105:TYR:O	4:N:109:PHE:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:84:GLY:HA3	3:d:86:LYS:HE2	1.92	0.51
2:b:41:ASN:ND2	2:b:52:ASP:OD2	2.44	0.51
1:B:264:SER:N	1:B:323:ASN:OD1	2.43	0.51
2:C:235:GLU:HA	2:C:238:GLN:HG3	1.93	0.51
1:v:146:LEU:HG	1:v:156:ILE:HD11	1.93	0.51
2:S:320:THR:HB	2:S:323:GLU:HG2	1.93	0.51
1:m:85:GLU:HB3	1:m:160:ARG:HH11	1.76	0.51
1:m:102:ILE:HD11	1:m:127:VAL:HG11	1.93	0.51
2:V:229:LEU:HG	2:V:238:GLN:HG2	1.93	0.51
4:L:87:VAL:O	4:L:91:ILE:HG13	2.11	0.51
1:n:138:LEU:O	1:n:162:PHE:N	2.43	0.51
1:n:265:ILE:HG13	1:n:322:ILE:HG12	1.93	0.51
1:F:97:ASN:O	1:F:100:THR:OG1	2.27	0.51
2:I:317:SER:O	2:I:319:MET:HE3	2.10	0.51
2:G:68:ASN:ND2	2:G:174:THR:OG1	2.36	0.51
1:K:33:MET:SD	4:E:20:GLN:NE2	2.84	0.51
1:K:138:LEU:O	1:K:162:PHE:N	2.43	0.51
1:R:261:ILE:HD11	1:R:335:LYS:HB3	1.92	0.51
1:R:295:ILE:HD11	1:R:299:ILE:HA	1.92	0.51
2:h:296:SER:OG	2:h:338:LYS:O	2.24	0.51
2:h:347:ASP:HA	2:c:8:ILE:HG22	1.93	0.51
2:h:353:GLU:N	2:U:337:ALA:O	2.44	0.51
1:Z:56:PHE:CD2	4:Y:52:MET:HG2	2.46	0.51
1:Z:276:THR:CG2	1:Z:277:LEU:N	2.74	0.51
1:e:232:ASP:OD1	1:e:235:THR:N	2.38	0.51
2:f:59:GLU:OE2	2:f:158:TYR:OH	2.24	0.50
1:F:276:THR:CG2	1:F:277:LEU:N	2.74	0.50
1:K:30:LEU:HA	1:K:33:MET:HE2	1.92	0.50
1:o:248:PRO:HA	4:N:83:SER:HB2	1.93	0.50
4:N:87:VAL:O	4:N:91:ILE:HG13	2.11	0.50
1:Z:282:GLU:O	1:Z:286:GLU:HG2	2.11	0.50
1:e:146:LEU:HG	1:e:156:ILE:HD11	1.93	0.50
1:e:248:PRO:HA	4:Y:83:SER:HB2	1.93	0.50
3:d:119:ASN:HB3	3:d:126:SER:HB2	1.93	0.50
1:B:22:ILE:HG23	3:j:42:GLY:O	2.12	0.50
2:P:179:SER:HB3	2:C:263:GLY:HA2	1.93	0.50
2:C:347:ASP:HA	3:j:83:ILE:HD12	1.93	0.50
1:v:30:LEU:HA	1:v:33:MET:HE2	1.92	0.50
1:m:34:VAL:O	1:m:38:ASN:ND2	2.45	0.50
1:m:138:LEU:O	1:m:162:PHE:N	2.43	0.50
2:V:34:ASP:HB2	2:V:79:VAL:HG13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:34:ASP:HB2	2:W:79:VAL:HG13	1.93	0.50
2:W:68:ASN:ND2	2:W:174:THR:OG1	2.38	0.50
1:F:89:ILE:HB	1:F:155:LYS:HB3	1.91	0.50
1:F:216:PRO:HB3	4:E:108:GLU:O	2.12	0.50
1:F:306:GLY:HA2	1:F:309:ILE:HG22	1.93	0.50
2:I:208:LEU:HD21	2:I:219:ILE:HD12	1.93	0.50
2:H:229:LEU:HG	2:H:238:GLN:HG2	1.93	0.50
1:R:216:PRO:HB3	4:N:108:GLU:O	2.12	0.50
2:U:344:ALA:HB3	3:l:85:GLN:HG2	1.93	0.50
2:b:115:LYS:HG3	2:b:143:ILE:HG21	1.94	0.50
2:P:353:GLU:HB2	2:C:338:LYS:HA	1.93	0.50
2:D:128:LYS:HB2	2:D:247:ASP:CG	2.37	0.50
1:O:272:GLU:HG2	1:O:315:HIS:HB2	1.93	0.50
2:f:300:ILE:HD13	2:f:335:LEU:HD23	1.93	0.50
4:L:7:LEU:O	4:L:12:ARG:NH2	2.37	0.50
4:L:115:PHE:O	4:L:147:ILE:N	2.40	0.50
2:g:179:SER:HB3	2:T:263:GLY:HA2	1.93	0.50
2:X:32:LEU:HD13	2:X:104:PRO:HG2	1.94	0.50
2:X:68:ASN:ND2	2:X:174:THR:OG1	2.37	0.50
1:Z:216:PRO:HB3	4:Y:108:GLU:O	2.11	0.50
2:a:224:ASN:N	2:a:238:GLN:O	2.36	0.50
1:e:30:LEU:HA	1:e:33:MET:HE2	1.94	0.50
2:P:146:PHE:HB3	2:P:164:THR:HG22	1.94	0.50
4:A:117:ALA:HB2	4:A:146:PRO:HB2	1.93	0.50
1:O:80:THR:OG1	1:O:164:GLY:O	2.23	0.50
2:f:179:SER:HB3	2:S:263:GLY:HA2	1.92	0.50
2:S:229:LEU:HG	2:S:238:GLN:HG2	1.92	0.50
4:M:87:VAL:O	4:M:91:ILE:HG13	2.12	0.50
4:E:87:VAL:O	4:E:91:ILE:HG13	2.12	0.50
1:R:68:ARG:NE	1:R:71:GLU:OE2	2.45	0.50
2:h:80:ILE:HD13	2:h:88:THR:HG21	1.94	0.50
2:U:320:THR:HB	2:U:323:GLU:HG2	1.93	0.50
1:o:34:VAL:O	1:o:38:ASN:ND2	2.45	0.50
2:X:131:ALA:O	2:X:144:ILE:N	2.45	0.50
4:N:117:ALA:HB2	4:N:146:PRO:HB2	1.93	0.50
2:c:208:LEU:HD21	2:c:219:ILE:HD12	1.93	0.50
2:a:235:GLU:HA	2:a:238:GLN:HG3	1.93	0.50
1:e:64:PHE:O	1:e:68:ARG:HG2	2.11	0.50
4:Y:105:TYR:O	4:Y:109:PHE:N	2.44	0.50
1:B:113:LYS:HB3	1:B:126:PRO:HD2	1.92	0.50
1:v:64:PHE:O	1:v:68:ARG:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:132:VAL:HA	2:D:144:ILE:HB	1.93	0.50
2:f:80:ILE:HD13	2:f:88:THR:HG21	1.94	0.50
2:S:68:ASN:ND2	2:S:174:THR:OG1	2.36	0.50
1:n:64:PHE:O	1:n:68:ARG:HG2	2.11	0.50
2:W:131:ALA:O	2:W:144:ILE:N	2.44	0.50
4:M:105:TYR:O	4:M:109:PHE:N	2.44	0.50
4:M:117:ALA:HB2	4:M:146:PRO:HB2	1.93	0.50
1:K:34:VAL:O	1:K:38:ASN:ND2	2.45	0.50
2:H:28:ILE:HG23	2:H:30:MET:HE3	1.94	0.50
2:U:26:GLY:O	2:U:74:LYS:N	2.41	0.50
1:o:33:MET:SD	4:N:20:GLN:NE2	2.85	0.50
1:o:76:ARG:HH22	1:o:78:LEU:HD13	1.77	0.50
1:v:33:MET:SD	4:A:20:GLN:NE2	2.84	0.50
2:D:224:ASN:N	2:D:238:GLN:O	2.40	0.50
2:W:122:ARG:NH1	2:W:129:VAL:O	2.40	0.50
2:I:49:ILE:HG21	2:I:58:LYS:HG3	1.91	0.50
1:K:64:PHE:O	1:K:68:ARG:HG2	2.11	0.50
1:K:72:PHE:O	4:E:78:ARG:NE	2.45	0.50
1:K:191:LYS:NZ	1:K:195:GLU:OE2	2.44	0.50
1:K:232:ASP:OD1	1:K:235:THR:N	2.38	0.50
3:J:38:ILE:HG23	3:J:45:LYS:HD3	1.92	0.50
2:H:41:ASN:ND2	2:H:52:ASP:OD2	2.45	0.50
2:H:315:ASP:HB3	2:H:319:MET:HE1	1.93	0.50
1:R:22:ILE:HG23	3:l:42:GLY:O	2.12	0.50
2:c:38:LEU:HD23	2:c:80:ILE:HG13	1.93	0.50
2:a:229:LEU:HG	2:a:238:GLN:HG2	1.92	0.50
2:b:60:TYR:CE1	2:b:162:GLU:HA	2.47	0.50
1:B:216:PRO:HB3	4:A:108:GLU:O	2.12	0.50
1:v:34:VAL:O	1:v:38:ASN:ND2	2.45	0.50
1:v:158:ASN:ND2	1:v:160:ARG:O	2.45	0.50
3:j:119:ASN:HB3	3:j:126:SER:HB2	1.92	0.50
2:D:229:LEU:HG	2:D:238:GLN:HG2	1.93	0.50
1:O:306:GLY:HA2	1:O:309:ILE:HG22	1.92	0.50
2:f:187:ASP:OD1	2:f:187:ASP:N	2.45	0.50
1:m:64:PHE:O	1:m:68:ARG:HG2	2.12	0.50
1:m:265:ILE:HG22	1:m:342:VAL:HA	1.92	0.50
2:V:39:GLY:N	2:V:79:VAL:O	2.38	0.50
2:V:315:ASP:HB3	2:V:319:MET:HE1	1.94	0.50
1:Q:261:ILE:HD11	1:Q:335:LYS:HB3	1.92	0.50
1:Q:272:GLU:HG2	1:Q:315:HIS:HB2	1.93	0.50
3:k:22:LEU:O	3:k:135:TYR:OH	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:179:SER:HB3	2:G:263:GLY:HA2	1.93	0.50
2:I:300:ILE:HD13	2:I:335:LEU:HD23	1.94	0.50
2:U:347:ASP:HA	3:l:83:ILE:HD12	1.92	0.50
1:o:85:GLU:HB3	1:o:160:ARG:HH11	1.76	0.50
1:o:102:ILE:HD11	1:o:127:VAL:HG11	1.94	0.50
2:X:229:LEU:HG	2:X:238:GLN:HG2	1.92	0.50
2:c:353:GLU:N	2:a:337:ALA:O	2.44	0.50
1:e:72:PHE:O	4:Y:78:ARG:NE	2.45	0.50
1:e:295:ILE:HD11	1:e:299:ILE:HA	1.94	0.50
4:Y:87:VAL:O	4:Y:91:ILE:HG13	2.12	0.50
1:B:304:VAL:O	1:B:307:ILE:HG22	2.12	0.50
4:A:105:TYR:O	4:A:109:PHE:N	2.45	0.50
2:S:347:ASP:HA	3:i:83:ILE:HD12	1.92	0.50
1:m:20:LEU:HD12	1:m:22:ILE:HB	1.94	0.50
1:m:232:ASP:OD1	1:m:235:THR:N	2.38	0.50
3:i:23:PRO:O	3:i:109:TYR:OH	2.26	0.50
2:g:353:GLU:N	2:T:337:ALA:O	2.44	0.50
2:W:315:ASP:OD1	2:W:316:LEU:N	2.44	0.50
1:F:77:LYS:O	1:F:169:GLU:HB2	2.12	0.50
2:G:235:GLU:HA	2:G:238:GLN:HG3	1.94	0.50
2:h:263:GLY:HA2	2:X:179:SER:HB3	1.92	0.50
2:X:31:VAL:HG13	2:X:103:MET:SD	2.51	0.50
2:X:224:ASN:N	2:X:238:GLN:O	2.40	0.50
2:a:344:ALA:HB3	3:d:85:GLN:HG2	1.93	0.50
1:e:76:ARG:HH22	1:e:78:LEU:HD13	1.77	0.50
1:e:138:LEU:O	1:e:162:PHE:N	2.43	0.50
2:b:315:ASP:OD1	2:b:316:LEU:N	2.44	0.50
1:B:56:PHE:CD2	4:A:52:MET:HG2	2.46	0.50
2:P:39:GLY:N	2:P:79:VAL:O	2.34	0.50
2:P:208:LEU:HD21	2:P:219:ILE:HD12	1.94	0.50
2:P:268:SER:O	2:P:272:LYS:N	2.40	0.50
2:P:296:SER:OG	2:P:338:LYS:O	2.25	0.50
1:v:76:ARG:HH22	1:v:78:LEU:HD13	1.77	0.50
1:v:102:ILE:HD11	1:v:127:VAL:HG11	1.94	0.50
2:V:128:LYS:HB2	2:V:247:ASP:CG	2.37	0.50
1:n:304:VAL:O	1:n:307:ILE:HG22	2.12	0.50
1:F:22:ILE:HG23	3:J:42:GLY:O	2.12	0.50
2:H:39:GLY:N	2:H:79:VAL:O	2.39	0.50
2:U:36:LYS:O	2:U:36:LYS:NZ	2.37	0.50
1:o:191:LYS:NZ	1:o:195:GLU:OE2	2.43	0.50
2:X:128:LYS:HB2	2:X:247:ASP:CG	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:315:ASP:HB3	2:X:319:MET:HE1	1.94	0.50
2:a:153:VAL:HG22	2:a:188:VAL:HG22	1.94	0.50
3:d:23:PRO:O	3:d:109:TYR:OH	2.26	0.50
2:P:80:ILE:HD13	2:P:88:THR:HG21	1.93	0.49
1:v:61:TYR:H	1:v:64:PHE:HB2	1.76	0.49
1:v:72:PHE:O	4:A:78:ARG:NE	2.45	0.49
2:D:34:ASP:HB2	2:D:79:VAL:HG13	1.93	0.49
1:O:216:PRO:HB3	4:L:108:GLU:O	2.11	0.49
1:m:33:MET:SD	4:L:20:GLN:NE2	2.85	0.49
1:m:76:ARG:HH22	1:m:78:LEU:HD13	1.77	0.49
1:Q:22:ILE:HG23	3:k:42:GLY:O	2.12	0.49
2:T:143:ILE:O	2:T:225:SER:OG	2.30	0.49
2:T:305:GLN:HE22	2:T:325:LYS:HA	1.77	0.49
1:n:72:PHE:O	4:M:78:ARG:NE	2.45	0.49
2:W:39:GLY:N	2:W:79:VAL:O	2.38	0.49
4:M:136:LYS:HD2	4:M:137:PRO:O	2.12	0.49
1:F:22:ILE:HD11	3:J:39:LEU:HD13	1.94	0.49
1:F:83:ASN:N	1:F:163:GLU:O	2.33	0.49
2:G:305:GLN:HE22	2:G:325:LYS:HA	1.77	0.49
1:K:196:GLU:HA	1:K:199:LEU:HD12	1.94	0.49
1:K:265:ILE:HG22	1:K:342:VAL:HA	1.93	0.49
2:H:132:VAL:HA	2:H:144:ILE:HB	1.94	0.49
4:E:7:LEU:O	4:E:12:ARG:NH2	2.37	0.49
2:U:118:ILE:HG23	2:U:129:VAL:HG23	1.94	0.49
2:U:224:ASN:N	2:U:238:GLN:O	2.36	0.49
2:b:34:ASP:HB2	2:b:79:VAL:HG13	1.93	0.49
2:b:68:ASN:ND2	2:b:174:THR:OG1	2.36	0.49
2:C:153:VAL:HG22	2:C:188:VAL:HG22	1.94	0.49
1:v:7:TYR:OH	1:v:35:SER:HB2	2.12	0.49
1:v:299:ILE:HD12	1:v:329:ILE:HB	1.92	0.49
1:m:7:TYR:OH	1:m:35:SER:HB2	2.13	0.49
2:T:235:GLU:HA	2:T:238:GLN:HG3	1.93	0.49
1:n:196:GLU:HA	1:n:199:LEU:HD12	1.94	0.49
2:W:315:ASP:HB3	2:W:319:MET:HE1	1.94	0.49
4:M:132:ILE:O	4:M:136:LYS:N	2.27	0.49
2:I:353:GLU:N	2:G:337:ALA:O	2.45	0.49
2:G:39:GLY:H	2:G:79:VAL:HB	1.77	0.49
1:K:85:GLU:HB3	1:K:160:ARG:HH11	1.76	0.49
1:R:276:THR:CG2	1:R:277:LEU:N	2.73	0.49
2:h:179:SER:HB3	2:U:263:GLY:HA2	1.92	0.49
2:C:118:ILE:HG23	2:C:129:VAL:HG23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:305:GLN:HE22	2:C:325:LYS:HA	1.77	0.49
1:v:6:THR:O	1:v:10:ILE:HG12	2.12	0.49
2:D:315:ASP:HB3	2:D:319:MET:HE1	1.94	0.49
4:A:87:VAL:O	4:A:91:ILE:HG13	2.11	0.49
4:A:134:ARG:NH1	4:A:134:ARG:O	2.45	0.49
4:A:136:LYS:HD2	4:A:137:PRO:O	2.12	0.49
1:O:68:ARG:NE	1:O:71:GLU:OE2	2.46	0.49
1:Q:91:GLU:N	1:Q:152:GLY:O	2.45	0.49
1:Q:264:SER:N	1:Q:323:ASN:OD1	2.42	0.49
2:g:208:LEU:HD21	2:g:219:ILE:HD12	1.94	0.49
2:g:347:ASP:HA	2:I:8:ILE:HG22	1.92	0.49
2:T:320:THR:HB	2:T:323:GLU:HG2	1.95	0.49
2:W:229:LEU:HG	2:W:238:GLN:HG2	1.93	0.49
4:M:50:LEU:HD13	4:M:69:ARG:HB2	1.94	0.49
1:K:102:ILE:N	1:K:109:PHE:O	2.40	0.49
2:H:128:LYS:HB2	2:H:247:ASP:CG	2.36	0.49
1:o:6:THR:O	1:o:10:ILE:HG12	2.12	0.49
1:o:304:VAL:O	1:o:307:ILE:HG22	2.12	0.49
1:Z:22:ILE:HG23	3:d:42:GLY:O	2.12	0.49
2:a:347:ASP:HA	3:d:83:ILE:HD12	1.94	0.49
1:e:102:ILE:HD11	1:e:127:VAL:HG11	1.94	0.49
2:b:128:LYS:HB2	2:b:247:ASP:CG	2.37	0.49
2:b:132:VAL:HA	2:b:144:ILE:HB	1.93	0.49
1:B:77:LYS:O	1:B:169:GLU:HB2	2.12	0.49
2:D:60:TYR:CE1	2:D:162:GLU:HA	2.47	0.49
1:O:91:GLU:N	1:O:152:GLY:O	2.45	0.49
2:f:353:GLU:N	2:S:337:ALA:O	2.45	0.49
2:S:345:MET:HG3	3:i:125:LEU:HB2	1.95	0.49
1:Q:304:VAL:O	1:Q:307:ILE:HG22	2.12	0.49
2:g:187:ASP:N	2:g:187:ASP:OD1	2.45	0.49
1:n:191:LYS:NZ	1:n:195:GLU:OE2	2.44	0.49
1:F:272:GLU:HG2	1:F:315:HIS:HB2	1.93	0.49
2:G:347:ASP:HA	3:J:83:ILE:HD12	1.94	0.49
4:E:117:ALA:HB2	4:E:146:PRO:HB2	1.93	0.49
4:E:136:LYS:HD2	4:E:137:PRO:O	2.12	0.49
1:o:72:PHE:O	4:N:78:ARG:NE	2.45	0.49
1:Z:272:GLU:HG2	1:Z:315:HIS:HB2	1.93	0.49
1:e:20:LEU:HD12	1:e:22:ILE:HB	1.93	0.49
2:C:200:GLU:HG3	2:S:6:PRO:HG3	1.94	0.49
2:f:146:PHE:HB3	2:f:164:THR:HG22	1.95	0.49
2:f:191:ILE:HG23	2:f:217:ILE:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:131:ALA:O	2:V:144:ILE:N	2.45	0.49
1:Q:216:PRO:HB3	4:M:108:GLU:O	2.12	0.49
2:g:191:ILE:HG23	2:g:217:ILE:HD13	1.95	0.49
2:g:335:LEU:O	2:W:350:LEU:HA	2.12	0.49
1:n:20:LEU:HD12	1:n:22:ILE:HB	1.94	0.49
1:n:30:LEU:HA	1:n:33:MET:HE2	1.93	0.49
1:n:146:LEU:HG	1:n:156:ILE:HD11	1.93	0.49
3:J:30:TRP:HA	3:J:38:ILE:HG22	1.94	0.49
2:h:300:ILE:HD13	2:h:335:LEU:HD23	1.95	0.49
2:U:153:VAL:HG22	2:U:188:VAL:HG22	1.94	0.49
1:o:64:PHE:O	1:o:68:ARG:HG2	2.12	0.49
4:N:136:LYS:HD2	4:N:137:PRO:O	2.13	0.49
2:c:179:SER:HB3	2:a:263:GLY:HA2	1.94	0.49
2:c:263:GLY:HA2	2:b:179:SER:HB3	1.94	0.49
1:e:196:GLU:HA	1:e:199:LEU:HD12	1.94	0.49
1:e:299:ILE:HD12	1:e:329:ILE:HB	1.94	0.49
1:B:217:GLY:HA2	4:A:139:HIS:HB2	1.95	0.49
1:B:272:GLU:HG2	1:B:315:HIS:HB2	1.94	0.49
1:v:138:LEU:O	1:v:162:PHE:N	2.43	0.49
1:O:22:ILE:HG23	3:i:42:GLY:O	2.12	0.49
1:O:295:ILE:HD11	1:O:299:ILE:HA	1.94	0.49
4:L:50:LEU:HD13	4:L:69:ARG:HB2	1.95	0.49
2:T:90:LEU:HG	2:T:117:TRP:CD2	2.48	0.49
1:F:30:LEU:O	1:F:33:MET:HG3	2.12	0.49
2:I:335:LEU:O	2:H:350:LEU:HA	2.13	0.49
1:K:299:ILE:HD12	1:K:329:ILE:HB	1.95	0.49
1:R:30:LEU:O	1:R:33:MET:HG3	2.13	0.49
1:R:272:GLU:HG2	1:R:315:HIS:HB2	1.93	0.49
1:R:304:VAL:O	1:R:307:ILE:HG22	2.13	0.49
2:h:335:LEU:O	2:X:350:LEU:HA	2.12	0.49
2:U:305:GLN:HE22	2:U:325:LYS:HA	1.77	0.49
1:o:196:GLU:HA	1:o:199:LEU:HD12	1.95	0.49
1:Z:30:LEU:O	1:Z:33:MET:HG3	2.13	0.49
1:Z:83:ASN:N	1:Z:163:GLU:O	2.33	0.49
2:a:305:GLN:HE22	2:a:325:LYS:HA	1.77	0.49
3:d:79:LEU:HD11	3:d:100:ILE:HG12	1.95	0.49
1:B:68:ARG:NE	1:B:71:GLU:OE2	2.46	0.49
2:C:39:GLY:H	2:C:79:VAL:HB	1.78	0.49
2:D:68:ASN:ND2	2:D:174:THR:OG1	2.35	0.49
2:S:39:GLY:H	2:S:79:VAL:HB	1.78	0.49
4:L:51:ASP:OD1	4:L:52:MET:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:347:ASP:HA	3:k:83:ILE:HD12	1.93	0.49
1:F:217:GLY:HA2	4:E:139:HIS:HB2	1.95	0.49
2:I:191:ILE:HG23	2:I:217:ILE:HD13	1.94	0.49
2:G:153:VAL:HG22	2:G:188:VAL:HG22	1.94	0.49
4:E:39:ASN:O	4:E:45:THR:OG1	2.27	0.49
2:h:208:LEU:HD21	2:h:219:ILE:HD12	1.94	0.49
4:N:113:LEU:O	4:N:145:GLU:N	2.40	0.49
1:e:44:ILE:HD13	4:Y:30:LEU:HD22	1.95	0.49
4:Y:136:LYS:HD2	4:Y:137:PRO:O	2.12	0.49
1:v:248:PRO:HA	4:A:83:SER:HB2	1.95	0.49
2:f:335:LEU:O	2:V:350:LEU:HA	2.13	0.49
2:S:118:ILE:HG23	2:S:129:VAL:HG23	1.94	0.49
1:m:6:THR:O	1:m:10:ILE:HG12	2.12	0.49
1:Q:30:LEU:O	1:Q:33:MET:HG3	2.13	0.49
4:M:39:ASN:O	4:M:45:THR:OG1	2.26	0.49
2:I:52:ASP:OD1	2:I:53:LEU:N	2.45	0.49
1:K:6:THR:O	1:K:10:ILE:HG12	2.12	0.49
2:c:191:ILE:HG23	2:c:217:ILE:HD13	1.94	0.49
2:c:338:LYS:HA	2:b:353:GLU:N	2.26	0.49
2:P:353:GLU:N	2:C:337:ALA:O	2.45	0.49
2:P:354:ILE:HG13	2:f:14:GLU:HA	1.94	0.49
4:A:50:LEU:HD13	4:A:69:ARG:HB2	1.94	0.49
2:f:353:GLU:HB2	2:S:338:LYS:HA	1.95	0.49
2:S:90:LEU:HG	2:S:117:TRP:CD2	2.48	0.49
2:S:305:GLN:HE22	2:S:325:LYS:HA	1.78	0.49
2:g:353:GLU:HB2	2:T:338:LYS:HA	1.94	0.49
1:n:76:ARG:HH22	1:n:78:LEU:HD13	1.77	0.49
1:n:102:ILE:HD11	1:n:127:VAL:HG11	1.94	0.49
4:M:134:ARG:NH1	4:M:134:ARG:O	2.45	0.49
1:F:68:ARG:NE	1:F:71:GLU:OE2	2.45	0.49
2:I:229:LEU:HD12	2:I:233:LYS:HB3	1.95	0.49
2:I:353:GLU:HB2	2:G:338:LYS:HA	1.94	0.49
1:K:146:LEU:HG	1:K:156:ILE:HD11	1.93	0.49
2:h:187:ASP:OD1	2:h:187:ASP:N	2.45	0.49
2:X:115:LYS:HG3	2:X:143:ILE:HG21	1.94	0.49
2:c:146:PHE:HB3	2:c:164:THR:HG22	1.95	0.49
2:P:8:ILE:HG22	2:c:347:ASP:HA	1.95	0.49
4:A:51:ASP:OD1	4:A:52:MET:N	2.45	0.49
1:m:72:PHE:O	4:L:78:ARG:NE	2.45	0.49
2:V:68:ASN:ND2	2:V:174:THR:OG1	2.37	0.49
1:Q:295:ILE:HD11	1:Q:299:ILE:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:128:LYS:HB2	2:W:247:ASP:CG	2.37	0.49
2:G:320:THR:HB	2:G:323:GLU:HG2	1.95	0.49
1:o:20:LEU:HD12	1:o:22:ILE:HB	1.94	0.49
1:o:232:ASP:OD1	1:o:235:THR:N	2.39	0.49
2:c:107:VAL:HG23	2:c:110:ASP:H	1.78	0.49
1:B:134:LYS:HG2	1:B:137:ASN:HD22	1.78	0.48
1:v:265:ILE:HG22	1:v:342:VAL:HA	1.95	0.48
1:v:295:ILE:HD11	1:v:299:ILE:HA	1.95	0.48
2:D:38:LEU:HA	2:D:79:VAL:HG12	1.94	0.48
2:f:232:GLU:HG3	2:W:14:GLU:CD	2.38	0.48
2:f:263:GLY:HA2	2:V:179:SER:HB3	1.95	0.48
1:Q:68:ARG:NE	1:Q:71:GLU:OE2	2.46	0.48
2:g:39:GLY:N	2:g:79:VAL:O	2.34	0.48
1:n:44:ILE:HD13	4:M:30:LEU:HD22	1.95	0.48
2:W:38:LEU:HA	2:W:79:VAL:HG12	1.95	0.48
2:I:187:ASP:N	2:I:187:ASP:OD1	2.45	0.48
2:I:268:SER:O	2:I:272:LYS:N	2.39	0.48
1:K:7:TYR:OH	1:K:35:SER:HB2	2.12	0.48
1:K:61:TYR:H	1:K:64:PHE:HB2	1.77	0.48
4:E:134:ARG:NH1	4:E:134:ARG:O	2.46	0.48
2:c:268:SER:O	2:c:272:LYS:N	2.40	0.48
2:a:39:GLY:H	2:a:79:VAL:HB	1.78	0.48
1:e:158:ASN:ND2	1:e:160:ARG:O	2.45	0.48
4:Y:117:ALA:HB2	4:Y:146:PRO:HB2	1.93	0.48
4:Y:134:ARG:NH1	4:Y:134:ARG:O	2.45	0.48
1:B:69:VAL:HG11	1:B:174:LEU:HD21	1.96	0.48
2:C:90:LEU:HG	2:C:117:TRP:CD2	2.49	0.48
2:g:354:ILE:HG13	2:I:14:GLU:HA	1.94	0.48
1:n:295:ILE:HD11	1:n:299:ILE:HA	1.94	0.48
1:n:299:ILE:HD12	1:n:329:ILE:HB	1.94	0.48
1:F:281:LYS:HE2	1:F:342:VAL:HG12	1.95	0.48
2:I:146:PHE:HB3	2:I:164:THR:HG22	1.94	0.48
3:l:79:LEU:HD11	3:l:100:ILE:HG12	1.95	0.48
1:Z:68:ARG:NE	1:Z:71:GLU:OE2	2.46	0.48
2:c:353:GLU:HB2	2:a:338:LYS:HA	1.94	0.48
3:d:38:ILE:HG23	3:d:45:LYS:HD3	1.95	0.48
1:B:91:GLU:N	1:B:152:GLY:O	2.45	0.48
2:P:52:ASP:OD1	2:P:53:LEU:N	2.46	0.48
2:P:107:VAL:HG23	2:P:110:ASP:H	1.79	0.48
2:P:335:LEU:O	2:D:350:LEU:HA	2.13	0.48
3:j:65:ARG:HE	3:j:73:LEU:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:8:ILE:HG21	2:b:348:ILE:N	2.19	0.48
1:O:30:LEU:O	1:O:33:MET:HG3	2.13	0.48
2:S:153:VAL:HG22	2:S:188:VAL:HG22	1.94	0.48
3:i:65:ARG:HE	3:i:73:LEU:HA	1.78	0.48
2:g:52:ASP:OD1	2:g:53:LEU:N	2.46	0.48
2:T:39:GLY:H	2:T:79:VAL:HB	1.78	0.48
2:T:345:MET:HG3	3:k:125:LEU:HB2	1.94	0.48
2:T:353:GLU:HG3	3:k:130:LYS:HA	1.96	0.48
2:W:31:VAL:HG13	2:W:103:MET:SD	2.53	0.48
1:F:63:GLN:CD	1:F:63:GLN:H	2.22	0.48
2:I:335:LEU:N	2:H:349:ASP:O	2.46	0.48
3:J:22:LEU:O	3:J:135:TYR:OH	2.24	0.48
2:h:353:GLU:HB2	2:U:338:LYS:HA	1.94	0.48
2:a:320:THR:HB	2:a:323:GLU:HG2	1.95	0.48
1:e:89:ILE:O	1:e:154:THR:OG1	2.29	0.48
2:b:229:LEU:HG	2:b:238:GLN:HG2	1.93	0.48
2:P:68:ASN:ND2	2:P:174:THR:OG1	2.39	0.48
2:P:347:ASP:HA	2:f:8:ILE:HG22	1.94	0.48
2:C:320:THR:HB	2:C:323:GLU:HG2	1.95	0.48
1:v:186:ALA:HA	1:v:193:HIS:CD2	2.49	0.48
1:v:196:GLU:HA	1:v:199:LEU:HD12	1.94	0.48
2:D:349:ASP:CG	2:V:8:ILE:HD11	2.38	0.48
1:O:83:ASN:N	1:O:163:GLU:O	2.32	0.48
1:O:217:GLY:HA2	4:L:139:HIS:HB2	1.95	0.48
2:f:39:GLY:N	2:f:79:VAL:O	2.35	0.48
2:V:32:LEU:HD13	2:V:104:PRO:HG2	1.95	0.48
1:n:69:VAL:O	1:n:73:GLY:N	2.47	0.48
1:n:250:GLY:H	4:M:85:ILE:HD11	1.78	0.48
3:k:65:ARG:HE	3:k:73:LEU:HA	1.78	0.48
1:F:91:GLU:N	1:F:152:GLY:O	2.45	0.48
2:I:107:VAL:HG23	2:I:110:ASP:H	1.79	0.48
1:K:76:ARG:HH22	1:K:78:LEU:HD13	1.78	0.48
2:h:52:ASP:OD1	2:h:53:LEU:N	2.47	0.48
1:o:1:MET:SD	1:o:3:SER:N	2.73	0.48
2:a:90:LEU:HG	2:a:117:TRP:CD2	2.48	0.48
2:b:315:ASP:HB3	2:b:319:MET:HE1	1.94	0.48
4:Y:113:LEU:O	4:Y:145:GLU:N	2.39	0.48
1:B:30:LEU:O	1:B:33:MET:HG3	2.13	0.48
1:B:281:LYS:HE2	1:B:342:VAL:HG12	1.95	0.48
2:P:301:ASP:HB2	2:P:335:LEU:O	2.13	0.48
2:C:190:ASP:OD1	2:C:190:ASP:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:186:ALA:HA	1:m:193:HIS:CD2	2.49	0.48
1:m:191:LYS:NZ	1:m:195:GLU:OE2	2.43	0.48
1:Q:235:THR:HA	1:Q:238:ARG:HE	1.79	0.48
2:g:146:PHE:HB3	2:g:164:THR:HG22	1.95	0.48
2:g:300:ILE:HD13	2:g:335:LEU:HD23	1.94	0.48
2:T:153:VAL:HG22	2:T:188:VAL:HG22	1.94	0.48
1:n:62:ASN:OD1	1:n:63:GLN:N	2.46	0.48
1:n:186:ALA:HA	1:n:193:HIS:CD2	2.48	0.48
3:k:54:LYS:HE2	2:G:14:GLU:HG2	1.95	0.48
2:W:32:LEU:HD13	2:W:104:PRO:HG2	1.94	0.48
2:I:230:THR:OG1	2:I:233:LYS:HG2	2.13	0.48
2:G:118:ILE:HG23	2:G:129:VAL:HG23	1.94	0.48
1:K:1:MET:SD	1:K:3:SER:N	2.73	0.48
3:J:23:PRO:O	3:J:109:TYR:OH	2.27	0.48
2:h:107:VAL:HG23	2:h:110:ASP:H	1.79	0.48
2:U:345:MET:HG3	3:l:125:LEU:HB2	1.95	0.48
1:o:250:GLY:H	4:N:85:ILE:HD11	1.78	0.48
3:l:23:PRO:O	3:l:109:TYR:OH	2.26	0.48
2:c:52:ASP:OD1	2:c:53:LEU:N	2.46	0.48
2:b:38:LEU:HA	2:b:79:VAL:HG12	1.95	0.48
1:B:197:TRP:CE2	1:B:246:GLU:HB3	2.49	0.48
2:P:267:ASN:HB2	2:D:343:ASP:O	2.14	0.48
1:Q:232:ASP:OD1	1:Q:235:THR:N	2.40	0.48
2:T:118:ILE:HG23	2:T:129:VAL:HG23	1.94	0.48
2:W:224:ASN:N	2:W:238:GLN:O	2.40	0.48
1:F:295:ILE:HD11	1:F:299:ILE:HA	1.94	0.48
3:J:65:ARG:HE	3:J:73:LEU:HA	1.78	0.48
2:H:34:ASP:HB2	2:H:79:VAL:HG13	1.95	0.48
1:o:7:TYR:OH	1:o:35:SER:HB2	2.13	0.48
1:Z:264:SER:HB2	1:Z:341:THR:HB	1.96	0.48
2:a:56:GLU:OE2	2:a:105:LYS:NZ	2.29	0.48
1:e:34:VAL:HG12	1:e:38:ASN:HD21	1.79	0.48
1:e:62:ASN:OD1	1:e:63:GLN:N	2.46	0.48
1:e:191:LYS:NZ	1:e:195:GLU:OE2	2.44	0.48
4:Y:50:LEU:HD13	4:Y:69:ARG:HB2	1.94	0.48
2:P:14:GLU:HA	2:c:354:ILE:HG13	1.95	0.48
2:P:191:ILE:HG23	2:P:217:ILE:HD13	1.96	0.48
1:v:244:ASP:HA	1:v:247:LYS:HD3	1.96	0.48
3:j:79:LEU:HD11	3:j:100:ILE:HG12	1.95	0.48
2:D:122:ARG:CZ	2:D:128:LYS:HB3	2.44	0.48
2:S:132:VAL:HG21	2:S:168:ALA:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:299:ILE:HD12	1:m:329:ILE:HB	1.94	0.48
4:L:113:LEU:O	4:L:145:GLU:N	2.40	0.48
4:L:136:LYS:HD2	4:L:137:PRO:O	2.13	0.48
1:n:68:ARG:HH11	1:n:68:ARG:HA	1.79	0.48
3:k:79:LEU:HD11	3:k:100:ILE:HG12	1.95	0.48
1:K:68:ARG:HH11	1:K:68:ARG:HA	1.79	0.48
1:K:102:ILE:HD11	1:K:127:VAL:HG11	1.94	0.48
3:J:79:LEU:HD11	3:J:100:ILE:HG12	1.95	0.48
1:e:49:SER:HA	1:e:52:HIS:HD2	1.79	0.48
2:b:269:TYR:HA	2:b:272:LYS:HE2	1.96	0.48
2:S:301:ASP:HB3	2:S:334:PHE:HB3	1.96	0.48
2:V:115:LYS:HG3	2:V:143:ILE:HG21	1.94	0.48
1:Q:217:GLY:HA2	4:M:139:HIS:HB2	1.95	0.48
2:g:80:ILE:HD13	2:g:88:THR:HG21	1.96	0.48
3:k:38:ILE:HG23	3:k:45:LYS:HD3	1.94	0.48
4:M:51:ASP:OD1	4:M:52:MET:N	2.46	0.48
1:F:56:PHE:CD2	4:E:52:MET:HG2	2.49	0.48
1:F:88:PHE:HB3	1:F:117:ILE:HD11	1.95	0.48
2:I:299:GLU:O	2:I:336:LYS:N	2.32	0.48
2:G:190:ASP:OD1	2:G:190:ASP:N	2.47	0.48
1:K:158:ASN:ND2	1:K:160:ARG:O	2.45	0.48
1:K:295:ILE:HD11	1:K:299:ILE:HA	1.95	0.48
2:H:60:TYR:CE1	2:H:162:GLU:HA	2.49	0.48
2:H:122:ARG:NH1	2:H:129:VAL:O	2.44	0.48
1:R:53:LYS:HG2	1:R:58:GLN:HE22	1.79	0.48
2:h:191:ILE:HG23	2:h:217:ILE:HD13	1.95	0.48
2:U:350:LEU:HG	2:a:10:ILE:HD11	1.96	0.48
2:X:269:TYR:HA	2:X:272:LYS:HE2	1.96	0.48
2:c:187:ASP:OD1	2:c:187:ASP:N	2.45	0.48
2:P:32:LEU:HD22	2:P:104:PRO:HG2	1.96	0.48
1:Q:281:LYS:HE2	1:Q:342:VAL:HG12	1.96	0.48
2:g:232:GLU:HG3	2:H:14:GLU:CD	2.39	0.48
2:T:301:ASP:HB3	2:T:334:PHE:HB3	1.96	0.48
2:W:60:TYR:CE1	2:W:162:GLU:HA	2.49	0.48
1:F:69:VAL:HG11	1:F:174:LEU:HD21	1.95	0.48
1:F:224:PHE:HB3	1:F:228:ASN:HA	1.96	0.48
2:G:56:GLU:OE2	2:G:105:LYS:NZ	2.29	0.48
2:G:345:MET:HG3	3:J:125:LEU:HB2	1.96	0.48
3:l:38:ILE:HG23	3:l:45:LYS:HD3	1.95	0.48
2:c:80:ILE:HD13	2:c:88:THR:HG21	1.95	0.48
2:c:267:ASN:HB2	2:b:343:ASP:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:69:VAL:O	1:e:73:GLY:N	2.47	0.48
1:B:22:ILE:HD11	3:j:39:LEU:HD13	1.95	0.48
2:C:350:LEU:HG	2:S:10:ILE:HD11	1.95	0.48
2:D:187:ASP:N	2:D:187:ASP:OD1	2.47	0.48
1:m:69:VAL:O	1:m:73:GLY:N	2.47	0.48
1:Q:77:LYS:O	1:Q:169:GLU:HB2	2.14	0.48
1:n:48:LEU:HA	1:n:51:MET:HG2	1.96	0.48
1:n:49:SER:HA	1:n:52:HIS:HD2	1.78	0.48
1:n:158:ASN:ND2	1:n:160:ARG:O	2.45	0.48
2:I:263:GLY:HA2	2:H:179:SER:HB3	1.95	0.48
2:G:90:LEU:HG	2:G:117:TRP:CD2	2.49	0.48
1:R:211:PRO:HB3	4:N:138:ALA:HB1	1.96	0.48
2:h:232:GLU:HG3	2:b:14:GLU:CD	2.39	0.48
2:U:90:LEU:HG	2:U:117:TRP:CD2	2.48	0.48
4:N:50:LEU:HD13	4:N:69:ARG:HB2	1.95	0.48
1:Z:63:GLN:H	1:Z:63:GLN:CD	2.22	0.48
2:a:118:ILE:HG23	2:a:129:VAL:HG23	1.94	0.48
1:e:186:ALA:HA	1:e:193:HIS:CD2	2.49	0.48
3:d:115:VAL:HG22	3:d:129:VAL:HG13	1.96	0.48
4:Y:51:ASP:OD1	4:Y:52:MET:N	2.46	0.48
1:B:30:LEU:O	1:B:34:VAL:HG23	2.14	0.47
2:P:178:GLN:O	2:P:241:LYS:NZ	2.47	0.47
2:P:335:LEU:N	2:D:349:ASP:O	2.47	0.47
2:C:224:ASN:N	2:C:238:GLN:O	2.37	0.47
2:C:345:MET:HG3	3:j:125:LEU:HB2	1.96	0.47
1:v:250:GLY:H	4:A:85:ILE:HD11	1.79	0.47
3:j:115:VAL:HG22	3:j:129:VAL:HG13	1.96	0.47
1:O:63:GLN:H	1:O:63:GLN:CD	2.22	0.47
2:f:60:TYR:CZ	2:f:104:PRO:HB3	2.49	0.47
2:f:107:VAL:HG23	2:f:110:ASP:H	1.79	0.47
1:m:196:GLU:HA	1:m:199:LEU:HD12	1.95	0.47
3:i:54:LYS:HE2	2:T:14:GLU:HG2	1.94	0.47
3:i:79:LEU:HD11	3:i:100:ILE:HG12	1.95	0.47
2:W:115:LYS:HG3	2:W:143:ILE:HG21	1.94	0.47
1:F:235:THR:HA	1:F:238:ARG:HE	1.79	0.47
1:K:20:LEU:HD12	1:K:22:ILE:HB	1.95	0.47
1:K:248:PRO:HA	4:E:83:SER:HB2	1.95	0.47
4:E:50:LEU:HD13	4:E:69:ARG:HB2	1.96	0.47
1:R:63:GLN:H	1:R:63:GLN:CD	2.22	0.47
1:R:264:SER:N	1:R:323:ASN:OD1	2.43	0.47
2:h:146:PHE:HB3	2:h:164:THR:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:39:GLY:H	2:U:79:VAL:HB	1.78	0.47
1:B:88:PHE:CZ	1:B:96:ILE:HG21	2.50	0.47
1:v:304:VAL:O	1:v:307:ILE:HG22	2.14	0.47
1:O:77:LYS:O	1:O:169:GLU:HB2	2.15	0.47
1:m:158:ASN:ND2	1:m:160:ARG:O	2.46	0.47
4:L:39:ASN:O	4:L:45:THR:OG1	2.27	0.47
2:W:153:VAL:HA	2:W:188:VAL:HA	1.95	0.47
2:H:269:TYR:HA	2:H:272:LYS:HE2	1.96	0.47
1:R:83:ASN:N	1:R:163:GLU:O	2.32	0.47
2:U:235:GLU:HA	2:U:238:GLN:HG3	1.96	0.47
1:o:43:LYS:O	1:o:47:GLU:HG2	2.15	0.47
1:o:61:TYR:H	1:o:64:PHE:HB2	1.78	0.47
3:l:65:ARG:HE	3:l:73:LEU:HA	1.78	0.47
1:Z:30:LEU:O	1:Z:34:VAL:HG23	2.14	0.47
1:e:250:GLY:H	4:Y:85:ILE:HD11	1.79	0.47
2:b:153:VAL:HA	2:b:188:VAL:HA	1.96	0.47
1:B:92:LYS:HA	1:B:117:ILE:HG22	1.96	0.47
1:O:211:PRO:HB3	4:L:138:ALA:HB1	1.95	0.47
1:m:68:ARG:HH11	1:m:68:ARG:HA	1.79	0.47
2:V:269:TYR:HA	2:V:272:LYS:HE2	1.96	0.47
2:g:143:ILE:O	2:g:225:SER:OG	2.30	0.47
3:k:115:VAL:HG22	3:k:129:VAL:HG13	1.96	0.47
2:W:122:ARG:CZ	2:W:128:LYS:HB3	2.44	0.47
1:F:134:LYS:HG2	1:F:137:ASN:HD22	1.79	0.47
2:H:57:ASN:O	2:H:61:ILE:HG13	2.14	0.47
2:H:187:ASP:OD1	2:H:187:ASP:N	2.47	0.47
1:R:30:LEU:O	1:R:34:VAL:HG23	2.15	0.47
1:R:179:TYR:HB3	1:R:183:ARG:NH1	2.29	0.47
2:C:132:VAL:HG21	2:C:168:ALA:HB2	1.96	0.47
2:C:194:MET:SD	2:C:198:ASP:HB3	2.54	0.47
2:C:301:ASP:HA	2:C:336:LYS:HE2	1.97	0.47
1:O:276:THR:HG22	1:O:277:LEU:H	1.78	0.47
2:f:52:ASP:OD1	2:f:53:LEU:N	2.47	0.47
2:f:354:ILE:HG13	2:g:14:GLU:HA	1.95	0.47
2:S:235:GLU:HA	2:S:238:GLN:HG3	1.96	0.47
1:m:1:MET:SD	1:m:3:SER:N	2.73	0.47
2:V:31:VAL:HG13	2:V:103:MET:SD	2.53	0.47
2:V:60:TYR:CE1	2:V:162:GLU:HA	2.49	0.47
2:G:301:ASP:HB3	2:G:334:PHE:HB3	1.96	0.47
1:K:186:ALA:HA	1:K:193:HIS:CD2	2.49	0.47
2:X:38:LEU:HA	2:X:79:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:353:GLU:HG3	3:d:130:LYS:HA	1.96	0.47
1:B:224:PHE:HB3	1:B:228:ASN:HA	1.96	0.47
1:B:322:ILE:N	1:B:325:SER:O	2.46	0.47
2:C:32:LEU:HD22	2:C:57:ASN:HB3	1.97	0.47
2:C:68:ASN:ND2	2:C:174:THR:OG1	2.36	0.47
4:A:7:LEU:O	4:A:12:ARG:NH2	2.37	0.47
2:V:122:ARG:CZ	2:V:128:LYS:HB3	2.45	0.47
2:g:268:SER:O	2:g:272:LYS:N	2.40	0.47
2:T:350:LEU:HG	2:G:10:ILE:HD11	1.95	0.47
2:W:301:ASP:HB2	2:W:336:LYS:HB2	1.97	0.47
1:F:30:LEU:O	1:F:34:VAL:HG23	2.14	0.47
1:F:92:LYS:HA	1:F:117:ILE:HG22	1.97	0.47
2:I:267:ASN:HB2	2:H:343:ASP:O	2.13	0.47
2:G:301:ASP:HA	2:G:336:LYS:HE2	1.96	0.47
1:K:244:ASP:HA	1:K:247:LYS:HD3	1.96	0.47
2:H:80:ILE:HG21	2:H:88:THR:HG21	1.96	0.47
1:R:235:THR:HA	1:R:238:ARG:HE	1.79	0.47
2:h:60:TYR:CZ	2:h:104:PRO:HB3	2.50	0.47
2:h:267:ASN:HB2	2:X:343:ASP:O	2.14	0.47
2:U:353:GLU:HG3	3:l:130:LYS:HA	1.97	0.47
2:X:60:TYR:CE1	2:X:162:GLU:HA	2.49	0.47
1:Z:232:ASP:OD1	1:Z:235:THR:N	2.40	0.47
2:c:27:ILE:HG13	2:c:74:LYS:HB2	1.97	0.47
3:d:65:ARG:HE	3:d:73:LEU:HA	1.78	0.47
2:b:39:GLY:N	2:b:79:VAL:O	2.41	0.47
1:B:11:LYS:NZ	1:B:31:ASN:OD1	2.36	0.47
1:B:63:GLN:H	1:B:63:GLN:CD	2.22	0.47
1:B:235:THR:HA	1:B:238:ARG:HE	1.79	0.47
2:C:353:GLU:HG3	3:j:130:LYS:HA	1.96	0.47
4:A:136:LYS:HG2	4:A:137:PRO:HD2	1.97	0.47
1:O:235:THR:HA	1:O:238:ARG:HE	1.79	0.47
1:O:281:LYS:HE2	1:O:342:VAL:HG12	1.95	0.47
2:S:350:LEU:HG	2:T:10:ILE:HD11	1.96	0.47
3:i:115:VAL:HG22	3:i:129:VAL:HG13	1.97	0.47
1:n:89:ILE:O	1:n:154:THR:OG1	2.29	0.47
1:F:88:PHE:CZ	1:F:96:ILE:HG21	2.50	0.47
2:H:122:ARG:CZ	2:H:128:LYS:HB3	2.44	0.47
2:U:68:ASN:ND2	2:U:174:THR:OG1	2.36	0.47
2:U:132:VAL:HG21	2:U:168:ALA:HB2	1.95	0.47
2:U:301:ASP:HB3	2:U:334:PHE:HB3	1.96	0.47
4:N:63:GLU:OE2	4:N:68:THR:HB	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:92:LYS:HA	1:Z:117:ILE:HG22	1.97	0.47
1:Z:134:LYS:HG2	1:Z:137:ASN:HD22	1.80	0.47
1:Z:235:THR:HA	1:Z:238:ARG:HE	1.79	0.47
2:a:301:ASP:HB3	2:a:334:PHE:HB3	1.96	0.47
4:Y:115:PHE:O	4:Y:147:ILE:N	2.39	0.47
1:B:83:ASN:N	1:B:163:GLU:O	2.33	0.47
1:v:43:LYS:O	1:v:47:GLU:HG2	2.15	0.47
1:v:69:VAL:O	1:v:73:GLY:N	2.48	0.47
2:D:14:GLU:CD	2:c:232:GLU:HG3	2.39	0.47
2:D:32:LEU:HD21	2:D:57:ASN:ND2	2.30	0.47
2:D:80:ILE:HG21	2:D:88:THR:HG21	1.97	0.47
1:O:30:LEU:O	1:O:34:VAL:HG23	2.15	0.47
1:O:196:GLU:O	1:O:200:GLU:HG3	2.15	0.47
2:S:200:GLU:HG3	2:T:6:PRO:HG3	1.96	0.47
1:m:295:ILE:HD11	1:m:299:ILE:HA	1.96	0.47
2:V:187:ASP:N	2:V:187:ASP:OD1	2.47	0.47
1:Q:87:GLU:N	1:Q:157:THR:O	2.28	0.47
2:g:267:ASN:HB2	2:W:343:ASP:O	2.14	0.47
2:T:68:ASN:ND2	2:T:174:THR:OG1	2.36	0.47
4:M:50:LEU:HB2	4:M:69:ARG:HD3	1.97	0.47
1:F:172:GLU:O	1:F:176:GLU:HG2	2.15	0.47
1:F:179:TYR:HB3	1:F:183:ARG:NH1	2.30	0.47
2:I:171:ILE:HG12	2:I:180:VAL:HG11	1.97	0.47
2:I:232:GLU:HG3	2:X:14:GLU:OE2	2.15	0.47
2:I:354:ILE:HG13	2:h:14:GLU:HA	1.95	0.47
2:G:194:MET:SD	2:G:198:ASP:HB3	2.54	0.47
2:G:353:GLU:HA	2:U:15:LEU:H	1.80	0.47
1:K:250:GLY:H	4:E:85:ILE:HD11	1.80	0.47
2:H:76:LEU:HD13	2:H:96:LYS:HE3	1.96	0.47
4:E:63:GLU:OE2	4:E:68:THR:HB	2.15	0.47
1:R:196:GLU:O	1:R:200:GLU:HG3	2.15	0.47
1:R:292:PHE:O	1:R:295:ILE:HG22	2.15	0.47
2:h:354:ILE:HG13	2:c:14:GLU:HA	1.95	0.47
1:o:68:ARG:HA	1:o:68:ARG:HH11	1.78	0.47
1:o:69:VAL:O	1:o:73:GLY:N	2.48	0.47
1:o:186:ALA:HA	1:o:193:HIS:CD2	2.49	0.47
2:X:187:ASP:OD1	2:X:187:ASP:N	2.47	0.47
4:N:134:ARG:NH1	4:N:134:ARG:O	2.48	0.47
1:Z:77:LYS:O	1:Z:169:GLU:HB2	2.14	0.47
1:Z:281:LYS:HE2	1:Z:342:VAL:HG12	1.96	0.47
2:b:32:LEU:HD21	2:b:57:ASN:ND2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:187:ASP:N	2:b:187:ASP:OD1	2.47	0.47
2:b:305:GLN:O	2:b:309:LEU:HD23	2.15	0.47
1:B:50:LYS:O	1:B:54:MET:HG2	2.15	0.47
1:v:20:LEU:HD12	1:v:22:ILE:HB	1.95	0.47
1:v:68:ARG:HH11	1:v:68:ARG:HA	1.79	0.47
1:O:50:LYS:O	1:O:54:MET:HG2	2.15	0.47
1:O:179:TYR:HB3	1:O:183:ARG:NH1	2.29	0.47
2:f:267:ASN:HB2	2:V:343:ASP:O	2.14	0.47
1:m:62:ASN:OD1	1:m:63:GLN:N	2.46	0.47
4:L:50:LEU:HB2	4:L:69:ARG:HD3	1.97	0.47
1:Q:53:LYS:HG2	1:Q:58:GLN:HE22	1.80	0.47
1:Q:80:THR:OG1	1:Q:164:GLY:O	2.22	0.47
1:Q:92:LYS:HA	1:Q:117:ILE:HG22	1.97	0.47
1:Q:179:TYR:HB3	1:Q:183:ARG:NH1	2.30	0.47
1:n:34:VAL:HG12	1:n:38:ASN:HD21	1.79	0.47
1:n:102:ILE:N	1:n:109:PHE:O	2.42	0.47
1:F:11:LYS:NZ	1:F:31:ASN:OD1	2.35	0.47
2:X:57:ASN:O	2:X:61:ILE:HG13	2.14	0.47
2:X:305:GLN:O	2:X:309:LEU:HD23	2.15	0.47
2:a:300:ILE:HD13	2:a:335:LEU:HD23	1.97	0.47
2:b:122:ARG:CZ	2:b:128:LYS:HB3	2.45	0.47
1:v:191:LYS:NZ	1:v:195:GLU:OE2	2.44	0.47
2:D:57:ASN:O	2:D:61:ILE:HG13	2.15	0.47
2:D:269:TYR:HA	2:D:272:LYS:HE2	1.96	0.47
2:S:32:LEU:HD22	2:S:57:ASN:HB3	1.97	0.47
1:m:28:SER:O	1:m:32:ASN:N	2.48	0.47
1:Q:50:LYS:O	1:Q:54:MET:HG2	2.15	0.47
1:n:244:ASP:HA	1:n:247:LYS:HD3	1.97	0.47
2:W:269:TYR:HA	2:W:272:LYS:HE2	1.95	0.47
1:F:276:THR:HG22	1:F:277:LEU:H	1.79	0.47
1:K:49:SER:HA	1:K:52:HIS:HD2	1.80	0.47
2:H:302:PHE:HA	2:H:305:GLN:HB3	1.97	0.47
1:R:91:GLU:N	1:R:152:GLY:O	2.45	0.47
1:R:113:LYS:HE3	1:R:126:PRO:HD2	1.97	0.47
1:Z:50:LYS:O	1:Z:54:MET:HG2	2.15	0.47
2:c:178:GLN:O	2:c:241:LYS:NZ	2.48	0.47
2:a:132:VAL:HG21	2:a:168:ALA:HB2	1.96	0.47
2:a:345:MET:HG3	3:d:125:LEU:HB2	1.95	0.47
1:e:244:ASP:HA	1:e:247:LYS:HD3	1.97	0.47
2:b:57:ASN:O	2:b:61:ILE:HG13	2.15	0.47
4:Y:30:LEU:O	4:Y:34:ILE:HG13	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:50:LEU:HB2	4:A:69:ARG:HD3	1.97	0.47
1:m:244:ASP:HA	1:m:247:LYS:HD3	1.97	0.47
4:L:63:GLU:OE2	4:L:68:THR:HB	2.15	0.47
1:Q:211:PRO:HB3	4:M:138:ALA:HB1	1.96	0.47
1:n:232:ASP:OD1	1:n:235:THR:N	2.38	0.47
2:H:305:GLN:O	2:H:309:LEU:HD23	2.15	0.47
1:R:281:LYS:HE2	1:R:342:VAL:HG12	1.96	0.47
2:b:301:ASP:HB2	2:b:336:LYS:HB2	1.97	0.47
2:C:10:ILE:HD11	2:a:350:LEU:HG	1.97	0.46
4:A:63:GLU:OE2	4:A:68:THR:HB	2.14	0.46
2:V:38:LEU:HA	2:V:79:VAL:HG12	1.95	0.46
1:Q:88:PHE:CZ	1:Q:96:ILE:HG21	2.49	0.46
1:Q:134:LYS:HG2	1:Q:137:ASN:HD22	1.80	0.46
1:Q:196:GLU:O	1:Q:200:GLU:HG3	2.15	0.46
1:Q:288:ILE:HD13	1:Q:304:VAL:HG13	1.97	0.46
2:T:36:LYS:O	2:T:36:LYS:NZ	2.36	0.46
2:T:226:LEU:HG	2:T:229:LEU:HD22	1.97	0.46
4:M:136:LYS:HG2	4:M:137:PRO:HD2	1.97	0.46
2:G:143:ILE:O	2:G:225:SER:OG	2.30	0.46
2:G:309:LEU:O	2:G:313:GLY:N	2.47	0.46
2:G:353:GLU:HG3	3:J:130:LYS:HA	1.96	0.46
1:o:244:ASP:HA	1:o:247:LYS:HD3	1.97	0.46
4:N:51:ASP:OD1	4:N:52:MET:N	2.46	0.46
4:N:115:PHE:O	4:N:147:ILE:N	2.40	0.46
2:a:309:LEU:O	2:a:313:GLY:N	2.49	0.46
4:Y:50:LEU:HB2	4:Y:69:ARG:HD3	1.97	0.46
2:S:56:GLU:OE2	2:S:105:LYS:NZ	2.29	0.46
4:L:136:LYS:HG2	4:L:137:PRO:HD2	1.98	0.46
1:Q:322:ILE:N	1:Q:325:SER:O	2.46	0.46
2:g:50:PRO:HB2	2:g:52:ASP:OD1	2.16	0.46
2:g:171:ILE:HG12	2:g:180:VAL:HG11	1.98	0.46
2:T:132:VAL:HG21	2:T:168:ALA:HB2	1.96	0.46
2:W:187:ASP:N	2:W:187:ASP:OD1	2.47	0.46
1:F:211:PRO:HB3	4:E:138:ALA:HB1	1.97	0.46
4:E:30:LEU:O	4:E:34:ILE:HG13	2.16	0.46
1:R:77:LYS:O	1:R:169:GLU:HB2	2.15	0.46
2:X:153:VAL:HA	2:X:188:VAL:HA	1.96	0.46
1:Z:91:GLU:N	1:Z:152:GLY:O	2.46	0.46
1:Z:196:GLU:O	1:Z:200:GLU:HG3	2.16	0.46
2:c:166:ARG:NH1	2:c:170:LEU:HB2	2.30	0.46
1:e:27:GLY:HA2	3:d:71:TYR:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:68:ARG:HH11	1:e:68:ARG:HA	1.79	0.46
4:Y:63:GLU:OE2	4:Y:68:THR:HB	2.15	0.46
2:P:232:GLU:HG3	2:V:14:GLU:CD	2.40	0.46
2:C:300:ILE:HD13	2:C:335:LEU:HD23	1.97	0.46
2:D:31:VAL:HG13	2:D:103:MET:SD	2.55	0.46
2:D:301:ASP:HB2	2:D:336:LYS:HB2	1.97	0.46
1:O:113:LYS:HE3	1:O:126:PRO:HD2	1.97	0.46
2:f:282:TYR:O	2:f:286:LEU:HG	2.16	0.46
2:S:302:PHE:CZ	2:S:321:LEU:HB3	2.51	0.46
2:V:57:ASN:O	2:V:61:ILE:HG13	2.15	0.46
1:Q:30:LEU:O	1:Q:34:VAL:HG23	2.15	0.46
2:g:166:ARG:NH1	2:g:170:LEU:HB2	2.30	0.46
2:T:200:GLU:HA	2:G:6:PRO:HG3	1.98	0.46
4:M:63:GLU:OE2	4:M:68:THR:HB	2.15	0.46
1:F:292:PHE:O	1:F:295:ILE:HG22	2.15	0.46
2:I:50:PRO:HB2	2:I:52:ASP:OD1	2.15	0.46
2:I:178:GLN:O	2:I:241:LYS:NZ	2.48	0.46
2:G:262:ILE:O	2:G:264:LYS:NZ	2.48	0.46
1:K:276:THR:OG1	1:K:278:ASP:OD2	2.27	0.46
1:R:50:LYS:O	1:R:54:MET:HG2	2.15	0.46
2:U:300:ILE:HD13	2:U:335:LEU:HD23	1.97	0.46
2:U:301:ASP:HA	2:U:336:LYS:HE2	1.97	0.46
1:Z:292:PHE:O	1:Z:295:ILE:HG22	2.15	0.46
1:e:265:ILE:HG13	1:e:322:ILE:HG12	1.97	0.46
2:P:50:PRO:HB2	2:P:52:ASP:OD1	2.16	0.46
2:P:272:LYS:NZ	2:P:333:VAL:HG13	2.31	0.46
2:D:153:VAL:HA	2:D:188:VAL:HA	1.97	0.46
2:D:302:PHE:HA	2:D:305:GLN:HB3	1.97	0.46
2:D:305:GLN:O	2:D:309:LEU:HD23	2.15	0.46
4:A:30:LEU:O	4:A:34:ILE:HG13	2.16	0.46
4:A:113:LEU:O	4:A:145:GLU:N	2.39	0.46
2:f:347:ASP:HA	2:g:8:ILE:HG22	1.96	0.46
1:m:250:GLY:H	4:L:85:ILE:HD11	1.79	0.46
1:m:304:VAL:O	1:m:307:ILE:HG22	2.16	0.46
2:T:86:ILE:HD11	2:T:114:ILE:HG13	1.96	0.46
2:W:57:ASN:O	2:W:61:ILE:HG13	2.14	0.46
1:F:50:LYS:O	1:F:54:MET:HG2	2.16	0.46
1:F:113:LYS:HE3	1:F:126:PRO:HD2	1.97	0.46
1:F:309:ILE:HD12	1:F:314:VAL:HG12	1.97	0.46
1:K:144:PHE:N	1:K:156:ILE:O	2.49	0.46
1:K:332:ASN:HB2	1:K:335:LYS:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:301:ASP:HB2	2:H:336:LYS:HB2	1.98	0.46
2:h:27:ILE:HG13	2:h:74:LYS:HB2	1.97	0.46
1:o:80:THR:OG1	1:o:164:GLY:O	2.25	0.46
2:X:34:ASP:HB2	2:X:79:VAL:HG13	1.97	0.46
2:X:302:PHE:HA	2:X:305:GLN:HB3	1.97	0.46
2:c:179:SER:N	2:a:263:GLY:O	2.48	0.46
2:a:86:ILE:HD11	2:a:114:ILE:HG13	1.97	0.46
4:Y:136:LYS:HG2	4:Y:137:PRO:HD2	1.97	0.46
1:B:172:GLU:O	1:B:176:GLU:HG2	2.15	0.46
1:B:196:GLU:O	1:B:200:GLU:HG3	2.16	0.46
2:P:282:TYR:O	2:P:286:LEU:HG	2.16	0.46
2:C:301:ASP:HB3	2:C:334:PHE:HB3	1.96	0.46
1:v:49:SER:HA	1:v:52:HIS:HD2	1.81	0.46
1:O:53:LYS:HG2	1:O:58:GLN:HE22	1.80	0.46
2:V:153:VAL:HA	2:V:188:VAL:HA	1.97	0.46
4:L:30:LEU:O	4:L:34:ILE:HG13	2.16	0.46
1:Q:292:PHE:O	1:Q:295:ILE:HG22	2.15	0.46
2:g:282:TYR:O	2:g:286:LEU:HG	2.16	0.46
2:T:74:LYS:HD3	2:T:74:LYS:HA	1.74	0.46
1:K:43:LYS:O	1:K:47:GLU:HG2	2.15	0.46
1:R:288:ILE:HD13	1:R:304:VAL:HG13	1.97	0.46
1:o:265:ILE:HG13	1:o:322:ILE:HG12	1.96	0.46
1:o:295:ILE:HD11	1:o:299:ILE:HA	1.96	0.46
3:l:115:VAL:HG22	3:l:129:VAL:HG13	1.97	0.46
1:Z:53:LYS:HG2	1:Z:58:GLN:HE22	1.81	0.46
1:Z:211:PRO:HB3	4:Y:138:ALA:HB1	1.98	0.46
2:c:50:PRO:HB2	2:c:52:ASP:OD1	2.16	0.46
2:c:60:TYR:CZ	2:c:104:PRO:HB3	2.50	0.46
2:c:272:LYS:NZ	2:c:333:VAL:HG13	2.31	0.46
2:a:122:ARG:HD3	2:a:140:HIS:CE1	2.49	0.46
2:b:43:ILE:HD12	2:b:77:VAL:HG21	1.98	0.46
2:b:140:HIS:HB3	2:b:143:ILE:HG12	1.98	0.46
1:B:80:THR:OG1	1:B:164:GLY:O	2.23	0.46
1:B:179:TYR:HB3	1:B:183:ARG:NH1	2.30	0.46
1:B:292:PHE:O	1:B:295:ILE:HG22	2.15	0.46
1:v:144:PHE:N	1:v:156:ILE:O	2.49	0.46
2:D:8:ILE:HD11	2:b:349:ASP:CG	2.40	0.46
1:O:224:PHE:HB3	1:O:228:ASN:HA	1.98	0.46
2:f:179:SER:N	2:S:263:GLY:O	2.49	0.46
1:Q:63:GLN:CD	1:Q:63:GLN:H	2.22	0.46
2:g:211:ILE:O	2:g:218:ARG:N	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:30:LEU:O	4:M:34:ILE:HG13	2.15	0.46
2:G:122:ARG:HD3	2:G:140:HIS:CE1	2.49	0.46
1:K:69:VAL:O	1:K:73:GLY:N	2.48	0.46
1:R:276:THR:HG22	1:R:277:LEU:H	1.79	0.46
2:h:166:ARG:NH1	2:h:170:LEU:HB2	2.30	0.46
1:o:34:VAL:HG12	1:o:38:ASN:ND2	2.31	0.46
1:o:144:PHE:N	1:o:156:ILE:O	2.49	0.46
1:B:88:PHE:HB3	1:B:117:ILE:HD11	1.96	0.46
2:P:187:ASP:OD1	2:P:187:ASP:N	2.45	0.46
2:C:86:ILE:HD11	2:C:114:ILE:HG13	1.97	0.46
1:O:292:PHE:O	1:O:295:ILE:HG22	2.15	0.46
2:f:166:ARG:HH12	2:f:170:LEU:HB2	1.80	0.46
2:S:353:GLU:HG3	3:i:130:LYS:HA	1.97	0.46
1:m:111:VAL:HG22	1:m:127:VAL:HG22	1.97	0.46
2:V:305:GLN:O	2:V:309:LEU:HD23	2.15	0.46
1:Q:276:THR:HG22	1:Q:277:LEU:H	1.79	0.46
2:g:178:GLN:O	2:g:241:LYS:NZ	2.48	0.46
2:g:236:MET:HB2	2:g:242:ILE:HG21	1.98	0.46
1:n:144:PHE:N	1:n:156:ILE:O	2.49	0.46
1:F:196:GLU:O	1:F:200:GLU:HG3	2.16	0.46
4:E:136:LYS:HG2	4:E:137:PRO:HD2	1.97	0.46
1:R:263:ILE:HG22	1:R:339:VAL:HA	1.98	0.46
2:U:32:LEU:HD22	2:U:57:ASN:HB3	1.97	0.46
1:o:49:SER:HA	1:o:52:HIS:HD2	1.81	0.46
2:X:76:LEU:HD13	2:X:96:LYS:HE3	1.97	0.46
2:a:68:ASN:ND2	2:a:174:THR:OG1	2.36	0.46
2:a:301:ASP:HA	2:a:336:LYS:HE2	1.98	0.46
1:B:177:ARG:HG2	1:B:199:LEU:HD21	1.98	0.46
2:P:347:ASP:O	2:C:333:VAL:N	2.49	0.46
1:v:111:VAL:HG22	1:v:127:VAL:HG22	1.98	0.46
1:v:332:ASN:HB2	1:v:335:LYS:HD2	1.97	0.46
2:D:43:ILE:HD12	2:D:77:VAL:HG21	1.98	0.46
4:A:120:CYS:SG	4:A:125:LEU:HG	2.56	0.46
2:f:166:ARG:NH1	2:f:170:LEU:HB2	2.30	0.46
2:S:86:ILE:HD11	2:S:114:ILE:HG13	1.97	0.46
1:m:34:VAL:HG12	1:m:38:ASN:ND2	2.31	0.46
1:m:43:LYS:O	1:m:47:GLU:HG2	2.15	0.46
2:g:272:LYS:NZ	2:g:333:VAL:HG13	2.31	0.46
1:n:332:ASN:HB2	1:n:335:LYS:HD2	1.98	0.46
2:W:302:PHE:HA	2:W:305:GLN:HB3	1.98	0.46
2:W:305:GLN:O	2:W:309:LEU:HD23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:68:ASN:HB3	2:G:170:LEU:HG	1.98	0.46
2:G:132:VAL:HG21	2:G:168:ALA:HB2	1.96	0.46
1:K:235:THR:HA	1:K:238:ARG:HG2	1.98	0.46
2:U:194:MET:SD	2:U:198:ASP:HB3	2.56	0.46
1:o:158:ASN:ND2	1:o:160:ARG:O	2.46	0.46
2:X:122:ARG:CZ	2:X:128:LYS:HB3	2.45	0.46
4:N:50:LEU:HB2	4:N:69:ARG:HD3	1.97	0.46
1:Z:179:TYR:HB3	1:Z:183:ARG:NH1	2.30	0.46
2:a:32:LEU:HD22	2:a:57:ASN:HB3	1.98	0.46
1:e:48:LEU:HA	1:e:51:MET:HG2	1.96	0.46
1:e:111:VAL:HG22	1:e:127:VAL:HG22	1.97	0.46
2:P:27:ILE:HG13	2:P:74:LYS:HB2	1.98	0.46
2:C:309:LEU:O	2:C:313:GLY:N	2.47	0.46
2:S:224:ASN:N	2:S:238:GLN:O	2.37	0.46
1:m:144:PHE:N	1:m:156:ILE:O	2.49	0.46
2:g:107:VAL:HG23	2:g:110:ASP:H	1.80	0.46
2:T:68:ASN:HB3	2:T:170:LEU:HG	1.98	0.46
1:F:177:ARG:HG2	1:F:199:LEU:HD21	1.98	0.46
1:F:211:PRO:HB2	1:F:212:ARG:HE	1.81	0.46
2:I:282:TYR:O	2:I:286:LEU:HG	2.16	0.46
2:H:140:HIS:HB3	2:H:143:ILE:HG12	1.98	0.46
1:R:87:GLU:N	1:R:157:THR:O	2.30	0.46
2:X:282:TYR:O	2:X:286:LEU:HG	2.16	0.46
4:Y:38:PHE:HA	4:Y:41:LEU:HG	1.98	0.46
1:B:85:GLU:HG3	1:B:125:SER:C	2.41	0.46
1:B:211:PRO:HB2	1:B:212:ARG:HE	1.81	0.46
2:P:160:VAL:O	2:P:164:THR:HG23	2.16	0.46
2:C:15:LEU:H	2:a:353:GLU:HA	1.81	0.46
2:C:353:GLU:HA	2:S:15:LEU:H	1.81	0.46
1:v:34:VAL:HG12	1:v:38:ASN:ND2	2.31	0.46
1:O:264:SER:N	1:O:323:ASN:OD1	2.43	0.46
2:S:107:VAL:HG23	2:S:110:ASP:H	1.82	0.46
2:S:143:ILE:O	2:S:225:SER:OG	2.30	0.46
2:S:300:ILE:HD13	2:S:335:LEU:HD23	1.97	0.46
1:n:27:GLY:HA2	3:k:71:TYR:HE2	1.80	0.46
1:n:111:VAL:HG22	1:n:127:VAL:HG22	1.97	0.46
1:n:291:TYR:O	1:n:295:ILE:N	2.49	0.46
1:F:304:VAL:O	1:F:307:ILE:HG22	2.16	0.46
2:I:59:GLU:OE2	2:I:158:TYR:OH	2.23	0.46
2:G:39:GLY:O	2:G:79:VAL:N	2.49	0.46
2:G:86:ILE:HD11	2:G:114:ILE:HG13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:315:ASP:OD1	2:H:316:LEU:N	2.48	0.46
1:R:92:LYS:HA	1:R:117:ILE:HG22	1.97	0.46
1:o:72:PHE:HA	4:N:77:MET:HE1	1.98	0.46
1:o:332:ASN:HB2	1:o:335:LYS:HD2	1.97	0.46
2:c:32:LEU:HD22	2:c:104:PRO:HG2	1.98	0.46
2:a:226:LEU:HG	2:a:229:LEU:HD22	1.97	0.46
2:b:282:TYR:O	2:b:286:LEU:HG	2.16	0.46
1:B:288:ILE:HD13	1:B:304:VAL:HG13	1.96	0.45
2:C:14:GLU:HG2	3:d:54:LYS:HE2	1.97	0.45
2:C:226:LEU:HG	2:C:229:LEU:HD22	1.97	0.45
4:L:134:ARG:NH1	4:L:134:ARG:O	2.49	0.45
2:g:160:VAL:O	2:g:164:THR:HG23	2.16	0.45
2:g:221:ARG:HH12	2:g:346:GLU:CD	2.25	0.45
1:n:218:THR:HA	1:n:252:THR:OG1	2.16	0.45
2:I:27:ILE:HG13	2:I:74:LYS:HB2	1.98	0.45
2:G:300:ILE:HD13	2:G:335:LEU:HD23	1.97	0.45
1:K:34:VAL:HG12	1:K:38:ASN:ND2	2.31	0.45
2:U:86:ILE:HD11	2:U:114:ILE:HG13	1.97	0.45
1:o:102:ILE:N	1:o:109:PHE:O	2.42	0.45
1:o:235:THR:HA	1:o:238:ARG:HG2	1.98	0.45
4:N:30:LEU:O	4:N:34:ILE:HG13	2.15	0.45
2:C:302:PHE:CZ	2:C:321:LEU:HB3	2.51	0.45
2:D:282:TYR:O	2:D:286:LEU:HG	2.17	0.45
1:O:276:THR:CG2	1:O:277:LEU:H	2.30	0.45
2:f:32:LEU:HD22	2:f:104:PRO:HG2	1.98	0.45
2:S:226:LEU:HG	2:S:229:LEU:HD22	1.97	0.45
2:S:301:ASP:HA	2:S:336:LYS:HE2	1.97	0.45
2:S:329:THR:OG1	2:S:332:LYS:O	2.34	0.45
1:m:49:SER:HA	1:m:52:HIS:HD2	1.81	0.45
1:Q:113:LYS:HE3	1:Q:126:PRO:HD2	1.97	0.45
2:g:236:MET:N	2:g:236:MET:SD	2.89	0.45
2:T:302:PHE:CZ	2:T:321:LEU:HB3	2.51	0.45
1:n:72:PHE:HA	4:M:77:MET:HE1	1.98	0.45
1:F:53:LYS:HG2	1:F:58:GLN:HE22	1.81	0.45
3:J:115:VAL:HG22	3:J:129:VAL:HG13	1.97	0.45
2:H:31:VAL:HG21	2:H:89:ALA:HB2	1.98	0.45
1:o:111:VAL:HG22	1:o:127:VAL:HG22	1.97	0.45
4:N:39:ASN:O	4:N:45:THR:OG1	2.27	0.45
2:c:153:VAL:HG22	2:c:188:VAL:HG22	1.98	0.45
1:e:72:PHE:HA	4:Y:77:MET:HE1	1.99	0.45
1:e:202:ASP:N	1:e:202:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:7:LEU:O	4:Y:12:ARG:NH2	2.37	0.45
2:C:80:ILE:HD12	2:C:88:THR:HG21	1.98	0.45
1:v:241:GLN:O	1:v:245:GLU:HG2	2.16	0.45
2:D:28:ILE:HG22	2:D:30:MET:HG2	1.98	0.45
1:O:92:LYS:HA	1:O:117:ILE:HG22	1.97	0.45
2:f:296:SER:OG	2:f:338:LYS:HG3	2.17	0.45
2:S:154:GLY:O	2:S:155:GLU:HG3	2.17	0.45
2:S:194:MET:SD	2:S:198:ASP:HB3	2.56	0.45
1:m:72:PHE:HA	4:L:77:MET:HE1	1.99	0.45
1:m:218:THR:HA	1:m:252:THR:OG1	2.16	0.45
2:g:63:LEU:HG	2:g:166:ARG:HD3	1.98	0.45
2:T:39:GLY:O	2:T:79:VAL:N	2.49	0.45
2:T:80:ILE:HD12	2:T:88:THR:HG21	1.99	0.45
1:n:34:VAL:HG12	1:n:38:ASN:ND2	2.31	0.45
1:n:200:GLU:OE1	1:n:242:HIS:NE2	2.49	0.45
1:n:235:THR:HA	1:n:238:ARG:HG2	1.98	0.45
3:k:32:PHE:HB2	2:G:13:LYS:NZ	2.32	0.45
1:F:263:ILE:HG22	1:F:339:VAL:HA	1.98	0.45
2:I:50:PRO:HD2	2:I:53:LEU:HD12	1.98	0.45
2:I:272:LYS:NZ	2:I:333:VAL:HG13	2.31	0.45
2:G:32:LEU:HD22	2:G:57:ASN:HB3	1.97	0.45
2:G:74:LYS:HD3	2:G:74:LYS:HA	1.74	0.45
1:K:72:PHE:HA	4:E:77:MET:HE1	1.98	0.45
1:K:241:GLN:O	1:K:245:GLU:HG2	2.16	0.45
2:H:153:VAL:HA	2:H:188:VAL:HA	1.98	0.45
1:R:224:PHE:HB3	1:R:228:ASN:HA	1.98	0.45
2:h:50:PRO:HB2	2:h:52:ASP:OD1	2.16	0.45
2:U:302:PHE:CZ	2:U:321:LEU:HB3	2.51	0.45
2:U:309:LEU:O	2:U:313:GLY:N	2.49	0.45
1:o:218:THR:HA	1:o:252:THR:OG1	2.16	0.45
3:l:32:PHE:HB2	2:a:13:LYS:NZ	2.31	0.45
2:X:140:HIS:HB3	2:X:143:ILE:HG12	1.99	0.45
2:X:301:ASP:HB2	2:X:336:LYS:HB2	1.99	0.45
2:c:171:ILE:HG12	2:c:180:VAL:HG11	1.98	0.45
2:C:68:ASN:HB3	2:C:170:LEU:HG	1.98	0.45
2:C:348:ILE:HG21	3:j:125:LEU:HD23	1.99	0.45
1:v:89:ILE:O	1:v:154:THR:OG1	2.29	0.45
3:j:54:LYS:HE2	2:S:14:GLU:HG2	1.97	0.45
1:O:11:LYS:NZ	1:O:31:ASN:OD1	2.37	0.45
1:O:309:ILE:HD12	1:O:314:VAL:HG12	1.97	0.45
2:V:282:TYR:O	2:V:286:LEU:HG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:302:PHE:HA	2:V:305:GLN:HB3	1.97	0.45
2:g:166:ARG:HH12	2:g:170:LEU:HB2	1.80	0.45
2:T:32:LEU:HD22	2:T:57:ASN:HB3	1.98	0.45
2:T:122:ARG:HD3	2:T:140:HIS:CE1	2.49	0.45
2:T:301:ASP:HA	2:T:336:LYS:HE2	1.98	0.45
2:T:309:LEU:O	2:T:313:GLY:N	2.48	0.45
2:I:338:LYS:HA	2:H:353:GLU:N	2.28	0.45
1:K:291:TYR:O	1:K:295:ILE:N	2.50	0.45
3:J:32:PHE:HB2	2:U:13:LYS:NZ	2.32	0.45
2:H:43:ILE:HD12	2:H:77:VAL:HG21	1.98	0.45
2:h:299:GLU:O	2:h:336:LYS:N	2.31	0.45
2:h:347:ASP:O	2:U:333:VAL:N	2.50	0.45
1:o:291:TYR:O	1:o:295:ILE:N	2.50	0.45
3:l:68:HIS:ND1	4:N:6:LYS:O	2.50	0.45
1:Z:224:PHE:HB3	1:Z:228:ASN:HA	1.98	0.45
1:e:34:VAL:HG12	1:e:38:ASN:ND2	2.31	0.45
2:P:60:TYR:CZ	2:P:104:PRO:HB3	2.51	0.45
1:v:266:SER:HG	1:v:321:LEU:HB3	1.81	0.45
1:v:291:TYR:O	1:v:295:ILE:N	2.49	0.45
4:A:38:PHE:HA	4:A:41:LEU:HG	1.99	0.45
1:O:304:VAL:O	1:O:307:ILE:HG22	2.16	0.45
1:m:332:ASN:HB2	1:m:335:LYS:HD2	1.98	0.45
3:i:68:HIS:ND1	4:L:6:LYS:O	2.50	0.45
2:V:80:ILE:HG21	2:V:88:THR:HG21	1.98	0.45
4:L:38:PHE:HA	4:L:41:LEU:HG	1.99	0.45
1:Q:88:PHE:HB3	1:Q:117:ILE:HD11	1.97	0.45
1:n:43:LYS:O	1:n:47:GLU:HG2	2.16	0.45
1:n:202:ASP:N	1:n:202:ASP:OD1	2.49	0.45
2:I:60:TYR:CZ	2:I:104:PRO:HB3	2.52	0.45
2:I:347:ASP:HB2	2:G:332:LYS:HA	1.98	0.45
2:G:302:PHE:CZ	2:G:321:LEU:HB3	2.52	0.45
2:h:133:LEU:HD13	2:h:136:VAL:HG21	1.98	0.45
2:h:166:ARG:HH12	2:h:170:LEU:HB2	1.81	0.45
2:h:178:GLN:O	2:h:241:LYS:NZ	2.50	0.45
1:Z:11:LYS:NZ	1:Z:31:ASN:OD1	2.36	0.45
2:c:166:ARG:HH12	2:c:170:LEU:HB2	1.81	0.45
1:e:43:LYS:O	1:e:47:GLU:HG2	2.15	0.45
1:e:241:GLN:O	1:e:245:GLU:HG2	2.17	0.45
1:e:291:TYR:O	1:e:295:ILE:N	2.50	0.45
2:b:302:PHE:HA	2:b:305:GLN:HB3	1.97	0.45
1:v:28:SER:O	1:v:32:ASN:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:72:PHE:HA	4:A:77:MET:HE1	1.99	0.45
2:D:39:GLY:N	2:D:79:VAL:O	2.41	0.45
4:A:100:THR:HG23	4:A:114:SER:H	1.82	0.45
2:g:38:LEU:HG	2:g:80:ILE:HA	1.99	0.45
2:g:60:TYR:CZ	2:g:104:PRO:HB3	2.52	0.45
2:T:300:ILE:HD13	2:T:335:LEU:HD23	1.98	0.45
2:W:282:TYR:O	2:W:286:LEU:HG	2.16	0.45
4:M:38:PHE:HA	4:M:41:LEU:HG	1.98	0.45
1:F:85:GLU:HG3	1:F:125:SER:C	2.41	0.45
2:G:226:LEU:HG	2:G:229:LEU:HD22	1.97	0.45
2:H:347:ASP:HB2	2:X:8:ILE:HD12	1.99	0.45
2:h:171:ILE:HG12	2:h:180:VAL:HG11	1.99	0.45
1:o:69:VAL:HB	1:o:74:VAL:HB	1.98	0.45
2:c:160:VAL:O	2:c:164:THR:HG23	2.17	0.45
2:c:236:MET:SD	2:c:236:MET:N	2.89	0.45
2:a:302:PHE:CZ	2:a:321:LEU:HB3	2.51	0.45
3:d:68:HIS:ND1	4:Y:6:LYS:O	2.50	0.45
2:b:80:ILE:HG21	2:b:88:THR:HG21	1.98	0.45
2:P:179:SER:N	2:C:263:GLY:O	2.50	0.45
1:O:134:LYS:HG2	1:O:137:ASN:HD22	1.82	0.45
1:O:172:GLU:O	1:O:176:GLU:HG2	2.17	0.45
2:f:50:PRO:HB2	2:f:52:ASP:OD1	2.16	0.45
2:f:133:LEU:HD13	2:f:136:VAL:HG21	1.98	0.45
2:f:153:VAL:HG22	2:f:188:VAL:HG22	1.98	0.45
2:f:272:LYS:NZ	2:f:333:VAL:HG13	2.32	0.45
3:i:32:PHE:HB2	2:T:13:LYS:NZ	2.32	0.45
2:V:76:LEU:HD13	2:V:96:LYS:HE3	1.97	0.45
2:V:301:ASP:HB2	2:V:336:LYS:HB2	1.98	0.45
4:L:100:THR:HG23	4:L:114:SER:H	1.82	0.45
1:Q:85:GLU:HG3	1:Q:125:SER:C	2.41	0.45
1:Q:276:THR:CG2	1:Q:277:LEU:H	2.30	0.45
2:g:335:LEU:N	2:W:349:ASP:O	2.50	0.45
2:W:80:ILE:HG21	2:W:88:THR:HG21	1.99	0.45
1:F:131:GLU:HB2	1:F:136:TYR:CE1	2.52	0.45
2:I:347:ASP:HA	2:h:8:ILE:HG22	1.98	0.45
2:c:282:TYR:O	2:c:286:LEU:HG	2.16	0.45
2:a:107:VAL:HG23	2:a:110:ASP:H	1.82	0.45
1:B:113:LYS:HE3	1:B:126:PRO:HD2	1.97	0.45
1:B:232:ASP:OD1	1:B:235:THR:N	2.41	0.45
1:B:276:THR:CG2	1:B:277:LEU:H	2.30	0.45
2:P:143:ILE:O	2:P:225:SER:OG	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:347:ASP:O	2:S:333:VAL:N	2.50	0.45
2:S:190:ASP:OD1	2:S:190:ASP:N	2.47	0.45
1:m:202:ASP:N	1:m:202:ASP:OD1	2.49	0.45
2:V:52:ASP:OD1	2:V:53:LEU:N	2.50	0.45
2:V:249:ILE:HG23	2:V:282:TYR:HE2	1.82	0.45
2:V:347:ASP:HB2	2:W:8:ILE:HD12	1.98	0.45
1:Q:305:MET:HE1	1:K:305:MET:HE2	1.97	0.45
2:g:32:LEU:HD22	2:g:104:PRO:HG2	1.97	0.45
2:g:296:SER:OG	2:g:338:LYS:HG3	2.17	0.45
2:g:347:ASP:O	2:T:333:VAL:N	2.50	0.45
2:T:56:GLU:OE2	2:T:105:LYS:NZ	2.29	0.45
2:I:160:VAL:O	2:I:164:THR:HG23	2.16	0.45
1:K:34:VAL:HG12	1:K:38:ASN:HD21	1.82	0.45
4:E:50:LEU:HB2	4:E:69:ARG:HD3	1.99	0.45
1:R:264:SER:HB2	1:R:341:THR:HB	1.99	0.45
2:h:160:VAL:O	2:h:164:THR:HG23	2.17	0.45
2:h:272:LYS:NZ	2:h:333:VAL:HG13	2.32	0.45
2:U:68:ASN:HB3	2:U:170:LEU:HG	1.98	0.45
1:o:34:VAL:HG12	1:o:38:ASN:HD21	1.82	0.45
1:o:263:ILE:N	1:o:338:SER:O	2.50	0.45
4:N:120:CYS:SG	4:N:125:LEU:HG	2.57	0.45
1:Z:276:THR:HG22	1:Z:277:LEU:H	1.79	0.45
2:c:221:ARG:HD2	2:c:221:ARG:HA	1.79	0.45
2:c:236:MET:HB2	2:c:242:ILE:HG21	1.98	0.45
2:c:300:ILE:HD13	2:c:335:LEU:HD23	1.98	0.45
2:a:68:ASN:HB3	2:a:170:LEU:HG	1.98	0.45
1:e:235:THR:HA	1:e:238:ARG:HG2	1.98	0.45
2:b:60:TYR:CE1	2:b:104:PRO:HB3	2.51	0.45
4:Y:120:CYS:SG	4:Y:125:LEU:HG	2.57	0.45
2:f:171:ILE:HG12	2:f:180:VAL:HG11	1.99	0.45
1:n:241:GLN:O	1:n:245:GLU:HG2	2.17	0.45
2:G:224:ASN:N	2:G:238:GLN:O	2.37	0.45
4:E:67:ASP:OD1	4:E:68:THR:N	2.49	0.45
2:h:44:HIS:ND1	2:h:74:LYS:HD2	2.32	0.45
2:h:111:LYS:HG2	2:h:133:LEU:HD22	1.99	0.45
2:h:221:ARG:HH12	2:h:346:GLU:CD	2.24	0.45
1:o:202:ASP:OD1	1:o:202:ASP:N	2.49	0.45
1:o:241:GLN:O	1:o:245:GLU:HG2	2.17	0.45
4:N:7:LEU:O	4:N:12:ARG:NH2	2.37	0.45
4:N:38:PHE:HA	4:N:41:LEU:HG	1.99	0.45
2:c:347:ASP:O	2:a:333:VAL:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:215:GLY:HA3	1:B:216:PRO:HD3	1.84	0.45
1:B:263:ILE:HG22	1:B:339:VAL:HA	1.98	0.45
2:P:63:LEU:HG	2:P:166:ARG:HD3	1.98	0.45
2:P:296:SER:OG	2:P:338:LYS:HG3	2.17	0.45
2:P:300:ILE:HD13	2:P:335:LEU:HD23	1.98	0.45
3:j:32:PHE:HB2	2:S:13:LYS:NZ	2.31	0.45
1:O:263:ILE:HG22	1:O:339:VAL:HA	1.98	0.45
2:f:349:ASP:HA	2:g:9:ASN:O	2.17	0.45
2:S:80:ILE:HD12	2:S:88:THR:HG21	1.99	0.45
2:S:353:GLU:HA	2:T:15:LEU:H	1.82	0.45
1:m:241:GLN:O	1:m:245:GLU:HG2	2.17	0.45
1:Q:263:ILE:HG22	1:Q:339:VAL:HA	1.98	0.45
4:M:67:ASP:OD1	4:M:68:THR:N	2.49	0.45
2:I:349:ASP:HA	2:h:9:ASN:O	2.17	0.45
2:G:107:VAL:HG23	2:G:110:ASP:H	1.82	0.45
4:E:120:CYS:SG	4:E:125:LEU:HG	2.56	0.45
1:R:276:THR:CG2	1:R:277:LEU:H	2.30	0.45
2:h:153:VAL:HG22	2:h:188:VAL:HG22	1.99	0.45
2:h:282:TYR:O	2:h:286:LEU:HG	2.16	0.45
2:U:107:VAL:HG23	2:U:110:ASP:H	1.82	0.45
2:U:226:LEU:HG	2:U:229:LEU:HD22	1.97	0.45
1:o:28:SER:O	1:o:32:ASN:N	2.48	0.45
1:Z:264:SER:OG	1:Z:323:ASN:HA	2.17	0.45
1:Z:276:THR:CG2	1:Z:277:LEU:H	2.30	0.45
2:c:63:LEU:HG	2:c:166:ARG:HD3	1.99	0.45
2:c:301:ASP:HB2	2:c:335:LEU:O	2.16	0.45
1:v:269:MET:HA	1:v:317:LEU:HA	2.00	0.44
2:D:249:ILE:HG23	2:D:282:TYR:HE2	1.82	0.44
1:O:322:ILE:N	1:O:325:SER:O	2.47	0.44
2:f:178:GLN:O	2:f:241:LYS:NZ	2.50	0.44
2:S:309:LEU:O	2:S:313:GLY:N	2.49	0.44
1:m:220:LYS:HB2	1:m:220:LYS:HE3	1.79	0.44
1:Q:224:PHE:HB3	1:Q:228:ASN:HA	1.99	0.44
2:g:27:ILE:HG13	2:g:74:LYS:HB2	1.98	0.44
2:T:190:ASP:OD1	2:T:190:ASP:N	2.47	0.44
2:I:296:SER:OG	2:I:338:LYS:HG3	2.17	0.44
2:I:347:ASP:O	2:G:333:VAL:N	2.49	0.44
1:K:28:SER:O	1:K:32:ASN:N	2.48	0.44
1:K:218:THR:HA	1:K:252:THR:OG1	2.16	0.44
4:E:38:PHE:HA	4:E:41:LEU:HG	1.99	0.44
1:R:134:LYS:HG2	1:R:137:ASN:HD22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:232:ASP:OD1	1:R:235:THR:N	2.40	0.44
2:h:296:SER:OG	2:h:338:LYS:HG3	2.17	0.44
1:Z:131:GLU:HB2	1:Z:136:TYR:CE1	2.52	0.44
2:b:28:ILE:HG22	2:b:30:MET:HG2	1.99	0.44
4:Y:67:ASP:OD1	4:Y:68:THR:N	2.49	0.44
1:B:131:GLU:HB2	1:B:136:TYR:CE1	2.52	0.44
2:P:282:TYR:CE2	2:P:286:LEU:HD11	2.52	0.44
2:C:14:GLU:HA	2:a:352:ILE:O	2.17	0.44
1:v:218:THR:HA	1:v:252:THR:OG1	2.16	0.44
2:D:60:TYR:CE1	2:D:104:PRO:HB3	2.51	0.44
2:f:27:ILE:HG13	2:f:74:LYS:HB2	1.97	0.44
2:f:111:LYS:HG2	2:f:133:LEU:HD22	1.99	0.44
2:S:68:ASN:HB3	2:S:170:LEU:HG	1.98	0.44
1:m:102:ILE:N	1:m:109:PHE:O	2.41	0.44
1:m:200:GLU:OE1	1:m:242:HIS:NE2	2.51	0.44
1:Q:172:GLU:O	1:Q:176:GLU:HG2	2.16	0.44
2:T:154:GLY:O	2:T:155:GLU:HG3	2.17	0.44
1:F:322:ILE:N	1:F:325:SER:O	2.47	0.44
2:I:44:HIS:ND1	2:I:74:LYS:HD2	2.33	0.44
1:R:85:GLU:HG3	1:R:125:SER:C	2.42	0.44
1:R:309:ILE:HD12	1:R:314:VAL:HG12	1.99	0.44
2:h:335:LEU:N	2:X:349:ASP:O	2.50	0.44
2:U:56:GLU:OE2	2:U:105:LYS:NZ	2.29	0.44
2:U:154:GLY:O	2:U:155:GLU:HG3	2.17	0.44
1:o:76:ARG:HG2	1:o:169:GLU:HB3	2.00	0.44
1:o:220:LYS:HE3	1:o:220:LYS:HB2	1.79	0.44
2:c:133:LEU:HD13	2:c:136:VAL:HG21	1.99	0.44
1:e:144:PHE:N	1:e:156:ILE:O	2.49	0.44
1:e:200:GLU:OE1	1:e:242:HIS:NE2	2.49	0.44
1:e:263:ILE:N	1:e:338:SER:O	2.51	0.44
2:b:31:VAL:HG13	2:b:103:MET:SD	2.56	0.44
2:C:13:LYS:NZ	3:d:32:PHE:HB2	2.31	0.44
1:O:88:PHE:HB3	1:O:117:ILE:HD11	1.99	0.44
2:f:340:LYS:HE3	2:S:328:ASN:ND2	2.33	0.44
4:L:120:CYS:SG	4:L:125:LEU:HG	2.57	0.44
1:Q:131:GLU:HB2	1:Q:136:TYR:CE1	2.52	0.44
2:T:107:VAL:HG23	2:T:110:ASP:H	1.82	0.44
1:n:264:SER:HA	1:n:341:THR:HB	2.00	0.44
2:W:140:HIS:HB3	2:W:143:ILE:HG12	1.99	0.44
1:F:276:THR:CG2	1:F:277:LEU:H	2.30	0.44
1:K:111:VAL:HG22	1:K:127:VAL:HG22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:28:ILE:HG22	2:H:30:MET:HG2	1.98	0.44
2:H:249:ILE:HG23	2:H:282:TYR:HE2	1.82	0.44
4:E:115:PHE:O	4:E:147:ILE:N	2.40	0.44
1:Z:113:LYS:HE3	1:Z:126:PRO:HD2	1.98	0.44
2:a:80:ILE:HD12	2:a:88:THR:HG21	1.99	0.44
2:a:154:GLY:O	2:a:155:GLU:HG3	2.17	0.44
1:e:218:THR:HA	1:e:252:THR:OG1	2.17	0.44
1:e:220:LYS:HE3	1:e:220:LYS:HB2	1.79	0.44
1:e:223:ILE:O	1:e:258:PRO:HD3	2.18	0.44
1:e:332:ASN:HB2	1:e:335:LYS:HD2	1.98	0.44
1:B:309:ILE:HD12	1:B:314:VAL:HG12	1.98	0.44
2:C:262:ILE:O	2:C:264:LYS:NZ	2.50	0.44
3:j:30:TRP:HA	3:j:38:ILE:HG22	1.99	0.44
4:A:144:LEU:HD23	4:A:144:LEU:H	1.83	0.44
1:O:264:SER:HB2	1:O:341:THR:HB	2.00	0.44
2:f:282:TYR:CE2	2:f:286:LEU:HD11	2.53	0.44
2:f:351:SER:HA	2:g:11:SER:HB3	1.99	0.44
1:m:235:THR:HA	1:m:238:ARG:HG2	1.98	0.44
1:m:263:ILE:N	1:m:338:SER:O	2.49	0.44
2:g:133:LEU:HD13	2:g:136:VAL:HG21	1.99	0.44
3:k:68:HIS:ND1	4:M:6:LYS:O	2.50	0.44
2:W:52:ASP:OD1	2:W:53:LEU:N	2.49	0.44
2:W:249:ILE:HG23	2:W:282:TYR:HE2	1.82	0.44
2:I:38:LEU:HG	2:I:80:ILE:HA	1.99	0.44
2:I:40:LEU:HG	2:I:42:GLU:OE1	2.18	0.44
2:G:80:ILE:HD12	2:G:88:THR:HG21	1.98	0.44
1:K:200:GLU:OE1	1:K:242:HIS:NE2	2.50	0.44
3:J:68:HIS:ND1	4:E:6:LYS:O	2.50	0.44
2:H:282:TYR:O	2:H:286:LEU:HG	2.17	0.44
4:E:132:ILE:O	4:E:136:LYS:N	2.27	0.44
2:h:40:LEU:HG	2:h:42:GLU:OE1	2.18	0.44
2:U:80:ILE:HD12	2:U:88:THR:HG21	1.99	0.44
4:N:67:ASP:OD1	4:N:68:THR:N	2.49	0.44
1:Z:264:SER:N	1:Z:323:ASN:OD1	2.43	0.44
1:v:194:TYR:HA	1:v:197:TRP:CE3	2.52	0.44
1:v:235:THR:HA	1:v:238:ARG:HG2	1.98	0.44
2:D:140:HIS:HB3	2:D:143:ILE:HG12	1.99	0.44
2:D:268:SER:H	2:D:271:ASN:HB2	1.83	0.44
1:O:211:PRO:HB2	1:O:212:ARG:HE	1.83	0.44
2:f:211:ILE:O	2:f:218:ARG:N	2.34	0.44
2:S:8:ILE:HG13	2:S:8:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:22:ILE:H	1:Q:22:ILE:HD12	1.83	0.44
2:g:340:LYS:HE3	2:T:328:ASN:ND2	2.33	0.44
2:T:24:ALA:HA	2:T:27:ILE:HD12	1.99	0.44
1:n:250:GLY:HA3	4:M:104:VAL:HG11	1.99	0.44
4:M:120:CYS:SG	4:M:125:LEU:HG	2.57	0.44
2:G:24:ALA:HA	2:G:27:ILE:HD12	1.99	0.44
1:R:11:LYS:NZ	1:R:31:ASN:OD1	2.37	0.44
2:h:32:LEU:HD22	2:h:104:PRO:HG2	1.98	0.44
2:h:351:SER:HA	2:c:11:SER:HB3	1.99	0.44
2:X:130:LYS:NZ	2:X:244:ASP:HA	2.33	0.44
1:Z:172:GLU:O	1:Z:176:GLU:HG2	2.16	0.44
1:e:269:MET:HA	1:e:317:LEU:HA	2.00	0.44
2:b:268:SER:H	2:b:271:ASN:HB2	1.83	0.44
1:B:22:ILE:H	1:B:22:ILE:HD12	1.83	0.44
1:B:211:PRO:HB3	4:A:138:ALA:HB1	1.98	0.44
2:P:349:ASP:HA	2:f:9:ASN:O	2.18	0.44
4:A:115:PHE:O	4:A:147:ILE:N	2.40	0.44
1:O:85:GLU:HG3	1:O:125:SER:C	2.42	0.44
2:f:160:VAL:O	2:f:164:THR:HG23	2.17	0.44
2:f:268:SER:O	2:f:272:LYS:N	2.40	0.44
2:V:140:HIS:HB3	2:V:143:ILE:HG12	1.99	0.44
2:g:153:VAL:HG22	2:g:188:VAL:HG22	1.99	0.44
2:I:32:LEU:HD22	2:I:104:PRO:HG2	1.98	0.44
2:I:153:VAL:HG22	2:I:188:VAL:HG22	1.98	0.44
1:R:172:GLU:O	1:R:176:GLU:HG2	2.17	0.44
1:R:322:ILE:N	1:R:325:SER:O	2.46	0.44
2:h:182:TYR:CE1	2:h:213:GLU:HG2	2.53	0.44
2:h:282:TYR:CE2	2:h:286:LEU:HD11	2.53	0.44
2:X:249:ILE:HG23	2:X:282:TYR:HE2	1.82	0.44
1:Z:85:GLU:HG3	1:Z:125:SER:C	2.42	0.44
2:c:282:TYR:CE2	2:c:286:LEU:HD11	2.53	0.44
2:c:323:GLU:HA	2:c:326:GLU:HG2	1.99	0.44
2:a:39:GLY:O	2:a:79:VAL:N	2.49	0.44
2:P:182:TYR:HB3	2:C:262:ILE:HD12	1.99	0.44
2:C:329:THR:OG1	2:C:332:LYS:O	2.35	0.44
1:v:34:VAL:HG12	1:v:38:ASN:HD21	1.82	0.44
3:j:38:ILE:HG23	3:j:45:LYS:HD3	1.98	0.44
2:f:143:ILE:O	2:f:225:SER:OG	2.29	0.44
2:S:122:ARG:HD3	2:S:140:HIS:CE1	2.49	0.44
2:S:348:ILE:HG21	3:i:125:LEU:HD23	2.00	0.44
1:m:76:ARG:HG2	1:m:169:GLU:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:279:ASN:O	1:m:282:GLU:HG2	2.18	0.44
1:m:300:ILE:HB	1:m:303:LYS:HB2	2.00	0.44
4:L:67:ASP:OD1	4:L:68:THR:N	2.49	0.44
2:g:154:GLY:O	2:g:155:GLU:HG3	2.17	0.44
2:T:348:ILE:HG21	3:k:125:LEU:HD23	2.00	0.44
1:F:191:LYS:HB3	4:E:138:ALA:HB2	2.00	0.44
2:I:323:GLU:HA	2:I:326:GLU:HG2	2.00	0.44
2:I:351:SER:HA	2:h:11:SER:HB3	1.99	0.44
2:G:352:ILE:O	2:U:14:GLU:HA	2.18	0.44
2:U:353:GLU:HA	2:a:15:LEU:H	1.83	0.44
1:Z:22:ILE:HD12	1:Z:22:ILE:H	1.83	0.44
2:c:111:LYS:HG2	2:c:133:LEU:HD22	1.99	0.44
2:c:335:LEU:N	2:b:349:ASP:O	2.51	0.44
1:e:300:ILE:HB	1:e:303:LYS:HB2	2.00	0.44
3:d:27:GLU:O	3:d:47:ILE:HG12	2.18	0.44
1:B:53:LYS:HG2	1:B:58:GLN:HE22	1.83	0.44
1:B:276:THR:HG22	1:B:277:LEU:H	1.80	0.44
2:P:44:HIS:ND1	2:P:74:LYS:HD2	2.32	0.44
2:P:133:LEU:HD13	2:P:136:VAL:HG21	2.00	0.44
1:v:200:GLU:OE1	1:v:242:HIS:NE2	2.50	0.44
1:O:22:ILE:HD12	1:O:22:ILE:H	1.83	0.44
1:O:131:GLU:HB2	1:O:136:TYR:CE1	2.53	0.44
2:f:38:LEU:HG	2:f:80:ILE:HA	1.99	0.44
2:S:24:ALA:HA	2:S:27:ILE:HD12	2.00	0.44
2:S:39:GLY:O	2:S:79:VAL:N	2.49	0.44
3:i:107:ASN:ND2	3:i:109:TYR:HB2	2.33	0.44
2:g:349:ASP:HA	2:I:9:ASN:O	2.18	0.44
1:n:1:MET:SD	1:n:3:SER:N	2.74	0.44
1:n:194:TYR:HA	1:n:197:TRP:CE3	2.53	0.44
3:k:27:GLU:O	3:k:47:ILE:HG12	2.18	0.44
2:W:130:LYS:NZ	2:W:244:ASP:HA	2.33	0.44
4:M:52:MET:O	4:M:56:ILE:HG13	2.18	0.44
1:F:7:TYR:O	1:F:38:ASN:ND2	2.50	0.44
2:H:130:LYS:NZ	2:H:244:ASP:HA	2.33	0.44
4:E:100:THR:HG23	4:E:114:SER:H	1.83	0.44
1:R:131:GLU:HB2	1:R:136:TYR:CE1	2.53	0.44
4:N:136:LYS:HG2	4:N:137:PRO:HD2	1.98	0.44
2:c:44:HIS:ND1	2:c:74:LYS:HD2	2.33	0.44
1:e:304:VAL:O	1:e:307:ILE:HG22	2.18	0.44
2:P:9:ASN:O	2:c:349:ASP:HA	2.17	0.44
2:P:153:VAL:HG22	2:P:188:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:221:ARG:HH12	2:P:346:GLU:CD	2.26	0.44
1:v:22:ILE:HG23	3:j:26:ARG:O	2.18	0.44
3:j:68:HIS:ND1	4:A:6:LYS:O	2.50	0.44
2:D:50:PRO:HB2	2:D:52:ASP:OD1	2.18	0.44
2:S:36:LYS:HG3	2:S:52:ASP:HB3	2.00	0.44
1:m:22:ILE:HG23	3:i:26:ARG:O	2.18	0.44
1:m:34:VAL:HG12	1:m:38:ASN:HD21	1.82	0.44
1:m:291:TYR:O	1:m:295:ILE:N	2.50	0.44
2:g:60:TYR:CE1	2:g:162:GLU:HA	2.53	0.44
4:E:52:MET:O	4:E:56:ILE:HG13	2.17	0.44
1:R:215:GLY:HA3	1:R:216:PRO:HD3	1.84	0.44
1:o:194:TYR:HA	1:o:197:TRP:CE3	2.53	0.44
2:X:31:VAL:HG23	2:X:78:TYR:HD2	1.83	0.44
4:N:100:THR:HG23	4:N:114:SER:H	1.82	0.44
1:Z:263:ILE:HG22	1:Z:339:VAL:HA	1.99	0.44
2:c:296:SER:OG	2:c:338:LYS:HG3	2.18	0.44
2:P:60:TYR:CE1	2:P:162:GLU:HA	2.53	0.43
2:P:340:LYS:HE3	2:C:328:ASN:ND2	2.33	0.43
3:j:27:GLU:O	3:j:47:ILE:HG12	2.18	0.43
4:A:67:ASP:OD1	4:A:68:THR:N	2.49	0.43
2:f:44:HIS:ND1	2:f:74:LYS:HD2	2.32	0.43
1:Q:264:SER:HB2	1:Q:341:THR:HB	2.00	0.43
1:Q:309:ILE:HD12	1:Q:314:VAL:HG12	1.99	0.43
1:n:76:ARG:HG2	1:n:169:GLU:HB3	2.00	0.43
2:I:268:SER:HB3	2:I:271:ASN:CG	2.43	0.43
2:I:282:TYR:CE2	2:I:286:LEU:HD11	2.52	0.43
2:G:348:ILE:HG21	3:J:125:LEU:HD23	2.00	0.43
1:K:76:ARG:HG2	1:K:169:GLU:HB3	2.00	0.43
1:K:269:MET:HA	1:K:317:LEU:HA	2.00	0.43
1:R:22:ILE:H	1:R:22:ILE:HD12	1.83	0.43
1:R:144:PHE:HB2	1:R:156:ILE:HB	2.00	0.43
2:h:349:ASP:HA	2:c:9:ASN:O	2.18	0.43
2:U:74:LYS:HD3	2:U:74:LYS:HA	1.74	0.43
2:X:43:ILE:HD12	2:X:77:VAL:HG21	2.00	0.43
2:X:80:ILE:HG21	2:X:88:THR:HG21	1.99	0.43
2:X:348:ILE:N	2:b:8:ILE:HG21	2.26	0.43
2:a:62:ASN:HA	2:a:65:LEU:HD12	2.00	0.43
2:P:41:ASN:N	2:P:77:VAL:O	2.33	0.43
2:P:111:LYS:HG2	2:P:133:LEU:HD22	2.00	0.43
2:C:24:ALA:HA	2:C:27:ILE:HD12	1.99	0.43
3:j:107:ASN:ND2	3:j:109:TYR:HB2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:347:ASP:HB2	2:S:332:LYS:HA	2.00	0.43
2:T:62:ASN:HA	2:T:65:LEU:HD12	2.00	0.43
1:n:300:ILE:HB	1:n:303:LYS:HB2	2.00	0.43
1:F:22:ILE:H	1:F:22:ILE:HD12	1.83	0.43
1:K:304:VAL:O	1:K:307:ILE:HG22	2.19	0.43
1:R:88:PHE:HB3	1:R:117:ILE:HD11	2.00	0.43
2:U:122:ARG:HD3	2:U:140:HIS:CE1	2.49	0.43
2:U:352:ILE:O	2:a:14:GLU:HA	2.18	0.43
1:o:22:ILE:HG23	3:l:26:ARG:O	2.18	0.43
1:e:22:ILE:HG23	3:d:26:ARG:O	2.18	0.43
2:P:323:GLU:HA	2:P:326:GLU:HG2	2.00	0.43
2:C:39:GLY:O	2:C:79:VAL:N	2.49	0.43
2:C:56:GLU:OE2	2:C:105:LYS:NZ	2.29	0.43
2:f:323:GLU:HA	2:f:326:GLU:HG2	1.99	0.43
2:f:335:LEU:N	2:V:349:ASP:O	2.52	0.43
1:m:194:TYR:HA	1:m:197:TRP:CE3	2.53	0.43
3:i:22:LEU:O	3:i:135:TYR:OH	2.27	0.43
2:T:36:LYS:HG3	2:T:52:ASP:HB3	2.00	0.43
1:n:279:ASN:O	1:n:282:GLU:HG2	2.19	0.43
3:k:107:ASN:ND2	3:k:109:TYR:HB2	2.33	0.43
1:F:222:LEU:HD21	1:F:334:ASP:HB3	2.00	0.43
2:I:182:TYR:HB3	2:G:262:ILE:HD12	2.00	0.43
2:G:62:ASN:HA	2:G:65:LEU:HD12	2.01	0.43
1:K:22:ILE:HG23	3:J:26:ARG:O	2.18	0.43
3:J:27:GLU:O	3:J:47:ILE:HG12	2.18	0.43
2:h:60:TYR:CE1	2:h:162:GLU:HA	2.53	0.43
2:X:268:SER:H	2:X:271:ASN:HB2	1.83	0.43
1:Z:48:LEU:HD21	4:Y:37:THR:HG21	2.00	0.43
2:c:40:LEU:HG	2:c:42:GLU:OE1	2.18	0.43
1:e:108:LEU:HB3	1:e:130:LEU:HD12	2.01	0.43
3:d:116:LYS:HD3	3:d:116:LYS:HA	1.83	0.43
4:A:52:MET:O	4:A:56:ILE:HG13	2.18	0.43
1:O:191:LYS:HB3	4:L:138:ALA:HB2	2.00	0.43
1:m:159:THR:OG1	1:m:160:ARG:NH1	2.52	0.43
4:L:52:MET:O	4:L:56:ILE:HG13	2.18	0.43
2:g:40:LEU:HG	2:g:42:GLU:OE1	2.18	0.43
2:g:111:LYS:HG2	2:g:133:LEU:HD22	1.99	0.43
2:g:182:TYR:HB3	2:T:262:ILE:HD12	2.00	0.43
2:g:282:TYR:CE2	2:g:286:LEU:HD11	2.53	0.43
1:n:22:ILE:HG23	3:k:26:ARG:O	2.18	0.43
1:n:266:SER:O	1:n:321:LEU:N	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:76:LEU:HD13	2:W:96:LYS:HE3	1.98	0.43
2:I:60:TYR:CE1	2:I:162:GLU:HA	2.53	0.43
2:I:133:LEU:HD13	2:I:136:VAL:HG21	2.00	0.43
2:G:352:ILE:HD12	3:J:129:VAL:C	2.44	0.43
1:R:48:LEU:HD21	4:N:37:THR:HG21	2.01	0.43
1:R:191:LYS:HB3	4:N:138:ALA:HB2	2.01	0.43
2:U:114:ILE:O	2:U:118:ILE:HG12	2.19	0.43
3:I:47:ILE:HD12	3:I:52:ALA:HA	2.00	0.43
2:X:78:TYR:CE2	2:X:80:ILE:HB	2.53	0.43
1:B:265:ILE:HD13	1:B:284:PHE:HE2	1.83	0.43
1:v:87:GLU:N	1:v:157:THR:O	2.34	0.43
1:v:223:ILE:O	1:v:258:PRO:HD3	2.19	0.43
1:O:144:PHE:HB2	1:O:156:ILE:HB	2.00	0.43
1:m:29:PHE:O	1:m:32:ASN:HB2	2.19	0.43
3:i:27:GLU:O	3:i:47:ILE:HG12	2.19	0.43
2:V:268:SER:H	2:V:271:ASN:HB2	1.83	0.43
4:L:144:LEU:HD23	4:L:144:LEU:H	1.83	0.43
1:F:39:LEU:HD22	1:K:17:ASN:ND2	2.33	0.43
1:F:229:GLN:OE1	1:F:293:ARG:NH2	2.52	0.43
1:K:194:TYR:HA	1:K:197:TRP:CE3	2.52	0.43
1:K:204:VAL:HA	1:K:225:GLY:HA2	2.00	0.43
1:K:223:ILE:O	1:K:258:PRO:HD3	2.19	0.43
4:E:65:ASP:OD1	4:E:66:PHE:N	2.51	0.43
1:R:39:LEU:HD22	1:o:17:ASN:ND2	2.34	0.43
1:R:64:PHE:O	1:R:68:ARG:HG2	2.19	0.43
1:R:222:LEU:HD21	1:R:334:ASP:HB3	2.01	0.43
2:U:62:ASN:HA	2:U:65:LEU:HD12	2.01	0.43
2:U:352:ILE:HD12	3:I:129:VAL:C	2.44	0.43
2:X:52:ASP:OD1	2:X:53:LEU:N	2.51	0.43
2:X:272:LYS:HD3	2:X:329:THR:HG21	2.01	0.43
2:b:249:ILE:HG23	2:b:282:TYR:HE2	1.82	0.43
2:b:272:LYS:HD3	2:b:329:THR:HG21	2.00	0.43
2:P:171:ILE:HG12	2:P:180:VAL:HG11	2.00	0.43
2:C:154:GLY:O	2:C:155:GLU:HG3	2.19	0.43
2:D:22:ARG:HE	2:D:285:GLU:CD	2.26	0.43
4:A:50:LEU:O	4:A:54:GLU:HG2	2.19	0.43
2:f:63:LEU:HG	2:f:166:ARG:HD3	2.00	0.43
2:S:36:LYS:O	2:S:36:LYS:NZ	2.36	0.43
2:S:62:ASN:HA	2:S:65:LEU:HD12	2.01	0.43
1:m:265:ILE:HG13	1:m:322:ILE:HG12	1.99	0.43
2:V:22:ARG:HE	2:V:285:GLU:CD	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:28:ASN:O	4:L:31:LYS:HG2	2.19	0.43
1:Q:111:VAL:HA	1:Q:127:VAL:HG22	2.00	0.43
2:T:352:ILE:O	2:G:14:GLU:HA	2.18	0.43
2:T:353:GLU:HA	2:G:15:LEU:H	1.84	0.43
2:W:22:ARG:HE	2:W:285:GLU:CD	2.26	0.43
2:W:268:SER:H	2:W:271:ASN:HB2	1.83	0.43
1:K:279:ASN:O	1:K:282:GLU:HG2	2.18	0.43
2:h:38:LEU:HG	2:h:80:ILE:HA	2.00	0.43
1:o:269:MET:HA	1:o:317:LEU:HA	2.01	0.43
1:Z:222:LEU:HD21	1:Z:334:ASP:HB3	2.01	0.43
1:Z:309:ILE:HD12	1:Z:314:VAL:HG12	2.01	0.43
1:e:76:ARG:HG2	1:e:169:GLU:HB3	2.00	0.43
1:e:194:TYR:HA	1:e:197:TRP:CE3	2.53	0.43
3:d:107:ASN:ND2	3:d:109:TYR:HB2	2.33	0.43
2:b:50:PRO:HB2	2:b:52:ASP:OD1	2.19	0.43
2:b:111:LYS:HB3	2:b:133:LEU:HD13	2.01	0.43
2:C:10:ILE:HD12	2:a:348:ILE:HG13	2.01	0.43
2:C:352:ILE:O	2:S:14:GLU:HA	2.18	0.43
1:v:29:PHE:O	1:v:32:ASN:HB2	2.19	0.43
2:D:10:ILE:HG23	2:D:10:ILE:O	2.19	0.43
2:D:118:ILE:HG23	2:D:129:VAL:HG23	2.01	0.43
2:D:130:LYS:NZ	2:D:244:ASP:HA	2.33	0.43
4:A:65:ASP:OD1	4:A:66:PHE:N	2.52	0.43
1:O:232:ASP:OD1	1:O:235:THR:N	2.40	0.43
2:f:268:SER:HB3	2:f:271:ASN:CG	2.43	0.43
2:S:352:ILE:HD12	3:i:129:VAL:C	2.44	0.43
1:m:27:GLY:HA2	3:i:71:TYR:HE2	1.83	0.43
2:V:42:GLU:HB2	2:V:44:HIS:NE2	2.34	0.43
4:L:50:LEU:O	4:L:54:GLU:HG2	2.19	0.43
1:Q:112:ILE:HG12	1:Q:127:VAL:HA	2.01	0.43
2:T:352:ILE:HD12	3:k:129:VAL:C	2.44	0.43
2:W:10:ILE:HG23	2:W:10:ILE:O	2.19	0.43
1:F:48:LEU:HD21	4:E:37:THR:HG21	2.00	0.43
1:F:265:ILE:HD13	1:F:284:PHE:HE2	1.84	0.43
2:G:114:ILE:O	2:G:118:ILE:HG12	2.19	0.43
3:J:54:LYS:HE2	2:U:14:GLU:HG2	2.00	0.43
3:J:107:ASN:ND2	3:J:109:TYR:HB2	2.34	0.43
3:J:123:ASP:OD1	3:J:123:ASP:N	2.50	0.43
2:H:10:ILE:O	2:H:10:ILE:HG23	2.19	0.43
2:H:111:LYS:HB3	2:H:133:LEU:HD13	2.00	0.43
1:R:265:ILE:HD13	1:R:284:PHE:HE2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:36:LYS:HG3	2:U:52:ASP:HB3	2.00	0.43
1:Z:144:PHE:HB2	1:Z:156:ILE:HB	2.00	0.43
1:Z:229:GLN:OE1	1:Z:293:ARG:NH2	2.51	0.43
2:c:60:TYR:CE1	2:c:162:GLU:HA	2.53	0.43
2:a:325:LYS:H	2:a:325:LYS:HG3	1.65	0.43
1:e:250:GLY:HA3	4:Y:104:VAL:HG11	1.99	0.43
2:b:22:ARG:HE	2:b:285:GLU:CD	2.26	0.43
2:b:52:ASP:OD1	2:b:53:LEU:N	2.52	0.43
2:P:38:LEU:HG	2:P:80:ILE:HA	1.99	0.43
2:P:40:LEU:HG	2:P:42:GLU:OE1	2.18	0.43
2:P:351:SER:HA	2:f:11:SER:HB3	2.00	0.43
2:C:62:ASN:HA	2:C:65:LEU:HD12	2.00	0.43
2:C:107:VAL:HG23	2:C:110:ASP:H	1.82	0.43
1:v:159:THR:OG1	1:v:160:ARG:NH1	2.52	0.43
2:f:60:TYR:CE1	2:f:162:GLU:HA	2.53	0.43
2:f:66:MET:HG3	2:f:166:ARG:CZ	2.49	0.43
2:V:22:ARG:HD3	2:V:252:ASP:HB3	2.01	0.43
2:g:66:MET:HG3	2:g:166:ARG:CZ	2.49	0.43
4:M:65:ASP:OD1	4:M:66:PHE:N	2.52	0.43
4:M:77:MET:HE1	4:M:78:ARG:HE	1.83	0.43
2:I:111:LYS:HG2	2:I:133:LEU:HD22	2.00	0.43
1:K:118:GLY:N	1:K:123:ASP:OD1	2.51	0.43
2:H:268:SER:H	2:H:271:ASN:HB2	1.83	0.43
1:R:305:MET:HE1	1:e:305:MET:HE2	1.99	0.43
2:U:24:ALA:HA	2:U:27:ILE:HD12	2.00	0.43
1:o:300:ILE:HB	1:o:303:LYS:HB2	2.01	0.43
3:l:107:ASN:ND2	3:l:109:TYR:HB2	2.33	0.43
2:X:42:GLU:HB2	2:X:44:HIS:NE2	2.34	0.43
4:N:65:ASP:OD1	4:N:66:PHE:N	2.52	0.43
4:N:115:PHE:CZ	4:N:144:LEU:HB2	2.54	0.43
2:c:292:ILE:HA	2:c:342:LEU:H	1.84	0.43
1:e:102:ILE:N	1:e:109:PHE:O	2.42	0.43
4:Y:115:PHE:CZ	4:Y:144:LEU:HB2	2.54	0.43
1:B:222:LEU:HD21	1:B:334:ASP:HB3	2.00	0.43
1:B:264:SER:HB2	1:B:341:THR:HB	2.00	0.43
1:B:321:LEU:HD23	1:B:326:THR:HG23	2.01	0.43
2:C:36:LYS:HG3	2:C:52:ASP:HB3	2.00	0.43
2:C:325:LYS:H	2:C:325:LYS:HG3	1.65	0.43
1:v:202:ASP:OD1	1:v:202:ASP:N	2.49	0.43
4:A:28:ASN:O	4:A:31:LYS:HG2	2.19	0.43
1:O:265:ILE:HD13	1:O:284:PHE:HE2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:130:LYS:NZ	2:V:244:ASP:HA	2.33	0.43
2:V:221:ARG:HD2	2:V:221:ARG:HA	1.90	0.43
1:Q:191:LYS:HB3	4:M:138:ALA:HB2	2.01	0.43
1:Q:284:PHE:CG	1:Q:308:LEU:HD13	2.54	0.43
2:g:268:SER:HB3	2:g:271:ASN:CG	2.43	0.43
2:W:42:GLU:HB2	2:W:44:HIS:NE2	2.34	0.43
4:M:115:PHE:CZ	4:M:144:LEU:HB2	2.54	0.43
2:G:154:GLY:O	2:G:155:GLU:HG3	2.19	0.43
2:G:203:VAL:HG21	2:U:6:PRO:HB3	2.01	0.43
1:K:220:LYS:HB2	1:K:220:LYS:HE3	1.79	0.43
1:K:264:SER:HA	1:K:341:THR:HB	2.01	0.43
2:h:66:MET:HG3	2:h:166:ARG:CZ	2.49	0.43
2:h:268:SER:HB3	2:h:271:ASN:CG	2.44	0.43
2:h:323:GLU:HA	2:h:326:GLU:HG2	1.99	0.43
2:h:340:LYS:HE3	2:U:328:ASN:ND2	2.33	0.43
3:l:22:LEU:O	3:l:135:TYR:OH	2.27	0.43
2:X:10:ILE:O	2:X:10:ILE:HG23	2.19	0.43
2:X:28:ILE:HD11	2:X:169:GLY:HA2	2.01	0.43
4:N:144:LEU:HD23	4:N:144:LEU:H	1.83	0.43
1:Z:325:SER:OG	1:Z:326:THR:N	2.52	0.43
1:e:69:VAL:HB	1:e:74:VAL:HB	2.01	0.43
4:Y:144:LEU:HD23	4:Y:144:LEU:H	1.84	0.43
1:B:229:GLN:OE1	1:B:293:ARG:NH2	2.51	0.43
1:B:237:GLU:O	1:B:240:GLN:HG3	2.18	0.43
2:P:11:SER:HB3	2:c:351:SER:HA	2.00	0.43
2:C:27:ILE:O	2:C:99:ASN:HB3	2.19	0.43
2:S:352:ILE:O	2:T:14:GLU:HA	2.18	0.43
2:V:272:LYS:HD3	2:V:329:THR:HG21	2.00	0.43
2:g:103:MET:HB3	2:g:106:ALA:HB2	2.00	0.43
1:n:108:LEU:HB3	1:n:130:LEU:HD12	2.01	0.43
4:M:50:LEU:O	4:M:54:GLU:HG2	2.19	0.43
1:F:264:SER:HB2	1:F:341:THR:HB	2.00	0.43
2:G:27:ILE:O	2:G:99:ASN:HB3	2.19	0.43
1:K:159:THR:OG1	1:K:160:ARG:NH1	2.52	0.43
1:K:265:ILE:HG13	1:K:322:ILE:HG12	2.00	0.43
2:H:191:ILE:HG12	2:H:212:LYS:HE2	2.01	0.43
1:R:211:PRO:HB2	1:R:212:ARG:HE	1.83	0.43
2:h:103:MET:HB3	2:h:106:ALA:HB2	2.01	0.43
1:o:279:ASN:O	1:o:282:GLU:HG2	2.18	0.43
2:X:22:ARG:HE	2:X:285:GLU:CD	2.26	0.43
1:Z:215:GLY:HA3	1:Z:216:PRO:HD3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:103:MET:HB3	2:c:106:ALA:HB2	2.01	0.43
2:c:340:LYS:HE3	2:a:328:ASN:ND2	2.33	0.43
2:a:352:ILE:HD12	3:d:129:VAL:C	2.44	0.43
1:e:48:LEU:HD12	1:e:51:MET:SD	2.59	0.43
2:b:130:LYS:NZ	2:b:244:ASP:HA	2.33	0.43
1:B:48:LEU:HD21	4:A:37:THR:HG21	2.00	0.42
1:B:64:PHE:O	1:B:68:ARG:HG2	2.19	0.42
2:C:128:LYS:HB3	2:C:247:ASP:CG	2.44	0.42
1:v:76:ARG:HG2	1:v:169:GLU:HB3	2.01	0.42
1:v:263:ILE:N	1:v:338:SER:O	2.52	0.42
1:m:223:ILE:O	1:m:258:PRO:HD3	2.19	0.42
4:L:65:ASP:OD1	4:L:66:PHE:N	2.52	0.42
1:Q:229:GLN:OE1	1:Q:293:ARG:NH2	2.52	0.42
2:T:224:ASN:N	2:T:238:GLN:O	2.36	0.42
1:n:269:MET:HA	1:n:317:LEU:HA	2.00	0.42
2:H:22:ARG:HE	2:H:285:GLU:CD	2.26	0.42
4:E:144:LEU:HD23	4:E:144:LEU:H	1.83	0.42
2:h:63:LEU:HG	2:h:166:ARG:HD3	2.00	0.42
2:h:179:SER:N	2:U:263:GLY:O	2.48	0.42
2:U:27:ILE:O	2:U:99:ASN:HB3	2.19	0.42
1:o:108:LEU:HB3	1:o:130:LEU:HD12	2.01	0.42
1:B:111:VAL:HA	1:B:127:VAL:HG22	2.01	0.42
2:P:268:SER:HB3	2:P:271:ASN:CG	2.43	0.42
1:v:27:GLY:HA2	3:j:71:TYR:HE2	1.84	0.42
2:D:146:PHE:CZ	2:D:148:THR:HB	2.54	0.42
4:A:77:MET:SD	4:A:78:ARG:HG2	2.59	0.42
1:O:39:LEU:HD22	1:m:17:ASN:ND2	2.34	0.42
2:f:40:LEU:HG	2:f:42:GLU:OE1	2.18	0.42
1:m:80:THR:OG1	1:m:164:GLY:O	2.25	0.42
1:m:108:LEU:HB3	1:m:130:LEU:HD12	2.01	0.42
2:V:40:LEU:HG	2:V:42:GLU:OE1	2.19	0.42
2:V:146:PHE:CZ	2:V:148:THR:HB	2.54	0.42
2:V:348:ILE:N	2:W:8:ILE:HG21	2.25	0.42
1:Q:321:LEU:HD23	1:Q:326:THR:HG23	2.01	0.42
2:g:44:HIS:ND1	2:g:74:LYS:HD2	2.34	0.42
2:g:292:ILE:HA	2:g:342:LEU:H	1.84	0.42
2:T:27:ILE:O	2:T:99:ASN:HB3	2.19	0.42
1:n:48:LEU:HD12	1:n:51:MET:SD	2.59	0.42
2:I:340:LYS:HE3	2:G:328:ASN:ND2	2.33	0.42
1:K:263:ILE:N	1:K:338:SER:O	2.51	0.42
2:H:32:LEU:HD21	2:H:57:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:251:PRO:HB3	4:N:139:HIS:CG	2.54	0.42
2:U:347:ASP:OD1	2:U:348:ILE:N	2.49	0.42
1:o:27:GLY:HA2	3:l:71:TYR:HE2	1.84	0.42
1:o:276:THR:OG1	1:o:278:ASP:OD2	2.27	0.42
3:l:27:GLU:O	3:l:47:ILE:HG12	2.19	0.42
2:c:268:SER:HB3	2:c:271:ASN:CG	2.43	0.42
2:a:27:ILE:O	2:a:99:ASN:HB3	2.19	0.42
4:Y:50:LEU:O	4:Y:54:GLU:HG2	2.19	0.42
1:B:191:LYS:HB3	4:A:138:ALA:HB2	2.00	0.42
2:C:352:ILE:HD12	3:j:129:VAL:C	2.44	0.42
1:v:204:VAL:HA	1:v:225:GLY:HA2	2.01	0.42
1:v:279:ASN:O	1:v:282:GLU:HG2	2.18	0.42
1:O:112:ILE:HG12	1:O:127:VAL:HA	2.01	0.42
1:m:264:SER:HA	1:m:341:THR:HB	2.01	0.42
2:V:34:ASP:OD2	2:V:53:LEU:HD23	2.19	0.42
2:g:351:SER:HA	2:I:11:SER:HB3	2.01	0.42
2:W:40:LEU:HG	2:W:42:GLU:OE1	2.20	0.42
2:W:272:LYS:HD3	2:W:329:THR:HG21	2.01	0.42
1:F:112:ILE:HG12	1:F:127:VAL:HA	2.01	0.42
1:K:202:ASP:OD1	1:K:202:ASP:N	2.49	0.42
2:H:272:LYS:HD3	2:H:329:THR:HG21	2.01	0.42
2:h:182:TYR:HB3	2:U:262:ILE:HD12	2.00	0.42
2:U:148:THR:OG1	2:U:209:ILE:HA	2.19	0.42
1:o:264:SER:HA	1:o:341:THR:HB	2.01	0.42
2:X:32:LEU:HD21	2:X:57:ASN:HD22	1.85	0.42
2:X:34:ASP:OD2	2:X:53:LEU:HD23	2.18	0.42
4:N:28:ASN:O	4:N:31:LYS:HG2	2.19	0.42
1:Z:7:TYR:O	1:Z:38:ASN:ND2	2.49	0.42
1:Z:265:ILE:HD13	1:Z:284:PHE:HE2	1.84	0.42
2:c:182:TYR:HB3	2:a:262:ILE:HD12	2.01	0.42
2:c:347:ASP:HB2	2:a:332:LYS:HA	2.00	0.42
2:a:24:ALA:HA	2:a:27:ILE:HD12	1.99	0.42
4:Y:65:ASP:OD1	4:Y:66:PHE:N	2.51	0.42
1:v:108:LEU:HB3	1:v:130:LEU:HD12	2.01	0.42
2:D:42:GLU:HB2	2:D:44:HIS:NE2	2.35	0.42
2:S:114:ILE:O	2:S:118:ILE:HG12	2.19	0.42
2:g:323:GLU:HA	2:g:326:GLU:HG2	2.00	0.42
1:n:223:ILE:O	1:n:258:PRO:HD3	2.18	0.42
2:W:146:PHE:CZ	2:W:148:THR:HB	2.54	0.42
2:I:221:ARG:HD2	2:I:221:ARG:HA	1.82	0.42
2:G:36:LYS:HG3	2:G:52:ASP:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:292:ILE:HA	2:h:342:LEU:H	1.85	0.42
1:o:200:GLU:OE1	1:o:242:HIS:NE2	2.50	0.42
2:X:146:PHE:CZ	2:X:148:THR:HB	2.54	0.42
2:X:191:ILE:HG12	2:X:212:LYS:HE2	2.02	0.42
4:N:52:MET:O	4:N:56:ILE:HG13	2.18	0.42
4:Y:52:MET:O	4:Y:56:ILE:HG13	2.18	0.42
1:B:291:TYR:O	1:B:295:ILE:N	2.52	0.42
2:D:323:GLU:HA	2:D:326:GLU:HG2	2.01	0.42
4:A:77:MET:HE1	4:A:78:ARG:HE	1.85	0.42
2:f:182:TYR:HB3	2:S:262:ILE:HD12	2.00	0.42
2:S:49:ILE:HD12	2:S:58:LYS:HG2	2.02	0.42
3:i:89:LYS:HB3	3:i:120:PHE:CE1	2.54	0.42
4:L:77:MET:HE1	4:L:78:ARG:HE	1.85	0.42
1:Q:222:LEU:HD21	1:Q:334:ASP:HB3	2.01	0.42
1:n:263:ILE:N	1:n:338:SER:O	2.51	0.42
1:K:108:LEU:HB3	1:K:130:LEU:HD12	2.01	0.42
2:H:52:ASP:OD1	2:H:53:LEU:N	2.52	0.42
4:E:28:ASN:O	4:E:31:LYS:HG2	2.19	0.42
4:E:77:MET:SD	4:E:78:ARG:HG2	2.60	0.42
2:U:329:THR:OG1	2:U:332:LYS:O	2.34	0.42
1:o:223:ILE:O	1:o:258:PRO:HD3	2.19	0.42
2:X:279:ILE:O	2:X:283:LEU:HG	2.19	0.42
1:Z:191:LYS:HB3	4:Y:138:ALA:HB2	2.01	0.42
3:d:89:LYS:HB3	3:d:120:PHE:CE1	2.54	0.42
1:B:39:LEU:HD22	1:v:17:ASN:ND2	2.33	0.42
1:B:112:ILE:HG12	1:B:127:VAL:HA	2.01	0.42
1:B:284:PHE:CG	1:B:308:LEU:HD13	2.55	0.42
3:j:89:LYS:HB3	3:j:120:PHE:CE1	2.55	0.42
1:O:48:LEU:HD21	4:L:37:THR:HG21	2.00	0.42
1:O:64:PHE:O	1:O:68:ARG:HG2	2.19	0.42
1:m:269:MET:HA	1:m:317:LEU:HA	2.02	0.42
2:V:279:ILE:O	2:V:283:LEU:HG	2.19	0.42
2:g:179:SER:N	2:T:263:GLY:O	2.49	0.42
1:n:11:LYS:HA	1:n:38:ASN:ND2	2.35	0.42
2:W:132:VAL:HA	2:W:144:ILE:HB	2.01	0.42
2:W:240:ILE:HA	2:W:243:VAL:HG12	2.02	0.42
4:M:115:PHE:O	4:M:147:ILE:N	2.39	0.42
1:F:64:PHE:O	1:F:68:ARG:HG2	2.19	0.42
2:G:148:THR:OG1	2:G:209:ILE:HA	2.19	0.42
3:J:116:LYS:HD3	3:J:116:LYS:HA	1.83	0.42
2:H:42:GLU:HB2	2:H:44:HIS:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:146:PHE:CZ	2:H:148:THR:HB	2.55	0.42
1:R:229:GLN:OE1	1:R:293:ARG:NH2	2.53	0.42
1:R:284:PHE:CG	1:R:308:LEU:HD13	2.55	0.42
2:U:49:ILE:HD13	2:U:49:ILE:HA	1.95	0.42
2:U:348:ILE:HG21	3:l:125:LEU:HD23	2.00	0.42
1:o:87:GLU:N	1:o:157:THR:O	2.34	0.42
2:X:22:ARG:HD3	2:X:252:ASP:HB3	2.02	0.42
1:Z:88:PHE:HB3	1:Z:117:ILE:HD11	1.99	0.42
1:Z:112:ILE:HG12	1:Z:127:VAL:HA	2.02	0.42
2:c:66:MET:HG3	2:c:166:ARG:CZ	2.49	0.42
2:a:114:ILE:O	2:a:118:ILE:HG12	2.19	0.42
1:e:11:LYS:HA	1:e:38:ASN:ND2	2.35	0.42
1:e:279:ASN:O	1:e:282:GLU:HG2	2.19	0.42
1:v:1:MET:SD	1:v:3:SER:N	2.74	0.42
1:v:185:GLN:OE1	1:v:185:GLN:N	2.53	0.42
2:D:59:GLU:OE2	2:D:158:TYR:OH	2.37	0.42
3:i:107:ASN:HB3	3:i:110:ILE:HG13	2.02	0.42
4:L:77:MET:SD	4:L:78:ARG:HG2	2.60	0.42
1:Q:7:TYR:O	1:Q:38:ASN:ND2	2.50	0.42
1:Q:227:ASN:O	1:Q:293:ARG:NH1	2.52	0.42
1:n:30:LEU:O	1:n:34:VAL:HG23	2.20	0.42
1:n:69:VAL:HB	1:n:74:VAL:HB	2.00	0.42
2:W:221:ARG:HA	2:W:221:ARG:HD2	1.90	0.42
1:R:112:ILE:HG12	1:R:127:VAL:HA	2.01	0.42
1:R:237:GLU:O	1:R:240:GLN:HG3	2.20	0.42
2:a:36:LYS:HG3	2:a:52:ASP:HB3	2.00	0.42
1:e:29:PHE:O	1:e:32:ASN:HB2	2.20	0.42
2:b:10:ILE:HG23	2:b:10:ILE:O	2.19	0.42
2:f:292:ILE:HA	2:f:342:LEU:H	1.85	0.42
2:S:74:LYS:HD3	2:S:74:LYS:HA	1.74	0.42
2:S:281:SER:O	2:S:285:GLU:HG3	2.20	0.42
2:V:78:TYR:CE2	2:V:80:ILE:HB	2.54	0.42
2:T:329:THR:OG1	2:T:332:LYS:O	2.34	0.42
3:k:89:LYS:HB3	3:k:120:PHE:CE1	2.54	0.42
2:W:34:ASP:OD2	2:W:53:LEU:HD23	2.19	0.42
1:F:188:SER:OG	1:K:186:ALA:O	2.29	0.42
1:F:220:LYS:HA	1:F:220:LYS:HD2	1.92	0.42
2:I:179:SER:N	2:G:263:GLY:O	2.50	0.42
2:H:60:TYR:CE1	2:H:104:PRO:HB3	2.54	0.42
2:H:323:GLU:HA	2:H:326:GLU:HG2	2.01	0.42
1:o:29:PHE:O	1:o:32:ASN:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N:77:MET:SD	4:N:78:ARG:HG2	2.60	0.42
1:Z:106:ASP:OD1	1:Z:106:ASP:N	2.53	0.42
1:e:159:THR:OG1	1:e:160:ARG:NH1	2.53	0.42
1:e:264:SER:HA	1:e:341:THR:HB	2.01	0.42
2:b:42:GLU:HB2	2:b:44:HIS:NE2	2.35	0.42
4:Y:77:MET:HE1	4:Y:78:ARG:HE	1.83	0.42
4:Y:77:MET:SD	4:Y:78:ARG:HG2	2.60	0.42
1:B:7:TYR:O	1:B:38:ASN:ND2	2.50	0.42
2:P:292:ILE:HA	2:P:342:LEU:H	1.85	0.42
2:C:148:THR:OG1	2:C:209:ILE:HA	2.20	0.42
2:S:282:TYR:CE2	2:S:286:LEU:HD11	2.55	0.42
1:m:291:TYR:CE2	1:m:295:ILE:HD12	2.55	0.42
4:L:115:PHE:CZ	4:L:144:LEU:HB2	2.54	0.42
2:g:132:VAL:HA	2:g:144:ILE:HB	2.02	0.42
2:T:114:ILE:O	2:T:118:ILE:HG12	2.19	0.42
2:W:33:LYS:HE3	2:W:105:LYS:HG3	2.01	0.42
2:W:279:ILE:O	2:W:283:LEU:HG	2.19	0.42
4:M:28:ASN:O	4:M:31:LYS:HG2	2.19	0.42
2:G:128:LYS:HB3	2:G:247:ASP:CG	2.45	0.42
2:G:302:PHE:CD2	2:G:306:LYS:HE3	2.55	0.42
1:K:29:PHE:O	1:K:32:ASN:HB2	2.19	0.42
2:H:40:LEU:HG	2:H:42:GLU:OE1	2.20	0.42
2:U:240:ILE:HA	2:U:243:VAL:HG12	2.02	0.42
2:U:352:ILE:HG13	2:U:353:GLU:N	2.35	0.42
4:N:50:LEU:O	4:N:54:GLU:HG2	2.19	0.42
1:Z:64:PHE:O	1:Z:68:ARG:HG2	2.19	0.42
1:Z:211:PRO:HB2	1:Z:212:ARG:HE	1.85	0.42
2:c:132:VAL:HA	2:c:144:ILE:HB	2.02	0.42
2:c:282:TYR:CZ	2:c:286:LEU:HD21	2.55	0.42
2:c:343:ASP:O	2:a:267:ASN:N	2.44	0.42
2:a:194:MET:HE1	2:a:199:ALA:HB2	2.02	0.42
1:e:118:GLY:N	1:e:123:ASP:OD1	2.50	0.42
2:b:40:LEU:HG	2:b:42:GLU:OE1	2.19	0.42
2:b:282:TYR:CE2	2:b:286:LEU:HD11	2.55	0.42
2:C:352:ILE:HG13	2:C:353:GLU:N	2.35	0.42
1:v:264:SER:HA	1:v:341:THR:HB	2.01	0.42
2:D:240:ILE:HA	2:D:243:VAL:HG12	2.01	0.42
4:A:115:PHE:CZ	4:A:144:LEU:HB2	2.55	0.42
1:O:222:LEU:HD21	1:O:334:ASP:HB3	2.01	0.42
1:Q:67:LYS:O	1:Q:71:GLU:HG3	2.20	0.42
2:g:221:ARG:HD2	2:g:221:ARG:HA	1.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:194:MET:HE1	2:T:199:ALA:HB2	2.01	0.42
2:T:302:PHE:CD2	2:T:306:LYS:HE3	2.55	0.42
2:I:292:ILE:HA	2:I:342:LEU:H	1.85	0.42
2:G:352:ILE:HG13	2:G:353:GLU:N	2.35	0.42
3:J:107:ASN:HB3	3:J:110:ILE:HG13	2.02	0.42
2:H:22:ARG:HD3	2:H:252:ASP:HB3	2.02	0.42
2:H:349:ASP:OD2	2:X:8:ILE:HD11	2.20	0.42
2:U:39:GLY:O	2:U:79:VAL:N	2.49	0.42
2:U:190:ASP:OD1	2:U:190:ASP:N	2.47	0.42
1:o:130:LEU:HD23	1:o:130:LEU:HA	1.91	0.42
1:o:159:THR:OG1	1:o:160:ARG:NH1	2.52	0.42
1:o:185:GLN:OE1	1:o:185:GLN:N	2.53	0.42
2:X:301:ASP:HB3	2:X:304:ALA:HB3	2.02	0.42
1:Z:266:SER:OG	1:Z:321:LEU:HB2	2.19	0.42
1:Z:291:TYR:O	1:Z:295:ILE:N	2.53	0.42
2:c:335:LEU:O	2:b:350:LEU:HA	2.19	0.42
2:a:352:ILE:HG13	2:a:353:GLU:N	2.35	0.42
1:e:213:TRP:CE3	1:e:214:ASP:HB2	2.55	0.42
2:b:146:PHE:CZ	2:b:148:THR:HB	2.54	0.42
4:Y:87:VAL:O	4:Y:90:SER:OG	2.32	0.42
2:P:211:ILE:O	2:P:218:ARG:N	2.35	0.41
2:P:221:ARG:HD2	2:P:221:ARG:HA	1.75	0.41
2:P:270:ASP:O	2:P:274:LEU:HG	2.20	0.41
1:v:80:THR:OG1	1:v:164:GLY:O	2.26	0.41
1:O:111:VAL:HA	1:O:127:VAL:HG22	2.02	0.41
1:O:227:ASN:O	1:O:293:ARG:NH1	2.52	0.41
1:O:229:GLN:OE1	1:O:293:ARG:NH2	2.53	0.41
1:m:69:VAL:HB	1:m:74:VAL:HB	2.00	0.41
2:V:191:ILE:HG12	2:V:212:LYS:HE2	2.01	0.41
1:Q:211:PRO:HB2	1:Q:212:ARG:HE	1.84	0.41
2:T:281:SER:O	2:T:285:GLU:HG3	2.20	0.41
2:W:78:TYR:CE2	2:W:80:ILE:HB	2.54	0.41
4:M:144:LEU:HD23	4:M:144:LEU:H	1.83	0.41
2:I:211:ILE:O	2:I:218:ARG:N	2.35	0.41
3:J:130:LYS:HZ3	3:J:130:LYS:HG2	1.70	0.41
2:H:240:ILE:HA	2:H:243:VAL:HG12	2.02	0.41
2:H:301:ASP:HB3	2:H:304:ALA:HB3	2.02	0.41
2:U:128:LYS:HB3	2:U:247:ASP:CG	2.45	0.41
1:o:98:ASN:N	1:o:114:ASP:OD1	2.53	0.41
3:l:107:ASN:HB3	3:l:110:ILE:HG13	2.02	0.41
1:Z:67:LYS:O	1:Z:71:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:251:PRO:HB3	4:Y:139:HIS:CG	2.54	0.41
2:a:128:LYS:HB3	2:a:247:ASP:CG	2.45	0.41
2:a:282:TYR:CE2	2:a:286:LEU:HD11	2.55	0.41
1:e:84:GLY:O	1:e:127:VAL:N	2.30	0.41
1:e:221:VAL:N	1:e:254:THR:O	2.52	0.41
1:e:291:TYR:CE2	1:e:295:ILE:HD12	2.55	0.41
4:Y:100:THR:HG23	4:Y:114:SER:H	1.85	0.41
2:C:281:SER:O	2:C:285:GLU:HG3	2.20	0.41
2:D:40:LEU:HG	2:D:42:GLU:OE1	2.20	0.41
2:f:282:TYR:CZ	2:f:286:LEU:HD21	2.55	0.41
2:S:148:THR:OG1	2:S:209:ILE:HA	2.19	0.41
2:S:302:PHE:CD2	2:S:306:LYS:HE3	2.55	0.41
1:m:117:ILE:HD11	1:m:153:VAL:HG22	2.02	0.41
1:m:204:VAL:HA	1:m:225:GLY:HA2	2.03	0.41
3:i:47:ILE:HD12	3:i:52:ALA:HA	2.01	0.41
1:Q:220:LYS:NZ	1:Q:221:VAL:O	2.53	0.41
2:T:128:LYS:HB3	2:T:247:ASP:CG	2.45	0.41
3:k:107:ASN:HB3	3:k:110:ILE:HG13	2.02	0.41
2:I:63:LEU:HG	2:I:166:ARG:HD3	2.01	0.41
1:K:292:PHE:CD2	1:K:337:PRO:HB2	2.56	0.41
3:J:89:LYS:HB3	3:J:120:PHE:CE1	2.54	0.41
2:U:49:ILE:HD12	2:U:58:LYS:HG2	2.02	0.41
2:U:282:TYR:CE2	2:U:286:LEU:HD11	2.55	0.41
1:o:89:ILE:O	1:o:154:THR:OG1	2.31	0.41
2:X:282:TYR:CE2	2:X:286:LEU:HD11	2.56	0.41
1:Z:237:GLU:O	1:Z:240:GLN:HG3	2.20	0.41
2:c:38:LEU:HG	2:c:80:ILE:HA	2.00	0.41
2:c:270:ASP:O	2:c:274:LEU:HG	2.21	0.41
2:a:302:PHE:CD2	2:a:306:LYS:HE3	2.55	0.41
1:e:80:THR:OG1	1:e:164:GLY:O	2.26	0.41
4:Y:120:CYS:SG	4:Y:124:THR:HG23	2.60	0.41
1:B:193:HIS:CE1	1:v:185:GLN:HE21	2.38	0.41
1:B:325:SER:OG	1:B:326:THR:N	2.53	0.41
2:P:122:ARG:HD3	2:P:140:HIS:HE1	1.86	0.41
2:P:132:VAL:HA	2:P:144:ILE:HB	2.03	0.41
2:P:182:TYR:HD2	2:C:262:ILE:HD12	1.84	0.41
2:C:282:TYR:CE2	2:C:286:LEU:HD11	2.55	0.41
2:D:111:LYS:HB3	2:D:133:LEU:HD13	2.02	0.41
1:O:266:SER:HG	1:O:321:LEU:HB2	1.85	0.41
2:S:128:LYS:HB3	2:S:247:ASP:CG	2.45	0.41
2:V:240:ILE:HA	2:V:243:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:282:TYR:CE2	2:V:286:LEU:HD11	2.55	0.41
1:n:87:GLU:N	1:n:157:THR:O	2.35	0.41
1:n:185:GLN:OE1	1:n:185:GLN:N	2.53	0.41
1:F:111:VAL:HA	1:F:127:VAL:HG22	2.01	0.41
1:F:133:GLY:HA2	1:F:167:ASP:HA	2.02	0.41
1:K:285:LEU:HA	1:K:288:ILE:HG22	2.03	0.41
4:E:85:ILE:H	4:E:85:ILE:HG13	1.74	0.41
1:R:177:ARG:HG2	1:R:199:LEU:HD21	2.02	0.41
2:h:270:ASP:O	2:h:274:LEU:HG	2.20	0.41
1:o:291:TYR:CE2	1:o:295:ILE:HD12	2.55	0.41
3:l:54:LYS:HE2	2:a:14:GLU:CG	2.50	0.41
2:X:132:VAL:HA	2:X:144:ILE:HB	2.02	0.41
2:X:143:ILE:O	2:X:225:SER:OG	2.31	0.41
2:X:323:GLU:HA	2:X:326:GLU:HG2	2.02	0.41
4:N:85:ILE:H	4:N:85:ILE:HG13	1.74	0.41
1:Z:263:ILE:N	1:Z:338:SER:O	2.52	0.41
1:e:117:ILE:HD11	1:e:153:VAL:HG22	2.02	0.41
1:v:250:GLY:HA3	4:A:104:VAL:HG11	2.02	0.41
4:A:13:ASN:O	4:A:17:GLU:HG3	2.21	0.41
1:O:291:TYR:O	1:O:295:ILE:N	2.54	0.41
2:f:287:GLU:HB2	2:f:294:SER:OG	2.21	0.41
1:m:118:GLY:N	1:m:123:ASP:OD1	2.51	0.41
2:V:301:ASP:HB3	2:V:304:ALA:HB3	2.02	0.41
1:Q:48:LEU:HD21	4:M:37:THR:HG21	2.01	0.41
2:g:93:LEU:HD11	2:g:101:LEU:HD22	2.02	0.41
2:g:282:TYR:CZ	2:g:286:LEU:HD21	2.55	0.41
2:T:93:LEU:HD11	2:T:101:LEU:HD13	2.03	0.41
2:W:31:VAL:HG23	2:W:78:TYR:HD2	1.85	0.41
2:W:191:ILE:HG12	2:W:212:LYS:HE2	2.02	0.41
2:G:281:SER:O	2:G:285:GLU:HG3	2.20	0.41
1:K:309:ILE:HD13	1:K:317:LEU:HD22	2.03	0.41
4:E:77:MET:HE1	4:E:78:ARG:HE	1.85	0.41
2:U:99:ASN:C	2:U:99:ASN:HD22	2.28	0.41
2:U:281:SER:O	2:U:285:GLU:HG3	2.20	0.41
3:l:130:LYS:HZ3	3:l:130:LYS:HG2	1.68	0.41
2:X:50:PRO:HB2	2:X:52:ASP:OD1	2.21	0.41
2:X:78:TYR:CZ	2:X:92:PHE:HE2	2.39	0.41
2:c:263:GLY:O	2:b:179:SER:N	2.49	0.41
2:a:240:ILE:HA	2:a:243:VAL:HG12	2.02	0.41
2:a:348:ILE:HG21	3:d:125:LEU:HD23	2.02	0.41
2:b:191:ILE:HG12	2:b:212:LYS:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:143:ILE:O	2:C:225:SER:OG	2.30	0.41
2:D:22:ARG:HD3	2:D:252:ASP:HB3	2.02	0.41
2:D:191:ILE:HG12	2:D:212:LYS:HE2	2.01	0.41
2:D:272:LYS:HD3	2:D:329:THR:HG21	2.01	0.41
4:A:49:GLY:HA2	4:A:52:MET:SD	2.60	0.41
1:O:67:LYS:O	1:O:71:GLU:HG3	2.20	0.41
1:O:220:LYS:NZ	1:O:221:VAL:O	2.53	0.41
2:f:306:LYS:NZ	2:f:316:LEU:HD21	2.35	0.41
2:S:27:ILE:O	2:S:99:ASN:HB3	2.20	0.41
2:S:99:ASN:C	2:S:99:ASN:HD22	2.28	0.41
1:m:98:ASN:N	1:m:114:ASP:OD1	2.53	0.41
1:Q:39:LEU:HD22	1:n:17:ASN:ND2	2.35	0.41
1:n:98:ASN:N	1:n:114:ASP:OD1	2.54	0.41
1:n:159:THR:OG1	1:n:160:ARG:NH1	2.53	0.41
1:n:291:TYR:CE2	1:n:295:ILE:HD12	2.55	0.41
2:W:282:TYR:CE2	2:W:286:LEU:HD11	2.55	0.41
2:W:301:ASP:HB3	2:W:304:ALA:HB3	2.03	0.41
1:F:67:LYS:O	1:F:71:GLU:HG3	2.20	0.41
1:F:220:LYS:NZ	1:F:221:VAL:O	2.54	0.41
1:F:237:GLU:O	1:F:240:GLN:HG3	2.20	0.41
2:I:319:MET:HG3	2:I:324:ILE:HG13	2.02	0.41
1:K:27:GLY:HA2	3:J:71:TYR:HE2	1.84	0.41
1:K:98:ASN:N	1:K:114:ASP:OD1	2.54	0.41
2:H:282:TYR:CE2	2:H:286:LEU:HD11	2.56	0.41
1:R:220:LYS:NZ	1:R:221:VAL:O	2.53	0.41
2:h:282:TYR:CZ	2:h:286:LEU:HD21	2.55	0.41
2:U:143:ILE:O	2:U:225:SER:OG	2.30	0.41
1:o:261:ILE:HD13	1:o:261:ILE:HA	1.93	0.41
3:l:89:LYS:HB3	3:l:120:PHE:CE1	2.54	0.41
1:Z:177:ARG:HG2	1:Z:199:LEU:HD21	2.03	0.41
2:a:8:ILE:HG13	2:a:8:ILE:O	2.20	0.41
1:e:98:ASN:N	1:e:114:ASP:OD1	2.54	0.41
2:b:22:ARG:HD3	2:b:252:ASP:HB3	2.03	0.41
1:v:117:ILE:HD11	1:v:153:VAL:HG22	2.02	0.41
1:m:185:GLN:OE1	1:m:185:GLN:N	2.53	0.41
2:V:323:GLU:HA	2:V:326:GLU:HG2	2.02	0.41
1:n:29:PHE:O	1:n:32:ASN:HB2	2.20	0.41
2:W:348:ILE:N	2:H:8:ILE:HG21	2.25	0.41
1:F:264:SER:OG	1:F:323:ASN:HA	2.21	0.41
2:I:132:VAL:HA	2:I:144:ILE:HB	2.03	0.41
2:H:78:TYR:OH	2:H:80:ILE:HD12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:115:PHE:CZ	4:E:144:LEU:HB2	2.55	0.41
1:R:193:HIS:CE1	1:O:185:GLN:HE21	2.39	0.41
1:O:292:PHE:CD2	1:O:337:PRO:HB2	2.56	0.41
2:X:20:LYS:HA	2:X:20:LYS:HD2	1.88	0.41
2:X:40:LEU:HG	2:X:42:GLU:OE1	2.20	0.41
1:Z:220:LYS:NZ	1:Z:221:VAL:O	2.53	0.41
1:e:224:PHE:HB3	1:e:228:ASN:HA	2.03	0.41
2:b:240:ILE:HA	2:b:243:VAL:HG12	2.02	0.41
2:b:301:ASP:HB3	2:b:304:ALA:HB3	2.03	0.41
2:b:323:GLU:HA	2:b:326:GLU:HG2	2.03	0.41
1:B:251:PRO:HB3	4:A:139:HIS:CG	2.55	0.41
2:P:287:GLU:HB2	2:P:294:SER:OG	2.21	0.41
2:C:114:ILE:O	2:C:118:ILE:HG12	2.21	0.41
1:v:265:ILE:HG13	1:v:322:ILE:HG12	2.02	0.41
3:j:107:ASN:HB3	3:j:110:ILE:HG13	2.02	0.41
2:D:221:ARG:HD2	2:D:221:ARG:HA	1.90	0.41
2:f:132:VAL:HA	2:f:144:ILE:HB	2.03	0.41
1:m:138:LEU:HD23	1:m:138:LEU:HA	1.94	0.41
1:m:292:PHE:CD2	1:m:337:PRO:HB2	2.56	0.41
1:Q:237:GLU:O	1:Q:240:GLN:HG3	2.20	0.41
2:T:148:THR:OG1	2:T:209:ILE:HA	2.21	0.41
1:n:10:ILE:HD11	1:n:38:ASN:O	2.21	0.41
1:n:217:GLY:HA3	4:M:106:SER:HB3	2.03	0.41
2:W:349:ASP:OD2	2:H:8:ILE:HD11	2.21	0.41
4:M:77:MET:SD	4:M:78:ARG:HG2	2.60	0.41
1:F:291:TYR:O	1:F:295:ILE:N	2.54	0.41
2:I:270:ASP:O	2:I:274:LEU:HG	2.20	0.41
2:G:154:GLY:C	2:G:155:GLU:HG3	2.46	0.41
2:G:282:TYR:CE2	2:G:286:LEU:HD11	2.55	0.41
1:K:217:GLY:HA3	4:E:106:SER:HB3	2.02	0.41
1:R:85:GLU:HA	1:R:126:PRO:HA	2.02	0.41
1:R:321:LEU:HD23	1:R:326:THR:HG23	2.01	0.41
2:h:211:ILE:O	2:h:218:ARG:N	2.34	0.41
2:U:93:LEU:HD11	2:U:101:LEU:HD13	2.03	0.41
2:c:59:GLU:OE2	2:c:158:TYR:OH	2.20	0.41
2:a:190:ASP:OD1	2:a:190:ASP:N	2.47	0.41
4:Y:28:ASN:O	4:Y:31:LYS:HG2	2.19	0.41
2:C:302:PHE:CD2	2:C:306:LYS:HE3	2.55	0.41
1:v:292:PHE:CD2	1:v:337:PRO:HB2	2.55	0.41
2:D:184:LYS:HA	2:D:218:ARG:HG2	2.03	0.41
1:O:87:GLU:N	1:O:157:THR:O	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:103:MET:HB3	2:f:106:ALA:HB2	2.01	0.41
2:S:240:ILE:HA	2:S:243:VAL:HG12	2.03	0.41
2:S:352:ILE:HG13	2:S:353:GLU:N	2.35	0.41
3:i:134:ILE:HG13	3:i:135:TYR:H	1.86	0.41
2:V:184:LYS:HA	2:V:218:ARG:HG2	2.03	0.41
2:V:203:VAL:HG13	2:V:221:ARG:HG3	2.03	0.41
1:Q:15:LEU:HD23	1:Q:15:LEU:HA	1.91	0.41
2:g:338:LYS:HA	2:W:353:GLU:N	2.29	0.41
2:T:352:ILE:HG13	2:T:353:GLU:N	2.35	0.41
1:n:117:ILE:HD11	1:n:153:VAL:HG22	2.02	0.41
1:n:221:VAL:N	1:n:254:THR:O	2.52	0.41
2:W:28:ILE:HD11	2:W:169:GLY:HA2	2.02	0.41
2:G:240:ILE:HA	2:G:243:VAL:HG12	2.03	0.41
1:K:130:LEU:HD23	1:K:130:LEU:HA	1.91	0.41
1:K:250:GLY:HA3	4:E:104:VAL:HG11	2.02	0.41
3:J:26:ARG:HH21	3:J:48:GLU:CD	2.29	0.41
2:H:279:ILE:O	2:H:283:LEU:HG	2.20	0.41
1:R:111:VAL:HA	1:R:127:VAL:HG22	2.01	0.41
1:o:117:ILE:HD11	1:o:153:VAL:HG22	2.02	0.41
1:o:204:VAL:HA	1:o:225:GLY:HA2	2.03	0.41
4:N:77:MET:HE1	4:N:78:ARG:HE	1.85	0.41
2:b:270:ASP:O	2:b:274:LEU:HG	2.21	0.41
1:B:220:LYS:NZ	1:B:221:VAL:O	2.54	0.41
2:P:103:MET:HB3	2:P:106:ALA:HB2	2.02	0.41
2:P:347:ASP:HB2	2:C:332:LYS:HA	2.03	0.41
2:C:93:LEU:HB3	2:C:98:PHE:CE1	2.56	0.41
2:C:122:ARG:HD3	2:C:140:HIS:CE1	2.49	0.41
1:v:118:GLY:N	1:v:123:ASP:OD1	2.51	0.41
1:v:217:GLY:HA3	4:A:106:SER:HB3	2.03	0.41
3:j:49:LYS:HE3	3:j:49:LYS:HB2	1.91	0.41
2:D:52:ASP:OD1	2:D:53:LEU:N	2.53	0.41
2:D:282:TYR:CE2	2:D:286:LEU:HD11	2.56	0.41
2:D:301:ASP:HB3	2:D:304:ALA:HB3	2.03	0.41
4:A:120:CYS:SG	4:A:124:THR:HG23	2.61	0.41
1:O:106:ASP:OD1	1:O:106:ASP:N	2.53	0.41
1:O:177:ARG:HG2	1:O:199:LEU:HD21	2.02	0.41
1:O:188:SER:OG	1:m:186:ALA:O	2.29	0.41
1:O:193:HIS:CE1	1:m:185:GLN:HE21	2.39	0.41
1:O:237:GLU:O	1:O:240:GLN:HG3	2.20	0.41
1:O:251:PRO:HB3	4:L:139:HIS:CG	2.56	0.41
1:O:319:ASN:O	1:O:319:ASN:ND2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:321:LEU:HD23	1:O:326:THR:HG23	2.03	0.41
2:f:93:LEU:HD11	2:f:101:LEU:HD22	2.03	0.41
2:f:233:LYS:HD3	2:f:233:LYS:HA	1.92	0.41
2:f:270:ASP:O	2:f:274:LEU:HG	2.20	0.41
2:f:338:LYS:HA	2:V:353:GLU:N	2.28	0.41
2:S:93:LEU:HB3	2:S:98:PHE:CE1	2.56	0.41
1:m:61:TYR:H	1:m:64:PHE:HB2	1.86	0.41
1:m:250:GLY:HA3	4:L:104:VAL:HG11	2.03	0.41
3:i:54:LYS:HE2	2:T:14:GLU:CG	2.50	0.41
2:V:31:VAL:HG23	2:V:78:TYR:HD2	1.84	0.41
2:V:194:MET:HE1	2:V:199:ALA:N	2.36	0.41
4:L:7:LEU:HD11	4:L:20:GLN:HG3	2.03	0.41
1:Q:64:PHE:O	1:Q:68:ARG:HG2	2.19	0.41
1:Q:291:TYR:CE2	1:Q:295:ILE:HD12	2.56	0.41
2:g:267:ASN:O	2:W:342:LEU:HD11	2.21	0.41
2:g:287:GLU:HB2	2:g:294:SER:OG	2.21	0.41
2:T:154:GLY:C	2:T:155:GLU:HG3	2.46	0.41
1:n:213:TRP:CE3	1:n:214:ASP:HB2	2.56	0.41
1:n:220:LYS:HB2	1:n:220:LYS:HE3	1.79	0.41
1:n:224:PHE:HB3	1:n:228:ASN:HA	2.03	0.41
3:k:49:LYS:HE3	3:k:49:LYS:HB2	1.91	0.41
3:k:75:TYR:CG	3:k:76:GLY:N	2.89	0.41
2:W:22:ARG:HD3	2:W:252:ASP:HB3	2.03	0.41
2:W:347:ASP:HB2	2:H:8:ILE:HD12	2.02	0.41
1:F:142:CYS:N	1:F:158:ASN:OD1	2.54	0.41
1:F:193:HIS:CE1	1:K:185:GLN:HE21	2.38	0.41
2:I:122:ARG:HD3	2:I:140:HIS:HE1	1.86	0.41
2:I:267:ASN:O	2:H:342:LEU:HD11	2.21	0.41
1:K:271:LEU:HD11	1:K:277:LEU:HD23	2.03	0.41
1:K:300:ILE:HB	1:K:303:LYS:HB2	2.01	0.41
2:H:50:PRO:HB2	2:H:52:ASP:OD1	2.21	0.41
2:H:118:ILE:HG23	2:H:129:VAL:HG23	2.02	0.41
1:R:264:SER:OG	1:R:323:ASN:HA	2.21	0.41
1:R:319:ASN:O	1:R:319:ASN:ND2	2.54	0.41
2:h:53:LEU:HD23	2:h:53:LEU:HA	1.93	0.41
2:h:132:VAL:HA	2:h:144:ILE:HB	2.03	0.41
2:h:233:LYS:HD3	2:h:233:LYS:HA	1.93	0.41
2:U:302:PHE:CD2	2:U:306:LYS:HE3	2.55	0.41
2:U:336:LYS:HE3	2:U:336:LYS:HB2	1.81	0.41
2:U:348:ILE:HG13	2:a:10:ILE:HD12	2.03	0.41
3:l:123:ASP:OD1	3:l:123:ASP:N	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:240:ILE:HA	2:X:243:VAL:HG12	2.02	0.41
4:N:13:ASN:O	4:N:17:GLU:HG3	2.21	0.41
1:Z:85:GLU:HA	1:Z:126:PRO:HA	2.03	0.41
1:Z:111:VAL:HA	1:Z:127:VAL:HG22	2.03	0.41
1:Z:193:HIS:CE1	1:e:185:GLN:HE21	2.39	0.41
2:c:154:GLY:O	2:c:155:GLU:HG3	2.20	0.41
2:a:281:SER:O	2:a:285:GLU:HG3	2.19	0.41
1:e:87:GLU:N	1:e:157:THR:O	2.35	0.41
1:e:270:LYS:O	1:e:315:HIS:N	2.53	0.41
1:e:292:PHE:CD2	1:e:337:PRO:HB2	2.56	0.41
3:d:107:ASN:HB3	3:d:110:ILE:HG13	2.02	0.41
2:b:279:ILE:O	2:b:283:LEU:HG	2.20	0.41
1:B:67:LYS:O	1:B:71:GLU:HG3	2.20	0.41
2:P:267:ASN:O	2:D:342:LEU:HD11	2.21	0.41
1:v:98:ASN:N	1:v:114:ASP:OD1	2.54	0.41
2:D:279:ILE:O	2:D:283:LEU:HG	2.20	0.41
2:f:221:ARG:HA	2:f:221:ARG:HD2	1.79	0.41
2:f:267:ASN:O	2:V:342:LEU:HD11	2.21	0.41
2:S:93:LEU:HD11	2:S:101:LEU:HD13	2.03	0.41
1:m:250:GLY:N	1:m:251:PRO:HD3	2.36	0.41
3:i:111:LEU:HD21	3:i:134:ILE:HG23	2.03	0.41
1:Q:142:CYS:N	1:Q:158:ASN:OD1	2.54	0.41
1:Q:291:TYR:O	1:Q:295:ILE:N	2.53	0.41
2:g:272:LYS:HZ2	2:g:333:VAL:HG13	1.85	0.41
2:W:323:GLU:HA	2:W:326:GLU:HG2	2.03	0.41
1:F:235:THR:HG23	1:F:238:ARG:HH21	1.85	0.41
2:I:151:VAL:HG23	2:I:158:TYR:HB2	2.03	0.41
1:K:270:LYS:O	1:K:315:HIS:N	2.54	0.41
3:J:47:ILE:HD12	3:J:52:ALA:HA	2.03	0.41
4:E:50:LEU:O	4:E:54:GLU:HG2	2.20	0.41
1:R:67:LYS:O	1:R:71:GLU:HG3	2.20	0.41
2:h:151:VAL:HG23	2:h:158:TYR:HB2	2.03	0.41
2:h:306:LYS:NZ	2:h:316:LEU:HD21	2.35	0.41
2:h:319:MET:HG3	2:h:324:ILE:HG13	2.02	0.41
2:X:270:ASP:O	2:X:274:LEU:HG	2.21	0.41
2:X:349:ASP:OD2	2:b:8:ILE:HD11	2.21	0.41
3:d:75:TYR:CG	3:d:76:GLY:N	2.89	0.41
2:C:99:ASN:C	2:C:99:ASN:HD22	2.28	0.40
2:C:240:ILE:HA	2:C:243:VAL:HG12	2.03	0.40
1:v:130:LEU:HD23	1:v:130:LEU:HA	1.92	0.40
1:v:271:LEU:HD11	1:v:277:LEU:HD23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:291:TYR:CE2	1:v:295:ILE:HD12	2.56	0.40
1:O:291:TYR:CE2	1:O:295:ILE:HD12	2.56	0.40
3:i:26:ARG:HH21	3:i:48:GLU:CD	2.28	0.40
2:V:33:LYS:HE3	2:V:105:LYS:HG3	2.03	0.40
2:V:132:VAL:HA	2:V:144:ILE:HB	2.02	0.40
1:Q:319:ASN:ND2	1:Q:319:ASN:O	2.54	0.40
1:n:292:PHE:CD2	1:n:337:PRO:HB2	2.56	0.40
4:M:13:ASN:O	4:M:17:GLU:HG3	2.21	0.40
2:I:282:TYR:CZ	2:I:286:LEU:HD21	2.56	0.40
2:I:287:GLU:HB2	2:I:294:SER:OG	2.21	0.40
2:G:93:LEU:HD11	2:G:101:LEU:HD13	2.04	0.40
1:R:291:TYR:O	1:R:295:ILE:N	2.54	0.40
1:o:224:PHE:HB3	1:o:228:ASN:HA	2.03	0.40
1:o:250:GLY:N	1:o:251:PRO:HD3	2.36	0.40
2:c:122:ARG:HD3	2:c:140:HIS:HE1	1.86	0.40
2:c:312:LYS:HD3	2:c:312:LYS:HA	1.89	0.40
1:e:30:LEU:O	1:e:34:VAL:HG23	2.20	0.40
1:e:185:GLN:OE1	1:e:185:GLN:N	2.53	0.40
3:d:47:ILE:HD12	3:d:52:ALA:HA	2.02	0.40
2:P:166:ARG:NH1	2:P:170:LEU:HB2	2.36	0.40
2:C:74:LYS:HA	2:C:74:LYS:HD3	1.74	0.40
1:v:102:ILE:N	1:v:109:PHE:O	2.42	0.40
2:D:101:LEU:HD23	2:D:118:ILE:HD11	2.02	0.40
1:O:7:TYR:O	1:O:38:ASN:ND2	2.50	0.40
1:O:142:CYS:N	1:O:158:ASN:OD1	2.55	0.40
1:m:224:PHE:HB3	1:m:228:ASN:HA	2.03	0.40
2:V:68:ASN:HB3	2:V:170:LEU:HG	2.03	0.40
2:T:240:ILE:HA	2:T:243:VAL:HG12	2.02	0.40
1:n:285:LEU:HA	1:n:288:ILE:HG22	2.03	0.40
1:F:69:VAL:HG13	1:F:74:VAL:HB	2.04	0.40
1:F:321:LEU:HD23	1:F:326:THR:HG23	2.02	0.40
2:I:203:VAL:HG13	2:I:221:ARG:HG3	2.02	0.40
2:H:20:LYS:HA	2:H:20:LYS:HD2	1.88	0.40
2:H:32:LEU:HD23	2:H:53:LEU:HD22	2.03	0.40
2:U:276:ILE:HD11	2:U:300:ILE:HG12	2.02	0.40
1:Z:300:ILE:HB	1:Z:303:LYS:HG3	2.02	0.40
2:a:148:THR:OG1	2:a:209:ILE:HA	2.21	0.40
1:e:309:ILE:HD13	1:e:317:LEU:HD22	2.03	0.40
4:Y:13:ASN:O	4:Y:17:GLU:HG3	2.21	0.40
2:P:282:TYR:CZ	2:P:286:LEU:HD21	2.56	0.40
2:C:336:LYS:HB2	2:C:336:LYS:HE3	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:69:VAL:HB	1:v:74:VAL:HB	2.02	0.40
1:v:250:GLY:N	1:v:251:PRO:HD3	2.37	0.40
2:D:78:TYR:CE2	2:D:80:ILE:HB	2.56	0.40
1:O:219:VAL:HG22	4:L:139:HIS:HB3	2.04	0.40
2:f:221:ARG:NH2	2:f:239:LYS:HD3	2.37	0.40
1:m:89:ILE:O	1:m:154:THR:OG1	2.31	0.40
1:m:213:TRP:CE3	1:m:214:ASP:HB2	2.57	0.40
2:V:50:PRO:HB2	2:V:52:ASP:OD1	2.21	0.40
2:V:53:LEU:HD11	2:V:77:VAL:HG11	2.03	0.40
2:V:182:TYR:HB3	2:V:218:ARG:HH11	1.85	0.40
2:V:224:ASN:HD21	2:V:229:LEU:HD21	1.86	0.40
1:Q:188:SER:OG	1:n:186:ALA:O	2.29	0.40
1:Q:264:SER:OG	1:Q:323:ASN:HA	2.21	0.40
1:F:291:TYR:CE2	1:F:295:ILE:HD12	2.56	0.40
2:I:103:MET:HB3	2:I:106:ALA:HB2	2.02	0.40
1:K:185:GLN:OE1	1:K:185:GLN:N	2.53	0.40
2:H:221:ARG:HB3	2:H:223:VAL:HG22	2.03	0.40
2:H:349:ASP:CG	2:X:8:ILE:HD11	2.46	0.40
1:R:142:CYS:N	1:R:158:ASN:OD1	2.55	0.40
1:R:219:VAL:HG22	4:N:139:HIS:HB3	2.03	0.40
2:h:338:LYS:HA	2:X:353:GLU:N	2.28	0.40
1:o:213:TRP:CE3	1:o:214:ASP:HB2	2.56	0.40
2:X:68:ASN:HB3	2:X:170:LEU:HG	2.02	0.40
2:c:221:ARG:HH12	2:c:346:GLU:CD	2.30	0.40
2:a:347:ASP:OD1	2:a:348:ILE:N	2.43	0.40
1:e:10:ILE:HD11	1:e:38:ASN:O	2.21	0.40
1:e:61:TYR:H	1:e:64:PHE:HB2	1.86	0.40
1:v:213:TRP:CE3	1:v:214:ASP:HB2	2.56	0.40
2:D:270:ASP:O	2:D:274:LEU:HG	2.21	0.40
4:A:7:LEU:HD11	4:A:20:GLN:HG3	2.04	0.40
1:O:85:GLU:HA	1:O:126:PRO:HA	2.03	0.40
1:O:264:SER:OG	1:O:323:ASN:HA	2.21	0.40
1:O:284:PHE:CG	1:O:308:LEU:HD13	2.57	0.40
1:Q:220:LYS:HA	1:Q:220:LYS:HD2	1.92	0.40
2:T:282:TYR:CE2	2:T:286:LEU:HD11	2.55	0.40
4:M:7:LEU:HD11	4:M:20:GLN:HG3	2.03	0.40
4:M:100:THR:HG23	4:M:114:SER:H	1.86	0.40
4:M:120:CYS:SG	4:M:124:THR:HG23	2.61	0.40
1:F:266:SER:OG	1:F:321:LEU:HB2	2.22	0.40
1:K:250:GLY:N	1:K:251:PRO:HD3	2.36	0.40
2:H:270:ASP:O	2:H:274:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:133:GLY:HA2	1:R:167:ASP:HA	2.04	0.40
2:h:221:ARG:NH2	2:h:239:LYS:HD3	2.37	0.40
2:U:233:LYS:HD3	2:U:237:PHE:CD2	2.57	0.40
2:X:194:MET:HE1	2:X:199:ALA:N	2.36	0.40
2:c:267:ASN:O	2:b:342:LEU:HD11	2.21	0.40
2:P:221:ARG:NH2	2:P:239:LYS:HD3	2.37	0.40
1:v:285:LEU:HA	1:v:288:ILE:HG22	2.03	0.40
2:f:151:VAL:HG23	2:f:158:TYR:HB2	2.03	0.40
2:V:221:ARG:HB3	2:V:223:VAL:HG22	2.02	0.40
1:Q:2:TYR:HH	1:Q:52:HIS:CG	2.40	0.40
1:Q:236:ILE:HD11	1:Q:257:THR:HB	2.03	0.40
2:g:270:ASP:O	2:g:274:LEU:HG	2.21	0.40
2:T:93:LEU:HB3	2:T:98:PHE:CE1	2.56	0.40
1:n:138:LEU:HD23	1:n:138:LEU:HA	1.94	0.40
3:k:47:ILE:HD12	3:k:52:ALA:HA	2.03	0.40
3:k:65:ARG:HG3	3:k:72:SER:O	2.22	0.40
2:W:53:LEU:HD11	2:W:77:VAL:HG11	2.03	0.40
2:W:194:MET:HE1	2:W:199:ALA:N	2.37	0.40
1:F:284:PHE:CG	1:F:308:LEU:HD13	2.57	0.40
2:I:306:LYS:NZ	2:I:316:LEU:HD21	2.37	0.40
4:E:13:ASN:O	4:E:17:GLU:HG3	2.21	0.40
1:o:266:SER:O	1:o:321:LEU:N	2.44	0.40
1:o:271:LEU:HD11	1:o:277:LEU:HD23	2.03	0.40
3:l:50:LYS:HA	3:l:50:LYS:HE2	2.04	0.40
2:X:166:ARG:HH12	2:X:170:LEU:N	2.19	0.40
2:X:184:LYS:HA	2:X:218:ARG:HG2	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	344/350 (98%)	336 (98%)	8 (2%)	0	100	100
1	F	344/350 (98%)	335 (97%)	9 (3%)	0	100	100
1	K	344/350 (98%)	337 (98%)	7 (2%)	0	100	100
1	O	344/350 (98%)	336 (98%)	8 (2%)	0	100	100
1	Q	344/350 (98%)	336 (98%)	8 (2%)	0	100	100
1	R	344/350 (98%)	336 (98%)	8 (2%)	0	100	100
1	Z	344/350 (98%)	336 (98%)	8 (2%)	0	100	100
1	e	344/350 (98%)	337 (98%)	7 (2%)	0	100	100
1	m	344/350 (98%)	337 (98%)	7 (2%)	0	100	100
1	n	344/350 (98%)	337 (98%)	7 (2%)	0	100	100
1	o	344/350 (98%)	337 (98%)	7 (2%)	0	100	100
1	v	344/350 (98%)	337 (98%)	7 (2%)	0	100	100
2	C	346/354 (98%)	333 (96%)	13 (4%)	0	100	100
2	D	349/354 (99%)	332 (95%)	17 (5%)	0	100	100
2	G	346/354 (98%)	335 (97%)	11 (3%)	0	100	100
2	H	349/354 (99%)	332 (95%)	17 (5%)	0	100	100
2	I	349/354 (99%)	337 (97%)	12 (3%)	0	100	100
2	P	349/354 (99%)	336 (96%)	13 (4%)	0	100	100
2	S	346/354 (98%)	333 (96%)	13 (4%)	0	100	100
2	T	346/354 (98%)	334 (96%)	12 (4%)	0	100	100
2	U	346/354 (98%)	333 (96%)	13 (4%)	0	100	100
2	V	349/354 (99%)	333 (95%)	16 (5%)	0	100	100
2	W	349/354 (99%)	334 (96%)	15 (4%)	0	100	100
2	X	349/354 (99%)	333 (95%)	16 (5%)	0	100	100
2	a	346/354 (98%)	333 (96%)	13 (4%)	0	100	100
2	b	349/354 (99%)	334 (96%)	15 (4%)	0	100	100
2	c	349/354 (99%)	336 (96%)	13 (4%)	0	100	100
2	f	349/354 (99%)	336 (96%)	13 (4%)	0	100	100
2	g	349/354 (99%)	336 (96%)	13 (4%)	0	100	100
2	h	349/354 (99%)	335 (96%)	14 (4%)	0	100	100
3	J	118/142 (83%)	112 (95%)	6 (5%)	0	100	100
3	d	118/142 (83%)	112 (95%)	6 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	i	118/142 (83%)	111 (94%)	7 (6%)	0	100	100
3	j	118/142 (83%)	112 (95%)	6 (5%)	0	100	100
3	k	118/142 (83%)	112 (95%)	6 (5%)	0	100	100
3	l	118/142 (83%)	111 (94%)	7 (6%)	0	100	100
4	A	146/232 (63%)	142 (97%)	4 (3%)	0	100	100
4	E	146/232 (63%)	142 (97%)	4 (3%)	0	100	100
4	L	146/232 (63%)	142 (97%)	4 (3%)	0	100	100
4	M	146/232 (63%)	142 (97%)	4 (3%)	0	100	100
4	N	146/232 (63%)	142 (97%)	4 (3%)	0	100	100
4	Y	146/232 (63%)	142 (97%)	4 (3%)	0	100	100
All	All	11976/12816 (93%)	11574 (97%)	402 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	313/317 (99%)	313 (100%)	0	100	100
1	F	313/317 (99%)	313 (100%)	0	100	100
1	K	313/317 (99%)	313 (100%)	0	100	100
1	O	313/317 (99%)	313 (100%)	0	100	100
1	Q	313/317 (99%)	313 (100%)	0	100	100
1	R	313/317 (99%)	313 (100%)	0	100	100
1	Z	313/317 (99%)	313 (100%)	0	100	100
1	e	313/317 (99%)	313 (100%)	0	100	100
1	m	313/317 (99%)	313 (100%)	0	100	100
1	n	313/317 (99%)	313 (100%)	0	100	100
1	o	313/317 (99%)	313 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	v	313/317 (99%)	313 (100%)	0	100	100
2	C	305/309 (99%)	305 (100%)	0	100	100
2	D	307/309 (99%)	307 (100%)	0	100	100
2	G	305/309 (99%)	305 (100%)	0	100	100
2	H	307/309 (99%)	307 (100%)	0	100	100
2	I	307/309 (99%)	307 (100%)	0	100	100
2	P	307/309 (99%)	307 (100%)	0	100	100
2	S	305/309 (99%)	305 (100%)	0	100	100
2	T	305/309 (99%)	305 (100%)	0	100	100
2	U	305/309 (99%)	305 (100%)	0	100	100
2	V	307/309 (99%)	307 (100%)	0	100	100
2	W	307/309 (99%)	307 (100%)	0	100	100
2	X	307/309 (99%)	307 (100%)	0	100	100
2	a	305/309 (99%)	305 (100%)	0	100	100
2	b	307/309 (99%)	307 (100%)	0	100	100
2	c	307/309 (99%)	307 (100%)	0	100	100
2	f	307/309 (99%)	307 (100%)	0	100	100
2	g	307/309 (99%)	307 (100%)	0	100	100
2	h	307/309 (99%)	307 (100%)	0	100	100
3	J	110/130 (85%)	110 (100%)	0	100	100
3	d	110/130 (85%)	110 (100%)	0	100	100
3	i	110/130 (85%)	110 (100%)	0	100	100
3	j	110/130 (85%)	110 (100%)	0	100	100
3	k	110/130 (85%)	110 (100%)	0	100	100
3	l	110/130 (85%)	110 (100%)	0	100	100
4	A	139/213 (65%)	139 (100%)	0	100	100
4	E	139/213 (65%)	139 (100%)	0	100	100
4	L	139/213 (65%)	139 (100%)	0	100	100
4	M	139/213 (65%)	139 (100%)	0	100	100
4	N	139/213 (65%)	139 (100%)	0	100	100
4	Y	139/213 (65%)	139 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	10764/11424 (94%)	10764 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (120) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	17	ASN
1	B	38	ASN
1	B	124	ASN
1	B	182	GLN
1	B	206	ASN
1	B	227	ASN
1	B	228	ASN
1	B	310	ASN
2	P	322	GLN
2	C	224	ASN
2	C	305	GLN
1	v	5	GLN
1	v	37	ASN
1	v	38	ASN
1	v	70	ASN
1	v	229	GLN
1	v	241	GLN
1	v	279	ASN
1	v	315	HIS
2	D	224	ASN
4	A	13	ASN
4	A	20	GLN
4	A	28	ASN
1	O	17	ASN
1	O	32	ASN
1	O	38	ASN
1	O	124	ASN
1	O	182	GLN
1	O	193	HIS
1	O	206	ASN
1	O	227	ASN
1	O	228	ASN
1	O	319	ASN
2	f	322	GLN
2	S	224	ASN

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Mol	Chain	Res	Type
1	m	5	GLN
1	m	37	ASN
1	m	38	ASN
1	m	70	ASN
1	m	229	GLN
1	m	310	ASN
1	m	315	HIS
2	V	224	ASN
4	L	20	GLN
1	Q	17	ASN
1	Q	38	ASN
1	Q	124	ASN
1	Q	182	GLN
1	Q	206	ASN
1	Q	227	ASN
1	Q	228	ASN
1	Q	310	ASN
2	T	224	ASN
2	T	305	GLN
1	n	37	ASN
1	n	38	ASN
1	n	70	ASN
1	n	229	GLN
2	W	224	ASN
4	M	13	ASN
4	M	20	GLN
1	F	17	ASN
1	F	38	ASN
1	F	124	ASN
1	F	182	GLN
1	F	193	HIS
1	F	206	ASN
1	F	227	ASN
1	F	228	ASN
2	I	238	GLN
2	G	224	ASN
2	G	305	GLN
1	K	5	GLN
1	K	37	ASN
1	K	38	ASN
1	K	70	ASN
1	K	124	ASN

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Mol	Chain	Res	Type
1	K	229	GLN
1	K	241	GLN
1	K	279	ASN
1	K	310	ASN
2	H	224	ASN
4	E	20	GLN
1	R	17	ASN
1	R	32	ASN
1	R	38	ASN
1	R	124	ASN
1	R	182	GLN
1	R	193	HIS
1	R	206	ASN
1	R	227	ASN
1	R	228	ASN
1	R	310	ASN
2	U	224	ASN
1	o	5	GLN
1	o	37	ASN
1	o	38	ASN
1	o	70	ASN
1	o	229	GLN
1	o	315	HIS
2	X	224	ASN
4	N	20	GLN
1	Z	17	ASN
1	Z	32	ASN
1	Z	38	ASN
1	Z	124	ASN
1	Z	193	HIS
1	Z	206	ASN
1	Z	227	ASN
2	c	322	GLN
2	a	224	ASN
2	a	305	GLN
1	e	17	ASN
1	e	37	ASN
1	e	38	ASN
1	e	70	ASN
1	e	229	GLN
1	e	310	ASN
2	b	224	ASN

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Mol	Chain	Res	Type
4	Y	20	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

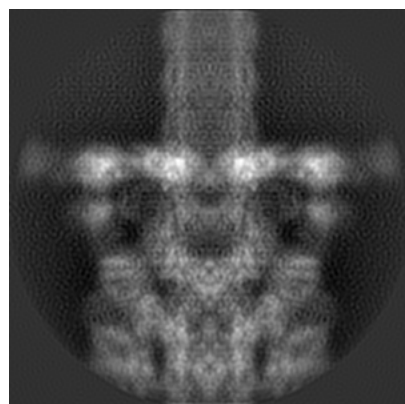
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-42963. These allow visual inspection of the internal detail of the map and identification of artifacts.

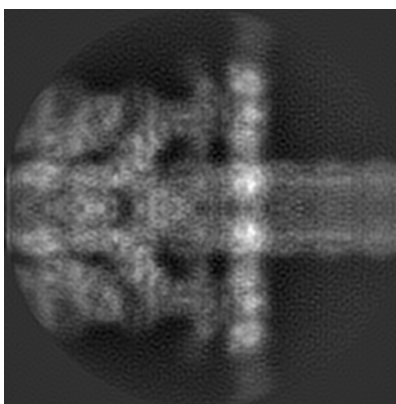
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

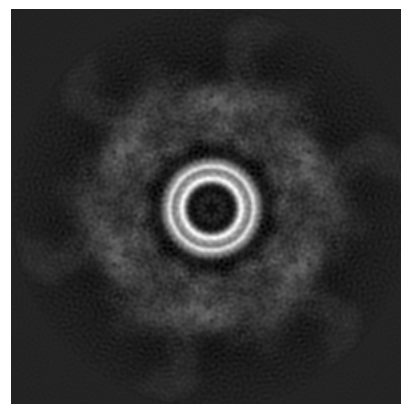
6.1.1 Primary map



X

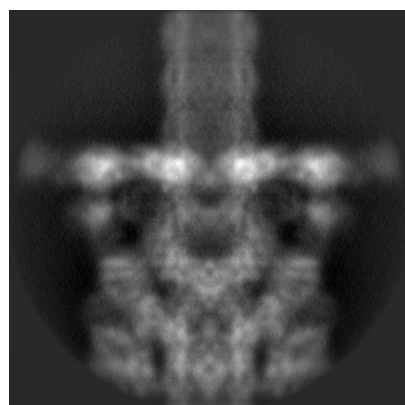


Y

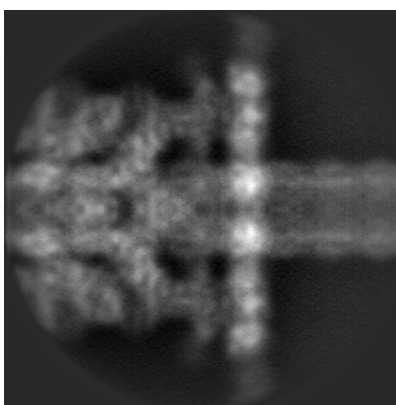


Z

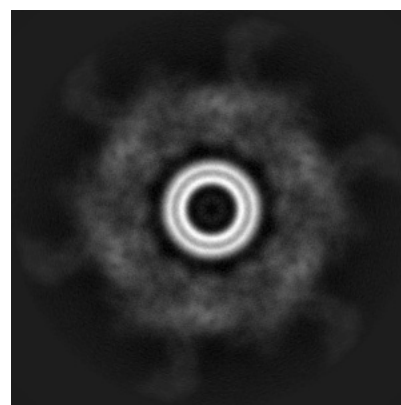
6.1.2 Raw map



X



Y

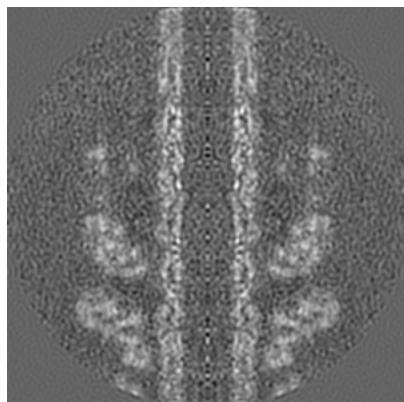


Z

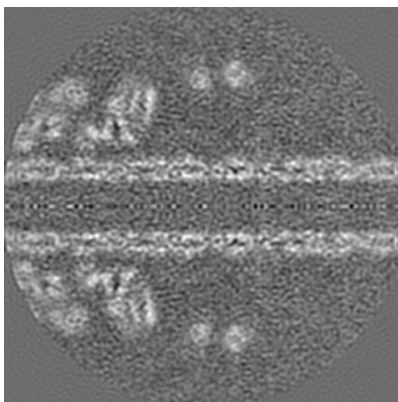
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

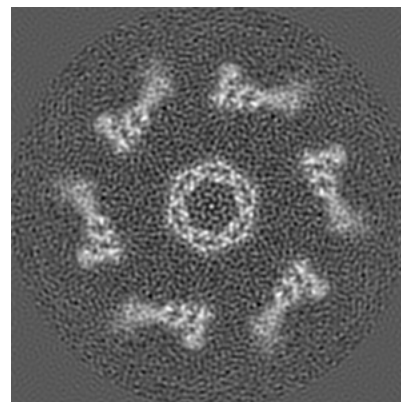
6.2.1 Primary map



X Index: 150

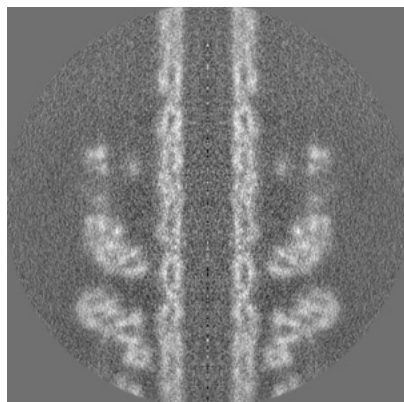


Y Index: 150

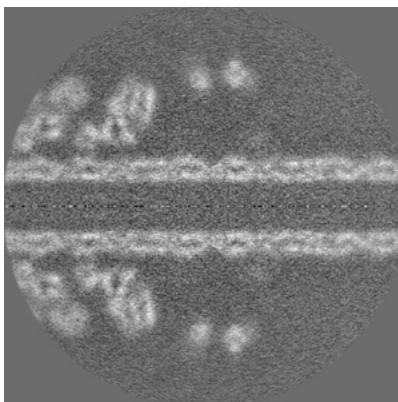


Z Index: 150

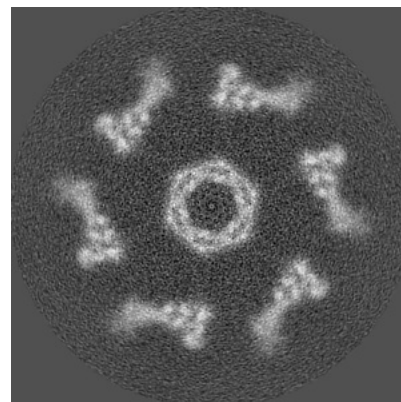
6.2.2 Raw map



X Index: 150



Y Index: 150

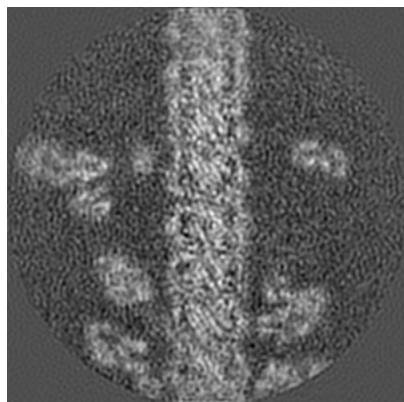


Z Index: 150

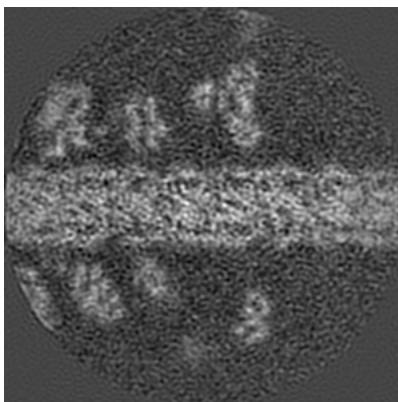
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

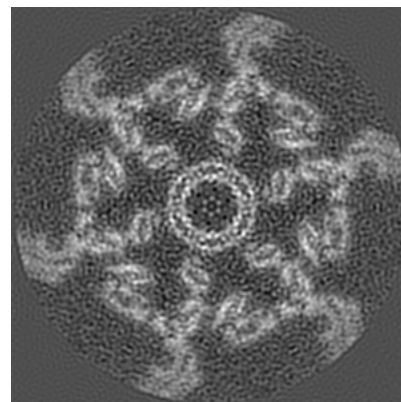
6.3.1 Primary map



X Index: 129

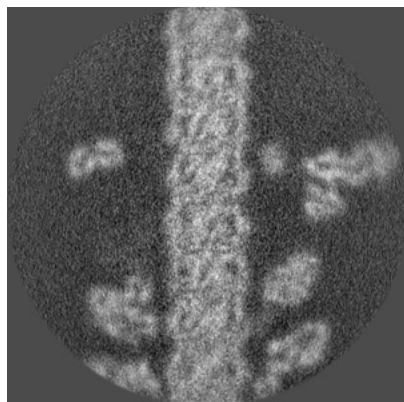


Y Index: 171

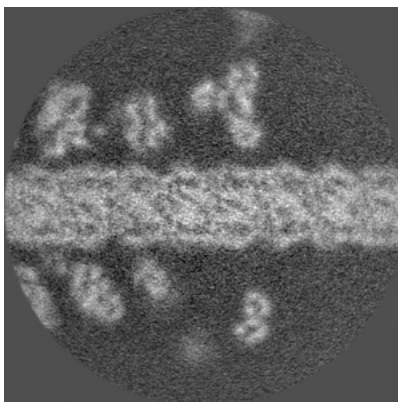


Z Index: 183

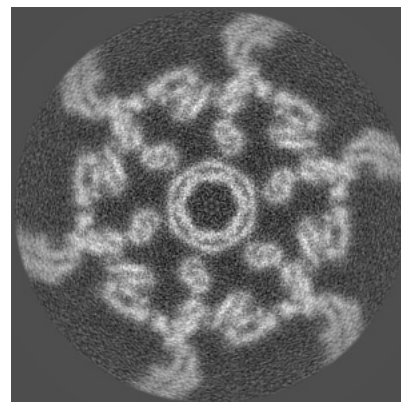
6.3.2 Raw map



X Index: 171



Y Index: 171

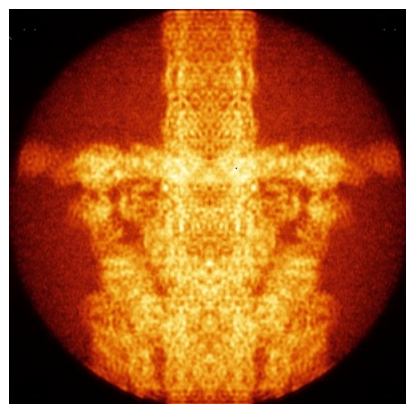


Z Index: 184

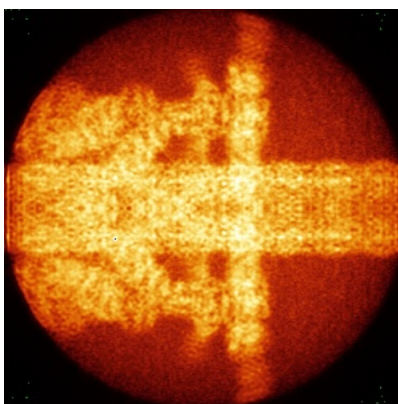
The images above show the largest variance slices of the map in three orthogonal directions.

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

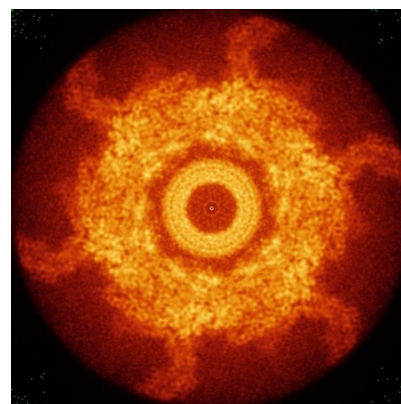
6.4.1 Primary map



X

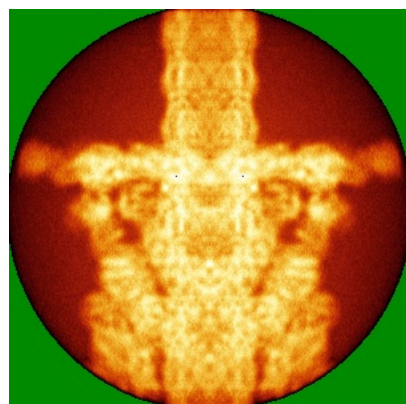


Y

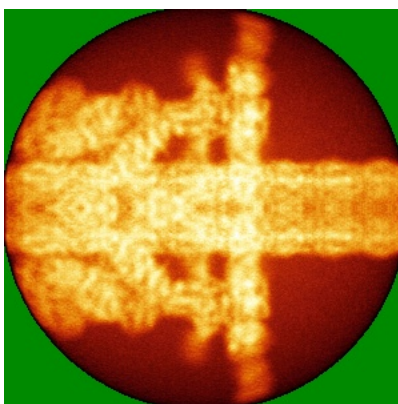


Z

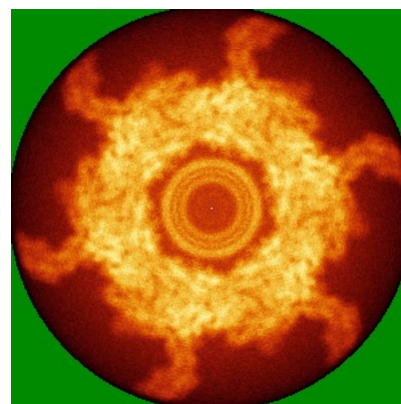
6.4.2 Raw map



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](#)

This section was not generated.

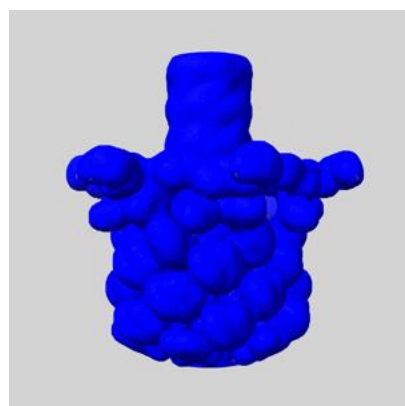
6.6 Mask visualisation [i](#)

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

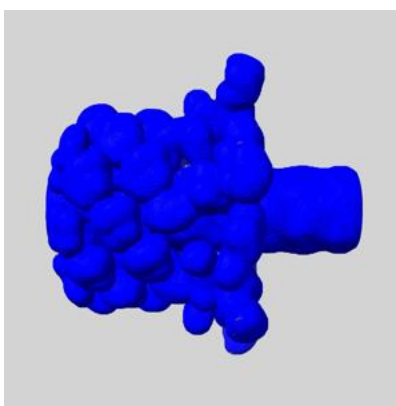
A mask typically either:

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

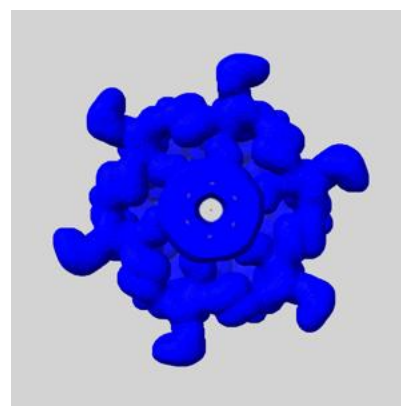
6.6.1 emd_42963_msk_1.map [i](#)



X



Y

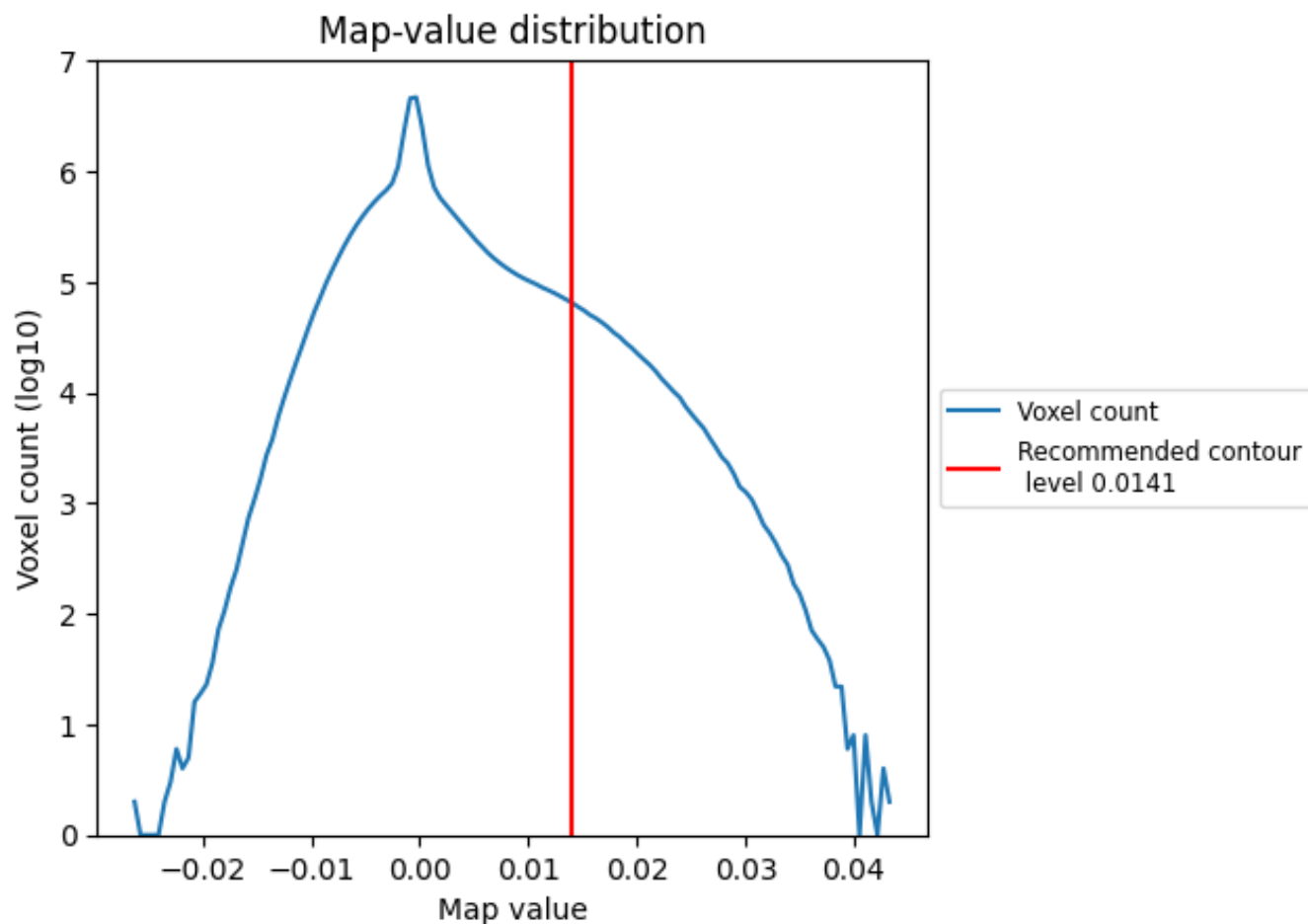


Z

7 Map analysis [i](#)

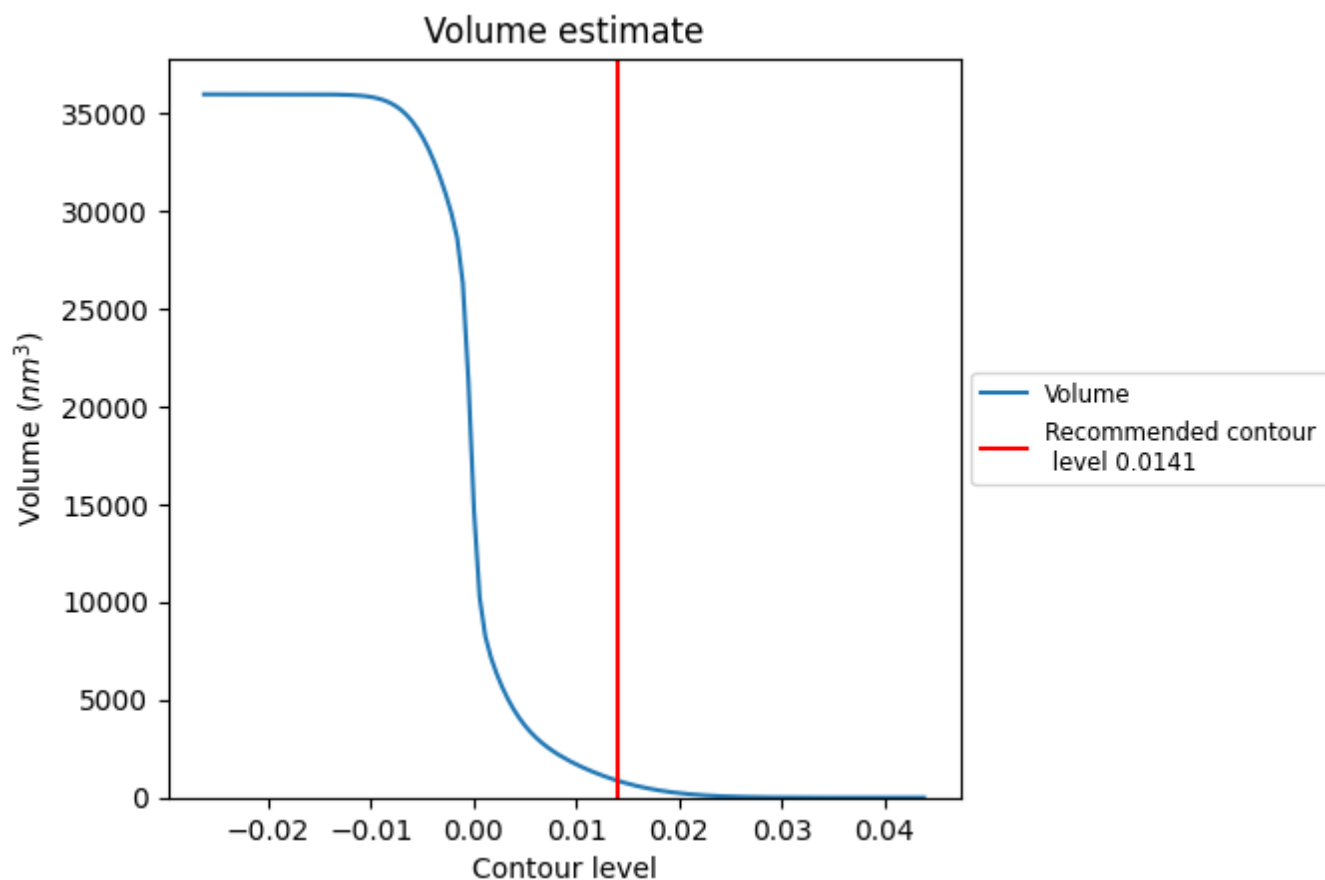
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

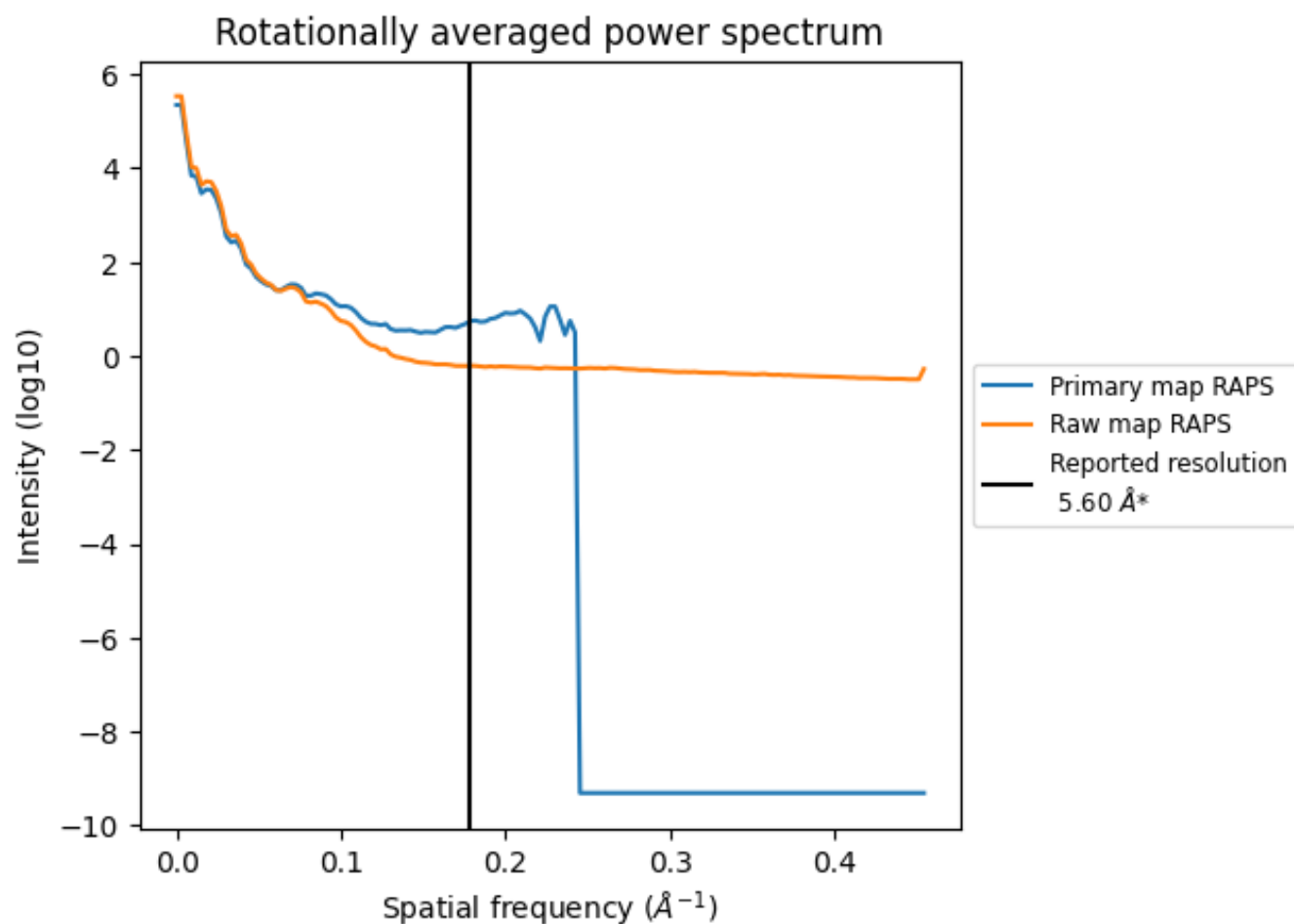
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 849 nm³; this corresponds to an approximate mass of 767 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

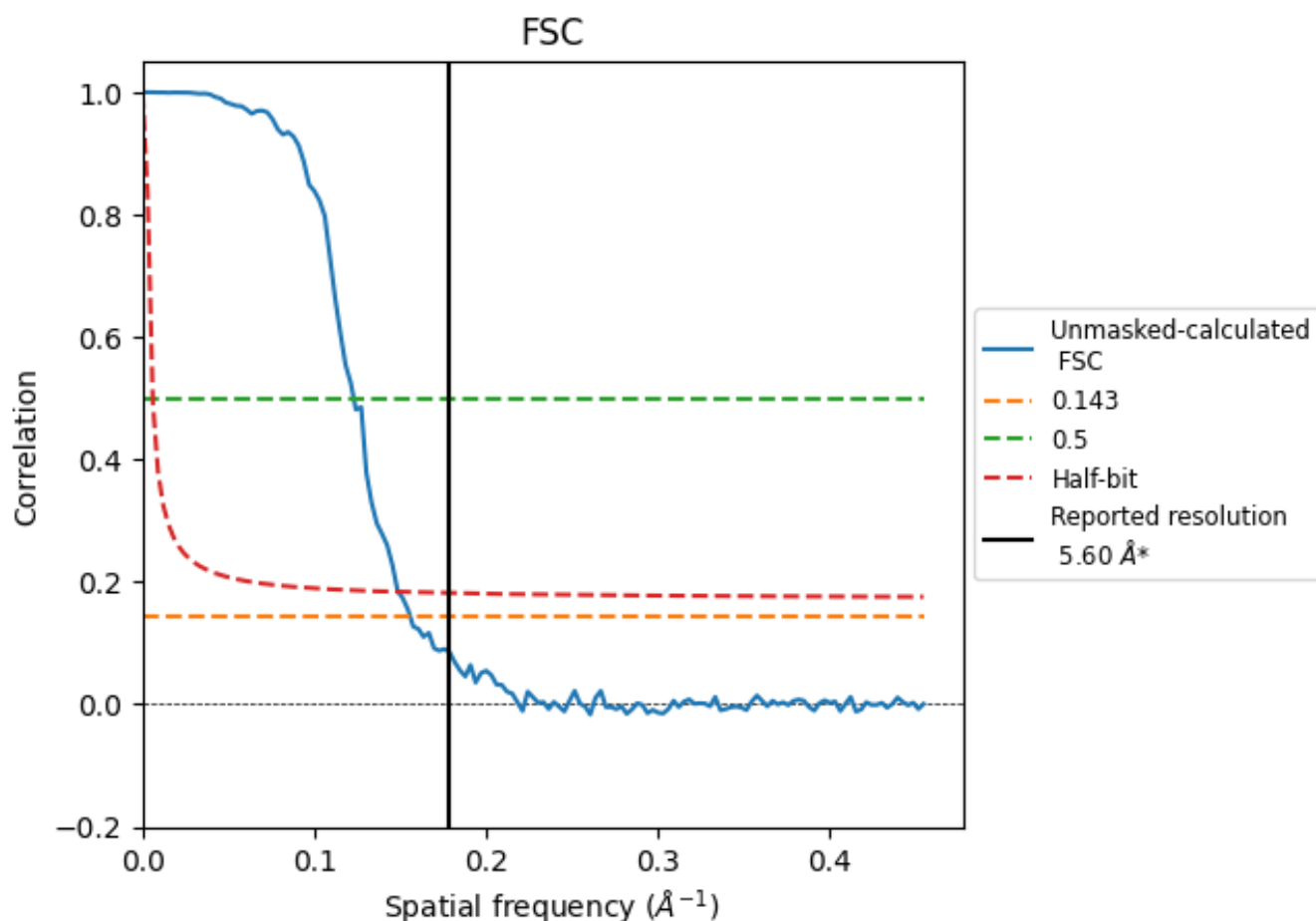


*Reported resolution corresponds to spatial frequency of 0.179 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.179 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

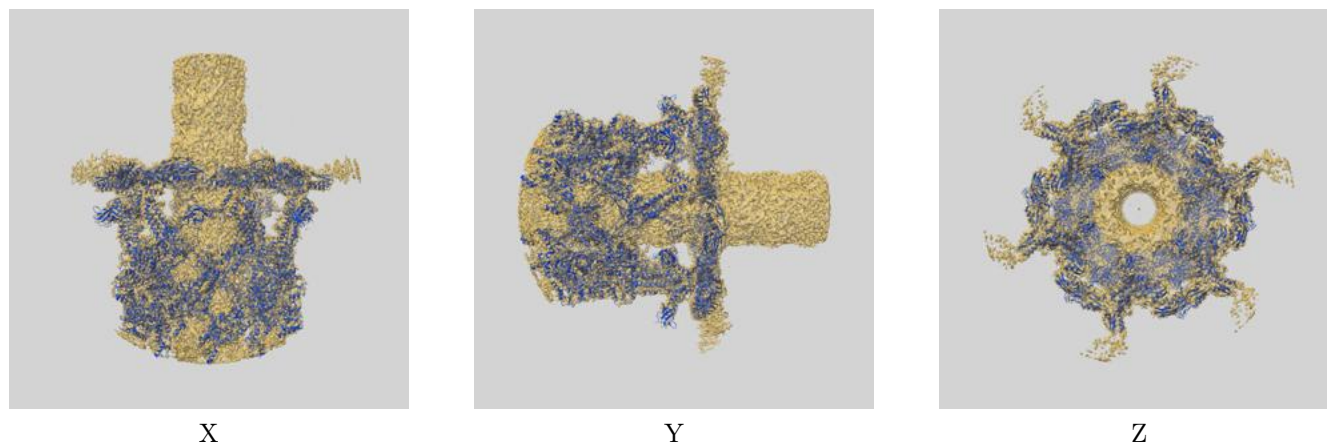
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	5.60	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	6.42	8.13	6.72

*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 6.42 differs from the reported value 5.6 by more than 10 %

9 Map-model fit [i](#)

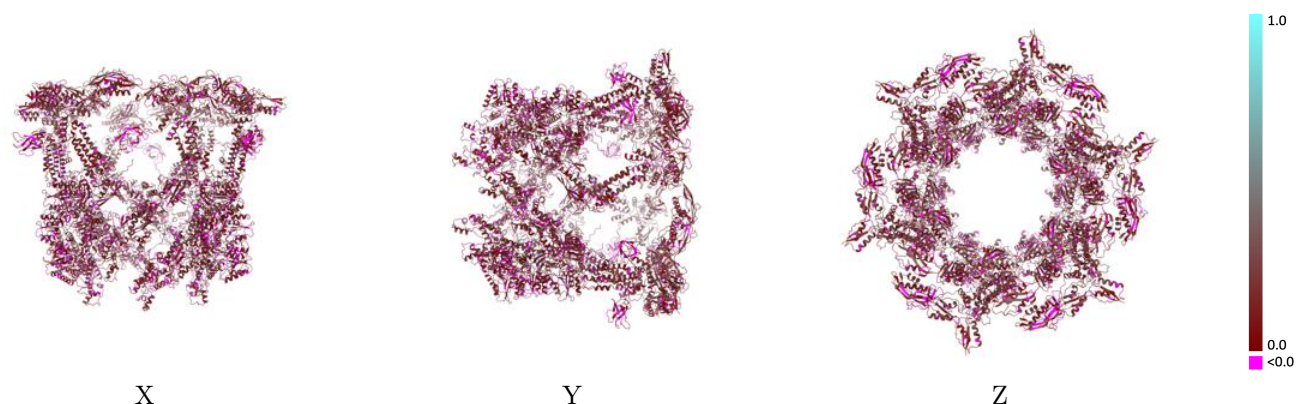
This section contains information regarding the fit between EMDB map EMD-42963 and PDB model 8V41. Per-residue inclusion information can be found in [section 3](#) on [page 8](#).

9.1 Map-model overlay [i](#)



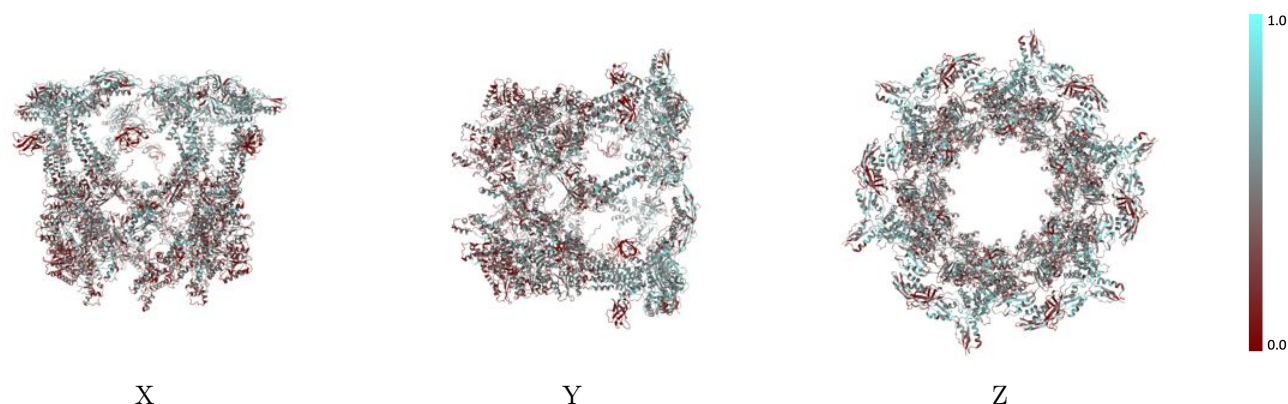
The images above show the 3D surface view of the map at the recommended contour level 0.0141 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



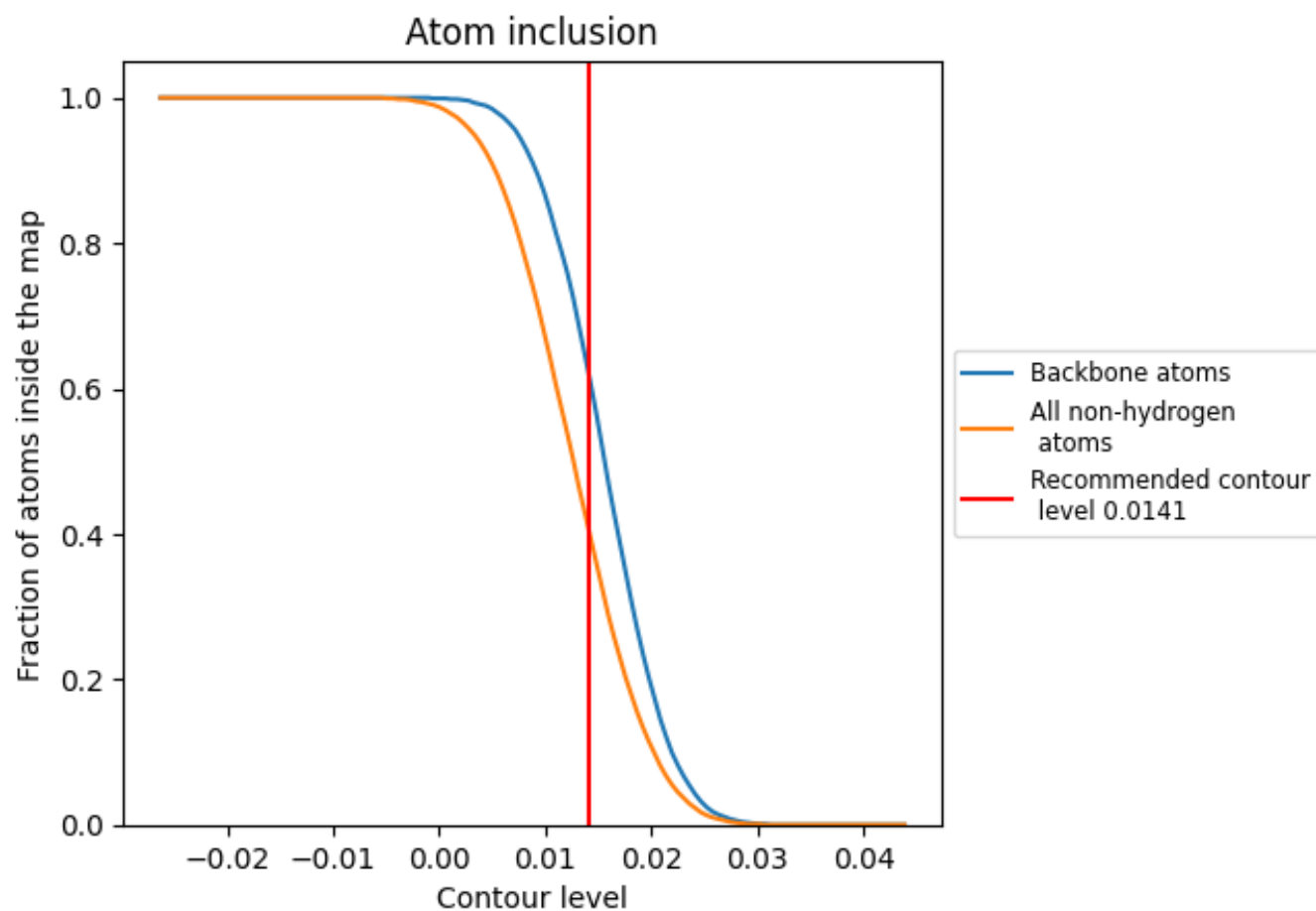
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0141).

9.4 Atom inclusion [i](#)



At the recommended contour level, 62% of all backbone atoms, 40% 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 (0.0141) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.4050	 0.1590
A	 0.4780	 0.1800
B	 0.5300	 0.1990
C	 0.3970	 0.1620
D	 0.2910	 0.1250
E	 0.4770	 0.1810
F	 0.5280	 0.2000
G	 0.3970	 0.1640
H	 0.2900	 0.1270
I	 0.3800	 0.1580
J	 0.3610	 0.1520
K	 0.4110	 0.1440
L	 0.4540	 0.1800
M	 0.4750	 0.1850
N	 0.4540	 0.1780
O	 0.5250	 0.1990
P	 0.3800	 0.1600
Q	 0.5240	 0.1970
R	 0.5270	 0.2000
S	 0.4000	 0.1610
T	 0.4000	 0.1610
U	 0.4000	 0.1610
V	 0.2950	 0.1230
W	 0.2940	 0.1250
X	 0.2940	 0.1260
Y	 0.4790	 0.1810
Z	 0.5240	 0.1980
a	 0.3990	 0.1610
b	 0.2920	 0.1260
c	 0.3780	 0.1560
d	 0.3610	 0.1510
e	 0.4140	 0.1400
f	 0.3860	 0.1580
g	 0.3770	 0.1550
h	 0.3860	 0.1580



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Chain	Atom inclusion	Q-score
i	 0.3560	 0.1510
j	 0.3570	 0.1540
k	 0.3590	 0.1480
l	 0.3560	 0.1490
m	 0.4220	 0.1420
n	 0.4150	 0.1410
o	 0.4200	 0.1420
v	 0.4090	 0.1440