Full wwPDB EM Validation Report

Mar 20, 2026 – 04:40 PM UTC

PDB ID	:	8V43 / pdb_00008v43
EMDB ID	:	EMD-42964
Title	:	CryoEM Structure of Diffocin - postcontracted - Baseplate - final state
Authors	:	Cai, X.Y.; He, Y.; Zhou, Z.H.
Deposited on	:	2023-11-28
Resolution	:	6.10 Å(reported)

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

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

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

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

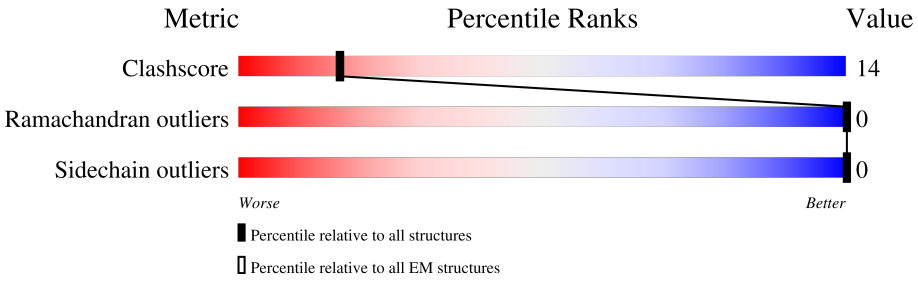
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	NOT EXECUTED
MapQ	:	FAILED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 6.10 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	B	350	62% 37% .
1	F	350	63% 36% .
1	K	350	69% 30% .
1	O	350	62% 37% .
1	Q	350	63% 36% .
1	R	350	63% 36% .
1	Z	350	63% 36% .
1	e	350	68% 31% .
1	m	350	68% 31% .

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Mol	Chain	Length	Quality of chain
1	n	350	69% 30%
1	o	350	69% 30%
1	v	350	68% 31%
2	A	232	41% 23% 36%
2	E	232	41% 22% 36%
2	L	232	41% 22% 36%
2	M	232	42% 22% 36%
2	N	232	40% 24% 36%
2	Y	232	41% 22% 36%
3	J	142	61% 23% 15%
3	d	142	61% 23% 15%
3	i	142	61% 24% 15%
3	j	142	61% 23% 15%
3	k	142	62% 23% 15%
3	l	142	62% 23% 15%
4	C	354	65% 34%
4	D	354	68% 31%
4	G	354	64% 35%
4	H	354	67% 32%
4	I	354	73% 26%
4	P	354	70% 28%
4	S	354	64% 36%
4	T	354	65% 34%
4	U	354	65% 34%
4	V	354	66% 33%

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Mol	Chain	Length	Quality of chain
4	W	354	67% 32%
4	X	354	68% 32%
4	a	354	65% 35%
4	b	354	66% 34%
4	c	354	71% 27%
4	f	354	71% 27%
4	g	354	71% 27%
4	h	354	73% 26%

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 95334 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	v	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		
1	B	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	O	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	Q	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	F	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	R	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		
1	Z	346	Total	C	N	O	S	0	0
			2751	1736	452	555	8		

- Molecule 2 is a protein called TRI-1 (CD1372).

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

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

- 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		
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 Sheath (CD1363).

Mol	Chain	Residues	Atoms					AltConf	Trace
4	P	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
4	C	352	Total	C	N	O	S	0	0
			2738	1747	443	539	9		
4	D	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
4	f	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
4	S	352	Total	C	N	O	S	0	0
			2738	1747	443	539	9		
4	V	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
4	g	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
4	T	352	Total	C	N	O	S	0	0
			2738	1747	443	539	9		

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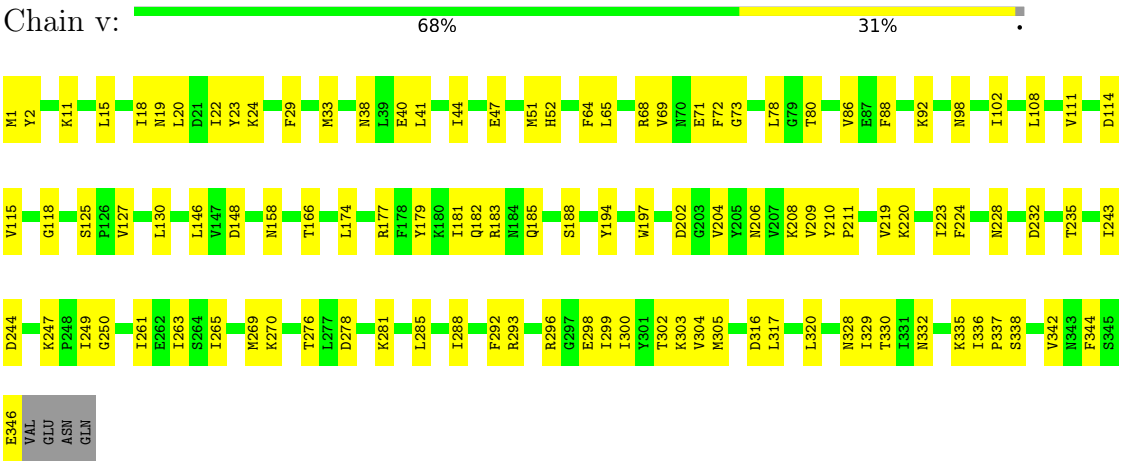
Mol	Chain	Residues	Atoms					AltConf	Trace
4	W	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
4	I	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
4	G	352	Total	C	N	O	S	0	0
			2738	1747	443	539	9		
4	H	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
4	h	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
4	U	352	Total	C	N	O	S	0	0
			2738	1747	443	539	9		
4	X	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		
4	c	348	Total	C	N	O	S	0	0
			2710	1727	439	535	9		
4	a	352	Total	C	N	O	S	0	0
			2738	1747	443	539	9		
4	b	351	Total	C	N	O	S	0	0
			2730	1741	442	538	9		

3 Residue-property plots (i)

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

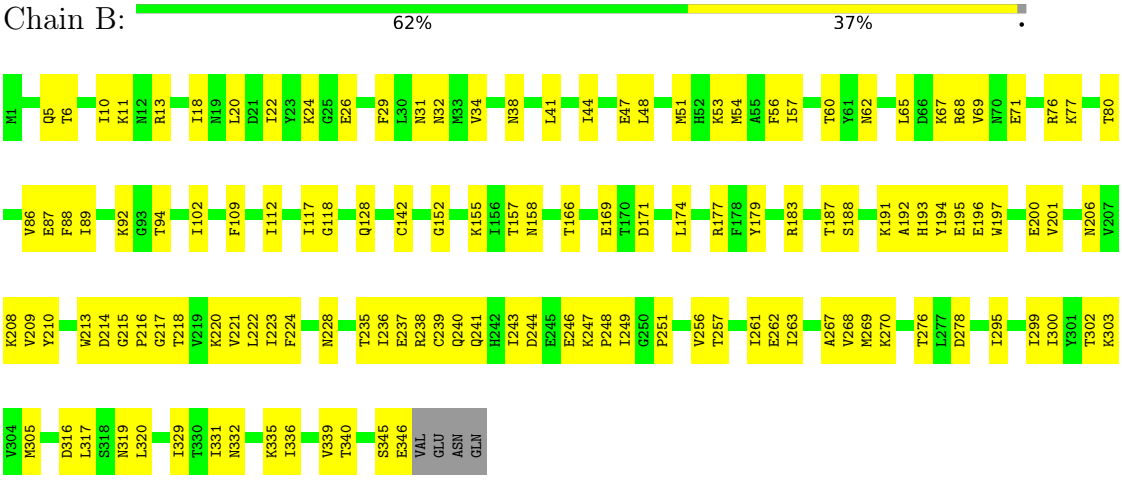
• Molecule 1: TRI-2 (CD1371)

Chain v:



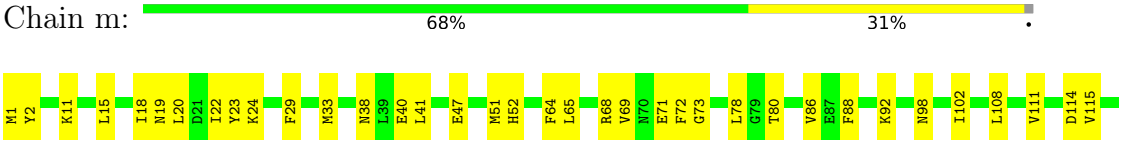
• Molecule 1: TRI-2 (CD1371)

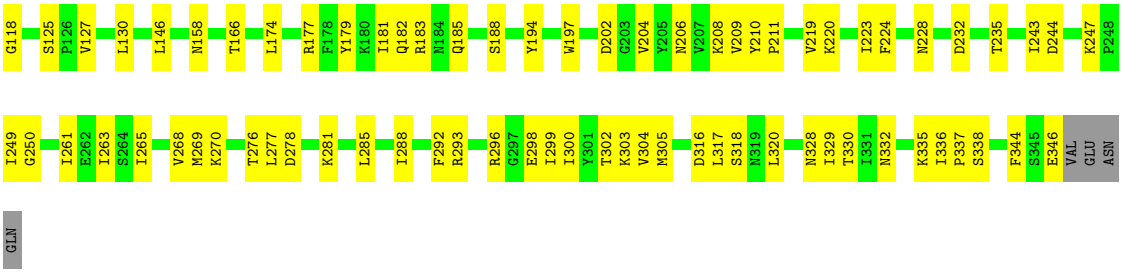
Chain B:



• Molecule 1: TRI-2 (CD1371)

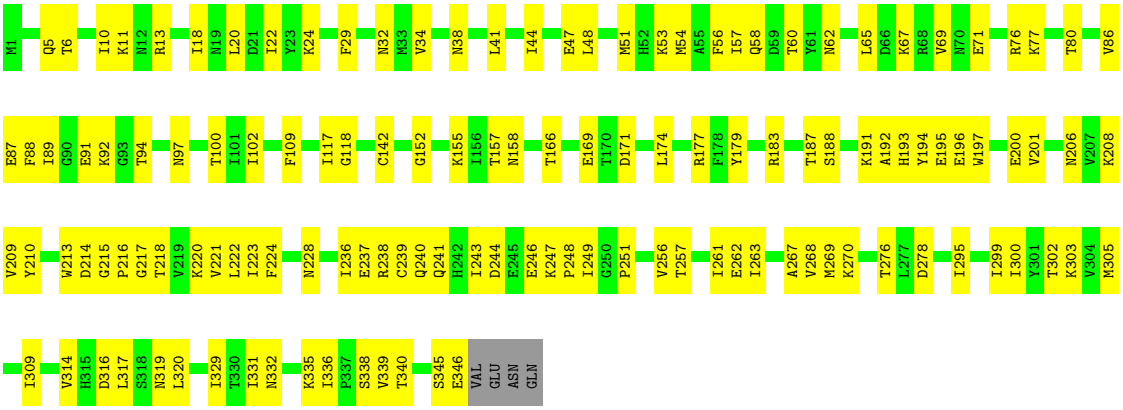
Chain m:





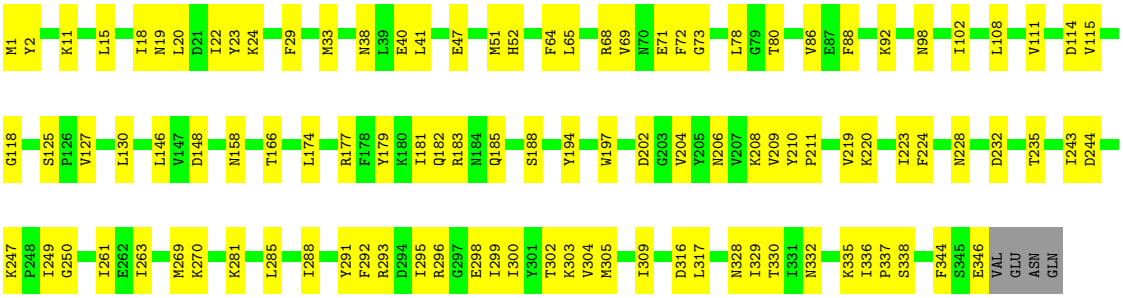
• Molecule 1: TRI-2 (CD1371)

Chain O:



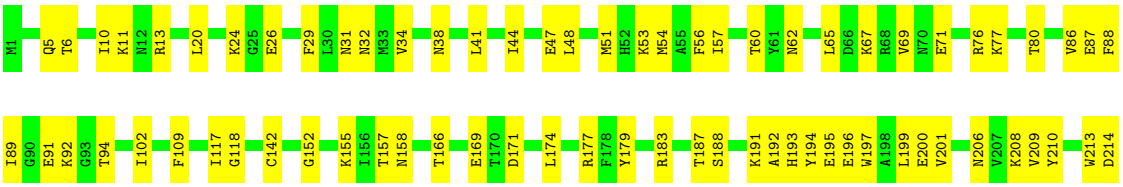
• Molecule 1: TRI-2 (CD1371)

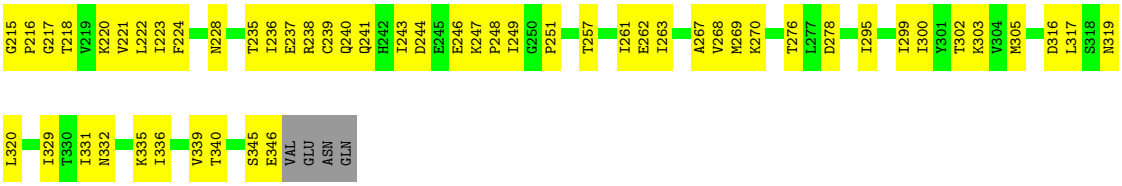
Chain n:



• Molecule 1: TRI-2 (CD1371)

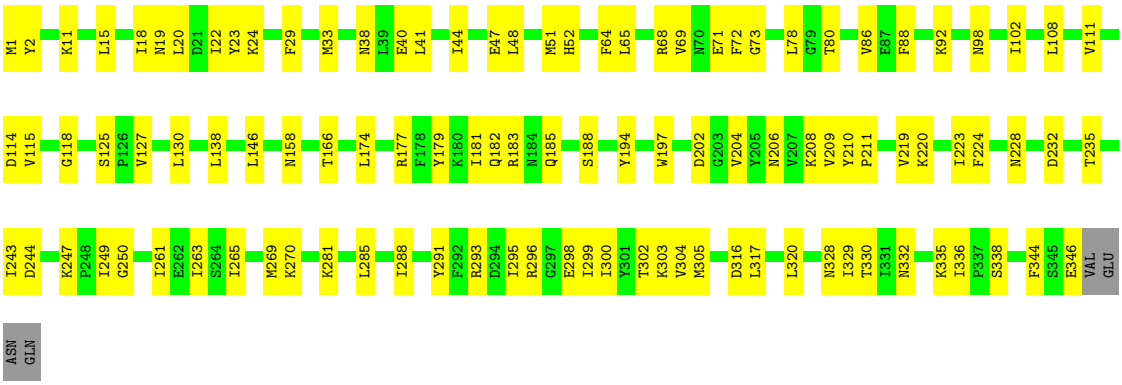
Chain Q:





• Molecule 1: TRI-2 (CD1371)

Chain K:

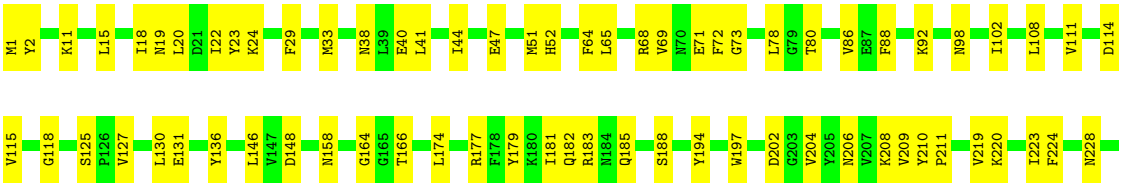


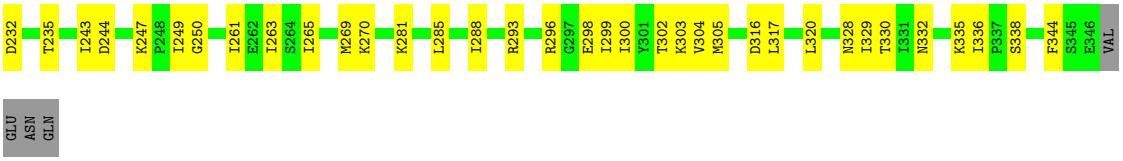
• Molecule 1: TRI-2 (CD1371)

Chain F:

• Molecule 1: TRI-2 (CD1371)

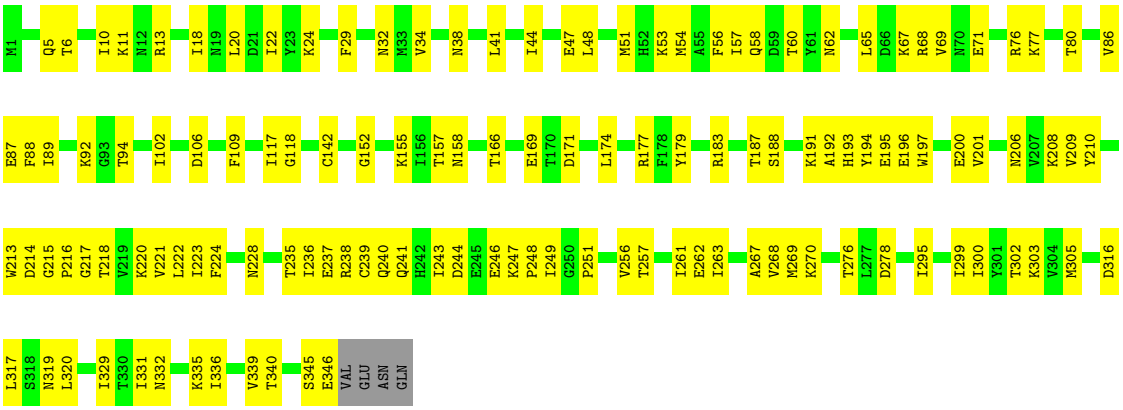
Chain o:





• Molecule 1: TRI-2 (CD1371)

Chain R:

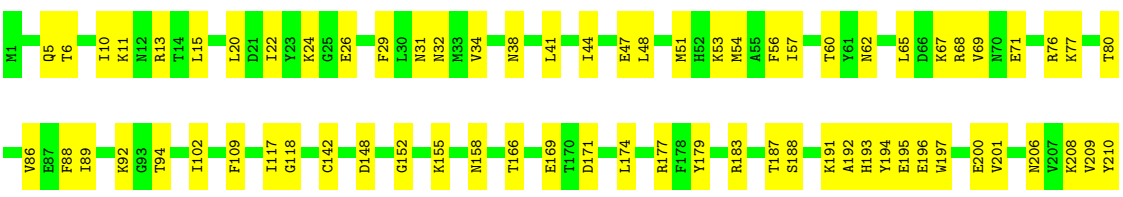


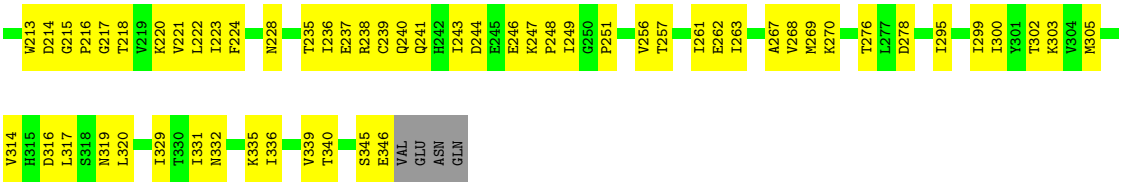
• Molecule 1: TRI-2 (CD1371)

Chain e:

• Molecule 1: TRI-2 (CD1371)

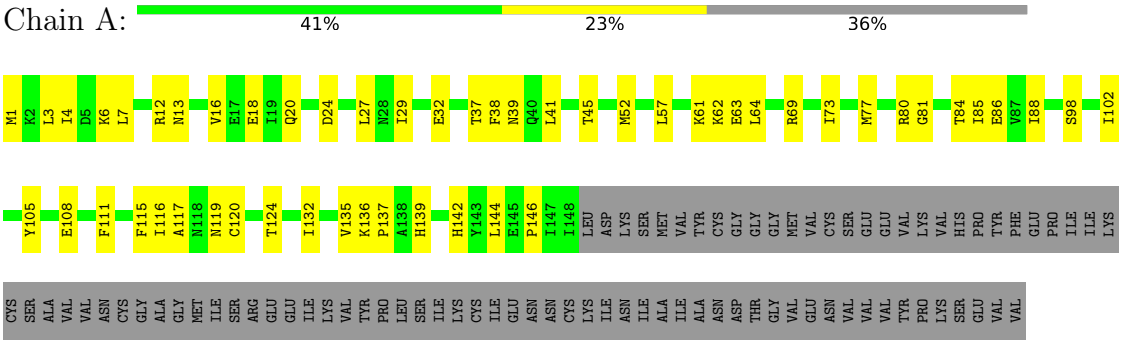
Chain Z:





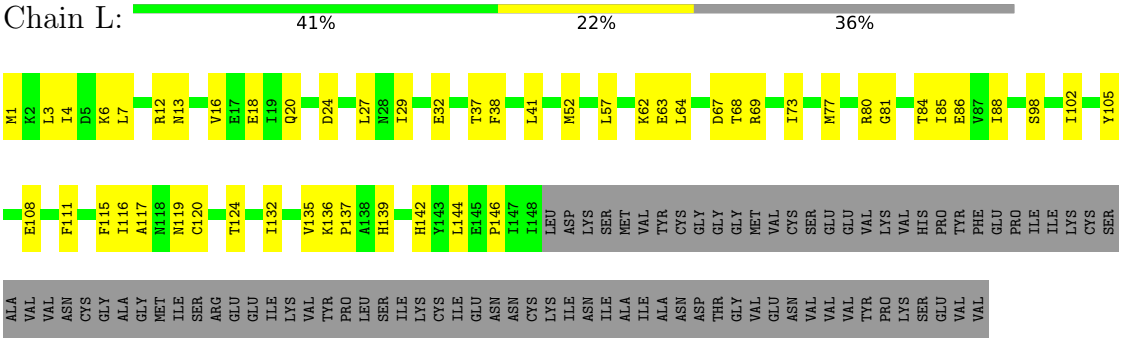
• Molecule 2: TRI-1 (CD1372)

Chain A:



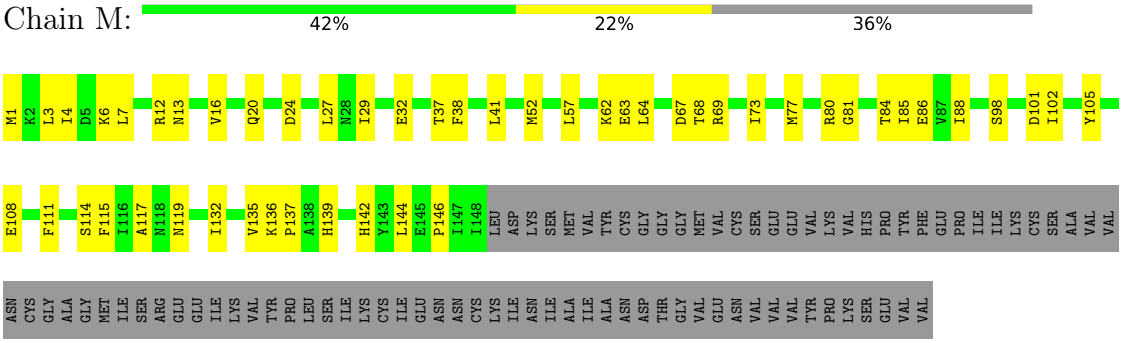
• Molecule 2: TRI-1 (CD1372)

Chain L:



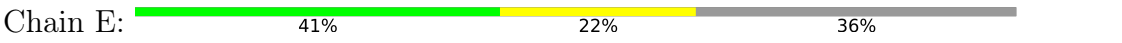
• Molecule 2: TRI-1 (CD1372)

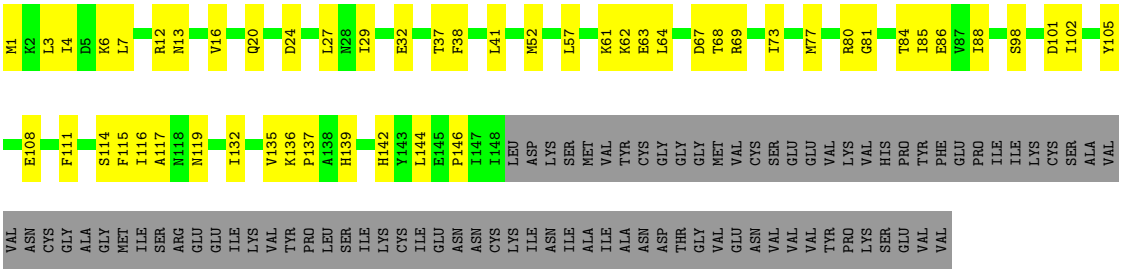
Chain M:



• Molecule 2: TRI-1 (CD1372)

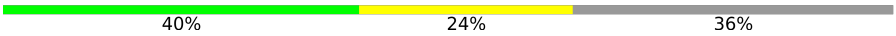
Chain E:

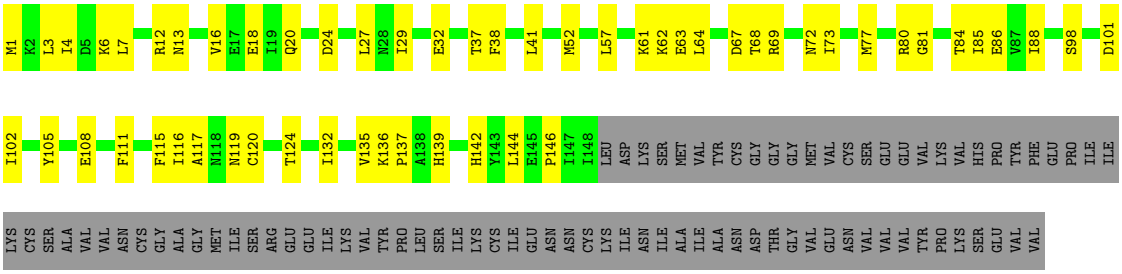




• Molecule 2: TRI-1 (CD1372)

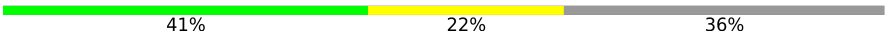
Chain N:

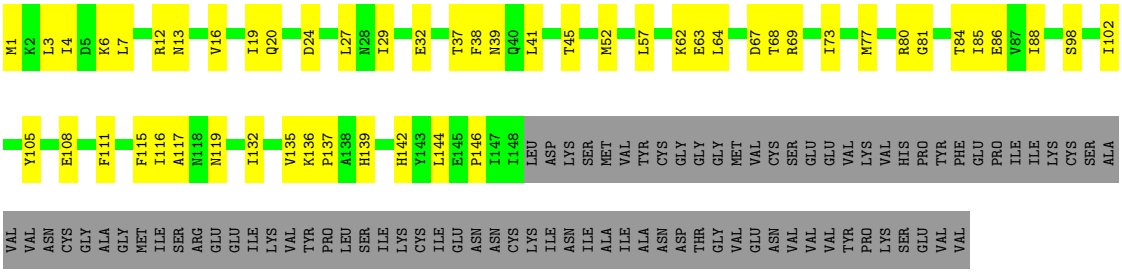




• Molecule 2: TRI-1 (CD1372)

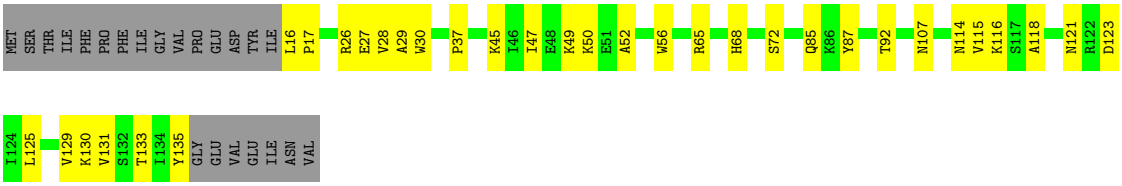
Chain Y:





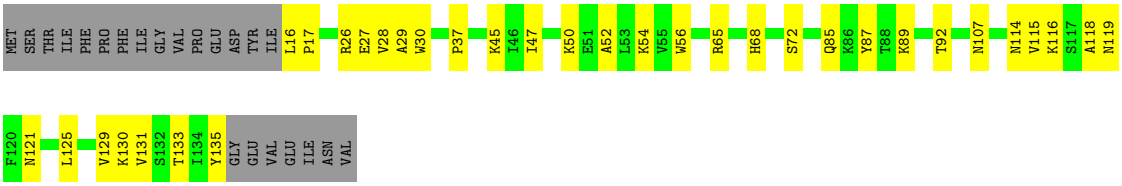
• Molecule 3: Sheath initiator (CD1370)

Chain j:



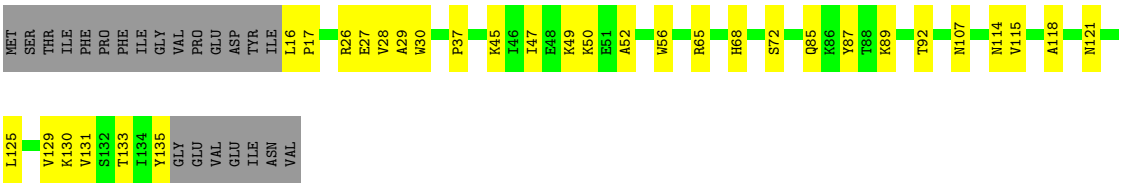
• Molecule 3: Sheath initiator (CD1370)

Chain i:



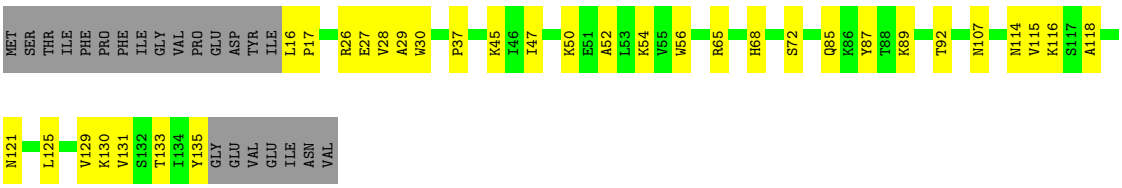
• Molecule 3: Sheath initiator (CD1370)

Chain k:



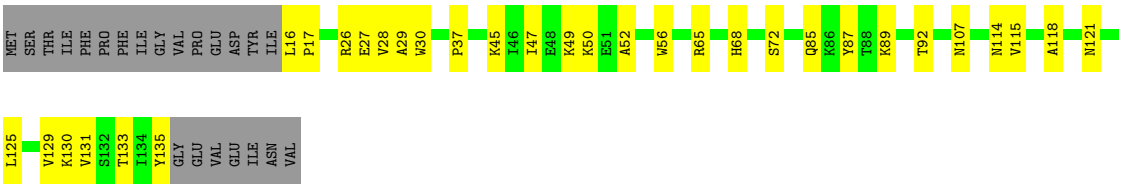
• Molecule 3: Sheath initiator (CD1370)

Chain J:



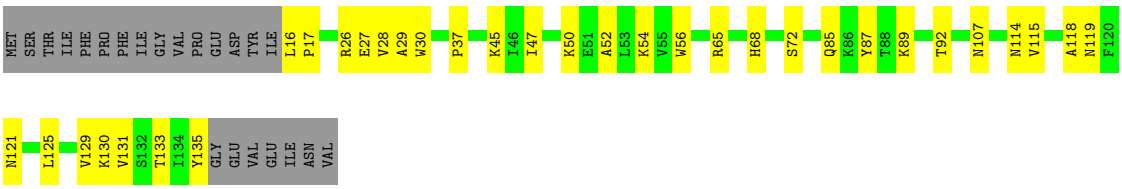
• Molecule 3: Sheath initiator (CD1370)

Chain l:



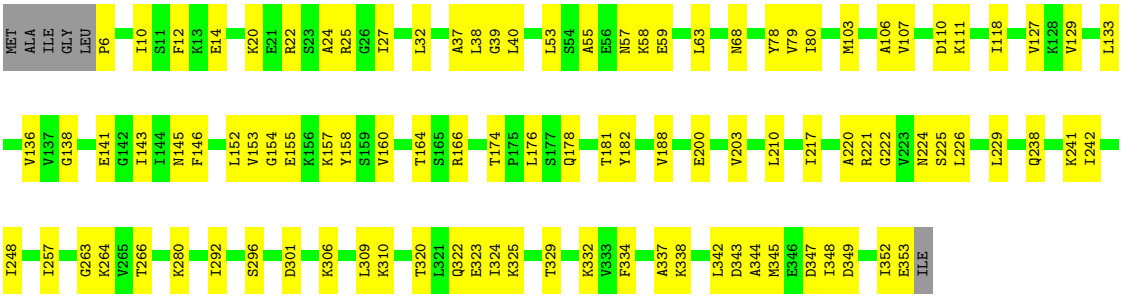
• Molecule 3: Sheath initiator (CD1370)

Chain d:



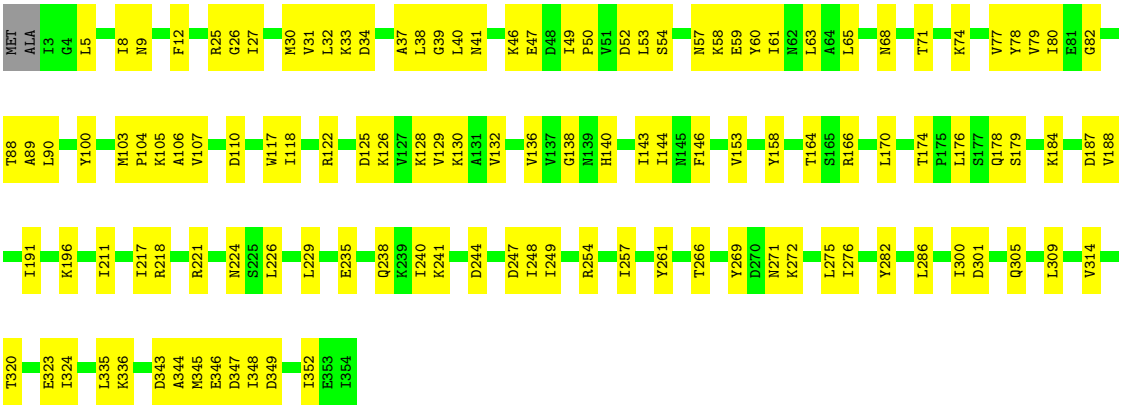
• Molecule 4: Sheath (CD1363)

Chain P:



• Molecule 4: Sheath (CD1363)

Chain C:

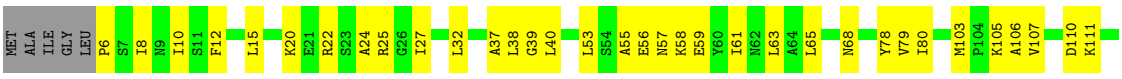


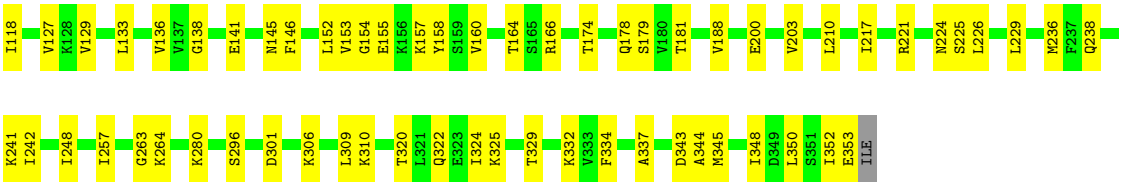
• Molecule 4: Sheath (CD1363)

Chain D:

• Molecule 4: Sheath (CD1363)

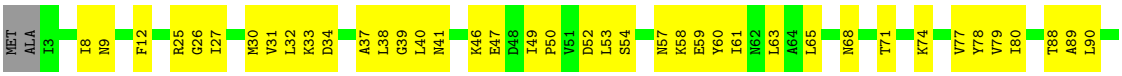
Chain f:

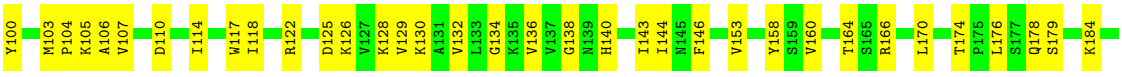


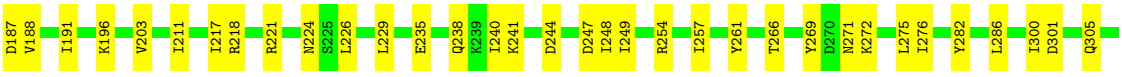


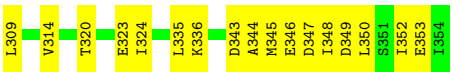
• Molecule 4: Sheath (CD1363)

Chain S:



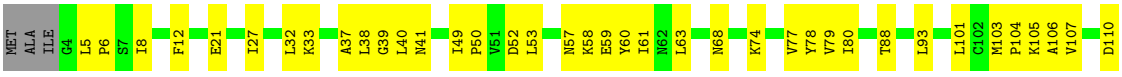


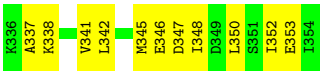




• Molecule 4: Sheath (CD1363)

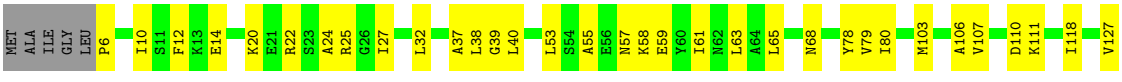
Chain V:





• Molecule 4: Sheath (CD1363)

Chain g:

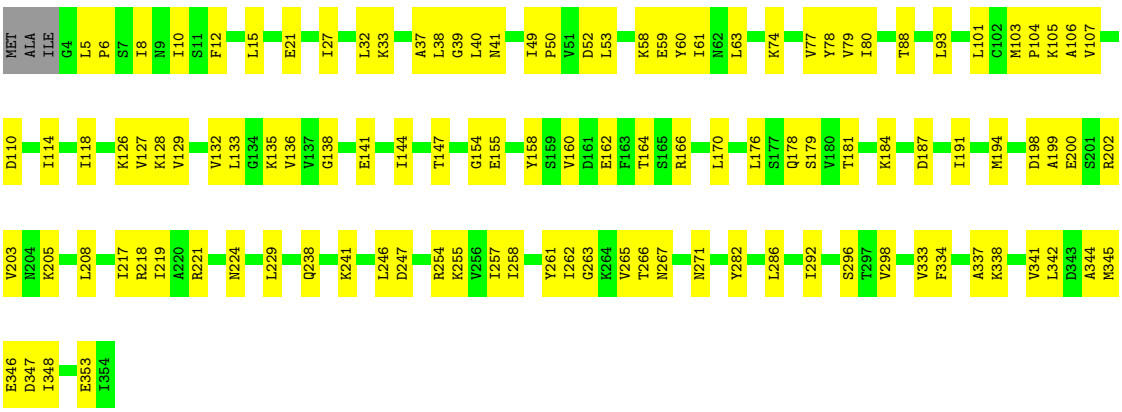


• Molecule 4: Sheath (CD1363)

Chain T:

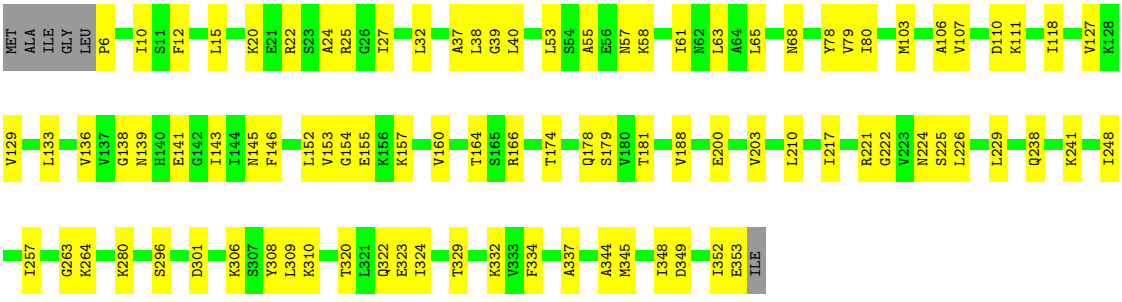
• Molecule 4: Sheath (CD1363)

Chain W:



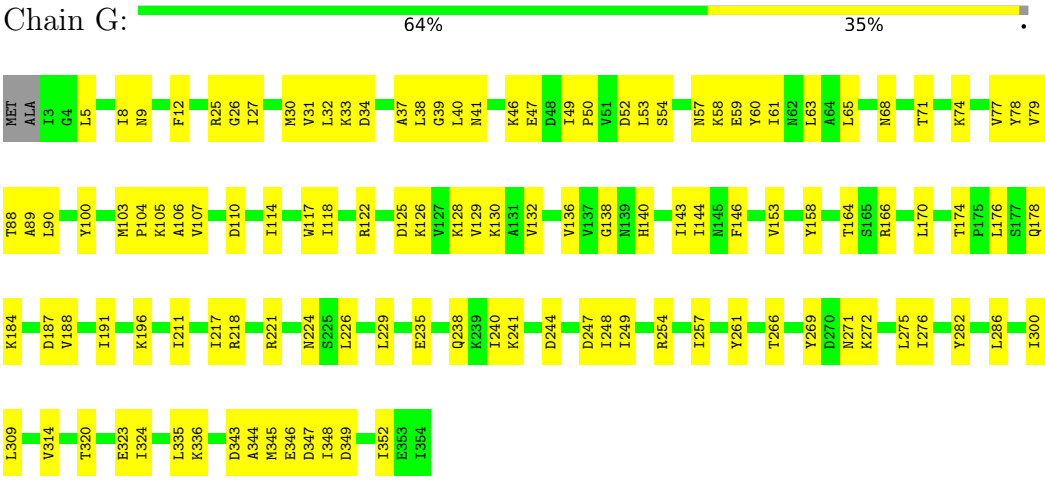
• Molecule 4: Sheath (CD1363)

Chain I:



• Molecule 4: Sheath (CD1363)

Chain G:

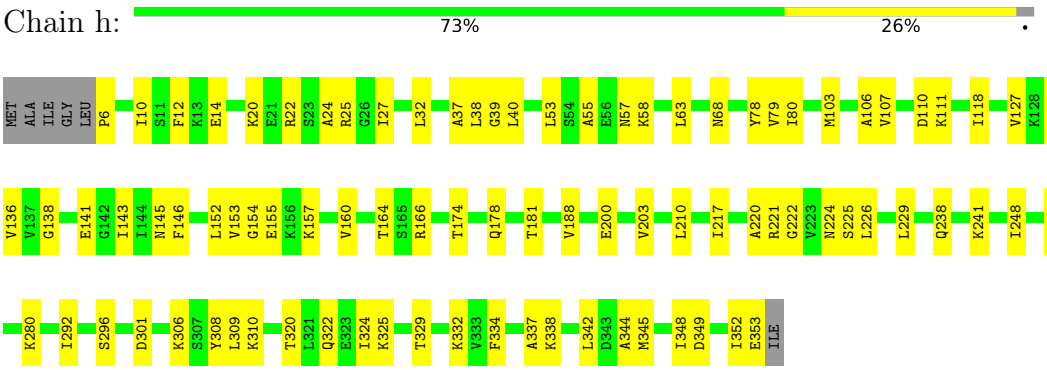


• Molecule 4: Sheath (CD1363)

Chain H:

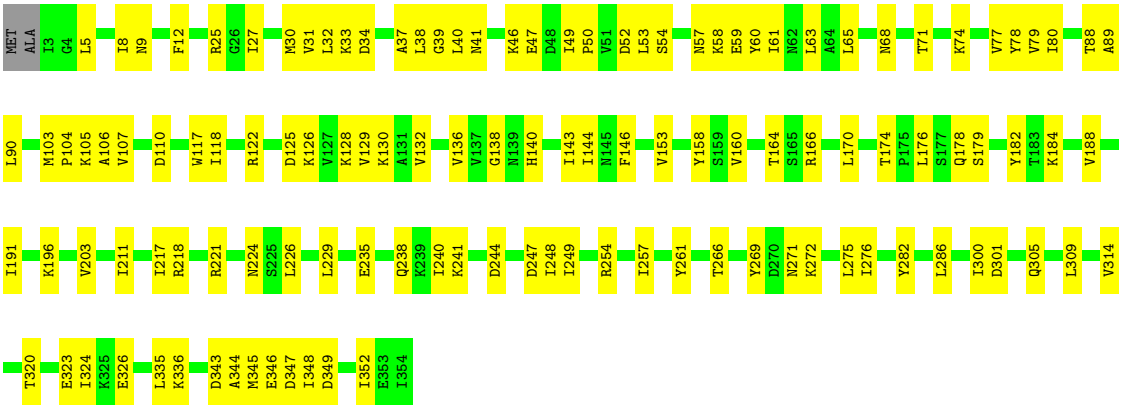
• Molecule 4: Sheath (CD1363)

Chain h:



• Molecule 4: Sheath (CD1363)

Chain U:

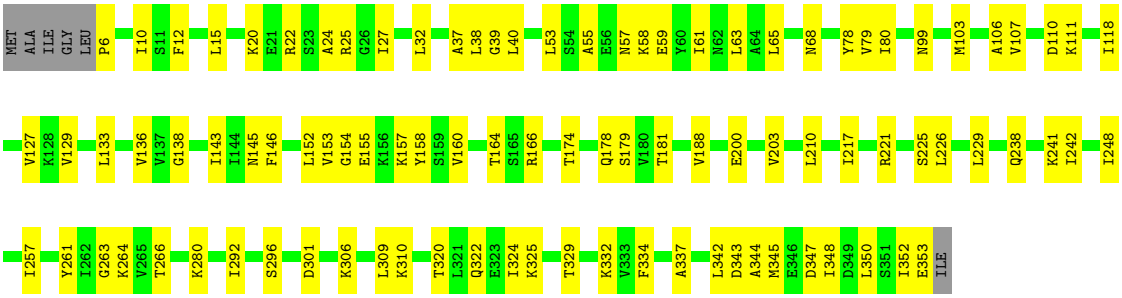


• Molecule 4: Sheath (CD1363)

Chain X:

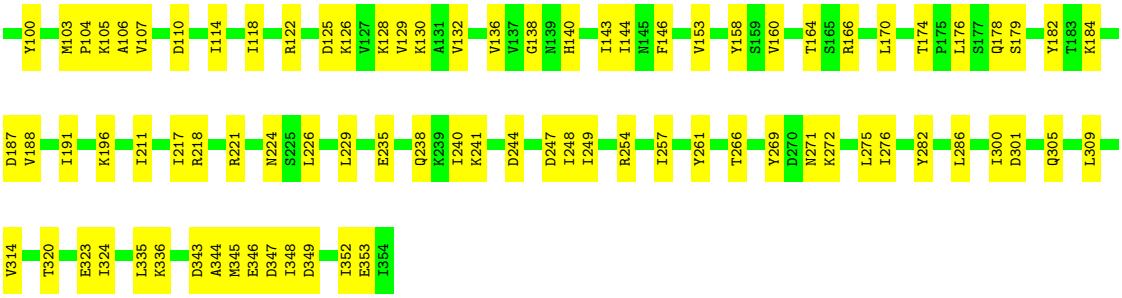
• Molecule 4: Sheath (CD1363)

Chain c:



• Molecule 4: Sheath (CD1363)

Chain a:



• Molecule 4: Sheath (CD1363)

Chain b:

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	11219	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 ($e^-/Å^2$)	50.0	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	B	0.09	0/2795	0.25	0/3784
1	F	0.09	0/2795	0.25	0/3784
1	K	0.10	0/2795	0.28	0/3784
1	O	0.09	0/2795	0.25	0/3784
1	Q	0.09	0/2795	0.25	0/3784
1	R	0.09	0/2795	0.25	0/3784
1	Z	0.09	0/2795	0.25	0/3784
1	e	0.10	0/2795	0.28	0/3784
1	m	0.10	0/2795	0.28	0/3784
1	n	0.10	0/2795	0.28	0/3784
1	o	0.10	0/2795	0.28	0/3784
1	v	0.10	0/2795	0.28	0/3784
2	A	0.09	0/1235	0.26	0/1668
2	E	0.09	0/1235	0.26	0/1668
2	L	0.09	0/1235	0.26	0/1668
2	M	0.09	0/1235	0.26	0/1668
2	N	0.09	0/1235	0.26	0/1668
2	Y	0.09	0/1235	0.26	0/1668
3	J	0.09	0/1015	0.25	0/1369
3	d	0.09	0/1015	0.25	0/1369
3	i	0.09	0/1015	0.25	0/1369
3	j	0.09	0/1015	0.25	0/1369
3	k	0.10	0/1015	0.25	0/1369
3	l	0.10	0/1015	0.26	0/1369
4	C	0.10	0/2766	0.28	0/3729
4	D	0.10	0/2758	0.28	0/3718
4	G	0.10	0/2766	0.28	0/3729
4	H	0.10	0/2758	0.28	0/3718
4	I	0.09	0/2738	0.28	0/3690
4	P	0.09	0/2738	0.28	0/3690
4	S	0.10	0/2766	0.28	0/3729
4	T	0.10	0/2766	0.30	0/3729
4	U	0.10	0/2766	0.29	0/3729
4	V	0.10	0/2758	0.28	0/3718

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
4	W	0.10	0/2758	0.29	0/3718
4	X	0.10	0/2758	0.28	0/3718
4	a	0.10	0/2766	0.29	0/3729
4	b	0.10	0/2758	0.28	0/3718
4	c	0.09	0/2738	0.28	0/3690
4	f	0.09	0/2738	0.28	0/3690
4	g	0.09	0/2738	0.28	0/3690
4	h	0.10	0/2738	0.28	0/3690
All	All	0.10	0/96612	0.27	0/130452

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 (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	2751	0	2720	94	0
1	F	2751	0	2720	95	0
1	K	2751	0	2720	79	0
1	O	2751	0	2720	97	0
1	Q	2751	0	2720	91	0
1	R	2751	0	2720	96	0
1	Z	2751	0	2720	95	0
1	e	2751	0	2720	83	0
1	m	2751	0	2720	79	0
1	n	2751	0	2720	77	0
1	o	2751	0	2720	80	0
1	v	2751	0	2720	80	0
2	A	1214	0	1203	44	0
2	E	1214	0	1203	42	0
2	L	1214	0	1203	43	0
2	M	1214	0	1203	38	0
2	N	1214	0	1203	46	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Y	1214	0	1203	41	0
3	J	995	0	1011	26	0
3	d	995	0	1011	27	0
3	i	995	0	1011	28	0
3	j	995	0	1011	26	0
3	k	995	0	1011	25	0
3	l	995	0	1011	25	0
4	C	2738	0	2864	96	0
4	D	2730	0	2853	98	0
4	G	2738	0	2864	98	0
4	H	2730	0	2853	101	0
4	I	2710	0	2829	81	0
4	P	2710	0	2829	86	0
4	S	2738	0	2864	100	0
4	T	2738	0	2864	95	0
4	U	2738	0	2864	97	0
4	V	2730	0	2853	105	0
4	W	2730	0	2853	97	0
4	X	2730	0	2853	98	0
4	a	2738	0	2864	96	0
4	b	2730	0	2853	104	0
4	c	2710	0	2829	83	0
4	f	2710	0	2829	82	0
4	g	2710	0	2829	83	0
4	h	2710	0	2829	78	0
All	All	95334	0	97200	2701	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 14.

All (2701) 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)
4:I:329:THR:HG21	4:I:334:PHE:CE2	1.72	1.22
4:h:329:THR:HG21	4:h:334:PHE:CE2	1.73	1.20
4:I:329:THR:CG2	4:I:334:PHE:CE2	2.32	1.12
4:I:329:THR:CG2	4:I:334:PHE:HE2	1.62	1.12
4:h:329:THR:CG2	4:h:334:PHE:CE2	2.34	1.10
4:h:329:THR:CG2	4:h:334:PHE:HE2	1.64	1.09
4:P:329:THR:HG21	4:P:334:PHE:CE2	1.91	1.05
4:g:329:THR:HG21	4:g:334:PHE:CE2	1.92	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:f:329:THR:HG21	4:f:334:PHE:CE2	1.92	1.04
4:c:329:THR:HG21	4:c:334:PHE:CE2	1.92	1.02
4:c:329:THR:CG2	4:c:334:PHE:CE2	2.43	1.01
4:g:329:THR:CG2	4:g:334:PHE:CE2	2.43	1.01
4:P:329:THR:CG2	4:P:334:PHE:CE2	2.45	0.99
4:f:329:THR:CG2	4:f:334:PHE:CE2	2.46	0.98
4:c:329:THR:CG2	4:c:334:PHE:HE2	1.81	0.93
4:g:329:THR:CG2	4:g:334:PHE:HE2	1.80	0.91
4:P:329:THR:CG2	4:P:334:PHE:HE2	1.83	0.90
4:g:329:THR:HG23	4:g:334:PHE:HE2	1.35	0.90
4:g:329:THR:HG22	4:g:332:LYS:HB2	1.53	0.90
4:c:329:THR:HG22	4:c:332:LYS:HB2	1.52	0.90
3:l:89:LYS:HD3	4:h:345:MET:HG3	1.53	0.89
4:f:329:THR:CG2	4:f:334:PHE:HE2	1.83	0.88
4:I:329:THR:HG23	4:I:334:PHE:HE2	1.34	0.87
1:O:317:LEU:H	1:n:302:THR:HG21	1.39	0.87
4:h:329:THR:HG23	4:h:334:PHE:HE2	1.37	0.87
4:f:329:THR:HG22	4:f:332:LYS:HB2	1.56	0.86
4:c:329:THR:HG23	4:c:334:PHE:HE2	1.37	0.86
1:O:302:THR:HG21	1:n:317:LEU:H	1.40	0.85
3:J:89:LYS:HD3	4:I:345:MET:HG3	1.58	0.84
4:P:329:THR:HG22	4:P:332:LYS:HB2	1.58	0.83
4:P:329:THR:HG23	4:P:334:PHE:HE2	1.42	0.82
4:f:329:THR:HG23	4:f:334:PHE:HE2	1.41	0.81
1:Q:317:LEU:H	1:K:302:THR:HG21	1.45	0.81
1:R:317:LEU:H	1:e:302:THR:HG21	1.45	0.80
3:i:89:LYS:HD3	4:f:345:MET:HG3	1.61	0.80
1:B:317:LEU:H	1:m:302:THR:HG21	1.45	0.80
4:P:329:THR:HG22	4:P:329:THR:O	1.83	0.79
4:G:352:ILE:HG13	4:U:12:PHE:HB3	1.65	0.79
4:f:329:THR:HG22	4:f:329:THR:O	1.83	0.78
4:c:329:THR:HG22	4:c:329:THR:O	1.83	0.78
1:O:299:ILE:HG23	1:O:331:ILE:HD11	1.65	0.77
4:g:329:THR:HG22	4:g:329:THR:O	1.83	0.77
4:T:37:ALA:HB3	4:T:52:ASP:HB3	1.67	0.76
1:F:302:THR:HG21	1:o:317:LEU:H	1.50	0.76
1:R:299:ILE:HG23	1:R:331:ILE:HD11	1.67	0.76
4:G:37:ALA:HB3	4:G:52:ASP:HB3	1.68	0.76
3:j:118:ALA:HB1	3:j:125:LEU:HD11	1.65	0.76
4:U:37:ALA:HB3	4:U:52:ASP:HB3	1.68	0.76
1:Z:299:ILE:HG23	1:Z:331:ILE:HD11	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:317:LEU:H	1:Z:302:THR:HG21	1.51	0.76
4:a:37:ALA:HB3	4:a:52:ASP:HB3	1.68	0.76
4:C:37:ALA:HB3	4:C:52:ASP:HB3	1.68	0.76
4:S:37:ALA:HB3	4:S:52:ASP:HB3	1.68	0.76
1:F:299:ILE:HG23	1:F:331:ILE:HD11	1.68	0.75
1:B:299:ILE:HG23	1:B:331:ILE:HD11	1.67	0.75
1:Q:299:ILE:HG23	1:Q:331:ILE:HD11	1.67	0.75
4:C:8:ILE:H	4:a:347:ASP:HB2	1.52	0.74
1:R:57:ILE:HG12	1:R:65:LEU:HB2	1.70	0.74
1:v:302:THR:HG21	1:Z:317:LEU:H	1.50	0.73
1:O:57:ILE:HG12	1:O:65:LEU:HB2	1.70	0.73
4:G:347:ASP:HB2	4:U:8:ILE:H	1.53	0.73
3:k:118:ALA:HB1	3:k:125:LEU:HD11	1.71	0.73
1:F:92:LYS:HG3	1:F:118:GLY:HA3	1.71	0.73
1:R:92:LYS:HG3	1:R:118:GLY:HA3	1.71	0.72
4:T:352:ILE:HG13	4:G:12:PHE:HB3	1.70	0.72
1:Z:92:LYS:HG3	1:Z:118:GLY:HA3	1.71	0.72
1:O:210:TYR:HB2	1:O:220:LYS:HB3	1.71	0.72
2:A:132:ILE:O	2:A:136:LYS:N	2.21	0.72
2:L:1:MET:N	2:L:24:ASP:OD2	2.23	0.72
4:H:37:ALA:HB3	4:H:52:ASP:HB3	1.71	0.72
3:d:89:LYS:HD3	4:c:345:MET:HG3	1.72	0.72
4:C:352:ILE:HG13	4:S:12:PHE:HB3	1.71	0.72
1:B:210:TYR:HB2	1:B:220:LYS:HB3	1.71	0.72
1:F:210:TYR:HB2	1:F:220:LYS:HB3	1.71	0.72
1:B:243:ILE:O	1:B:247:LYS:N	2.23	0.72
4:U:352:ILE:HG13	4:a:12:PHE:HB3	1.70	0.72
4:X:37:ALA:HB3	4:X:52:ASP:HB3	1.71	0.72
1:B:92:LYS:HG3	1:B:118:GLY:HA3	1.71	0.72
2:E:132:ILE:O	2:E:136:LYS:N	2.21	0.71
1:F:243:ILE:O	1:F:247:LYS:N	2.23	0.71
2:A:1:MET:N	2:A:24:ASP:OD2	2.23	0.71
2:N:1:MET:N	2:N:24:ASP:OD2	2.23	0.71
4:D:37:ALA:HB3	4:D:52:ASP:HB3	1.71	0.71
2:Y:1:MET:N	2:Y:24:ASP:OD2	2.23	0.71
2:N:132:ILE:O	2:N:136:LYS:N	2.21	0.71
1:R:302:THR:HG21	1:e:317:LEU:H	1.56	0.71
4:S:347:ASP:HB2	4:T:8:ILE:H	1.54	0.71
1:R:210:TYR:HB2	1:R:220:LYS:HB3	1.71	0.71
1:R:243:ILE:O	1:R:247:LYS:N	2.23	0.71
2:M:1:MET:N	2:M:24:ASP:OD2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:92:LYS:HG3	1:Q:118:GLY:HA3	1.71	0.71
4:V:37:ALA:HB3	4:V:52:ASP:HB3	1.71	0.71
2:E:1:MET:N	2:E:24:ASP:OD2	2.23	0.71
1:R:179:TYR:HB3	1:R:183:ARG:HH12	1.55	0.71
4:S:125:ASP:O	4:S:254:ARG:NH1	2.24	0.71
1:O:92:LYS:HG3	1:O:118:GLY:HA3	1.71	0.71
4:T:125:ASP:O	4:T:254:ARG:NH1	2.24	0.71
1:Z:243:ILE:O	1:Z:247:LYS:N	2.23	0.71
1:Q:302:THR:HG21	1:K:317:LEU:H	1.56	0.71
1:Q:243:ILE:O	1:Q:247:LYS:N	2.23	0.71
1:e:33:MET:SD	2:Y:20:GLN:NE2	2.64	0.71
1:Z:179:TYR:HB3	1:Z:183:ARG:HH12	1.55	0.71
1:B:302:THR:HG21	1:m:317:LEU:H	1.56	0.70
1:Q:210:TYR:HB2	1:Q:220:LYS:HB3	1.71	0.70
4:C:125:ASP:O	4:C:254:ARG:NH1	2.24	0.70
3:k:130:LYS:HA	4:g:353:GLU:HG2	1.73	0.70
3:l:130:LYS:HA	4:h:353:GLU:HG2	1.73	0.70
1:Z:210:TYR:HB2	1:Z:220:LYS:HB3	1.71	0.70
3:l:118:ALA:HB1	3:l:125:LEU:HD11	1.73	0.70
4:b:37:ALA:HB3	4:b:52:ASP:HB3	1.72	0.70
4:G:125:ASP:O	4:G:254:ARG:NH1	2.24	0.70
1:F:179:TYR:HB3	1:F:183:ARG:HH12	1.55	0.70
3:l:29:ALA:HB3	3:l:45:LYS:HB3	1.73	0.70
4:a:125:ASP:O	4:a:254:ARG:NH1	2.24	0.70
3:J:130:LYS:HA	4:I:353:GLU:HG2	1.73	0.70
1:B:179:TYR:HB3	1:B:183:ARG:HH12	1.55	0.70
4:W:37:ALA:HB3	4:W:52:ASP:HB3	1.72	0.70
3:J:121:ASN:H	4:I:345:MET:HE1	1.56	0.70
4:U:125:ASP:O	4:U:254:ARG:NH1	2.24	0.70
1:B:57:ILE:HG12	1:B:65:LEU:HB2	1.73	0.69
1:O:179:TYR:HB3	1:O:183:ARG:HH12	1.55	0.69
3:J:118:ALA:HB1	3:J:125:LEU:HD11	1.74	0.69
1:F:270:LYS:HA	1:F:346:GLU:HG3	1.74	0.69
1:Q:57:ILE:HG12	1:Q:65:LEU:HB2	1.73	0.69
3:d:130:LYS:HA	4:c:353:GLU:HG2	1.73	0.69
1:Z:305:MET:HG2	1:Z:320:LEU:HD13	1.74	0.69
1:F:57:ILE:HG12	1:F:65:LEU:HB2	1.73	0.69
3:j:130:LYS:HA	4:P:353:GLU:HG2	1.74	0.69
4:f:203:VAL:HG11	4:g:6:PRO:HB3	1.75	0.69
1:O:243:ILE:O	1:O:247:LYS:N	2.23	0.69
2:M:132:ILE:O	2:M:136:LYS:N	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:179:TYR:HB3	1:Q:183:ARG:HH12	1.55	0.69
4:U:226:LEU:HD22	4:U:229:LEU:HD22	1.75	0.69
2:Y:132:ILE:O	2:Y:136:LYS:N	2.21	0.69
1:Q:305:MET:HG2	1:Q:320:LEU:HD13	1.75	0.69
1:R:270:LYS:HA	1:R:346:GLU:HG3	1.75	0.69
2:L:132:ILE:O	2:L:136:LYS:N	2.21	0.69
1:F:305:MET:HG2	1:F:320:LEU:HD13	1.74	0.68
1:B:270:LYS:HA	1:B:346:GLU:HG3	1.75	0.68
3:k:29:ALA:HB3	3:k:45:LYS:HB3	1.74	0.68
3:J:29:ALA:HB3	3:J:45:LYS:HB3	1.76	0.68
4:G:226:LEU:HD22	4:G:229:LEU:HD22	1.75	0.68
1:B:305:MET:HG2	1:B:320:LEU:HD13	1.75	0.68
1:Z:57:ILE:HG12	1:Z:65:LEU:HB2	1.73	0.68
3:d:29:ALA:HB3	3:d:45:LYS:HB3	1.75	0.68
3:j:29:ALA:HB3	3:j:45:LYS:HB3	1.75	0.68
1:v:92:LYS:HG3	1:v:118:GLY:HA3	1.76	0.68
4:C:235:GLU:HA	4:C:238:GLN:HG3	1.76	0.68
3:i:130:LYS:HA	4:f:353:GLU:HG2	1.73	0.68
4:H:266:THR:O	4:H:271:ASN:ND2	2.26	0.68
4:S:226:LEU:HD22	4:S:229:LEU:HD22	1.75	0.68
3:l:125:LEU:HB3	4:h:348:ILE:HG22	1.76	0.68
1:e:92:LYS:HG3	1:e:118:GLY:HA3	1.76	0.68
4:a:235:GLU:HA	4:a:238:GLN:HG3	1.75	0.68
1:B:54:MET:SD	1:B:62:ASN:ND2	2.67	0.67
4:W:298:VAL:HG13	4:W:337:ALA:HB2	1.76	0.67
1:Q:54:MET:SD	1:Q:62:ASN:ND2	2.67	0.67
1:Q:270:LYS:HA	1:Q:346:GLU:HG3	1.75	0.67
1:Z:270:LYS:HA	1:Z:346:GLU:HG3	1.76	0.67
1:O:54:MET:SD	1:O:62:ASN:ND2	2.67	0.67
1:O:270:LYS:HA	1:O:346:GLU:HG3	1.75	0.67
1:m:92:LYS:HG3	1:m:118:GLY:HA3	1.76	0.67
4:f:348:ILE:HG13	4:g:10:ILE:HD11	1.76	0.67
4:G:235:GLU:HA	4:G:238:GLN:HG3	1.75	0.67
4:S:352:ILE:HB	4:T:12:PHE:HB3	1.76	0.67
4:S:235:GLU:HA	4:S:238:GLN:HG3	1.75	0.67
1:K:92:LYS:HG3	1:K:118:GLY:HA3	1.76	0.67
4:H:298:VAL:HG13	4:H:337:ALA:HB2	1.76	0.67
1:F:317:LEU:H	1:o:302:THR:HG21	1.57	0.67
1:R:305:MET:HG2	1:R:320:LEU:HD13	1.75	0.67
4:a:63:LEU:HD23	4:a:166:ARG:HB2	1.76	0.67
4:b:33:LYS:HE3	4:b:105:LYS:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:298:VAL:HG13	4:D:337:ALA:HB2	1.76	0.67
3:i:29:ALA:HB3	3:i:45:LYS:HB3	1.76	0.67
1:o:92:LYS:HG3	1:o:118:GLY:HA3	1.76	0.67
4:a:266:THR:O	4:a:271:ASN:ND2	2.28	0.67
4:b:266:THR:O	4:b:271:ASN:ND2	2.26	0.67
3:j:125:LEU:HB3	4:P:348:ILE:HG22	1.77	0.67
4:g:329:THR:HG23	4:g:334:PHE:CE2	2.16	0.67
4:a:226:LEU:HD22	4:a:229:LEU:HD22	1.75	0.67
4:P:6:PRO:HB3	4:c:203:VAL:HG11	1.75	0.67
4:S:266:THR:O	4:S:271:ASN:ND2	2.28	0.67
4:I:203:VAL:HG11	4:h:6:PRO:HB3	1.77	0.67
4:b:298:VAL:HG13	4:b:337:ALA:HB2	1.76	0.67
4:T:266:THR:O	4:T:271:ASN:ND2	2.28	0.67
1:R:54:MET:SD	1:R:62:ASN:ND2	2.67	0.67
1:Z:54:MET:SD	1:Z:62:ASN:ND2	2.67	0.67
4:C:63:LEU:HD23	4:C:166:ARG:HB2	1.77	0.67
4:D:266:THR:O	4:D:271:ASN:ND2	2.26	0.67
1:n:92:LYS:HG3	1:n:118:GLY:HA3	1.76	0.67
4:T:235:GLU:HA	4:T:238:GLN:HG3	1.76	0.66
4:X:266:THR:O	4:X:271:ASN:ND2	2.26	0.66
4:C:266:THR:O	4:C:271:ASN:ND2	2.28	0.66
4:T:226:LEU:HD22	4:T:229:LEU:HD22	1.76	0.66
4:V:266:THR:O	4:V:271:ASN:ND2	2.26	0.66
4:G:266:THR:O	4:G:271:ASN:ND2	2.28	0.66
4:C:80:ILE:HG21	4:C:88:THR:HG21	1.78	0.66
4:U:80:ILE:HG21	4:U:88:THR:HG21	1.78	0.66
4:c:329:THR:HG23	4:c:334:PHE:CE2	2.17	0.66
4:C:226:LEU:HD22	4:C:229:LEU:HD22	1.76	0.66
4:S:348:ILE:HA	4:V:333:VAL:HB	1.78	0.66
1:F:54:MET:SD	1:F:62:ASN:ND2	2.67	0.66
4:a:80:ILE:HG21	4:a:88:THR:HG21	1.78	0.66
4:T:80:ILE:HG21	4:T:88:THR:HG21	1.78	0.66
4:U:235:GLU:HA	4:U:238:GLN:HG3	1.76	0.66
4:U:266:THR:O	4:U:271:ASN:ND2	2.28	0.66
4:T:276:ILE:HD11	4:T:300:ILE:HG12	1.78	0.66
4:G:80:ILE:HG21	4:G:88:THR:HG21	1.78	0.66
4:D:345:MET:HE2	4:D:348:ILE:HG12	1.77	0.65
4:G:348:ILE:HA	4:H:333:VAL:HB	1.78	0.65
4:X:298:VAL:HG13	4:X:337:ALA:HB2	1.77	0.65
4:P:10:ILE:HD11	4:c:348:ILE:HG13	1.76	0.65
4:S:80:ILE:HG21	4:S:88:THR:HG21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:63:LEU:HD23	4:U:166:ARG:HB2	1.78	0.65
4:D:33:LYS:HE3	4:D:105:LYS:HG3	1.78	0.65
4:S:63:LEU:HD23	4:S:166:ARG:HB2	1.78	0.65
3:k:125:LEU:HB3	4:g:348:ILE:HG22	1.78	0.65
4:G:276:ILE:HD11	4:G:300:ILE:HG12	1.78	0.65
4:V:33:LYS:HE3	4:V:105:LYS:HG3	1.77	0.65
4:T:63:LEU:HD23	4:T:166:ARG:HB2	1.77	0.65
4:H:33:LYS:HE3	4:H:105:LYS:HG3	1.77	0.65
4:b:63:LEU:HD23	4:b:166:ARG:HB2	1.79	0.65
1:O:302:THR:HG22	1:O:305:MET:HE2	1.79	0.65
4:P:103:MET:HB3	4:P:106:ALA:HB2	1.79	0.65
4:C:54:SER:H	4:C:57:ASN:HD22	1.43	0.65
4:G:54:SER:H	4:G:57:ASN:HD22	1.43	0.65
4:G:63:LEU:HD23	4:G:166:ARG:HB2	1.78	0.65
4:a:348:ILE:HA	4:b:333:VAL:HB	1.78	0.65
4:f:103:MET:HB3	4:f:106:ALA:HB2	1.79	0.65
4:U:54:SER:H	4:U:57:ASN:HD22	1.43	0.65
4:D:126:LYS:HE3	4:S:9:ASN:HB3	1.79	0.64
4:g:103:MET:HB3	4:g:106:ALA:HB2	1.79	0.64
4:W:33:LYS:HE3	4:W:105:LYS:HG3	1.78	0.64
4:C:229:LEU:HG	4:C:238:GLN:HG2	1.79	0.64
4:S:276:ILE:HD11	4:S:300:ILE:HG12	1.78	0.64
4:f:329:THR:HG23	4:f:334:PHE:CE2	2.22	0.64
4:W:266:THR:O	4:W:271:ASN:ND2	2.26	0.64
4:a:176:LEU:O	4:a:241:LYS:NZ	2.31	0.64
4:S:229:LEU:HG	4:S:238:GLN:HG2	1.80	0.64
4:W:126:LYS:HE3	4:G:9:ASN:HB3	1.80	0.64
1:K:19:ASN:O	1:F:32:ASN:ND2	2.31	0.64
4:X:63:LEU:HD23	4:X:166:ARG:HB2	1.79	0.64
4:U:179:SER:HB3	4:X:263:GLY:HA2	1.80	0.64
4:U:276:ILE:HD11	4:U:300:ILE:HG12	1.79	0.64
4:a:229:LEU:HG	4:a:238:GLN:HG2	1.79	0.64
4:P:329:THR:HG23	4:P:334:PHE:CE2	2.23	0.64
4:D:63:LEU:HD23	4:D:166:ARG:HB2	1.79	0.64
4:I:263:GLY:HA2	4:H:179:SER:HB3	1.79	0.64
4:G:179:SER:HB3	4:H:263:GLY:HA2	1.80	0.64
4:c:103:MET:HB3	4:c:106:ALA:HB2	1.79	0.64
4:W:63:LEU:HD23	4:W:166:ARG:HB2	1.79	0.64
1:e:19:ASN:O	1:Z:32:ASN:ND2	2.31	0.64
1:v:250:GLY:H	2:A:85:ILE:HD11	1.62	0.64
4:P:263:GLY:HA2	4:D:179:SER:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:19:ASN:O	1:O:32:ASN:ND2	2.31	0.64
4:S:54:SER:H	4:S:57:ASN:HD22	1.43	0.64
4:X:33:LYS:HE3	4:X:105:LYS:HG3	1.78	0.64
4:c:264:LYS:HA	4:b:178:GLN:HG2	1.79	0.64
4:a:179:SER:HB3	4:b:263:GLY:HA2	1.80	0.64
4:V:63:LEU:HD23	4:V:166:ARG:HB2	1.79	0.64
1:K:250:GLY:H	2:E:85:ILE:HD11	1.63	0.64
4:C:276:ILE:HD11	4:C:300:ILE:HG12	1.79	0.64
4:f:263:GLY:HA2	4:V:179:SER:HB3	1.79	0.64
4:T:179:SER:HB3	4:W:263:GLY:HA2	1.80	0.64
1:K:211:PRO:HB3	1:F:249:ILE:HG21	1.80	0.64
1:B:206:ASN:ND2	1:B:228:ASN:OD1	2.31	0.63
4:S:179:SER:HB3	4:V:263:GLY:HA2	1.80	0.63
4:X:126:LYS:HE3	4:a:9:ASN:HB3	1.80	0.63
4:a:276:ILE:HD11	4:a:300:ILE:HG12	1.78	0.63
1:m:250:GLY:H	2:L:85:ILE:HD11	1.62	0.63
1:n:211:PRO:HB3	1:Q:249:ILE:HG21	1.81	0.63
4:I:103:MET:HB3	4:I:106:ALA:HB2	1.79	0.63
4:H:63:LEU:HD23	4:H:166:ARG:HB2	1.79	0.63
1:o:211:PRO:HB3	1:R:249:ILE:HG21	1.80	0.63
1:o:250:GLY:H	2:N:85:ILE:HD11	1.62	0.63
1:e:250:GLY:H	2:Y:85:ILE:HD11	1.63	0.63
4:a:54:SER:H	4:a:57:ASN:HD22	1.43	0.63
1:o:19:ASN:O	1:R:32:ASN:ND2	2.31	0.63
1:n:250:GLY:H	2:M:85:ILE:HD11	1.63	0.63
4:T:54:SER:H	4:T:57:ASN:HD22	1.44	0.63
1:R:206:ASN:ND2	1:R:228:ASN:OD1	2.31	0.63
1:Z:206:ASN:ND2	1:Z:228:ASN:OD1	2.31	0.63
1:m:211:PRO:HB3	1:O:249:ILE:HG21	1.80	0.63
1:O:206:ASN:ND2	1:O:228:ASN:OD1	2.31	0.63
1:n:19:ASN:O	1:Q:32:ASN:ND2	2.32	0.63
1:Q:206:ASN:ND2	1:Q:228:ASN:OD1	2.31	0.63
1:o:86:VAL:HA	1:o:158:ASN:HA	1.80	0.63
4:h:103:MET:HB3	4:h:106:ALA:HB2	1.79	0.63
4:P:111:LYS:HG2	4:P:133:LEU:HD22	1.81	0.63
4:C:179:SER:HB3	4:D:263:GLY:HA2	1.80	0.63
4:g:111:LYS:HG2	4:g:133:LEU:HD22	1.81	0.63
1:e:211:PRO:HB3	1:Z:249:ILE:HG21	1.80	0.63
4:f:111:LYS:HG2	4:f:133:LEU:HD22	1.81	0.63
4:T:229:LEU:HG	4:T:238:GLN:HG2	1.79	0.63
4:W:194:MET:HE1	4:W:199:ALA:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:264:LYS:HA	4:D:178:GLN:HG2	1.81	0.62
1:m:86:VAL:HA	1:m:158:ASN:HA	1.80	0.62
1:n:52:HIS:NE2	1:Q:51:MET:SD	2.72	0.62
4:I:111:LYS:HG2	4:I:133:LEU:HD22	1.81	0.62
1:F:206:ASN:ND2	1:F:228:ASN:OD1	2.31	0.62
1:v:19:ASN:O	1:B:32:ASN:ND2	2.32	0.62
3:j:121:ASN:H	4:P:345:MET:HE1	1.64	0.62
4:G:344:ALA:HA	4:H:266:THR:HA	1.82	0.62
1:R:269:MET:HA	1:R:317:LEU:HA	1.81	0.62
4:c:111:LYS:HG2	4:c:133:LEU:HD22	1.81	0.62
4:W:176:LEU:O	4:W:241:LYS:NZ	2.32	0.62
4:H:176:LEU:O	4:H:241:LYS:NZ	2.32	0.62
4:U:229:LEU:HG	4:U:238:GLN:HG2	1.80	0.62
4:X:136:VAL:HG12	4:X:138:GLY:H	1.65	0.62
1:v:211:PRO:HB3	1:B:249:ILE:HG21	1.80	0.62
1:n:86:VAL:HA	1:n:158:ASN:HA	1.81	0.62
4:g:263:GLY:HA2	4:W:179:SER:HB3	1.80	0.62
4:g:264:LYS:HA	4:W:178:GLN:HG2	1.80	0.62
1:e:86:VAL:HA	1:e:158:ASN:HA	1.80	0.62
4:a:344:ALA:HA	4:b:266:THR:HA	1.81	0.62
4:V:176:LEU:O	4:V:241:LYS:NZ	2.32	0.62
1:o:52:HIS:NE2	1:R:51:MET:SD	2.72	0.62
4:h:263:GLY:HA2	4:X:179:SER:HB3	1.79	0.62
4:c:263:GLY:HA2	4:b:179:SER:HB3	1.80	0.62
4:H:136:VAL:HG12	4:H:138:GLY:H	1.65	0.62
4:h:264:LYS:HA	4:X:178:GLN:HG2	1.80	0.62
4:D:176:LEU:O	4:D:241:LYS:NZ	2.32	0.62
4:V:136:VAL:HG12	4:V:138:GLY:H	1.65	0.62
1:K:86:VAL:HA	1:K:158:ASN:HA	1.81	0.62
4:c:136:VAL:HG12	4:c:138:GLY:H	1.64	0.62
4:f:264:LYS:HA	4:V:178:GLN:HG2	1.81	0.62
4:T:348:ILE:HA	4:W:333:VAL:HB	1.81	0.62
4:G:229:LEU:HG	4:G:238:GLN:HG2	1.79	0.62
1:e:52:HIS:NE2	1:Z:51:MET:SD	2.73	0.62
4:b:176:LEU:O	4:b:241:LYS:NZ	2.31	0.62
4:D:136:VAL:HG12	4:D:138:GLY:H	1.65	0.61
4:S:176:LEU:O	4:S:241:LYS:NZ	2.31	0.61
4:W:136:VAL:HG12	4:W:138:GLY:H	1.65	0.61
4:T:176:LEU:O	4:T:241:LYS:NZ	2.31	0.61
4:I:136:VAL:HG12	4:I:138:GLY:H	1.64	0.61
4:h:136:VAL:HG12	4:h:138:GLY:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:270:LYS:N	1:B:316:ASP:O	2.25	0.61
1:m:52:HIS:NE2	1:O:51:MET:SD	2.72	0.61
1:v:269:MET:HA	1:v:317:LEU:HA	1.83	0.61
4:D:200:GLU:HA	4:V:5:LEU:HD23	1.83	0.61
4:V:126:LYS:HE3	4:T:9:ASN:HB3	1.81	0.61
4:g:136:VAL:HG12	4:g:138:GLY:H	1.66	0.61
4:X:176:LEU:O	4:X:241:LYS:NZ	2.32	0.61
2:A:3:LEU:O	2:A:7:LEU:N	2.33	0.61
4:S:344:ALA:HA	4:V:266:THR:HA	1.83	0.61
4:b:136:VAL:HG12	4:b:138:GLY:H	1.65	0.61
4:C:9:ASN:HB3	4:b:126:LYS:HE3	1.83	0.61
2:L:3:LEU:O	2:L:7:LEU:N	2.33	0.61
1:Q:269:MET:HA	1:Q:317:LEU:HA	1.81	0.61
4:H:40:LEU:HA	4:H:78:TYR:HA	1.83	0.61
4:h:111:LYS:HG2	4:h:133:LEU:HD22	1.82	0.61
4:U:348:ILE:HA	4:X:333:VAL:HB	1.82	0.61
1:v:52:HIS:NE2	1:B:51:MET:SD	2.74	0.61
4:C:344:ALA:HA	4:D:266:THR:HA	1.83	0.61
4:T:344:ALA:HA	4:W:266:THR:HA	1.83	0.61
1:R:11:LYS:HD2	1:R:34:VAL:HG12	1.83	0.61
4:a:60:TYR:CZ	4:a:104:PRO:HB3	2.36	0.61
2:M:3:LEU:O	2:M:7:LEU:N	2.33	0.61
4:W:80:ILE:HG21	4:W:88:THR:HG21	1.83	0.61
4:G:60:TYR:CZ	4:G:104:PRO:HB3	2.36	0.61
4:U:60:TYR:CZ	4:U:104:PRO:HB3	2.36	0.61
4:X:200:GLU:HA	4:b:5:LEU:HD23	1.82	0.61
1:B:269:MET:HA	1:B:317:LEU:HA	1.81	0.61
4:f:136:VAL:HG12	4:f:138:GLY:H	1.66	0.61
1:F:11:LYS:HD2	1:F:34:VAL:HG12	1.83	0.61
1:v:86:VAL:HA	1:v:158:ASN:HA	1.81	0.60
4:I:348:ILE:HG13	4:h:10:ILE:HD11	1.82	0.60
1:e:243:ILE:O	1:e:247:LYS:N	2.34	0.60
4:C:60:TYR:CZ	4:C:104:PRO:HB3	2.36	0.60
4:X:40:LEU:HA	4:X:78:TYR:HA	1.83	0.60
1:Z:269:MET:HA	1:Z:317:LEU:HA	1.82	0.60
4:V:80:ILE:HG21	4:V:88:THR:HG21	1.83	0.60
1:K:52:HIS:NE2	1:F:51:MET:SD	2.74	0.60
1:O:269:MET:HA	1:O:317:LEU:HA	1.82	0.60
4:U:344:ALA:HA	4:X:266:THR:HA	1.83	0.60
3:k:27:GLU:HG3	3:k:28:VAL:H	1.67	0.60
1:K:269:MET:HA	1:K:317:LEU:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:264:LYS:HA	4:H:178:GLN:HG2	1.81	0.60
1:o:243:ILE:O	1:o:247:LYS:N	2.34	0.60
2:N:3:LEU:O	2:N:7:LEU:N	2.33	0.60
3:l:27:GLU:HG3	3:l:28:VAL:H	1.66	0.60
3:l:121:ASN:H	4:h:345:MET:HE1	1.67	0.60
2:Y:3:LEU:O	2:Y:7:LEU:N	2.33	0.60
4:b:40:LEU:HA	4:b:78:TYR:HA	1.83	0.60
1:v:243:ILE:O	1:v:247:LYS:N	2.35	0.60
1:F:269:MET:HA	1:F:317:LEU:HA	1.83	0.60
4:D:80:ILE:HG21	4:D:88:THR:HG21	1.83	0.60
1:B:244:ASP:HA	1:B:247:LYS:HG2	1.84	0.60
4:G:176:LEU:O	4:G:241:LYS:NZ	2.30	0.60
4:W:40:LEU:HA	4:W:78:TYR:HA	1.83	0.60
2:E:3:LEU:O	2:E:7:LEU:N	2.34	0.60
1:F:244:ASP:HA	1:F:247:LYS:HG2	1.83	0.60
1:e:269:MET:HA	1:e:317:LEU:HA	1.83	0.60
1:n:302:THR:HA	1:n:305:MET:HG3	1.84	0.60
4:H:126:LYS:HE3	4:U:9:ASN:HB3	1.82	0.60
4:a:40:LEU:HA	4:a:78:TYR:HA	1.84	0.60
1:B:11:LYS:HD2	1:B:34:VAL:HG12	1.83	0.59
4:S:60:TYR:CZ	4:S:104:PRO:HB3	2.36	0.59
3:J:87:TYR:HD2	3:J:92:THR:HG23	1.67	0.59
4:X:80:ILE:HG21	4:X:88:THR:HG21	1.83	0.59
3:d:87:TYR:HD2	3:d:92:THR:HG23	1.67	0.59
1:Z:11:LYS:HD2	1:Z:34:VAL:HG12	1.83	0.59
4:C:348:ILE:HA	4:D:333:VAL:HB	1.82	0.59
1:O:244:ASP:HA	1:O:247:LYS:HG2	1.84	0.59
3:J:27:GLU:HG3	3:J:28:VAL:H	1.67	0.59
4:H:80:ILE:HG21	4:H:88:THR:HG21	1.83	0.59
4:U:40:LEU:HA	4:U:78:TYR:HA	1.84	0.59
1:n:243:ILE:O	1:n:247:LYS:N	2.34	0.59
1:Q:11:LYS:HD2	1:Q:34:VAL:HG12	1.83	0.59
3:d:27:GLU:HG3	3:d:28:VAL:H	1.67	0.59
3:i:27:GLU:HG3	3:i:28:VAL:H	1.66	0.59
2:A:105:TYR:HB2	2:A:108:GLU:HB2	1.85	0.59
3:j:27:GLU:HG3	3:j:28:VAL:H	1.66	0.59
3:i:121:ASN:H	4:f:345:MET:HE1	1.67	0.59
1:K:69:VAL:O	1:K:73:GLY:N	2.33	0.59
4:G:40:LEU:HA	4:G:78:TYR:HA	1.84	0.59
1:v:181:ILE:O	1:v:185:GLN:NE2	2.35	0.59
4:D:40:LEU:HA	4:D:78:TYR:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:40:LEU:HA	4:S:78:TYR:HA	1.84	0.59
4:V:40:LEU:HA	4:V:78:TYR:HA	1.83	0.59
1:n:269:MET:HA	1:n:317:LEU:HA	1.83	0.59
3:k:89:LYS:HD3	4:g:345:MET:HG3	1.83	0.59
1:Q:244:ASP:HA	1:Q:247:LYS:HG2	1.84	0.59
1:K:243:ILE:O	1:K:247:LYS:N	2.35	0.59
1:o:332:ASN:HB2	1:o:335:LYS:HD2	1.85	0.59
1:e:332:ASN:HB2	1:e:335:LYS:HD2	1.85	0.59
1:m:332:ASN:HB2	1:m:335:LYS:HD2	1.85	0.59
4:V:345:MET:HE2	4:V:348:ILE:HG12	1.85	0.59
1:m:243:ILE:O	1:m:247:LYS:N	2.35	0.59
4:f:332:LYS:HG2	4:V:347:ASP:HB2	1.85	0.59
4:H:32:LEU:HD11	4:H:105:LYS:HG2	1.85	0.59
4:H:200:GLU:HA	4:X:5:LEU:HD23	1.85	0.59
1:v:332:ASN:HB2	1:v:335:LYS:HD2	1.85	0.59
4:C:33:LYS:HE3	4:C:105:LYS:HG3	1.85	0.59
1:n:181:ILE:O	1:n:185:GLN:NE2	2.36	0.59
2:E:105:TYR:HB2	2:E:108:GLU:HB2	1.84	0.59
3:J:50:LYS:HE3	3:J:135:TYR:HB2	1.85	0.59
2:Y:105:TYR:HB2	2:Y:108:GLU:HB2	1.85	0.59
4:a:33:LYS:HE3	4:a:105:LYS:HG3	1.85	0.59
4:b:80:ILE:HG21	4:b:88:THR:HG21	1.83	0.59
4:P:136:VAL:HG12	4:P:138:GLY:H	1.66	0.59
1:B:179:TYR:HB3	1:B:183:ARG:NH1	2.18	0.59
3:i:50:LYS:HE3	3:i:135:TYR:HB2	1.85	0.59
1:O:11:LYS:HD2	1:O:34:VAL:HG12	1.83	0.59
4:I:332:LYS:HG2	4:H:347:ASP:HB2	1.85	0.59
1:m:181:ILE:O	1:m:185:GLN:NE2	2.36	0.58
1:m:269:MET:HA	1:m:317:LEU:HA	1.84	0.58
1:o:69:VAL:O	1:o:73:GLY:N	2.33	0.58
4:U:33:LYS:HE3	4:U:105:LYS:HG3	1.85	0.58
3:j:50:LYS:HE3	3:j:135:TYR:HB2	1.85	0.58
4:S:33:LYS:HE3	4:S:105:LYS:HG3	1.85	0.58
1:O:179:TYR:HB3	1:O:183:ARG:NH1	2.18	0.58
4:X:32:LEU:HD11	4:X:105:LYS:HG2	1.85	0.58
1:R:270:LYS:N	1:R:316:ASP:O	2.25	0.58
1:Z:244:ASP:HA	1:Z:247:LYS:HG2	1.84	0.58
4:S:130:LYS:NZ	4:S:247:ASP:OD2	2.36	0.58
4:V:200:GLU:HA	4:W:5:LEU:HD23	1.84	0.58
1:K:332:ASN:HB2	1:K:335:LYS:HD2	1.85	0.58
1:o:181:ILE:O	1:o:185:GLN:NE2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:50:LYS:HE3	3:k:135:TYR:HB2	1.85	0.58
4:U:130:LYS:NZ	4:U:247:ASP:OD2	2.36	0.58
4:H:345:MET:HE2	4:H:348:ILE:HG12	1.85	0.58
1:o:269:MET:HA	1:o:317:LEU:HA	1.85	0.58
1:e:181:ILE:O	1:e:185:GLN:NE2	2.36	0.58
4:a:130:LYS:NZ	4:a:247:ASP:OD2	2.36	0.58
4:D:32:LEU:HD22	4:D:104:PRO:HG2	1.85	0.58
3:i:87:TYR:HD2	3:i:92:THR:HG23	1.67	0.58
4:T:60:TYR:CZ	4:T:104:PRO:HB3	2.39	0.58
4:T:130:LYS:NZ	4:T:247:ASP:OD2	2.36	0.58
3:l:50:LYS:HE3	3:l:135:TYR:HB2	1.85	0.58
1:R:244:ASP:HA	1:R:247:LYS:HG2	1.84	0.58
4:b:32:LEU:HD11	4:b:105:LYS:HG2	1.85	0.58
4:D:32:LEU:HD11	4:D:105:LYS:HG2	1.85	0.58
4:H:32:LEU:HD22	4:H:104:PRO:HG2	1.85	0.58
2:L:105:TYR:HB2	2:L:108:GLU:HB2	1.86	0.58
4:V:32:LEU:HD22	4:V:104:PRO:HG2	1.85	0.58
1:O:11:LYS:HB2	1:O:38:ASN:ND2	2.19	0.58
4:T:40:LEU:HA	4:T:78:TYR:HA	1.84	0.58
4:G:33:LYS:HE3	4:G:105:LYS:HG3	1.85	0.58
4:U:122:ARG:HG2	4:U:128:LYS:HA	1.86	0.58
3:d:50:LYS:HE3	3:d:135:TYR:HB2	1.85	0.58
4:C:40:LEU:HA	4:C:78:TYR:HA	1.84	0.58
4:C:122:ARG:HG2	4:C:128:LYS:HA	1.86	0.58
1:K:181:ILE:O	1:K:185:GLN:NE2	2.36	0.58
1:B:11:LYS:HB2	1:B:38:ASN:ND2	2.19	0.58
4:c:332:LYS:HG2	4:b:347:ASP:HB2	1.85	0.58
4:C:54:SER:H	4:C:57:ASN:ND2	2.02	0.57
4:D:5:LEU:HD23	4:b:200:GLU:HA	1.86	0.57
1:B:236:ILE:HD11	1:B:257:THR:HB	1.86	0.57
2:M:105:TYR:HB2	2:M:108:GLU:HB2	1.85	0.57
4:W:200:GLU:HA	4:H:5:LEU:HD23	1.84	0.57
1:Q:11:LYS:HB2	1:Q:38:ASN:ND2	2.19	0.57
1:R:179:TYR:HB3	1:R:183:ARG:NH1	2.18	0.57
1:e:69:VAL:O	1:e:73:GLY:N	2.33	0.57
1:Z:179:TYR:HB3	1:Z:183:ARG:NH1	2.18	0.57
1:n:270:LYS:N	1:n:316:ASP:O	2.32	0.57
1:n:332:ASN:HB2	1:n:335:LYS:HD2	1.85	0.57
4:C:130:LYS:NZ	4:C:247:ASP:OD2	2.36	0.57
4:C:176:LEU:O	4:C:241:LYS:NZ	2.31	0.57
1:n:206:ASN:HB3	1:n:224:PHE:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:270:LYS:N	1:Q:316:ASP:O	2.25	0.57
4:c:25:ARG:HH11	4:c:248:ILE:HD13	1.70	0.57
4:a:178:GLN:O	4:a:241:LYS:NZ	2.32	0.57
1:Z:76:ARG:HG3	1:Z:169:GLU:HG2	1.87	0.57
4:C:32:LEU:HD13	4:C:104:PRO:HG2	1.87	0.57
1:R:53:LYS:O	1:R:57:ILE:N	2.38	0.57
4:b:32:LEU:HD22	4:b:104:PRO:HG2	1.86	0.57
1:Z:236:ILE:HD11	1:Z:257:THR:HB	1.86	0.57
4:D:133:LEU:HD13	4:D:136:VAL:HG21	1.87	0.57
4:S:54:SER:H	4:S:57:ASN:ND2	2.03	0.57
4:V:133:LEU:HD13	4:V:136:VAL:HG21	1.87	0.57
1:n:69:VAL:O	1:n:73:GLY:N	2.33	0.57
4:G:130:LYS:NZ	4:G:247:ASP:OD2	2.36	0.57
4:C:12:PHE:HB3	4:a:352:ILE:HG13	1.85	0.57
1:F:191:LYS:HE2	1:F:209:VAL:HB	1.87	0.57
1:o:1:MET:SD	1:o:2:TYR:N	2.78	0.57
4:h:25:ARG:HH11	4:h:248:ILE:HD13	1.70	0.57
1:R:11:LYS:HB2	1:R:38:ASN:ND2	2.19	0.57
4:f:25:ARG:HH11	4:f:248:ILE:HD13	1.70	0.57
1:O:53:LYS:O	1:O:57:ILE:N	2.38	0.57
4:W:118:ILE:HG23	4:W:129:VAL:HG23	1.86	0.57
1:K:1:MET:SD	1:K:2:TYR:N	2.78	0.57
1:B:76:ARG:HG3	1:B:169:GLU:HG2	1.87	0.57
1:m:206:ASN:HB3	1:m:224:PHE:HB2	1.87	0.57
4:V:32:LEU:HD11	4:V:105:LYS:HG2	1.85	0.57
4:V:118:ILE:HG23	4:V:129:VAL:HG23	1.87	0.57
4:W:32:LEU:HD22	4:W:104:PRO:HG2	1.85	0.57
4:W:181:THR:HG21	4:W:221:ARG:NH1	2.20	0.57
1:F:53:LYS:O	1:F:57:ILE:N	2.38	0.57
4:a:54:SER:H	4:a:57:ASN:ND2	2.03	0.57
4:C:349:ASP:HB2	4:D:334:PHE:HA	1.87	0.57
4:G:122:ARG:HG2	4:G:128:LYS:HA	1.87	0.57
3:l:30:TRP:HB3	3:l:37:PRO:HA	1.87	0.57
4:U:349:ASP:HB2	4:X:334:PHE:HA	1.87	0.57
1:R:236:ILE:HD11	1:R:257:THR:HB	1.86	0.57
1:B:53:LYS:O	1:B:57:ILE:N	2.38	0.57
1:O:76:ARG:HG3	1:O:169:GLU:HG2	1.87	0.57
1:n:1:MET:SD	1:n:2:TYR:N	2.78	0.57
4:G:54:SER:H	4:G:57:ASN:ND2	2.02	0.57
1:F:11:LYS:HB2	1:F:38:ASN:ND2	2.19	0.57
4:U:54:SER:H	4:U:57:ASN:ND2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:32:LEU:HD22	4:X:104:PRO:HG2	1.86	0.57
4:b:133:LEU:HD13	4:b:136:VAL:HG21	1.87	0.57
4:D:181:THR:HG21	4:D:221:ARG:NH1	2.20	0.56
4:f:221:ARG:NH1	4:g:6:PRO:O	2.38	0.56
4:f:329:THR:CG2	4:f:329:THR:O	2.53	0.56
4:W:32:LEU:HD11	4:W:105:LYS:HG2	1.85	0.56
4:W:133:LEU:HD13	4:W:136:VAL:HG21	1.87	0.56
1:Q:76:ARG:HG3	1:Q:169:GLU:HG2	1.87	0.56
1:K:206:ASN:HB3	1:K:224:PHE:HB2	1.87	0.56
4:H:133:LEU:HD13	4:H:136:VAL:HG21	1.87	0.56
4:H:181:THR:HG21	4:H:221:ARG:NH1	2.20	0.56
4:b:257:ILE:HA	4:b:261:TYR:HD2	1.70	0.56
1:v:206:ASN:HB3	1:v:224:PHE:HB2	1.86	0.56
4:C:38:LEU:HD23	4:C:80:ILE:HG13	1.87	0.56
4:S:122:ARG:HG2	4:S:128:LYS:HA	1.87	0.56
1:n:18:ILE:HG22	1:n:20:LEU:HD22	1.87	0.56
1:Q:53:LYS:O	1:Q:57:ILE:N	2.38	0.56
4:H:181:THR:HG23	4:H:221:ARG:HA	1.87	0.56
1:F:179:TYR:HB3	1:F:183:ARG:NH1	2.18	0.56
4:X:133:LEU:HD13	4:X:136:VAL:HG21	1.86	0.56
3:d:114:ASN:O	3:d:130:LYS:N	2.31	0.56
4:a:32:LEU:HD13	4:a:104:PRO:HG2	1.87	0.56
4:D:184:LYS:HA	4:D:218:ARG:HG2	1.87	0.56
4:D:257:ILE:HA	4:D:261:TYR:HD2	1.70	0.56
4:S:32:LEU:HD13	4:S:104:PRO:HG2	1.87	0.56
4:V:181:THR:HG21	4:V:221:ARG:NH1	2.20	0.56
4:g:25:ARG:HH11	4:g:248:ILE:HD13	1.70	0.56
4:T:349:ASP:HB2	4:W:334:PHE:HA	1.87	0.56
2:N:80:ARG:HH22	1:R:193:HIS:HE1	1.53	0.56
4:h:37:ALA:HB3	4:h:79:VAL:HG11	1.88	0.56
4:U:347:ASP:HB2	4:a:8:ILE:H	1.71	0.56
1:e:1:MET:SD	1:e:2:TYR:N	2.78	0.56
4:b:166:ARG:HH12	4:b:170:LEU:HB2	1.70	0.56
4:b:181:THR:HG21	4:b:221:ARG:NH1	2.20	0.56
1:Z:53:LYS:O	1:Z:57:ILE:N	2.38	0.56
1:B:54:MET:HE1	1:B:60:THR:HB	1.87	0.56
4:V:181:THR:HG23	4:V:221:ARG:HA	1.88	0.56
1:O:236:ILE:HD11	1:O:257:THR:HB	1.87	0.56
4:g:329:THR:CG2	4:g:329:THR:O	2.53	0.56
4:H:257:ILE:HA	4:H:261:TYR:HD2	1.70	0.56
1:Z:11:LYS:HB2	1:Z:38:ASN:ND2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:38:LEU:HD23	4:S:80:ILE:HG13	1.88	0.56
4:T:122:ARG:HG2	4:T:128:LYS:HA	1.86	0.56
4:I:37:ALA:HB3	4:I:79:VAL:HG11	1.88	0.56
4:H:184:LYS:HA	4:H:218:ARG:HG2	1.87	0.56
4:X:184:LYS:HA	4:X:218:ARG:HG2	1.87	0.56
1:R:191:LYS:HE2	1:R:209:VAL:HB	1.87	0.56
1:R:299:ILE:HD11	1:R:329:ILE:HB	1.88	0.56
4:a:38:LEU:HD23	4:a:80:ILE:HG13	1.88	0.56
4:a:122:ARG:HG2	4:a:128:LYS:HA	1.86	0.56
2:A:80:ARG:HH22	1:B:193:HIS:HE1	1.53	0.56
4:P:6:PRO:O	4:c:221:ARG:NH1	2.38	0.56
4:P:25:ARG:HH11	4:P:248:ILE:HD13	1.70	0.56
4:T:54:SER:H	4:T:57:ASN:ND2	2.04	0.56
1:Q:179:TYR:HB3	1:Q:183:ARG:NH1	2.18	0.56
1:F:76:ARG:HG3	1:F:169:GLU:HG2	1.87	0.56
1:o:206:ASN:HB3	1:o:224:PHE:HB2	1.87	0.56
1:o:302:THR:HA	1:o:305:MET:HG3	1.88	0.56
4:U:125:ASP:OD1	4:U:254:ARG:NH1	2.39	0.56
4:X:59:GLU:OE2	4:X:158:TYR:OH	2.22	0.56
2:Y:80:ARG:HH22	1:Z:193:HIS:HE1	1.54	0.56
4:a:352:ILE:HG22	4:b:337:ALA:HB3	1.87	0.56
4:b:181:THR:HG23	4:b:221:ARG:HA	1.87	0.56
4:P:329:THR:CG2	4:P:329:THR:O	2.53	0.56
4:W:181:THR:HG23	4:W:221:ARG:HA	1.88	0.56
4:H:59:GLU:OE2	4:H:158:TYR:OH	2.22	0.56
4:X:181:THR:HG21	4:X:221:ARG:NH1	2.20	0.56
4:P:200:GLU:HG3	4:f:6:PRO:HD2	1.88	0.56
4:C:184:LYS:HA	4:C:218:ARG:HG2	1.88	0.56
1:B:300:ILE:HB	1:B:303:LYS:HG3	1.87	0.56
4:S:125:ASP:OD1	4:S:254:ARG:NH1	2.39	0.56
1:F:236:ILE:HD11	1:F:257:THR:HB	1.86	0.56
1:Z:54:MET:HE1	1:Z:60:THR:HB	1.87	0.56
1:Z:191:LYS:HE2	1:Z:209:VAL:HB	1.87	0.56
1:m:1:MET:SD	1:m:2:TYR:N	2.78	0.56
1:m:68:ARG:NH1	1:m:71:GLU:OE1	2.39	0.56
3:k:30:TRP:HB3	3:k:37:PRO:HA	1.87	0.56
4:T:38:LEU:HD23	4:T:80:ILE:HG13	1.88	0.56
1:K:22:ILE:HA	3:J:26:ARG:HB3	1.88	0.56
4:G:125:ASP:OD1	4:G:254:ARG:NH1	2.39	0.56
1:v:18:ILE:HG22	1:v:20:LEU:HD22	1.88	0.56
4:C:347:ASP:HB2	4:S:8:ILE:H	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:32:LEU:HD13	4:G:104:PRO:HG2	1.87	0.56
4:U:27:ILE:HG13	4:U:74:LYS:HB2	1.88	0.56
1:R:76:ARG:HG3	1:R:169:GLU:HG2	1.87	0.56
4:C:191:ILE:HG23	4:C:217:ILE:HD13	1.89	0.55
4:g:37:ALA:HB3	4:g:79:VAL:HG11	1.88	0.55
4:T:125:ASP:OD1	4:T:254:ARG:NH1	2.39	0.55
1:Q:206:ASN:HB2	1:Q:224:PHE:HB2	1.89	0.55
4:I:25:ARG:HH11	4:I:248:ILE:HD13	1.70	0.55
4:U:32:LEU:HD13	4:U:104:PRO:HG2	1.87	0.55
4:U:38:LEU:HD23	4:U:80:ILE:HG13	1.88	0.55
4:U:191:ILE:HG23	4:U:217:ILE:HD13	1.89	0.55
4:c:329:THR:CG2	4:c:329:THR:O	2.53	0.55
4:b:59:GLU:OE2	4:b:158:TYR:OH	2.22	0.55
1:Z:299:ILE:HD11	1:Z:329:ILE:HB	1.88	0.55
1:v:293:ARG:O	1:v:296:ARG:NH2	2.40	0.55
4:D:118:ILE:HG23	4:D:129:VAL:HG23	1.87	0.55
4:D:181:THR:HG23	4:D:221:ARG:HA	1.88	0.55
4:T:27:ILE:HG13	4:T:74:LYS:HB2	1.88	0.55
4:T:114:ILE:O	4:T:118:ILE:HG12	2.07	0.55
4:W:257:ILE:HA	4:W:261:TYR:HD2	1.70	0.55
1:o:68:ARG:NH1	1:o:71:GLU:OE1	2.39	0.55
1:R:300:ILE:HB	1:R:303:LYS:HG3	1.88	0.55
3:d:30:TRP:HB3	3:d:37:PRO:HA	1.87	0.55
4:a:59:GLU:OE2	4:a:158:TYR:OH	2.23	0.55
2:M:80:ARG:HH22	1:Q:193:HIS:HE1	1.53	0.55
1:K:68:ARG:NH1	1:K:71:GLU:OE1	2.39	0.55
4:G:38:LEU:HD23	4:G:80:ILE:HG13	1.88	0.55
4:X:257:ILE:HA	4:X:261:TYR:HD2	1.70	0.55
1:e:68:ARG:NH1	1:e:71:GLU:OE1	2.39	0.55
4:c:37:ALA:HB3	4:c:79:VAL:HG11	1.88	0.55
4:b:184:LYS:HA	4:b:218:ARG:HG2	1.87	0.55
1:v:1:MET:SD	1:v:2:TYR:N	2.78	0.55
1:m:69:VAL:O	1:m:73:GLY:N	2.33	0.55
4:T:347:ASP:HB2	4:G:8:ILE:H	1.71	0.55
4:W:184:LYS:HA	4:W:218:ARG:HG2	1.87	0.55
1:Q:191:LYS:HE2	1:Q:209:VAL:HB	1.87	0.55
4:G:114:ILE:O	4:G:118:ILE:HG12	2.06	0.55
1:F:206:ASN:HB2	1:F:224:PHE:HB2	1.88	0.55
1:e:22:ILE:HA	3:d:26:ARG:HB3	1.89	0.55
4:a:27:ILE:HG13	4:a:74:LYS:HB2	1.88	0.55
1:B:191:LYS:HE2	1:B:209:VAL:HB	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:18:ILE:HG22	1:m:20:LEU:HD22	1.88	0.55
4:S:30:MET:HB3	4:S:77:VAL:HA	1.88	0.55
4:V:184:LYS:HA	4:V:218:ARG:HG2	1.87	0.55
4:V:257:ILE:HA	4:V:261:TYR:HD2	1.71	0.55
1:n:68:ARG:NH1	1:n:71:GLU:OE1	2.40	0.55
1:K:293:ARG:O	1:K:296:ARG:NH2	2.40	0.55
2:E:80:ARG:HH22	1:F:193:HIS:HE1	1.54	0.55
4:X:118:ILE:HG23	4:X:129:VAL:HG23	1.87	0.55
1:e:206:ASN:HB3	1:e:224:PHE:HB2	1.87	0.55
4:b:118:ILE:HG23	4:b:129:VAL:HG23	1.87	0.55
1:Z:206:ASN:HB2	1:Z:224:PHE:HB2	1.89	0.55
1:v:68:ARG:NH1	1:v:71:GLU:OE1	2.40	0.55
3:j:30:TRP:HB3	3:j:37:PRO:HA	1.87	0.55
4:C:125:ASP:OD1	4:C:254:ARG:NH1	2.39	0.55
4:S:114:ILE:O	4:S:118:ILE:HG12	2.07	0.55
4:G:27:ILE:HG13	4:G:74:LYS:HB2	1.88	0.55
4:h:118:ILE:HG23	4:h:129:VAL:HG23	1.89	0.55
4:U:176:LEU:O	4:U:241:LYS:NZ	2.31	0.55
2:A:63:GLU:HG2	2:A:69:ARG:HE	1.72	0.55
1:B:299:ILE:HD11	1:B:329:ILE:HB	1.88	0.55
3:i:30:TRP:HB3	3:i:37:PRO:HA	1.87	0.55
1:O:191:LYS:HE2	1:O:209:VAL:HB	1.87	0.55
1:O:206:ASN:HB2	1:O:224:PHE:HB2	1.89	0.55
4:W:166:ARG:HH12	4:W:170:LEU:HB2	1.71	0.55
1:Q:300:ILE:HB	1:Q:303:LYS:HG3	1.87	0.55
1:F:299:ILE:HD11	1:F:329:ILE:HB	1.88	0.55
1:Z:270:LYS:N	1:Z:316:ASP:O	2.26	0.55
1:m:22:ILE:HA	3:i:26:ARG:HB3	1.89	0.55
1:n:22:ILE:HA	3:k:26:ARG:HB3	1.89	0.55
3:k:121:ASN:H	4:g:345:MET:HE1	1.72	0.55
4:g:353:GLU:HA	4:I:15:LEU:H	1.72	0.55
4:T:184:LYS:HA	4:T:218:ARG:HG2	1.89	0.55
1:v:69:VAL:O	1:v:73:GLY:N	2.33	0.55
4:P:118:ILE:HG23	4:P:129:VAL:HG23	1.89	0.55
3:i:115:VAL:HG22	3:i:129:VAL:HG13	1.89	0.55
4:S:184:LYS:HA	4:S:218:ARG:HG2	1.89	0.55
1:Q:236:ILE:HD11	1:Q:257:THR:HB	1.87	0.55
3:J:30:TRP:HB3	3:J:37:PRO:HA	1.87	0.55
1:o:18:ILE:HG22	1:o:20:LEU:HD22	1.87	0.55
4:h:329:THR:O	4:h:329:THR:HG22	2.06	0.55
4:U:30:MET:HB3	4:U:77:VAL:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:a:269:TYR:HA	4:a:272:LYS:HE2	1.89	0.55
1:v:22:ILE:HA	3:j:26:ARG:HB3	1.89	0.55
4:P:353:GLU:HA	4:f:15:LEU:H	1.72	0.55
1:B:94:THR:HG21	1:B:152:GLY:HA3	1.89	0.55
4:f:118:ILE:HG23	4:f:129:VAL:HG23	1.89	0.55
4:V:272:LYS:HZ3	4:V:333:VAL:HG13	1.72	0.55
4:g:200:GLU:HG3	4:I:6:PRO:HD2	1.89	0.55
4:I:306:LYS:O	4:I:310:LYS:HG2	2.08	0.55
4:G:179:SER:N	4:H:263:GLY:O	2.39	0.55
4:X:181:THR:HG23	4:X:221:ARG:HA	1.88	0.55
3:d:115:VAL:HG22	3:d:129:VAL:HG13	1.89	0.55
4:a:30:MET:HB3	4:a:77:VAL:HA	1.88	0.55
4:f:306:LYS:O	4:f:310:LYS:HG2	2.07	0.54
4:T:30:MET:HB3	4:T:77:VAL:HA	1.88	0.54
3:J:115:VAL:HG22	3:J:129:VAL:HG13	1.89	0.54
4:I:118:ILE:HG23	4:I:129:VAL:HG23	1.89	0.54
4:G:34:ASP:OD2	4:G:57:ASN:ND2	2.41	0.54
4:U:130:LYS:HZ1	4:U:244:ASP:HA	1.72	0.54
4:X:38:LEU:HD23	4:X:80:ILE:HG13	1.89	0.54
2:Y:63:GLU:HG2	2:Y:69:ARG:HE	1.73	0.54
4:a:191:ILE:HG23	4:a:217:ILE:HD13	1.89	0.54
2:L:63:GLU:HG2	2:L:69:ARG:HE	1.73	0.54
2:L:80:ARG:HH22	1:O:193:HIS:HE1	1.53	0.54
4:f:37:ALA:HB3	4:f:79:VAL:HG11	1.88	0.54
4:S:191:ILE:HG23	4:S:217:ILE:HD13	1.89	0.54
4:V:38:LEU:HD23	4:V:80:ILE:HG13	1.89	0.54
1:O:208:LYS:HB2	1:O:222:LEU:HB3	1.88	0.54
4:W:345:MET:HE2	4:W:348:ILE:HG12	1.89	0.54
1:Q:299:ILE:HD11	1:Q:329:ILE:HB	1.88	0.54
4:G:191:ILE:HG23	4:G:217:ILE:HD13	1.89	0.54
4:H:38:LEU:HD23	4:H:80:ILE:HG13	1.89	0.54
1:F:208:LYS:HB2	1:F:222:LEU:HB3	1.89	0.54
4:U:184:LYS:HA	4:U:218:ARG:HG2	1.89	0.54
1:R:208:LYS:HB2	1:R:222:LEU:HB3	1.89	0.54
1:v:302:THR:HA	1:v:305:MET:HG3	1.89	0.54
3:j:87:TYR:HD2	3:j:92:THR:HG23	1.73	0.54
4:P:306:LYS:O	4:P:310:LYS:HG2	2.08	0.54
4:C:39:GLY:N	4:C:79:VAL:O	2.37	0.54
4:g:118:ILE:HG23	4:g:129:VAL:HG23	1.89	0.54
4:W:59:GLU:OE2	4:W:158:TYR:OH	2.22	0.54
2:E:63:GLU:HG2	2:E:69:ARG:HE	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:329:THR:HG22	4:I:329:THR:O	2.06	0.54
1:F:54:MET:HE1	1:F:60:THR:HB	1.87	0.54
1:o:22:ILE:HA	3:l:26:ARG:HB3	1.89	0.54
3:l:87:TYR:HD2	3:l:92:THR:HG23	1.72	0.54
4:a:125:ASP:OD1	4:a:254:ARG:NH1	2.39	0.54
2:M:63:GLU:HG2	2:M:69:ARG:HE	1.73	0.54
4:W:208:LEU:HD21	4:W:219:ILE:HD12	1.89	0.54
1:Q:316:ASP:OD2	1:K:328:ASN:ND2	2.41	0.54
4:G:30:MET:HB3	4:G:77:VAL:HA	1.89	0.54
4:H:80:ILE:HD13	4:H:88:THR:HG21	1.90	0.54
3:d:121:ASN:H	4:c:345:MET:HE1	1.71	0.54
1:Z:94:THR:HG21	1:Z:152:GLY:HA3	1.90	0.54
4:P:37:ALA:HB3	4:P:79:VAL:HG11	1.88	0.54
4:D:38:LEU:HD23	4:D:80:ILE:HG13	1.89	0.54
4:T:191:ILE:HG23	4:T:217:ILE:HD13	1.89	0.54
4:W:38:LEU:HD23	4:W:80:ILE:HG13	1.89	0.54
1:K:29:PHE:O	1:K:33:MET:HG2	2.08	0.54
1:F:10:ILE:HD12	1:F:41:LEU:HD23	1.90	0.54
1:R:94:THR:HG21	1:R:152:GLY:HA3	1.90	0.54
1:R:206:ASN:HB2	1:R:224:PHE:HB2	1.89	0.54
1:B:206:ASN:HB2	1:B:224:PHE:HB2	1.88	0.54
1:m:261:ILE:O	1:m:338:SER:N	2.41	0.54
4:V:166:ARG:HH12	4:V:170:LEU:HB2	1.73	0.54
4:W:80:ILE:HD13	4:W:88:THR:HG21	1.89	0.54
1:Q:54:MET:HE1	1:Q:60:THR:HB	1.87	0.54
4:H:229:LEU:HG	4:H:238:GLN:HG2	1.90	0.54
1:F:94:THR:HG21	1:F:152:GLY:HA3	1.90	0.54
4:h:200:GLU:HG3	4:c:6:PRO:HD2	1.89	0.54
4:h:306:LYS:O	4:h:310:LYS:HG2	2.08	0.54
4:U:269:TYR:HA	4:U:272:LYS:HE2	1.89	0.54
4:X:166:ARG:HH12	4:X:170:LEU:HB2	1.73	0.54
1:R:316:ASP:OD2	1:e:328:ASN:ND2	2.40	0.54
4:a:114:ILE:O	4:a:118:ILE:HG12	2.07	0.54
4:a:184:LYS:HA	4:a:218:ARG:HG2	1.90	0.54
1:B:208:LYS:HB2	1:B:222:LEU:HB3	1.89	0.54
3:k:87:TYR:HD2	3:k:92:THR:HG23	1.73	0.54
4:b:38:LEU:HD23	4:b:80:ILE:HG13	1.89	0.54
1:m:174:LEU:HD12	1:m:177:ARG:HD3	1.90	0.54
4:g:306:LYS:O	4:g:310:LYS:HG2	2.07	0.54
4:G:269:TYR:HA	4:G:272:LYS:HE2	1.89	0.54
4:H:166:ARG:HH12	4:H:170:LEU:HB2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:20:LEU:HB2	1:F:24:LYS:HE3	1.90	0.54
4:h:353:GLU:HA	4:c:15:LEU:H	1.72	0.54
4:U:179:SER:N	4:X:263:GLY:O	2.40	0.54
4:X:80:ILE:HD13	4:X:88:THR:HG21	1.89	0.54
1:e:174:LEU:HD12	1:e:177:ARG:HD3	1.90	0.54
1:e:293:ARG:O	1:e:296:ARG:NH2	2.41	0.54
4:c:118:ILE:HG23	4:c:129:VAL:HG23	1.89	0.54
1:v:174:LEU:HD12	1:v:177:ARG:HD3	1.90	0.54
4:C:269:TYR:HA	4:C:272:LYS:HE2	1.89	0.54
1:m:86:VAL:HG12	1:m:158:ASN:HB3	1.90	0.54
2:L:81:GLY:HA2	1:O:188:SER:H	1.73	0.54
4:S:27:ILE:HG13	4:S:74:LYS:HB2	1.88	0.54
4:S:34:ASP:OD2	4:S:57:ASN:ND2	2.41	0.54
4:T:33:LYS:HE3	4:T:105:LYS:HG3	1.89	0.54
1:Q:208:LYS:HB2	1:Q:222:LEU:HB3	1.89	0.54
1:R:10:ILE:HD12	1:R:41:LEU:HD23	1.90	0.54
4:c:306:LYS:O	4:c:310:LYS:HG2	2.07	0.54
4:P:332:LYS:HG2	4:D:347:ASP:HB2	1.90	0.54
4:C:30:MET:HB3	4:C:77:VAL:HA	1.90	0.54
4:C:34:ASP:OD2	4:C:57:ASN:ND2	2.41	0.54
4:D:166:ARG:HH12	4:D:170:LEU:HB2	1.73	0.54
2:N:63:GLU:HG2	2:N:69:ARG:HE	1.73	0.54
3:l:114:ASN:O	3:l:130:LYS:N	2.31	0.54
1:e:18:ILE:HG22	1:e:20:LEU:HD22	1.89	0.54
4:a:34:ASP:OD2	4:a:57:ASN:ND2	2.41	0.54
4:b:208:LEU:HD21	4:b:219:ILE:HD12	1.90	0.54
4:S:269:TYR:HA	4:S:272:LYS:HE2	1.89	0.53
1:Q:94:THR:HG21	1:Q:152:GLY:HA3	1.90	0.53
1:K:174:LEU:HD12	1:K:177:ARG:HD3	1.90	0.53
4:H:118:ILE:HG23	4:H:129:VAL:HG23	1.88	0.53
1:o:174:LEU:HD12	1:o:177:ARG:HD3	1.90	0.53
1:R:80:THR:N	1:R:166:THR:OG1	2.39	0.53
3:d:131:VAL:HG23	4:c:352:ILE:HD11	1.90	0.53
4:P:320:THR:HG22	4:P:322:GLN:H	1.72	0.53
4:C:178:GLN:O	4:C:241:LYS:NZ	2.32	0.53
1:B:10:ILE:HD12	1:B:41:LEU:HD23	1.90	0.53
1:m:102:ILE:HG22	1:m:146:LEU:HD23	1.90	0.53
1:m:293:ARG:O	1:m:296:ARG:NH2	2.41	0.53
3:i:131:VAL:HG23	4:f:352:ILE:HD11	1.91	0.53
1:O:94:THR:HG21	1:O:152:GLY:HA3	1.90	0.53
1:O:276:THR:OG1	1:O:278:ASP:OD1	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:6:LYS:O	3:k:68:HIS:ND1	2.42	0.53
1:Q:10:ILE:HD12	1:Q:41:LEU:HD23	1.90	0.53
4:G:184:LYS:HA	4:G:218:ARG:HG2	1.90	0.53
4:U:34:ASP:OD2	4:U:57:ASN:ND2	2.41	0.53
3:j:29:ALA:HB2	3:j:47:ILE:HG23	1.91	0.53
4:P:152:LEU:HG	4:P:157:LYS:HA	1.90	0.53
4:C:27:ILE:HG13	4:C:74:LYS:HB2	1.88	0.53
1:n:174:LEU:HD12	1:n:177:ARG:HD3	1.90	0.53
4:U:249:ILE:HG23	4:U:282:TYR:HE1	1.74	0.53
4:a:301:ASP:HB2	4:a:336:LYS:HB2	1.90	0.53
4:b:345:MET:HE2	4:b:348:ILE:HG12	1.89	0.53
1:v:261:ILE:O	1:v:338:SER:N	2.41	0.53
4:V:80:ILE:HD13	4:V:88:THR:HG21	1.89	0.53
4:V:229:LEU:HG	4:V:238:GLN:HG2	1.90	0.53
1:n:261:ILE:O	1:n:338:SER:N	2.41	0.53
1:K:102:ILE:HG22	1:K:146:LEU:HD23	1.90	0.53
1:o:293:ARG:O	1:o:296:ARG:NH2	2.41	0.53
3:l:115:VAL:HG22	3:l:129:VAL:HG13	1.91	0.53
4:P:63:LEU:HD23	4:P:166:ARG:HB2	1.91	0.53
4:D:208:LEU:HD21	4:D:219:ILE:HD12	1.90	0.53
1:B:20:LEU:HB2	1:B:24:LYS:HE3	1.91	0.53
1:O:10:ILE:HD12	1:O:41:LEU:HD23	1.90	0.53
3:k:114:ASN:O	3:k:130:LYS:N	2.31	0.53
3:k:115:VAL:HG22	3:k:129:VAL:HG13	1.90	0.53
1:o:102:ILE:HG22	1:o:146:LEU:HD23	1.90	0.53
1:R:20:LEU:HB2	1:R:24:LYS:HE3	1.91	0.53
1:R:276:THR:OG1	1:R:278:ASP:OD1	2.24	0.53
1:v:102:ILE:HG22	1:v:146:LEU:HD23	1.90	0.53
3:j:115:VAL:HG22	3:j:129:VAL:HG13	1.91	0.53
3:j:123:ASP:HA	4:P:345:MET:HG2	1.90	0.53
4:D:80:ILE:HD13	4:D:88:THR:HG21	1.89	0.53
2:L:6:LYS:O	3:i:68:HIS:ND1	2.42	0.53
4:V:59:GLU:OE2	4:V:158:TYR:OH	2.22	0.53
1:n:293:ARG:O	1:n:296:ARG:NH2	2.41	0.53
3:J:29:ALA:HB2	3:J:47:ILE:HG23	1.91	0.53
4:I:63:LEU:HD23	4:I:166:ARG:HB2	1.91	0.53
4:U:153:VAL:HG22	4:U:188:VAL:HG22	1.91	0.53
4:U:301:ASP:HB2	4:U:336:LYS:HB2	1.90	0.53
3:d:29:ALA:HB2	3:d:47:ILE:HG23	1.91	0.53
4:C:249:ILE:HG23	4:C:282:TYR:HE1	1.74	0.53
4:f:320:THR:HG22	4:f:322:GLN:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:178:GLN:O	4:S:241:LYS:NZ	2.32	0.53
1:O:20:LEU:HB2	1:O:24:LYS:HE3	1.91	0.53
1:n:86:VAL:HG12	1:n:158:ASN:HB3	1.90	0.53
4:I:320:THR:HG22	4:I:322:GLN:H	1.74	0.53
1:B:268:VAL:HG23	1:B:319:ASN:HD21	1.74	0.53
3:i:29:ALA:HB2	3:i:47:ILE:HG23	1.91	0.53
3:i:114:ASN:O	3:i:130:LYS:N	2.31	0.53
1:O:54:MET:HE1	1:O:60:THR:HB	1.89	0.53
2:M:81:GLY:HA2	1:Q:188:SER:H	1.74	0.53
4:T:269:TYR:HA	4:T:272:LYS:HE2	1.89	0.53
4:c:152:LEU:HG	4:c:157:LYS:HA	1.90	0.53
1:v:86:VAL:HG12	1:v:158:ASN:HB3	1.90	0.53
2:A:81:GLY:HA2	1:B:188:SER:H	1.74	0.53
3:i:118:ALA:HB1	3:i:125:LEU:HD11	1.91	0.53
1:K:208:LYS:NZ	1:K:209:VAL:O	2.39	0.53
2:N:81:GLY:HA2	1:R:188:SER:H	1.74	0.53
2:Y:135:VAL:HG13	1:Z:187:THR:HG21	1.91	0.53
2:A:135:VAL:HG13	1:B:187:THR:HG21	1.91	0.53
4:S:249:ILE:HG23	4:S:282:TYR:HE1	1.74	0.53
1:O:214:ASP:HB2	1:O:218:THR:HG21	1.91	0.53
1:Q:20:LEU:HB2	1:Q:24:LYS:HE3	1.91	0.53
1:Q:223:ILE:HD11	1:Q:236:ILE:HG12	1.91	0.53
2:N:6:LYS:O	3:l:68:HIS:ND1	2.42	0.53
1:R:213:TRP:CG	1:R:220:LYS:HB2	2.44	0.53
2:Y:81:GLY:HA2	1:Z:188:SER:H	1.73	0.53
4:b:229:LEU:HG	4:b:238:GLN:HG2	1.89	0.53
1:O:223:ILE:HD11	1:O:236:ILE:HG12	1.91	0.52
3:k:47:ILE:HD12	3:k:52:ALA:HA	1.91	0.52
1:K:18:ILE:HG22	1:K:20:LEU:HD22	1.90	0.52
1:K:261:ILE:O	1:K:338:SER:N	2.41	0.52
3:J:114:ASN:O	3:J:130:LYS:N	2.31	0.52
4:G:352:ILE:HG22	4:H:337:ALA:HB3	1.91	0.52
4:H:208:LEU:HD21	4:H:219:ILE:HD12	1.91	0.52
1:o:86:VAL:HG12	1:o:158:ASN:HB3	1.90	0.52
4:U:59:GLU:OE2	4:U:158:TYR:OH	2.27	0.52
1:e:38:ASN:HA	1:e:41:LEU:HD12	1.91	0.52
1:e:261:ILE:O	1:e:338:SER:N	2.41	0.52
4:c:40:LEU:HA	4:c:78:TYR:HA	1.92	0.52
1:Z:213:TRP:CG	1:Z:220:LYS:HB2	2.44	0.52
4:P:40:LEU:HA	4:P:78:TYR:HA	1.91	0.52
4:C:305:GLN:NE2	4:C:324:ILE:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:191:ILE:HG23	4:D:217:ILE:HD13	1.91	0.52
4:S:301:ASP:HB2	4:S:336:LYS:HB2	1.91	0.52
1:n:102:ILE:HG22	1:n:146:LEU:HD23	1.90	0.52
1:K:302:THR:HA	1:K:305:MET:HG3	1.91	0.52
4:I:152:LEU:HG	4:I:157:LYS:HA	1.90	0.52
1:R:214:ASP:HB2	1:R:218:THR:HG21	1.91	0.52
1:R:223:ILE:HD11	1:R:236:ILE:HG12	1.91	0.52
4:c:320:THR:HG22	4:c:322:GLN:H	1.74	0.52
4:a:153:VAL:HG22	4:a:188:VAL:HG22	1.92	0.52
4:D:39:GLY:N	4:D:79:VAL:O	2.40	0.52
4:D:59:GLU:OE2	4:D:158:TYR:OH	2.22	0.52
1:m:204:VAL:HG11	1:m:223:ILE:HD12	1.91	0.52
4:g:320:THR:HG22	4:g:322:GLN:H	1.73	0.52
4:I:40:LEU:HA	4:I:78:TYR:HA	1.91	0.52
4:G:49:ILE:HG21	4:G:58:LYS:HG3	1.91	0.52
1:R:54:MET:HE1	1:R:60:THR:HB	1.89	0.52
1:Z:10:ILE:HD12	1:Z:41:LEU:HD23	1.90	0.52
4:C:136:VAL:HG12	4:C:138:GLY:H	1.75	0.52
4:f:40:LEU:HA	4:f:78:TYR:HA	1.92	0.52
4:f:152:LEU:HG	4:f:157:LYS:HA	1.90	0.52
4:T:249:ILE:HG23	4:T:282:TYR:HE1	1.74	0.52
1:Q:268:VAL:HG23	1:Q:319:ASN:HD21	1.74	0.52
1:K:11:LYS:HA	1:K:38:ASN:HD22	1.74	0.52
2:E:135:VAL:HG13	1:F:187:THR:HG21	1.91	0.52
1:o:204:VAL:HG11	1:o:223:ILE:HD12	1.91	0.52
3:l:47:ILE:HD12	3:l:52:ALA:HA	1.92	0.52
4:h:152:LEU:HG	4:h:157:LYS:HA	1.90	0.52
4:h:320:THR:HG22	4:h:322:GLN:H	1.73	0.52
1:R:268:VAL:HG23	1:R:319:ASN:HD21	1.74	0.52
2:Y:6:LYS:O	3:d:68:HIS:ND1	2.42	0.52
1:Z:208:LYS:HB2	1:Z:222:LEU:HB3	1.89	0.52
1:Z:223:ILE:HD11	1:Z:236:ILE:HG12	1.91	0.52
4:C:59:GLU:OE2	4:C:158:TYR:OH	2.28	0.52
1:B:223:ILE:HD11	1:B:236:ILE:HG12	1.92	0.52
4:S:41:ASN:ND2	4:S:52:ASP:OD2	2.43	0.52
4:S:47:GLU:H	4:S:65:LEU:HD13	1.74	0.52
4:V:296:SER:HB2	4:V:338:LYS:HG3	1.92	0.52
1:O:316:ASP:OD2	1:n:328:ASN:ND2	2.41	0.52
4:g:40:LEU:HA	4:g:78:TYR:HA	1.92	0.52
4:T:301:ASP:HB2	4:T:336:LYS:HB2	1.90	0.52
2:E:81:GLY:HA2	1:F:188:SER:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:h:63:LEU:HD23	4:h:166:ARG:HB2	1.91	0.52
4:U:47:GLU:H	4:U:65:LEU:HD13	1.75	0.52
1:e:86:VAL:HG12	1:e:158:ASN:HB3	1.90	0.52
4:c:63:LEU:HD23	4:c:166:ARG:HB2	1.91	0.52
4:C:153:VAL:HG22	4:C:188:VAL:HG22	1.92	0.52
4:C:179:SER:N	4:D:263:GLY:O	2.40	0.52
1:B:214:ASP:HB2	1:B:218:THR:HG21	1.92	0.52
1:m:11:LYS:HA	1:m:38:ASN:HD22	1.75	0.52
4:f:63:LEU:HD23	4:f:166:ARG:HB2	1.91	0.52
4:S:347:ASP:HB2	4:T:8:ILE:HG12	1.91	0.52
4:g:332:LYS:HG2	4:W:347:ASP:HB2	1.92	0.52
4:T:47:GLU:H	4:T:65:LEU:HD13	1.75	0.52
1:K:86:VAL:HG12	1:K:158:ASN:HB3	1.90	0.52
4:G:41:ASN:ND2	4:G:52:ASP:OD2	2.43	0.52
4:G:249:ILE:HG23	4:G:282:TYR:HE1	1.74	0.52
1:F:300:ILE:HB	1:F:303:LYS:HG3	1.90	0.52
4:a:136:VAL:HG12	4:a:138:GLY:H	1.75	0.52
1:v:11:LYS:HA	1:v:38:ASN:HD22	1.75	0.52
1:m:302:THR:HA	1:m:305:MET:HG3	1.91	0.52
4:S:179:SER:N	4:V:263:GLY:O	2.40	0.52
2:M:135:VAL:HG13	1:Q:187:THR:HG21	1.92	0.52
4:W:191:ILE:HG23	4:W:217:ILE:HD13	1.92	0.52
2:E:52:MET:HG2	1:F:56:PHE:HB3	1.91	0.52
4:G:136:VAL:HG12	4:G:138:GLY:H	1.75	0.52
4:G:153:VAL:HG22	4:G:188:VAL:HG22	1.91	0.52
4:H:191:ILE:HG23	4:H:217:ILE:HD13	1.92	0.52
4:h:40:LEU:HA	4:h:78:TYR:HA	1.92	0.52
4:X:208:LEU:HD21	4:X:219:ILE:HD12	1.92	0.52
4:a:249:ILE:HG23	4:a:282:TYR:HE1	1.74	0.52
1:Z:214:ASP:HB2	1:Z:218:THR:HG21	1.91	0.52
1:v:80:THR:N	1:v:166:THR:OG1	2.42	0.52
4:C:301:ASP:HB2	4:C:336:LYS:HB2	1.90	0.52
2:L:135:VAL:HG13	1:O:187:THR:HG21	1.92	0.52
4:f:59:GLU:OE2	4:f:158:TYR:OH	2.25	0.52
1:n:38:ASN:HA	1:n:41:LEU:HD12	1.91	0.52
4:T:107:VAL:HG23	4:T:110:ASP:H	1.75	0.52
4:G:47:GLU:H	4:G:65:LEU:HD13	1.74	0.52
4:G:301:ASP:HB2	4:G:336:LYS:HB2	1.91	0.52
1:F:223:ILE:HD11	1:F:236:ILE:HG12	1.92	0.52
4:U:49:ILE:HG21	4:U:58:LYS:HG3	1.92	0.52
1:e:11:LYS:HA	1:e:38:ASN:HD22	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:a:47:GLU:H	4:a:65:LEU:HD13	1.75	0.52
4:a:179:SER:N	4:b:263:GLY:O	2.40	0.52
2:A:6:LYS:O	3:j:68:HIS:ND1	2.43	0.52
1:B:276:THR:OG1	1:B:278:ASP:OD1	2.24	0.52
1:m:38:ASN:HA	1:m:41:LEU:HD12	1.92	0.52
1:O:213:TRP:CG	1:O:220:LYS:HB2	2.44	0.52
1:K:270:LYS:N	1:K:316:ASP:O	2.32	0.52
1:o:11:LYS:HA	1:o:38:ASN:HD22	1.75	0.52
1:o:261:ILE:O	1:o:338:SER:N	2.41	0.52
4:X:191:ILE:HG23	4:X:217:ILE:HD13	1.91	0.52
1:e:204:VAL:HG11	1:e:223:ILE:HD12	1.91	0.52
1:e:270:LYS:N	1:e:316:ASP:O	2.32	0.52
4:c:146:PHE:HB3	4:c:164:THR:HG22	1.92	0.52
4:a:49:ILE:HG21	4:a:58:LYS:HG3	1.91	0.52
4:b:80:ILE:HD13	4:b:88:THR:HG21	1.90	0.52
4:b:166:ARG:NH1	4:b:170:LEU:HB2	2.25	0.52
1:B:213:TRP:CG	1:B:220:LYS:HB2	2.44	0.52
4:f:146:PHE:HB3	4:f:164:THR:HG22	1.92	0.52
4:S:153:VAL:HG22	4:S:188:VAL:HG22	1.92	0.52
4:g:63:LEU:HD23	4:g:166:ARG:HB2	1.91	0.52
4:g:203:VAL:HG11	4:I:6:PRO:HB3	1.92	0.52
1:F:213:TRP:CG	1:F:220:LYS:HB2	2.44	0.52
4:U:178:GLN:O	4:U:241:LYS:NZ	2.32	0.52
2:A:52:MET:HG2	1:B:56:PHE:HB3	1.91	0.51
4:C:41:ASN:ND2	4:C:52:ASP:OD2	2.44	0.51
4:C:352:ILE:HG22	4:D:337:ALA:HB3	1.91	0.51
1:m:20:LEU:HD12	1:O:29:PHE:HB2	1.92	0.51
4:V:191:ILE:HG23	4:V:217:ILE:HD13	1.92	0.51
1:n:204:VAL:HG11	1:n:223:ILE:HD12	1.91	0.51
2:E:6:LYS:O	3:J:68:HIS:ND1	2.43	0.51
4:U:41:ASN:ND2	4:U:52:ASP:OD2	2.43	0.51
4:U:126:LYS:O	4:U:128:LYS:NZ	2.39	0.51
1:v:20:LEU:HD12	1:B:29:PHE:HB2	1.91	0.51
4:C:107:VAL:HG23	4:C:110:ASP:H	1.75	0.51
1:Q:213:TRP:CG	1:Q:220:LYS:HB2	2.45	0.51
1:e:102:ILE:HG22	1:e:146:LEU:HD23	1.90	0.51
4:a:107:VAL:HG23	4:a:110:ASP:H	1.75	0.51
4:D:8:ILE:HG22	4:b:348:ILE:H	1.75	0.51
4:S:59:GLU:OE2	4:S:158:TYR:OH	2.28	0.51
4:S:107:VAL:HG23	4:S:110:ASP:H	1.76	0.51
1:O:67:LYS:O	1:O:71:GLU:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:g:178:GLN:O	4:g:241:LYS:NZ	2.44	0.51
4:T:352:ILE:HG22	4:W:337:ALA:HB3	1.93	0.51
4:U:107:VAL:HG23	4:U:110:ASP:H	1.75	0.51
4:c:301:ASP:HB3	4:c:334:PHE:HB3	1.91	0.51
4:a:41:ASN:ND2	4:a:52:ASP:OD2	2.44	0.51
1:Z:268:VAL:HG23	1:Z:319:ASN:HD21	1.75	0.51
4:W:166:ARG:NH1	4:W:170:LEU:HB2	2.25	0.51
1:Q:67:LYS:O	1:Q:71:GLU:HG3	2.11	0.51
1:K:204:VAL:HG11	1:K:223:ILE:HD12	1.91	0.51
4:H:348:ILE:H	4:X:8:ILE:HG22	1.75	0.51
1:F:80:THR:N	1:F:166:THR:OG1	2.39	0.51
1:F:214:ASP:HB2	1:F:218:THR:HG21	1.91	0.51
2:Y:52:MET:HG2	1:Z:56:PHE:HB3	1.92	0.51
1:Z:20:LEU:HB2	1:Z:24:LYS:HE3	1.92	0.51
1:v:38:ASN:HA	1:v:41:LEU:HD12	1.92	0.51
1:B:316:ASP:OD2	1:m:328:ASN:ND2	2.41	0.51
4:S:136:VAL:HG12	4:S:138:GLY:H	1.75	0.51
1:n:11:LYS:HA	1:n:38:ASN:HD22	1.75	0.51
4:T:46:LYS:HD2	4:T:71:THR:HG21	1.93	0.51
1:Q:276:THR:OG1	1:Q:278:ASP:OD1	2.24	0.51
1:F:268:VAL:HG23	1:F:319:ASN:HD21	1.76	0.51
1:o:20:LEU:HD12	1:R:29:PHE:HB2	1.92	0.51
4:h:146:PHE:HB3	4:h:164:THR:HG22	1.93	0.51
4:U:46:LYS:HD2	4:U:71:THR:HG21	1.93	0.51
4:U:136:VAL:HG12	4:U:138:GLY:H	1.75	0.51
1:e:244:ASP:HA	1:e:247:LYS:HD3	1.92	0.51
4:c:154:GLY:O	4:c:155:GLU:HG3	2.11	0.51
4:P:154:GLY:O	4:P:155:GLU:HG3	2.11	0.51
1:n:20:LEU:HD12	1:Q:29:PHE:HB2	1.92	0.51
4:g:146:PHE:HB3	4:g:164:THR:HG22	1.92	0.51
1:K:38:ASN:HA	1:K:41:LEU:HD12	1.91	0.51
1:K:244:ASP:HA	1:K:247:LYS:HD3	1.92	0.51
2:N:111:PHE:HB3	2:N:142:HIS:HA	1.93	0.51
2:N:135:VAL:HG13	1:R:187:THR:HG21	1.93	0.51
1:Z:300:ILE:HB	1:Z:303:LYS:HG3	1.91	0.51
4:S:224:ASN:HD21	4:S:229:LEU:HD21	1.76	0.51
4:g:152:LEU:HG	4:g:157:LYS:HA	1.91	0.51
1:Q:214:ASP:HB2	1:Q:218:THR:HG21	1.91	0.51
4:h:337:ALA:O	4:X:353:GLU:N	2.44	0.51
2:Y:139:HIS:HB2	1:Z:217:GLY:HA2	1.93	0.51
4:b:191:ILE:HG23	4:b:217:ILE:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:244:ASP:HA	1:v:247:LYS:HD3	1.92	0.51
4:P:203:VAL:HG11	4:f:6:PRO:HB3	1.92	0.51
4:C:49:ILE:HG21	4:C:58:LYS:HG3	1.92	0.51
1:B:67:LYS:O	1:B:71:GLU:HG3	2.10	0.51
1:n:300:ILE:HG22	1:n:303:LYS:H	1.76	0.51
4:T:153:VAL:HG22	4:T:188:VAL:HG22	1.92	0.51
4:I:309:LEU:HD11	4:I:324:ILE:HG23	1.93	0.51
4:G:107:VAL:HG23	4:G:110:ASP:H	1.76	0.51
2:N:139:HIS:HB2	1:R:217:GLY:HA2	1.93	0.51
4:h:154:GLY:O	4:h:155:GLU:HG3	2.11	0.51
4:h:332:LYS:HG2	4:X:347:ASP:HB2	1.93	0.51
1:e:80:THR:N	1:e:166:THR:OG1	2.42	0.51
4:c:59:GLU:OE2	4:c:158:TYR:OH	2.25	0.51
4:P:59:GLU:OE2	4:P:158:TYR:OH	2.25	0.51
4:P:337:ALA:O	4:D:353:GLU:N	2.44	0.51
2:L:111:PHE:HB3	2:L:142:HIS:HA	1.93	0.51
4:S:46:LYS:HD2	4:S:71:THR:HG21	1.93	0.51
4:S:49:ILE:HG21	4:S:58:LYS:HG3	1.92	0.51
4:V:208:LEU:HD21	4:V:219:ILE:HD12	1.91	0.51
4:g:24:ALA:HA	4:g:27:ILE:HD11	1.93	0.51
4:g:337:ALA:O	4:W:353:GLU:N	2.44	0.51
4:T:136:VAL:HG12	4:T:138:GLY:H	1.75	0.51
4:a:46:LYS:HD2	4:a:71:THR:HG21	1.93	0.51
1:m:270:LYS:N	1:m:316:ASP:O	2.32	0.51
4:f:301:ASP:HB3	4:f:334:PHE:HB3	1.92	0.51
4:f:309:LEU:HD11	4:f:324:ILE:HG23	1.93	0.51
4:T:41:ASN:ND2	4:T:52:ASP:OD2	2.43	0.51
4:W:348:ILE:H	4:H:8:ILE:HG22	1.76	0.51
4:G:178:GLN:O	4:G:241:LYS:NZ	2.32	0.51
4:G:257:ILE:HA	4:G:261:TYR:HD2	1.76	0.51
1:o:38:ASN:HA	1:o:41:LEU:HD12	1.91	0.51
1:Z:67:LYS:O	1:Z:71:GLU:HG3	2.11	0.51
1:v:204:VAL:HG11	1:v:223:ILE:HD12	1.91	0.50
2:A:111:PHE:HB3	2:A:142:HIS:HA	1.92	0.50
4:D:315:ASP:O	4:D:319:MET:HE1	2.11	0.50
4:S:305:GLN:NE2	4:S:324:ILE:O	2.44	0.50
2:M:52:MET:HG2	1:Q:56:PHE:HB3	1.92	0.50
4:H:32:LEU:HD13	4:H:104:PRO:HD2	1.93	0.50
1:R:67:LYS:O	1:R:71:GLU:HG3	2.11	0.50
1:e:302:THR:HA	1:e:305:MET:HG3	1.92	0.50
4:a:305:GLN:NE2	4:a:324:ILE:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:b:39:GLY:N	4:b:79:VAL:O	2.40	0.50
4:C:47:GLU:H	4:C:65:LEU:HD13	1.75	0.50
4:C:68:ASN:ND2	4:C:174:THR:OG1	2.40	0.50
4:D:166:ARG:NH1	4:D:170:LEU:HB2	2.26	0.50
4:S:349:ASP:HB2	4:T:8:ILE:HG21	1.92	0.50
4:W:229:LEU:HG	4:W:238:GLN:HG2	1.94	0.50
1:K:11:LYS:HA	1:K:38:ASN:ND2	2.26	0.50
2:E:111:PHE:HB3	2:E:142:HIS:HA	1.92	0.50
4:I:146:PHE:HB3	4:I:164:THR:HG22	1.93	0.50
4:I:301:ASP:HB3	4:I:334:PHE:HB3	1.92	0.50
4:G:46:LYS:HD2	4:G:71:THR:HG21	1.93	0.50
4:P:146:PHE:HB3	4:P:164:THR:HG22	1.93	0.50
1:m:11:LYS:HA	1:m:38:ASN:ND2	2.26	0.50
4:S:53:LEU:HD13	4:S:61:ILE:HD11	1.93	0.50
4:V:32:LEU:HD13	4:V:104:PRO:HD2	1.93	0.50
1:K:20:LEU:HD12	1:F:29:PHE:HB2	1.92	0.50
4:I:178:GLN:O	4:I:241:LYS:NZ	2.45	0.50
4:H:315:ASP:O	4:H:319:MET:HE1	2.12	0.50
4:U:53:LEU:HD13	4:U:61:ILE:HD11	1.93	0.50
1:e:20:LEU:HD12	1:Z:29:PHE:HB2	1.92	0.50
1:v:300:ILE:HG22	1:v:303:LYS:H	1.76	0.50
4:f:154:GLY:O	4:f:155:GLU:HG3	2.11	0.50
4:f:178:GLN:O	4:f:241:LYS:NZ	2.45	0.50
4:S:39:GLY:N	4:S:79:VAL:O	2.37	0.50
4:V:39:GLY:N	4:V:79:VAL:O	2.40	0.50
1:O:299:ILE:HD11	1:O:329:ILE:HB	1.91	0.50
4:g:309:LEU:HD11	4:g:324:ILE:HG23	1.94	0.50
4:T:221:ARG:HH12	4:T:346:GLU:CD	2.20	0.50
1:F:67:LYS:O	1:F:71:GLU:HG3	2.10	0.50
4:U:221:ARG:HH12	4:U:346:GLU:CD	2.19	0.50
1:Z:80:THR:N	1:Z:166:THR:OG1	2.39	0.50
4:D:127:VAL:HG22	4:D:254:ARG:HH12	1.77	0.50
1:n:11:LYS:HA	1:n:38:ASN:ND2	2.27	0.50
4:I:55:ALA:HA	4:I:58:LYS:HE2	1.93	0.50
1:o:244:ASP:HA	1:o:247:LYS:HD3	1.92	0.50
4:U:352:ILE:HG22	4:X:337:ALA:HB3	1.93	0.50
1:v:263:ILE:N	1:v:338:SER:O	2.45	0.50
1:v:288:ILE:HD11	1:v:304:VAL:HG22	1.94	0.50
1:n:244:ASP:HA	1:n:247:LYS:HD3	1.92	0.50
2:E:139:HIS:HB2	1:F:217:GLY:HA2	1.93	0.50
3:J:131:VAL:HG23	4:I:352:ILE:HD11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:154:GLY:O	4:I:155:GLU:HG3	2.11	0.50
4:h:203:VAL:HG11	4:c:6:PRO:HB3	1.92	0.50
4:U:305:GLN:NE2	4:U:324:ILE:O	2.43	0.50
4:X:127:VAL:HG22	4:X:254:ARG:HH12	1.77	0.50
1:R:53:LYS:HG2	1:R:58:GLN:HE22	1.76	0.50
1:e:263:ILE:N	1:e:338:SER:O	2.45	0.50
4:c:55:ALA:HA	4:c:58:LYS:HE2	1.93	0.50
4:b:315:ASP:O	4:b:319:MET:HE1	2.12	0.50
2:A:139:HIS:HB2	1:B:217:GLY:HA2	1.93	0.50
4:D:32:LEU:HD13	4:D:104:PRO:HD2	1.93	0.50
1:m:263:ILE:N	1:m:338:SER:O	2.44	0.50
3:k:131:VAL:HG23	4:g:352:ILE:HD11	1.94	0.50
4:I:153:VAL:HG22	4:I:188:VAL:HG22	1.94	0.50
4:I:329:THR:HG23	4:I:334:PHE:CE2	2.24	0.50
4:G:53:LEU:HD13	4:G:61:ILE:HD11	1.93	0.50
4:G:349:ASP:HB2	4:U:8:ILE:HG21	1.94	0.50
3:l:131:VAL:HG23	4:h:352:ILE:HD11	1.93	0.50
3:d:118:ALA:HB1	3:d:125:LEU:HD11	1.92	0.50
4:c:229:LEU:HG	4:c:238:GLN:HG2	1.94	0.50
4:a:345:MET:SD	4:b:265:VAL:HG23	2.52	0.50
1:Z:57:ILE:HD11	1:Z:62:ASN:HB2	1.94	0.50
4:P:229:LEU:HG	4:P:238:GLN:HG2	1.93	0.50
1:m:80:THR:N	1:m:166:THR:OG1	2.42	0.50
4:f:24:ALA:HA	4:f:27:ILE:HD11	1.94	0.50
4:W:221:ARG:NH1	4:H:6:PRO:O	2.44	0.50
4:I:24:ALA:HA	4:I:27:ILE:HD11	1.93	0.50
1:o:300:ILE:HG22	1:o:303:LYS:H	1.75	0.50
4:X:315:ASP:O	4:X:319:MET:HE1	2.11	0.50
4:X:348:ILE:H	4:b:8:ILE:HG22	1.76	0.50
1:R:76:ARG:NH2	1:R:171:ASP:OD1	2.45	0.50
4:a:224:ASN:HD21	4:a:229:LEU:HD21	1.76	0.50
4:P:309:LEU:HD11	4:P:324:ILE:HG23	1.93	0.50
4:C:46:LYS:HD2	4:C:71:THR:HG21	1.93	0.50
4:C:221:ARG:HH12	4:C:346:GLU:CD	2.20	0.50
2:L:139:HIS:HB2	1:O:217:GLY:HA2	1.93	0.50
4:g:55:ALA:HA	4:g:58:LYS:HE2	1.93	0.50
4:g:154:GLY:O	4:g:155:GLU:HG3	2.11	0.50
4:h:178:GLN:O	4:h:241:LYS:NZ	2.45	0.50
4:c:24:ALA:HA	4:c:27:ILE:HD11	1.93	0.50
4:c:178:GLN:O	4:c:241:LYS:NZ	2.44	0.50
4:S:257:ILE:HA	4:S:261:TYR:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:263:ILE:N	1:n:338:SER:O	2.45	0.49
2:M:111:PHE:HB3	2:M:142:HIS:HA	1.94	0.49
4:g:153:VAL:HG22	4:g:188:VAL:HG22	1.94	0.49
4:g:210:LEU:HD22	4:g:217:ILE:HG22	1.94	0.49
1:Q:57:ILE:HD11	1:Q:62:ASN:HB2	1.94	0.49
1:F:305:MET:HB3	1:o:305:MET:HE1	1.94	0.49
4:X:32:LEU:HD13	4:X:104:PRO:HD2	1.93	0.49
4:c:210:LEU:HD22	4:c:217:ILE:HG22	1.94	0.49
1:Z:276:THR:OG1	1:Z:278:ASP:OD1	2.24	0.49
1:v:328:ASN:ND2	1:Z:316:ASP:OD2	2.44	0.49
4:P:178:GLN:O	4:P:241:LYS:NZ	2.45	0.49
1:m:244:ASP:HA	1:m:247:LYS:HD3	1.92	0.49
4:f:153:VAL:HG22	4:f:188:VAL:HG22	1.94	0.49
4:V:103:MET:HB3	4:V:106:ALA:HB2	1.94	0.49
4:V:166:ARG:NH1	4:V:170:LEU:HB2	2.27	0.49
4:T:178:GLN:O	4:T:241:LYS:NZ	2.32	0.49
1:o:11:LYS:HA	1:o:38:ASN:ND2	2.26	0.49
4:X:229:LEU:HG	4:X:238:GLN:HG2	1.94	0.49
1:v:11:LYS:HA	1:v:38:ASN:ND2	2.27	0.49
4:P:153:VAL:HG22	4:P:188:VAL:HG22	1.94	0.49
4:D:229:LEU:HG	4:D:238:GLN:HG2	1.94	0.49
1:B:6:THR:O	1:B:10:ILE:HG12	2.12	0.49
4:f:210:LEU:HD22	4:f:217:ILE:HG22	1.94	0.49
4:g:301:ASP:HB3	4:g:334:PHE:HB3	1.94	0.49
1:Q:76:ARG:NH2	1:Q:171:ASP:OD1	2.46	0.49
2:Y:111:PHE:HB3	2:Y:142:HIS:HA	1.94	0.49
4:a:53:LEU:HD13	4:a:61:ILE:HD11	1.92	0.49
3:j:131:VAL:HG23	4:P:352:ILE:HD11	1.93	0.49
4:C:8:ILE:HG21	4:a:349:ASP:HB2	1.94	0.49
4:D:103:MET:HB3	4:D:106:ALA:HB2	1.94	0.49
4:V:315:ASP:O	4:V:319:MET:HE1	2.12	0.49
1:O:5:GLN:OE1	1:O:13:ARG:NH2	2.45	0.49
4:g:280:LYS:NZ	4:g:296:SER:O	2.45	0.49
4:W:53:LEU:HD13	4:W:61:ILE:HD11	1.94	0.49
4:W:103:MET:HB3	4:W:106:ALA:HB2	1.94	0.49
1:o:263:ILE:N	1:o:338:SER:O	2.44	0.49
4:h:24:ALA:HA	4:h:27:ILE:HD11	1.93	0.49
4:h:55:ALA:HA	4:h:58:LYS:HE2	1.94	0.49
4:h:280:LYS:NZ	4:h:296:SER:O	2.45	0.49
4:h:309:LEU:HD11	4:h:324:ILE:HG23	1.94	0.49
4:X:166:ARG:NH1	4:X:170:LEU:HB2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:11:LYS:HA	1:e:38:ASN:ND2	2.27	0.49
4:c:309:LEU:HD11	4:c:324:ILE:HG23	1.94	0.49
4:a:257:ILE:HA	4:a:261:TYR:HD2	1.76	0.49
1:B:57:ILE:HD11	1:B:62:ASN:HB2	1.94	0.49
1:B:269:MET:N	1:B:345:SER:O	2.41	0.49
1:K:263:ILE:N	1:K:338:SER:O	2.45	0.49
1:R:86:VAL:HA	1:R:158:ASN:HA	1.95	0.49
4:a:221:ARG:HH12	4:a:346:GLU:CD	2.20	0.49
2:M:139:HIS:HB2	1:Q:217:GLY:HA2	1.93	0.49
4:T:126:LYS:O	4:T:128:LYS:NZ	2.39	0.49
4:T:305:GLN:NE2	4:T:324:ILE:O	2.44	0.49
4:H:166:ARG:NH1	4:H:170:LEU:HB2	2.27	0.49
4:b:32:LEU:HD13	4:b:104:PRO:HD2	1.93	0.49
4:P:24:ALA:HA	4:P:27:ILE:HD11	1.94	0.49
4:f:229:LEU:HG	4:f:238:GLN:HG2	1.94	0.49
4:f:337:ALA:O	4:V:353:GLU:N	2.46	0.49
4:T:257:ILE:HA	4:T:261:TYR:HD2	1.78	0.49
4:W:32:LEU:HD13	4:W:104:PRO:HD2	1.93	0.49
1:Q:80:THR:N	1:Q:166:THR:OG1	2.39	0.49
1:o:270:LYS:N	1:o:316:ASP:O	2.33	0.49
4:U:224:ASN:HD21	4:U:229:LEU:HD21	1.77	0.49
1:R:6:THR:O	1:R:10:ILE:HG12	2.13	0.49
1:e:298:GLU:HB3	1:e:330:THR:HA	1.95	0.49
4:b:103:MET:HB3	4:b:106:ALA:HB2	1.93	0.49
4:b:296:SER:HB2	4:b:338:LYS:HG3	1.94	0.49
1:v:33:MET:SD	2:A:20:GLN:NE2	2.86	0.49
4:P:301:ASP:HB3	4:P:334:PHE:HB3	1.94	0.49
4:C:53:LEU:HD13	4:C:61:ILE:HD11	1.93	0.49
1:m:208:LYS:NZ	1:m:209:VAL:O	2.39	0.49
1:O:6:THR:O	1:O:10:ILE:HG12	2.13	0.49
1:F:6:THR:O	1:F:10:ILE:HG12	2.13	0.49
1:F:57:ILE:HD11	1:F:62:ASN:HB2	1.94	0.49
1:F:86:VAL:HA	1:F:158:ASN:HA	1.95	0.49
4:h:264:LYS:HD3	4:X:178:GLN:HE21	1.78	0.49
4:X:41:ASN:N	4:X:77:VAL:O	2.36	0.49
1:R:5:GLN:OE1	1:R:13:ARG:NH2	2.46	0.49
4:c:264:LYS:HD3	4:b:178:GLN:HE21	1.77	0.49
4:P:348:ILE:HG13	4:f:10:ILE:HD11	1.95	0.49
4:f:55:ALA:HA	4:f:58:LYS:HE2	1.94	0.49
4:S:221:ARG:HH12	4:S:346:GLU:CD	2.21	0.49
1:O:53:LYS:HG2	1:O:58:GLN:HE22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:76:ARG:NH2	1:O:171:ASP:OD1	2.46	0.49
4:g:229:LEU:HG	4:g:238:GLN:HG2	1.94	0.49
4:W:127:VAL:HG22	4:W:254:ARG:HH12	1.78	0.49
4:H:53:LEU:HD13	4:H:61:ILE:HD11	1.95	0.49
2:N:105:TYR:HB2	2:N:108:GLU:HB2	1.94	0.49
4:h:210:LEU:HD22	4:h:217:ILE:HG22	1.94	0.49
4:h:348:ILE:HG13	4:c:10:ILE:HD11	1.95	0.49
4:U:39:GLY:N	4:U:79:VAL:O	2.37	0.49
4:c:280:LYS:NZ	4:c:296:SER:O	2.46	0.49
4:P:210:LEU:HD22	4:P:217:ILE:HG22	1.94	0.49
1:O:80:THR:N	1:O:166:THR:OG1	2.39	0.49
4:g:348:ILE:HG13	4:I:10:ILE:HD11	1.95	0.49
1:Q:86:VAL:HA	1:Q:158:ASN:HA	1.95	0.49
1:K:288:ILE:HD11	1:K:304:VAL:HG22	1.95	0.49
4:I:38:LEU:HD23	4:I:80:ILE:HA	1.95	0.49
4:I:264:LYS:HD3	4:H:178:GLN:HE21	1.78	0.49
1:Z:69:VAL:HG11	1:Z:174:LEU:HD21	1.95	0.49
4:P:55:ALA:HA	4:P:58:LYS:HE2	1.94	0.48
4:P:264:LYS:HD3	4:D:178:GLN:HE21	1.78	0.48
4:P:280:LYS:NZ	4:P:296:SER:O	2.46	0.48
4:C:166:ARG:NH1	4:C:170:LEU:HB2	2.28	0.48
1:m:33:MET:SD	2:L:20:GLN:NE2	2.86	0.48
4:V:348:ILE:H	4:W:8:ILE:HG22	1.77	0.48
1:n:298:GLU:HB3	1:n:330:THR:HA	1.95	0.48
4:g:38:LEU:HD23	4:g:80:ILE:HA	1.95	0.48
4:T:179:SER:N	4:W:263:GLY:O	2.41	0.48
4:I:226:LEU:HG	4:I:229:LEU:HD22	1.95	0.48
4:G:221:ARG:HH12	4:G:346:GLU:CD	2.21	0.48
4:h:153:VAL:HG22	4:h:188:VAL:HG22	1.94	0.48
4:h:301:ASP:HB3	4:h:334:PHE:HB3	1.94	0.48
1:e:300:ILE:HG22	1:e:303:LYS:H	1.78	0.48
4:c:153:VAL:HG22	4:c:188:VAL:HG22	1.94	0.48
1:Z:6:THR:O	1:Z:10:ILE:HG12	2.13	0.48
2:A:4:ILE:HA	2:A:7:LEU:HB2	1.96	0.48
4:D:221:ARG:CZ	4:V:6:PRO:HG2	2.43	0.48
1:m:210:TYR:HB2	1:m:220:LYS:HB3	1.95	0.48
4:V:53:LEU:HD13	4:V:61:ILE:HD11	1.94	0.48
4:W:296:SER:HB2	4:W:338:LYS:HG3	1.95	0.48
4:I:229:LEU:HG	4:I:238:GLN:HG2	1.94	0.48
4:G:224:ASN:HD21	4:G:229:LEU:HD21	1.77	0.48
1:F:5:GLN:OE1	1:F:13:ARG:NH2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:316:ASP:OD2	1:o:328:ASN:ND2	2.45	0.48
4:a:126:LYS:O	4:a:128:LYS:NZ	2.39	0.48
1:v:210:TYR:HB2	1:v:220:LYS:HB3	1.96	0.48
4:V:127:VAL:HG12	4:V:129:VAL:HG13	1.95	0.48
1:K:78:LEU:H	1:K:78:LEU:HD23	1.79	0.48
1:K:210:TYR:HB2	1:K:220:LYS:HB3	1.96	0.48
3:J:47:ILE:HD12	3:J:52:ALA:HA	1.96	0.48
4:H:103:MET:HB3	4:H:106:ALA:HB2	1.94	0.48
4:U:68:ASN:ND2	4:U:174:THR:OG1	2.41	0.48
4:X:221:ARG:NH1	4:b:6:PRO:O	2.47	0.48
4:X:221:ARG:CZ	4:b:6:PRO:HG2	2.44	0.48
3:d:47:ILE:HD12	3:d:52:ALA:HA	1.96	0.48
4:V:221:ARG:NH2	4:W:6:PRO:HG2	2.28	0.48
1:n:80:THR:N	1:n:166:THR:OG1	2.42	0.48
4:g:226:LEU:HG	4:g:229:LEU:HD22	1.96	0.48
4:T:80:ILE:HD13	4:T:88:THR:HG21	1.96	0.48
1:F:87:GLU:N	1:F:157:THR:O	2.32	0.48
4:U:257:ILE:HA	4:U:261:TYR:HD2	1.78	0.48
4:c:337:ALA:O	4:b:353:GLU:N	2.46	0.48
4:b:53:LEU:HD13	4:b:61:ILE:HD11	1.95	0.48
1:Z:76:ARG:NH2	1:Z:171:ASP:OD1	2.46	0.48
4:D:221:ARG:NH1	4:V:6:PRO:O	2.46	0.48
2:L:4:ILE:HA	2:L:7:LEU:HB2	1.96	0.48
4:S:130:LYS:HZ1	4:S:244:ASP:HA	1.79	0.48
4:S:166:ARG:NH1	4:S:170:LEU:HB2	2.29	0.48
4:G:59:GLU:OE2	4:G:158:TYR:OH	2.27	0.48
4:G:347:ASP:HB2	4:U:8:ILE:HG12	1.95	0.48
2:N:52:MET:HG2	1:R:56:PHE:HB3	1.95	0.48
4:h:220:ALA:HB1	4:c:6:PRO:HB2	1.96	0.48
4:h:229:LEU:HG	4:h:238:GLN:HG2	1.94	0.48
4:X:103:MET:HB3	4:X:106:ALA:HB2	1.94	0.48
1:R:201:VAL:HG11	1:R:239:CYS:HB2	1.95	0.48
1:Z:5:GLN:OE1	1:Z:13:ARG:NH2	2.46	0.48
4:P:53:LEU:HD21	4:P:79:VAL:HG21	1.95	0.48
4:f:38:LEU:HD23	4:f:80:ILE:HA	1.95	0.48
4:f:226:LEU:HG	4:f:229:LEU:HD22	1.96	0.48
4:S:80:ILE:HD13	4:S:88:THR:HG21	1.96	0.48
1:Q:5:GLN:OE1	1:Q:13:ARG:NH2	2.46	0.48
4:I:181:THR:HG23	4:I:221:ARG:HA	1.94	0.48
4:I:210:LEU:HD22	4:I:217:ILE:HG22	1.94	0.48
4:G:63:LEU:HG	4:G:166:ARG:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:345:MET:SD	4:H:265:VAL:HG23	2.53	0.48
4:H:296:SER:HB2	4:H:338:LYS:HG3	1.95	0.48
1:o:298:GLU:HB3	1:o:330:THR:HA	1.95	0.48
4:U:80:ILE:HD13	4:U:88:THR:HG21	1.96	0.48
4:U:345:MET:SD	4:X:265:VAL:HG23	2.53	0.48
4:X:53:LEU:HD13	4:X:61:ILE:HD11	1.94	0.48
1:e:288:ILE:HD11	1:e:304:VAL:HG22	1.95	0.48
4:b:221:ARG:HH22	4:b:346:GLU:CD	2.22	0.48
1:v:78:LEU:HD23	1:v:78:LEU:H	1.79	0.48
1:O:201:VAL:HG11	1:O:239:CYS:HB2	1.95	0.48
1:n:188:SER:HB3	1:Q:248:PRO:HB3	1.96	0.48
4:g:264:LYS:HD3	4:W:178:GLN:HE21	1.78	0.48
4:G:166:ARG:NH1	4:G:170:LEU:HB2	2.29	0.48
4:H:221:ARG:CZ	4:X:6:PRO:HG2	2.43	0.48
1:o:33:MET:SD	2:N:20:GLN:NE2	2.86	0.48
1:o:78:LEU:HD23	1:o:78:LEU:H	1.79	0.48
1:o:80:THR:N	1:o:166:THR:OG1	2.42	0.48
4:h:226:LEU:HG	4:h:229:LEU:HD22	1.96	0.48
1:e:78:LEU:HD23	1:e:78:LEU:H	1.79	0.48
1:e:210:TYR:HB2	1:e:220:LYS:HB3	1.96	0.48
4:a:80:ILE:HD13	4:a:88:THR:HG21	1.96	0.48
1:Z:86:VAL:HA	1:Z:158:ASN:HA	1.95	0.48
4:D:6:PRO:O	4:b:221:ARG:NH1	2.46	0.48
4:D:38:LEU:HA	4:D:79:VAL:HG12	1.96	0.48
4:D:296:SER:HB2	4:D:338:LYS:HG3	1.94	0.48
1:m:300:ILE:HG22	1:m:303:LYS:H	1.79	0.48
4:f:264:LYS:HD3	4:V:178:GLN:HE21	1.78	0.48
1:n:210:TYR:HB2	1:n:220:LYS:HB3	1.96	0.48
1:n:281:LYS:HE3	1:n:344:PHE:HB2	1.95	0.48
1:Q:6:THR:O	1:Q:10:ILE:HG12	2.13	0.48
4:I:337:ALA:O	4:H:353:GLU:N	2.46	0.48
4:G:305:GLN:NE2	4:G:324:ILE:O	2.44	0.48
1:o:210:TYR:HB2	1:o:220:LYS:HB3	1.95	0.48
4:h:329:THR:HG23	4:h:334:PHE:CE2	2.27	0.48
4:a:68:ASN:ND2	4:a:174:THR:OG1	2.41	0.48
4:a:166:ARG:NH1	4:a:170:LEU:HB2	2.29	0.48
4:D:53:LEU:HD13	4:D:61:ILE:HD11	1.95	0.48
1:B:86:VAL:HA	1:B:158:ASN:HA	1.95	0.48
1:m:188:SER:HB3	1:O:248:PRO:HB3	1.96	0.48
4:V:221:ARG:CZ	4:W:6:PRO:HG2	2.44	0.48
4:W:258:ILE:HA	4:W:262:ILE:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:127:VAL:HG22	4:H:254:ARG:HH12	1.78	0.48
4:b:38:LEU:HA	4:b:79:VAL:HG12	1.96	0.48
4:P:68:ASN:ND2	4:P:174:THR:OG1	2.44	0.48
4:C:80:ILE:HD13	4:C:88:THR:HG21	1.96	0.48
1:m:288:ILE:HD11	1:m:304:VAL:HG22	1.96	0.48
2:L:117:ALA:HB2	2:L:146:PRO:HB2	1.96	0.48
4:V:258:ILE:HA	4:V:262:ILE:HD13	1.96	0.48
1:O:86:VAL:HA	1:O:158:ASN:HA	1.95	0.48
1:n:78:LEU:HD23	1:n:78:LEU:H	1.79	0.48
4:T:345:MET:SD	4:W:265:VAL:HG23	2.53	0.48
1:K:188:SER:HB3	1:F:248:PRO:HB3	1.96	0.48
4:H:229:LEU:HD12	4:H:233:LYS:HB3	1.96	0.48
1:F:332:ASN:HB2	1:F:335:LYS:HD2	1.95	0.48
4:X:296:SER:HB2	4:X:338:LYS:HG3	1.95	0.48
4:c:53:LEU:HD21	4:c:79:VAL:HG21	1.95	0.48
1:v:305:MET:HE1	1:Z:305:MET:HB3	1.96	0.47
4:P:226:LEU:HG	4:P:229:LEU:HD22	1.96	0.47
4:D:127:VAL:HG12	4:D:129:VAL:HG13	1.96	0.47
4:D:128:LYS:HB3	4:D:247:ASP:HB3	1.96	0.47
4:D:348:ILE:H	4:V:8:ILE:HG22	1.78	0.47
1:B:69:VAL:HG11	1:B:174:LEU:HD21	1.96	0.47
1:m:78:LEU:HD23	1:m:78:LEU:H	1.79	0.47
4:W:38:LEU:HA	4:W:79:VAL:HG12	1.96	0.47
4:W:127:VAL:HG12	4:W:129:VAL:HG13	1.96	0.47
1:K:300:ILE:HG22	1:K:303:LYS:H	1.78	0.47
4:I:68:ASN:ND2	4:I:174:THR:OG1	2.44	0.47
4:H:49:ILE:HG23	4:H:61:ILE:HD12	1.96	0.47
1:F:69:VAL:HG11	1:F:174:LEU:HD21	1.95	0.47
4:h:329:THR:HG22	4:h:332:LYS:HB2	1.95	0.47
4:U:166:ARG:NH1	4:U:170:LEU:HB2	2.29	0.47
1:R:57:ILE:HD11	1:R:62:ASN:HB2	1.96	0.47
4:c:226:LEU:HG	4:c:229:LEU:HD22	1.96	0.47
1:Z:201:VAL:HG11	1:Z:239:CYS:HB2	1.95	0.47
3:j:47:ILE:HD12	3:j:52:ALA:HA	1.96	0.47
4:C:224:ASN:HD21	4:C:229:LEU:HD21	1.79	0.47
4:C:345:MET:SD	4:D:265:VAL:HG23	2.54	0.47
4:D:6:PRO:HG2	4:b:221:ARG:NH2	2.29	0.47
1:m:298:GLU:HB3	1:m:330:THR:HA	1.95	0.47
1:K:298:GLU:HB3	1:K:330:THR:HA	1.95	0.47
2:N:4:ILE:HA	2:N:7:LEU:HB2	1.96	0.47
4:X:258:ILE:HA	4:X:262:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:303:LYS:NZ	1:Z:314:VAL:O	2.47	0.47
4:f:280:LYS:NZ	4:f:296:SER:O	2.47	0.47
4:V:221:ARG:NH1	4:W:6:PRO:O	2.47	0.47
1:O:332:ASN:HB2	1:O:335:LYS:HD2	1.96	0.47
1:Q:201:VAL:HG11	1:Q:239:CYS:HB2	1.95	0.47
1:Q:261:ILE:N	1:Q:336:ILE:O	2.42	0.47
1:F:201:VAL:HG11	1:F:239:CYS:HB2	1.95	0.47
1:R:69:VAL:HG11	1:R:174:LEU:HD21	1.96	0.47
1:R:269:MET:N	1:R:345:SER:O	2.41	0.47
2:Y:39:ASN:O	2:Y:45:THR:OG1	2.28	0.47
4:b:49:ILE:HG23	4:b:61:ILE:HD12	1.95	0.47
4:P:38:LEU:HD23	4:P:80:ILE:HA	1.95	0.47
3:i:47:ILE:HD12	3:i:52:ALA:HA	1.96	0.47
4:g:349:ASP:HA	4:I:10:ILE:HD13	1.97	0.47
4:T:49:ILE:HG21	4:T:58:LYS:HG3	1.94	0.47
2:E:117:ALA:HB2	2:E:146:PRO:HB2	1.97	0.47
4:I:329:THR:HG22	4:I:332:LYS:HB2	1.97	0.47
4:H:272:LYS:HZ3	4:H:333:VAL:HG13	1.79	0.47
4:C:63:LEU:HG	4:C:166:ARG:HD3	1.96	0.47
4:C:130:LYS:HZ1	4:C:244:ASP:HA	1.80	0.47
4:D:258:ILE:HA	4:D:262:ILE:HD13	1.96	0.47
1:m:209:VAL:HG13	1:m:219:VAL:HG13	1.96	0.47
4:S:63:LEU:HG	4:S:166:ARG:HD3	1.96	0.47
4:V:38:LEU:HA	4:V:79:VAL:HG12	1.96	0.47
1:K:232:ASP:OD1	1:K:235:THR:N	2.42	0.47
4:G:80:ILE:HD13	4:G:88:THR:HG21	1.96	0.47
1:F:262:GLU:OE1	1:F:340:THR:OG1	2.33	0.47
4:h:38:LEU:HD23	4:h:80:ILE:HA	1.95	0.47
1:e:281:LYS:HE3	1:e:344:PHE:HB2	1.96	0.47
4:b:127:VAL:HG22	4:b:254:ARG:HH12	1.78	0.47
1:B:201:VAL:HG11	1:B:239:CYS:HB2	1.95	0.47
1:B:332:ASN:HB2	1:B:335:LYS:HD2	1.96	0.47
1:O:69:VAL:HG11	1:O:174:LEU:HD21	1.96	0.47
1:O:262:GLU:OE1	1:O:340:THR:OG1	2.33	0.47
1:O:268:VAL:HG23	1:O:319:ASN:HD21	1.79	0.47
4:T:320:THR:HB	4:T:323:GLU:HB3	1.96	0.47
4:I:53:LEU:HD21	4:I:79:VAL:HG21	1.95	0.47
4:I:308:TYR:CZ	4:I:329:THR:O	2.68	0.47
4:G:343:ASP:O	4:H:267:ASN:HB2	2.14	0.47
1:o:288:ILE:HD11	1:o:304:VAL:HG22	1.97	0.47
4:a:63:LEU:HG	4:a:166:ARG:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:188:SER:HB3	1:B:248:PRO:HB3	1.96	0.47
2:A:117:ALA:HB2	2:A:146:PRO:HB2	1.97	0.47
4:C:126:LYS:O	4:C:128:LYS:NZ	2.39	0.47
4:C:257:ILE:HA	4:C:261:TYR:HD2	1.79	0.47
4:C:343:ASP:O	4:D:267:ASN:HB2	2.15	0.47
4:D:49:ILE:HG23	4:D:61:ILE:HD12	1.96	0.47
1:B:80:THR:N	1:B:166:THR:OG1	2.39	0.47
1:B:262:GLU:OE1	1:B:340:THR:OG1	2.33	0.47
4:S:343:ASP:O	4:V:267:ASN:HB2	2.14	0.47
4:V:127:VAL:HG22	4:V:254:ARG:HH12	1.79	0.47
2:M:117:ALA:HB2	2:M:146:PRO:HB2	1.97	0.47
4:g:53:LEU:HD21	4:g:79:VAL:HG21	1.95	0.47
4:g:181:THR:HG23	4:g:221:ARG:HA	1.97	0.47
4:g:352:ILE:HB	4:I:12:PHE:HB2	1.97	0.47
4:T:63:LEU:HG	4:T:166:ARG:HD3	1.96	0.47
4:W:49:ILE:HG23	4:W:61:ILE:HD12	1.95	0.47
4:W:221:ARG:CZ	4:H:6:PRO:HG2	2.43	0.47
1:Q:220:LYS:NZ	1:Q:221:VAL:O	2.48	0.47
1:Q:332:ASN:HB2	1:Q:335:LYS:HD2	1.96	0.47
4:G:39:GLY:N	4:G:79:VAL:O	2.37	0.47
4:H:127:VAL:HG12	4:H:129:VAL:HG13	1.96	0.47
1:o:80:THR:OG1	1:o:164:GLY:O	2.29	0.47
4:U:63:LEU:HG	4:U:166:ARG:HD3	1.96	0.47
4:X:49:ILE:HG23	4:X:61:ILE:HD12	1.95	0.47
4:b:127:VAL:HG12	4:b:129:VAL:HG13	1.95	0.47
4:b:272:LYS:NZ	4:b:333:VAL:HG13	2.30	0.47
4:D:6:PRO:HG2	4:b:221:ARG:CZ	2.44	0.47
2:L:52:MET:HG2	1:O:56:PHE:HB3	1.95	0.47
4:T:32:LEU:HD13	4:T:104:PRO:HG2	1.96	0.47
4:T:166:ARG:NH1	4:T:170:LEU:HB2	2.29	0.47
4:W:39:GLY:N	4:W:79:VAL:O	2.41	0.47
1:K:209:VAL:HG13	1:K:219:VAL:HG13	1.96	0.47
4:H:221:ARG:NH2	4:X:6:PRO:HG2	2.30	0.47
1:e:209:VAL:HG13	1:e:219:VAL:HG13	1.96	0.47
1:v:209:VAL:HG13	1:v:219:VAL:HG13	1.96	0.47
3:j:114:ASN:O	3:j:130:LYS:N	2.31	0.47
4:f:53:LEU:HD21	4:f:79:VAL:HG21	1.95	0.47
1:O:220:LYS:NZ	1:O:221:VAL:O	2.48	0.47
1:Q:262:GLU:OE1	1:Q:340:THR:OG1	2.33	0.47
2:E:3:LEU:HD12	2:E:20:GLN:OE1	2.14	0.47
1:F:76:ARG:NH2	1:F:171:ASP:OD1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:117:ALA:HB2	2:N:146:PRO:HB2	1.97	0.47
4:U:320:THR:HB	4:U:323:GLU:HB3	1.96	0.47
4:X:128:LYS:HB3	4:X:247:ASP:HB3	1.97	0.47
1:R:169:GLU:OE1	1:R:177:ARG:NH1	2.48	0.47
2:Y:117:ALA:HB2	2:Y:146:PRO:HB2	1.97	0.47
4:a:39:GLY:N	4:a:79:VAL:O	2.37	0.47
4:a:343:ASP:O	4:b:267:ASN:HB2	2.14	0.47
4:b:258:ILE:HA	4:b:262:ILE:HD13	1.96	0.47
1:Z:332:ASN:HB2	1:Z:335:LYS:HD2	1.96	0.47
4:P:352:ILE:HB	4:f:12:PHE:HB2	1.97	0.46
1:O:57:ILE:HD11	1:O:62:ASN:HB2	1.96	0.46
1:n:115:VAL:HB	1:n:125:SER:HB2	1.98	0.46
4:H:38:LEU:HA	4:H:79:VAL:HG12	1.96	0.46
1:R:262:GLU:OE1	1:R:340:THR:OG1	2.33	0.46
1:R:295:ILE:HD11	1:R:299:ILE:HA	1.97	0.46
1:R:332:ASN:HB2	1:R:335:LYS:HD2	1.96	0.46
1:e:148:ASP:OD1	1:e:148:ASP:N	2.46	0.46
4:c:38:LEU:HD23	4:c:80:ILE:HA	1.95	0.46
4:c:68:ASN:ND2	4:c:174:THR:OG1	2.44	0.46
1:v:270:LYS:N	1:v:316:ASP:O	2.34	0.46
4:D:221:ARG:HH22	4:D:346:GLU:CD	2.24	0.46
3:i:56:TRP:CH2	3:i:107:ASN:HB2	2.51	0.46
4:V:49:ILE:HG23	4:V:61:ILE:HD12	1.96	0.46
4:V:132:VAL:HA	4:V:144:ILE:HB	1.97	0.46
4:V:272:LYS:NZ	4:V:333:VAL:HG13	2.30	0.46
1:n:209:VAL:HG13	1:n:219:VAL:HG13	1.96	0.46
2:M:3:LEU:HD12	2:M:20:GLN:OE1	2.15	0.46
1:o:188:SER:HB3	1:R:248:PRO:HB3	1.96	0.46
4:h:53:LEU:HD21	4:h:79:VAL:HG21	1.95	0.46
1:e:188:SER:HB3	1:Z:248:PRO:HB3	1.96	0.46
4:b:52:ASP:OD1	4:b:53:LEU:N	2.49	0.46
4:T:68:ASN:ND2	4:T:174:THR:OG1	2.40	0.46
1:Q:69:VAL:HG11	1:Q:174:LEU:HD21	1.96	0.46
4:H:132:VAL:HA	4:H:144:ILE:HB	1.96	0.46
1:F:220:LYS:NZ	1:F:221:VAL:O	2.48	0.46
1:F:261:ILE:N	1:F:336:ILE:O	2.42	0.46
1:e:208:LYS:NZ	1:e:209:VAL:O	2.39	0.46
2:A:84:THR:HG23	2:A:86:GLU:H	1.81	0.46
4:P:133:LEU:HD13	4:P:136:VAL:HG21	1.98	0.46
4:P:220:ALA:HB1	4:f:6:PRO:HB2	1.96	0.46
4:D:49:ILE:HG21	4:D:58:LYS:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:115:VAL:HB	1:m:125:SER:HB2	1.98	0.46
1:O:270:LYS:N	1:O:316:ASP:O	2.25	0.46
4:T:343:ASP:O	4:W:267:ASN:HB2	2.15	0.46
4:H:258:ILE:HA	4:H:262:ILE:HD13	1.98	0.46
4:H:292:ILE:HA	4:H:342:LEU:H	1.80	0.46
4:h:68:ASN:ND2	4:h:174:THR:OG1	2.44	0.46
4:X:39:GLY:N	4:X:79:VAL:O	2.41	0.46
4:b:132:VAL:HA	4:b:144:ILE:HB	1.96	0.46
1:B:5:GLN:OE1	1:B:13:ARG:NH2	2.46	0.46
4:f:20:LYS:HD3	4:f:22:ARG:CZ	2.46	0.46
3:k:56:TRP:CH2	3:k:107:ASN:HB2	2.51	0.46
4:g:220:ALA:HB1	4:I:6:PRO:HB2	1.96	0.46
4:H:221:ARG:NH1	4:X:6:PRO:O	2.48	0.46
3:l:56:TRP:CH2	3:l:107:ASN:HB2	2.51	0.46
4:X:292:ILE:HA	4:X:342:LEU:H	1.80	0.46
1:Z:263:ILE:HG22	1:Z:339:VAL:HA	1.98	0.46
1:B:76:ARG:NH2	1:B:171:ASP:OD1	2.47	0.46
4:V:52:ASP:OD1	4:V:53:LEU:N	2.49	0.46
1:O:215:GLY:HA3	1:O:216:PRO:HD3	1.84	0.46
4:T:224:ASN:HD21	4:T:229:LEU:HD21	1.79	0.46
4:H:52:ASP:OD1	4:H:53:LEU:N	2.49	0.46
1:o:111:VAL:HG22	1:o:127:VAL:HG22	1.97	0.46
4:U:343:ASP:O	4:X:267:ASN:HB2	2.15	0.46
4:X:38:LEU:HA	4:X:79:VAL:HG12	1.96	0.46
4:X:127:VAL:HG12	4:X:129:VAL:HG13	1.96	0.46
1:Z:220:LYS:NZ	1:Z:221:VAL:O	2.48	0.46
1:B:87:GLU:N	1:B:157:THR:O	2.33	0.46
1:B:220:LYS:NZ	1:B:221:VAL:O	2.49	0.46
4:f:10:ILE:HG22	4:f:12:PHE:HD1	1.81	0.46
4:V:246:LEU:HD21	4:V:341:VAL:HG21	1.98	0.46
4:T:39:GLY:N	4:T:79:VAL:O	2.38	0.46
4:T:57:ASN:HA	4:T:60:TYR:HD2	1.80	0.46
4:W:60:TYR:CZ	4:W:104:PRO:HB3	2.51	0.46
2:E:84:THR:HG23	2:E:86:GLU:H	1.80	0.46
4:I:127:VAL:HG12	4:I:129:VAL:HG13	1.98	0.46
4:I:257:ILE:HG23	4:H:348:ILE:HD12	1.98	0.46
1:F:270:LYS:N	1:F:316:ASP:O	2.28	0.46
4:h:20:LYS:HD3	4:h:22:ARG:CZ	2.46	0.46
1:e:111:VAL:HG22	1:e:127:VAL:HG22	1.97	0.46
3:d:56:TRP:CH2	3:d:107:ASN:HB2	2.51	0.46
1:Z:262:GLU:OE1	1:Z:340:THR:OG1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:208:LYS:NZ	1:v:209:VAL:O	2.39	0.46
4:P:349:ASP:HA	4:f:10:ILE:HD13	1.97	0.46
4:C:221:ARG:HA	4:C:221:ARG:HD2	1.80	0.46
4:D:93:LEU:HD11	4:D:101:LEU:HD13	1.98	0.46
4:S:68:ASN:ND2	4:S:174:THR:OG1	2.41	0.46
4:V:50:PRO:HB2	4:V:52:ASP:OD1	2.16	0.46
4:V:292:ILE:HA	4:V:342:LEU:H	1.80	0.46
1:O:302:THR:HA	1:O:305:MET:HE2	1.97	0.46
2:M:84:THR:HG23	2:M:86:GLU:H	1.81	0.46
4:W:52:ASP:OD1	4:W:53:LEU:N	2.49	0.46
1:Q:263:ILE:HG22	1:Q:339:VAL:HA	1.98	0.46
1:o:209:VAL:HG13	1:o:219:VAL:HG13	1.97	0.46
4:h:127:VAL:HG12	4:h:129:VAL:HG13	1.98	0.46
2:Y:3:LEU:HD12	2:Y:20:GLN:OE1	2.16	0.46
4:V:49:ILE:HG21	4:V:58:LYS:HG3	1.98	0.46
4:W:60:TYR:OH	4:W:104:PRO:HB3	2.16	0.46
4:I:200:GLU:HG3	4:h:6:PRO:HD2	1.98	0.46
4:H:68:ASN:ND2	4:H:174:THR:OG1	2.42	0.46
4:H:272:LYS:NZ	4:H:333:VAL:HG13	2.31	0.46
4:h:133:LEU:HD13	4:h:136:VAL:HG21	1.98	0.46
4:h:352:ILE:HB	4:c:12:PHE:HB2	1.97	0.46
1:R:220:LYS:NZ	1:R:221:VAL:O	2.48	0.46
4:c:10:ILE:HG22	4:c:12:PHE:HD1	1.81	0.46
4:b:49:ILE:HG21	4:b:58:LYS:HG3	1.98	0.46
4:b:128:LYS:HB3	4:b:247:ASP:HB3	1.98	0.46
1:Z:196:GLU:O	1:Z:200:GLU:HG3	2.16	0.46
1:v:232:ASP:OD1	1:v:235:THR:N	2.42	0.46
2:A:61:LYS:HE2	2:A:61:LYS:HB3	1.83	0.46
4:P:20:LYS:HD3	4:P:22:ARG:CZ	2.46	0.46
4:P:181:THR:HG23	4:P:221:ARG:HA	1.98	0.46
4:P:325:LYS:H	4:P:325:LYS:HG3	1.61	0.46
4:C:52:ASP:OD1	4:C:53:LEU:N	2.49	0.46
4:D:50:PRO:HB2	4:D:52:ASP:OD1	2.16	0.46
4:D:52:ASP:OD1	4:D:53:LEU:N	2.49	0.46
1:B:196:GLU:O	1:B:200:GLU:HG3	2.16	0.46
1:B:263:ILE:HG22	1:B:339:VAL:HA	1.98	0.46
4:f:133:LEU:HD13	4:f:136:VAL:HG21	1.98	0.46
4:S:309:LEU:HD12	4:S:314:VAL:HB	1.98	0.46
4:V:292:ILE:HG22	4:V:341:VAL:HG13	1.97	0.46
4:g:127:VAL:HG12	4:g:129:VAL:HG13	1.98	0.46
1:Q:196:GLU:O	1:Q:200:GLU:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:20:LYS:HD3	4:I:22:ARG:CZ	2.46	0.46
4:G:52:ASP:OD1	4:G:53:LEU:N	2.49	0.46
4:U:144:ILE:HG12	4:U:240:ILE:HD13	1.97	0.46
1:e:179:TYR:O	1:e:183:ARG:HG2	2.16	0.46
4:c:143:ILE:O	4:c:225:SER:OG	2.32	0.46
2:L:84:THR:HG23	2:L:86:GLU:H	1.81	0.45
4:f:257:ILE:HG23	4:V:348:ILE:HD12	1.98	0.45
4:S:221:ARG:HD2	4:S:221:ARG:HA	1.78	0.45
4:V:60:TYR:OH	4:V:104:PRO:HB3	2.17	0.45
4:V:298:VAL:HG13	4:V:337:ALA:HB2	1.98	0.45
1:O:261:ILE:N	1:O:336:ILE:O	2.42	0.45
1:n:179:TYR:O	1:n:183:ARG:HG2	2.16	0.45
4:g:182:TYR:OH	4:I:6:PRO:O	2.24	0.45
4:G:221:ARG:HD2	4:G:221:ARG:HA	1.79	0.45
4:X:52:ASP:OD1	4:X:53:LEU:N	2.49	0.45
1:e:276:THR:OG1	1:e:278:ASP:OD2	2.33	0.45
2:Y:139:HIS:CE1	1:Z:194:TYR:OH	2.70	0.45
4:c:20:LYS:HD3	4:c:22:ARG:CZ	2.46	0.45
4:c:325:LYS:H	4:c:325:LYS:HG3	1.61	0.45
4:a:52:ASP:OD1	4:a:53:LEU:N	2.49	0.45
1:Z:88:PHE:HB3	1:Z:117:ILE:HD11	1.99	0.45
4:P:6:PRO:HD2	4:c:200:GLU:HG3	1.99	0.45
4:P:127:VAL:HG12	4:P:129:VAL:HG13	1.98	0.45
4:D:10:ILE:HG23	4:b:350:LEU:HB3	1.98	0.45
1:B:88:PHE:HB3	1:B:117:ILE:HD11	1.98	0.45
1:m:179:TYR:O	1:m:183:ARG:HG2	2.16	0.45
4:V:68:ASN:ND2	4:V:174:THR:OG1	2.42	0.45
1:O:196:GLU:O	1:O:200:GLU:HG3	2.16	0.45
1:n:111:VAL:HG22	1:n:127:VAL:HG22	1.98	0.45
4:g:59:GLU:OE2	4:g:158:TYR:OH	2.25	0.45
4:g:133:LEU:HD13	4:g:136:VAL:HG21	1.98	0.45
4:T:144:ILE:HG12	4:T:240:ILE:HD13	1.98	0.45
1:Q:295:ILE:HD11	1:Q:299:ILE:HA	1.97	0.45
1:K:115:VAL:HB	1:K:125:SER:HB2	1.98	0.45
1:F:88:PHE:HB3	1:F:117:ILE:HD11	1.98	0.45
4:h:181:THR:HG23	4:h:221:ARG:HA	1.98	0.45
4:h:349:ASP:HA	4:c:10:ILE:HD13	1.97	0.45
4:U:52:ASP:OD1	4:U:53:LEU:N	2.49	0.45
4:X:221:ARG:NH2	4:b:6:PRO:HG2	2.31	0.45
1:R:88:PHE:HB3	1:R:117:ILE:HD11	1.98	0.45
2:Y:85:ILE:HG21	2:Y:102:ILE:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:c:133:LEU:HD13	4:c:136:VAL:HG21	1.99	0.45
1:v:111:VAL:HG22	1:v:127:VAL:HG22	1.98	0.45
1:v:298:GLU:HB3	1:v:330:THR:HA	1.97	0.45
3:j:56:TRP:CH2	3:j:107:ASN:HB2	2.51	0.45
4:C:132:VAL:HG12	4:C:164:THR:HB	1.98	0.45
4:D:60:TYR:OH	4:D:104:PRO:HB3	2.16	0.45
4:D:132:VAL:HA	4:D:144:ILE:HB	1.98	0.45
4:S:144:ILE:HG12	4:S:240:ILE:HD13	1.97	0.45
4:V:221:ARG:HH22	4:V:346:GLU:CD	2.24	0.45
1:K:281:LYS:HE3	1:K:344:PHE:HB2	1.98	0.45
3:J:56:TRP:CH2	3:J:107:ASN:HB2	2.51	0.45
4:I:221:ARG:NH1	4:h:6:PRO:O	2.48	0.45
4:G:309:LEU:HD12	4:G:314:VAL:HB	1.98	0.45
4:G:320:THR:HB	4:G:323:GLU:HB3	1.98	0.45
4:H:60:TYR:OH	4:H:104:PRO:HB3	2.17	0.45
3:l:29:ALA:HB2	3:l:47:ILE:HG23	1.97	0.45
1:Z:197:TRP:CZ2	1:Z:246:GLU:HB3	2.52	0.45
3:k:85:GLN:CD	4:g:344:ALA:HB3	2.41	0.45
4:g:20:LYS:HD3	4:g:22:ARG:CZ	2.46	0.45
4:T:52:ASP:OD1	4:T:53:LEU:N	2.49	0.45
4:W:49:ILE:HG21	4:W:58:LYS:HG3	1.97	0.45
4:W:128:LYS:HB3	4:W:247:ASP:HB3	1.97	0.45
4:H:50:PRO:HB2	4:H:52:ASP:OD1	2.16	0.45
1:F:263:ILE:HG22	1:F:339:VAL:HA	1.98	0.45
1:o:281:LYS:HE3	1:o:344:PHE:HB2	1.98	0.45
2:N:84:THR:HG23	2:N:86:GLU:H	1.81	0.45
4:U:309:LEU:HD12	4:U:314:VAL:HB	1.98	0.45
4:a:144:ILE:HG12	4:a:240:ILE:HD13	1.98	0.45
4:b:246:LEU:HD21	4:b:341:VAL:HG21	1.99	0.45
1:v:29:PHE:HE1	2:A:16:VAL:HG22	1.82	0.45
4:P:182:TYR:OH	4:f:6:PRO:O	2.25	0.45
4:C:166:ARG:HH12	4:C:170:LEU:HB2	1.82	0.45
4:D:60:TYR:CZ	4:D:104:PRO:HB3	2.52	0.45
4:D:221:ARG:NH2	4:V:6:PRO:HG2	2.32	0.45
4:D:292:ILE:HA	4:D:342:LEU:H	1.80	0.45
1:B:295:ILE:HD11	1:B:299:ILE:HA	1.97	0.45
1:O:169:GLU:OE1	1:O:177:ARG:NH1	2.49	0.45
4:T:57:ASN:O	4:T:61:ILE:HG13	2.17	0.45
4:T:130:LYS:NZ	4:T:244:ASP:HA	2.32	0.45
4:W:50:PRO:HB2	4:W:52:ASP:OD1	2.16	0.45
1:K:179:TYR:O	1:K:183:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:39:GLY:N	4:H:79:VAL:O	2.40	0.45
1:F:169:GLU:OE1	1:F:177:ARG:NH1	2.49	0.45
4:X:292:ILE:HG22	4:X:341:VAL:HG13	1.98	0.45
1:R:197:TRP:CZ2	1:R:246:GLU:HB3	2.52	0.45
4:a:57:ASN:O	4:a:61:ILE:HG13	2.17	0.45
1:B:197:TRP:CZ2	1:B:246:GLU:HB3	2.52	0.45
1:m:29:PHE:HE1	2:L:16:VAL:HG22	1.82	0.45
3:i:85:GLN:HB3	4:f:179:SER:HB3	1.98	0.45
4:f:200:GLU:HG3	4:g:6:PRO:HD2	1.98	0.45
4:S:52:ASP:OD1	4:S:53:LEU:N	2.49	0.45
1:n:232:ASP:OD1	1:n:235:THR:N	2.42	0.45
1:n:299:ILE:HB	1:n:329:ILE:HB	1.99	0.45
3:k:29:ALA:HB2	3:k:47:ILE:HG23	1.98	0.45
4:g:160:VAL:O	4:g:164:THR:HG23	2.17	0.45
4:T:103:MET:HB3	4:T:106:ALA:HB2	1.98	0.45
4:W:132:VAL:HA	4:W:144:ILE:HB	1.97	0.45
4:W:194:MET:SD	4:W:198:ASP:HB3	2.56	0.45
1:Q:88:PHE:HB3	1:Q:117:ILE:HD11	1.98	0.45
4:I:280:LYS:NZ	4:I:296:SER:O	2.48	0.45
4:H:49:ILE:HG21	4:H:58:LYS:HG3	1.98	0.45
4:H:128:LYS:HB3	4:H:247:ASP:HB3	1.98	0.45
1:F:309:ILE:HD12	1:F:314:VAL:HG12	1.98	0.45
4:X:50:PRO:HB2	4:X:52:ASP:OD1	2.16	0.45
4:X:60:TYR:OH	4:X:104:PRO:HB3	2.17	0.45
4:a:132:VAL:HG12	4:a:164:THR:HB	1.99	0.45
4:b:60:TYR:CZ	4:b:104:PRO:HB3	2.51	0.45
1:Z:295:ILE:HD11	1:Z:299:ILE:HA	1.98	0.45
2:A:39:ASN:O	2:A:45:THR:OG1	2.29	0.45
2:A:85:ILE:HG21	2:A:102:ILE:HD13	1.99	0.45
4:C:57:ASN:O	4:C:61:ILE:HG13	2.17	0.45
4:C:309:LEU:HD12	4:C:314:VAL:HB	1.98	0.45
1:m:65:LEU:HD21	1:m:174:LEU:HD23	1.99	0.45
4:S:122:ARG:CZ	4:S:128:LYS:HB3	2.47	0.45
4:S:353:GLU:H	4:V:338:LYS:HA	1.82	0.45
4:V:60:TYR:CZ	4:V:104:PRO:HB3	2.52	0.45
4:V:93:LEU:HD11	4:V:101:LEU:HD13	1.98	0.45
4:V:194:MET:HE1	4:V:199:ALA:HB2	1.99	0.45
1:O:87:GLU:N	1:O:157:THR:O	2.33	0.45
4:T:34:ASP:OD2	4:T:57:ASN:ND2	2.50	0.45
1:Q:89:ILE:HB	1:Q:155:LYS:HB3	1.99	0.45
4:I:10:ILE:HG22	4:I:12:PHE:HD1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:133:LEU:HD13	4:I:136:VAL:HG21	1.98	0.45
4:I:143:ILE:O	4:I:225:SER:OG	2.32	0.45
4:G:68:ASN:ND2	4:G:174:THR:OG1	2.40	0.45
4:G:166:ARG:HH12	4:G:170:LEU:HB2	1.82	0.45
1:o:179:TYR:O	1:o:183:ARG:HG2	2.16	0.45
2:N:139:HIS:CE1	1:R:194:TYR:OH	2.70	0.45
4:U:57:ASN:O	4:U:61:ILE:HG13	2.17	0.45
4:X:194:MET:HE1	4:X:199:ALA:HB2	1.99	0.45
4:a:122:ARG:CZ	4:a:128:LYS:HB3	2.47	0.45
4:b:50:PRO:HB2	4:b:52:ASP:OD1	2.16	0.45
2:A:139:HIS:CE1	1:B:194:TYR:OH	2.70	0.45
4:S:130:LYS:NZ	4:S:244:ASP:HA	2.32	0.45
4:S:132:VAL:HG12	4:S:164:THR:HB	1.98	0.45
1:O:263:ILE:HG22	1:O:339:VAL:HA	1.98	0.45
1:n:208:LYS:NZ	1:n:209:VAL:O	2.39	0.45
2:M:85:ILE:HG21	2:M:102:ILE:HD13	1.99	0.45
4:T:309:LEU:HD12	4:T:314:VAL:HB	1.98	0.45
4:W:93:LEU:HD11	4:W:101:LEU:HD13	1.98	0.45
4:W:221:ARG:HH22	4:W:346:GLU:CD	2.24	0.45
1:Q:169:GLU:OE1	1:Q:177:ARG:NH1	2.48	0.45
1:K:108:LEU:HB3	1:K:130:LEU:HD12	1.99	0.45
3:l:85:GLN:CD	4:h:344:ALA:HB3	2.42	0.45
1:e:115:VAL:HB	1:e:125:SER:HB2	1.98	0.45
1:e:232:ASP:OD1	1:e:235:THR:N	2.42	0.45
4:C:103:MET:HB3	4:C:106:ALA:HB2	1.99	0.45
1:B:89:ILE:HB	1:B:155:LYS:HB3	1.98	0.45
1:m:111:VAL:HG22	1:m:127:VAL:HG22	1.98	0.45
4:f:160:VAL:O	4:f:164:THR:HG23	2.17	0.45
4:f:181:THR:HG23	4:f:221:ARG:HA	1.99	0.45
1:O:269:MET:N	1:O:345:SER:O	2.40	0.45
1:O:300:ILE:HB	1:O:303:LYS:HG3	1.99	0.45
4:T:221:ARG:HA	4:T:221:ARG:HD2	1.80	0.45
4:W:246:LEU:HD21	4:W:341:VAL:HG21	1.99	0.45
2:E:57:LEU:HD11	2:E:73:ILE:HG23	1.99	0.45
2:E:139:HIS:CE1	1:F:194:TYR:OH	2.70	0.45
4:H:246:LEU:HD21	4:H:341:VAL:HG21	1.98	0.45
1:F:196:GLU:O	1:F:200:GLU:HG3	2.16	0.45
4:h:257:ILE:HG23	4:X:348:ILE:HD12	1.98	0.45
4:X:49:ILE:HG21	4:X:58:LYS:HG3	1.98	0.45
1:e:108:LEU:HB3	1:e:130:LEU:HD12	1.99	0.45
4:a:118:ILE:HG23	4:a:129:VAL:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:b:60:TYR:OH	4:b:104:PRO:HB3	2.16	0.45
4:C:144:ILE:HG12	4:C:240:ILE:HD13	1.98	0.45
4:D:246:LEU:HD21	4:D:341:VAL:HG21	1.99	0.45
2:L:139:HIS:CE1	1:O:194:TYR:OH	2.70	0.45
4:f:127:VAL:HG12	4:f:129:VAL:HG13	1.98	0.45
4:V:128:LYS:HB3	4:V:247:ASP:HB3	1.98	0.45
1:n:65:LEU:HD21	1:n:174:LEU:HD23	1.99	0.45
2:M:13:ASN:ND2	2:M:16:VAL:HG23	2.32	0.45
1:K:111:VAL:HG22	1:K:127:VAL:HG22	1.98	0.45
1:K:261:ILE:HD11	1:K:335:LYS:HD3	1.99	0.45
4:I:32:LEU:HD22	4:I:57:ASN:HB3	1.99	0.45
4:G:57:ASN:O	4:G:61:ILE:HG13	2.17	0.45
4:X:132:VAL:HA	4:X:144:ILE:HB	1.98	0.45
4:X:246:LEU:HD21	4:X:341:VAL:HG21	1.98	0.45
1:e:249:ILE:HG12	2:Y:88:ILE:HD12	1.99	0.45
2:Y:84:THR:HG23	2:Y:86:GLU:H	1.81	0.45
4:P:257:ILE:HG23	4:D:348:ILE:HD12	1.98	0.44
4:C:320:THR:HB	4:C:323:GLU:HB3	1.99	0.44
1:m:281:LYS:HE3	1:m:344:PHE:HB2	1.98	0.44
1:O:197:TRP:CZ2	1:O:246:GLU:HB3	2.52	0.44
1:n:261:ILE:HD11	1:n:335:LYS:HD3	1.99	0.44
4:T:118:ILE:HG23	4:T:129:VAL:HG23	1.99	0.44
4:W:154:GLY:O	4:W:155:GLU:HG3	2.18	0.44
2:E:85:ILE:HG21	2:E:102:ILE:HD13	1.99	0.44
4:G:130:LYS:NZ	4:G:244:ASP:HA	2.32	0.44
4:H:194:MET:HE1	4:H:199:ALA:HB2	2.00	0.44
3:d:85:GLN:HB3	4:c:179:SER:HB3	1.98	0.44
4:c:160:VAL:O	4:c:164:THR:HG23	2.17	0.44
1:v:194:TYR:HA	1:v:197:TRP:CZ3	2.53	0.44
4:C:130:LYS:NZ	4:C:244:ASP:HA	2.32	0.44
1:m:194:TYR:HA	1:m:197:TRP:CZ3	2.53	0.44
1:m:261:ILE:HD11	1:m:335:LYS:HD3	1.99	0.44
4:S:57:ASN:O	4:S:61:ILE:HG13	2.17	0.44
4:S:166:ARG:HH12	4:S:170:LEU:HB2	1.82	0.44
1:O:88:PHE:HB3	1:O:117:ILE:HD11	1.98	0.44
1:n:108:LEU:HB3	1:n:130:LEU:HD12	2.00	0.44
4:T:122:ARG:CZ	4:T:128:LYS:HB3	2.47	0.44
3:J:85:GLN:HB3	4:I:179:SER:HB3	1.99	0.44
4:G:144:ILE:HG12	4:G:240:ILE:HD13	1.98	0.44
4:H:292:ILE:HG22	4:H:341:VAL:HG13	1.98	0.44
1:F:197:TRP:CZ2	1:F:246:GLU:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:269:MET:N	1:F:345:SER:O	2.40	0.44
1:o:115:VAL:HB	1:o:125:SER:HB2	1.98	0.44
2:N:37:THR:HG21	1:R:48:LEU:HD11	1.99	0.44
4:U:103:MET:HB3	4:U:106:ALA:HB2	1.99	0.44
1:R:263:ILE:HG22	1:R:339:VAL:HA	1.98	0.44
4:a:103:MET:HB3	4:a:106:ALA:HB2	2.00	0.44
1:v:108:LEU:HB3	1:v:130:LEU:HD12	2.00	0.44
1:v:249:ILE:HG12	2:A:88:ILE:HD12	1.99	0.44
4:D:194:MET:HE1	4:D:199:ALA:HB2	1.99	0.44
1:n:29:PHE:O	1:n:33:MET:HG2	2.16	0.44
4:T:166:ARG:HH12	4:T:170:LEU:HB2	1.82	0.44
1:Q:269:MET:N	1:Q:345:SER:O	2.41	0.44
1:K:65:LEU:HD21	1:K:174:LEU:HD23	1.99	0.44
4:h:32:LEU:HD22	4:h:57:ASN:HB3	1.99	0.44
1:R:196:GLU:O	1:R:200:GLU:HG3	2.16	0.44
1:e:194:TYR:HA	1:e:197:TRP:CZ3	2.53	0.44
2:Y:29:ILE:O	2:Y:32:GLU:HG2	2.18	0.44
4:a:50:PRO:HB2	4:a:52:ASP:OD1	2.18	0.44
4:P:221:ARG:HG3	4:P:222:GLY:H	1.83	0.44
4:C:50:PRO:HB2	4:C:52:ASP:OD1	2.18	0.44
1:m:108:LEU:HB3	1:m:130:LEU:HD12	1.99	0.44
3:i:85:GLN:CD	4:f:344:ALA:HB3	2.42	0.44
4:S:31:VAL:HG21	4:S:89:ALA:HB2	1.99	0.44
4:S:50:PRO:HB2	4:S:52:ASP:OD1	2.18	0.44
4:V:300:ILE:HD13	4:V:335:LEU:HD23	1.99	0.44
1:n:72:PHE:HA	2:M:77:MET:HE1	1.99	0.44
4:W:292:ILE:HA	4:W:342:LEU:H	1.82	0.44
1:K:80:THR:N	1:K:166:THR:OG1	2.42	0.44
4:H:63:LEU:HG	4:H:166:ARG:HD3	2.00	0.44
1:F:89:ILE:HB	1:F:155:LYS:HB3	1.99	0.44
4:X:60:TYR:CZ	4:X:104:PRO:HB3	2.51	0.44
1:e:72:PHE:HA	2:Y:77:MET:HE1	2.00	0.44
2:Y:37:THR:HG21	1:Z:48:LEU:HD11	1.99	0.44
4:a:320:THR:HB	4:a:323:GLU:HB3	1.98	0.44
4:b:93:LEU:HD11	4:b:101:LEU:HD13	1.98	0.44
1:v:179:TYR:O	1:v:183:ARG:HG2	2.17	0.44
1:v:281:LYS:HE3	1:v:344:PHE:HB2	1.98	0.44
4:P:160:VAL:O	4:P:164:THR:HG23	2.17	0.44
4:C:8:ILE:HG12	4:a:347:ASP:HB2	2.00	0.44
1:m:249:ILE:HG12	2:L:88:ILE:HD12	2.00	0.44
2:L:37:THR:HG21	1:O:48:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:203:VAL:HG11	4:V:221:ARG:HG3	1.99	0.44
1:n:249:ILE:HG12	2:M:88:ILE:HD12	1.99	0.44
2:M:29:ILE:O	2:M:32:GLU:HG2	2.18	0.44
2:M:57:LEU:HD11	2:M:73:ILE:HG23	2.00	0.44
4:T:130:LYS:HZ1	4:T:244:ASP:HA	1.83	0.44
4:W:141:GLU:HB2	4:W:224:ASN:HD22	1.82	0.44
1:Q:197:TRP:CZ2	1:Q:246:GLU:HB3	2.52	0.44
1:K:194:TYR:HA	1:K:197:TRP:CZ3	2.53	0.44
4:H:93:LEU:HD11	4:H:101:LEU:HD13	1.98	0.44
4:H:154:GLY:O	4:H:155:GLU:HG3	2.18	0.44
1:o:29:PHE:HE1	2:N:16:VAL:HG22	1.82	0.44
2:N:57:LEU:HD11	2:N:73:ILE:HG23	2.00	0.44
4:h:160:VAL:O	4:h:164:THR:HG23	2.17	0.44
4:h:221:ARG:HG3	4:h:222:GLY:H	1.83	0.44
4:U:50:PRO:HB2	4:U:52:ASP:OD1	2.18	0.44
4:U:132:VAL:HG12	4:U:164:THR:HB	1.99	0.44
4:X:93:LEU:HD11	4:X:101:LEU:HD13	1.98	0.44
1:R:87:GLU:N	1:R:157:THR:O	2.33	0.44
4:c:127:VAL:HG12	4:c:129:VAL:HG13	1.98	0.44
4:a:166:ARG:HH12	4:a:170:LEU:HB2	1.83	0.44
4:b:41:ASN:N	4:b:77:VAL:O	2.36	0.44
2:A:57:LEU:HD11	2:A:73:ILE:HG23	1.99	0.44
4:C:275:LEU:HD21	4:C:335:LEU:HD11	1.99	0.44
4:D:15:LEU:HD12	4:b:353:GLU:HB3	2.00	0.44
1:n:194:TYR:HA	1:n:197:TRP:CZ3	2.53	0.44
2:M:4:ILE:HA	2:M:7:LEU:HB2	2.00	0.44
4:T:50:PRO:HB2	4:T:52:ASP:OD1	2.17	0.44
4:T:55:ALA:O	4:T:59:GLU:HG2	2.18	0.44
4:T:59:GLU:OE1	4:T:59:GLU:HA	2.18	0.44
4:W:27:ILE:HG13	4:W:74:LYS:HB2	2.00	0.44
2:E:62:LYS:HE2	2:E:64:LEU:HD21	1.99	0.44
4:G:122:ARG:CZ	4:G:128:LYS:HB3	2.47	0.44
4:H:221:ARG:HH22	4:H:346:GLU:CD	2.25	0.44
4:H:236:MET:SD	4:H:236:MET:N	2.91	0.44
1:o:72:PHE:HA	2:N:77:MET:HE1	2.00	0.44
4:U:122:ARG:CZ	4:U:128:LYS:HB3	2.47	0.44
4:U:166:ARG:HH12	4:U:170:LEU:HB2	1.82	0.44
4:X:141:GLU:HB2	4:X:224:ASN:HD22	1.83	0.44
1:e:65:LEU:HD21	1:e:174:LEU:HD23	1.99	0.44
4:a:130:LYS:NZ	4:a:244:ASP:HA	2.32	0.44
4:a:140:HIS:HD1	4:a:143:ILE:HG23	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:276:THR:OG1	1:v:278:ASP:OD2	2.34	0.44
4:P:39:GLY:O	4:P:79:VAL:N	2.47	0.44
1:m:72:PHE:HA	2:L:77:MET:HE1	2.00	0.44
2:L:3:LEU:HD12	2:L:20:GLN:OE1	2.18	0.44
2:L:29:ILE:O	2:L:32:GLU:HG2	2.18	0.44
3:i:119:ASN:O	3:i:125:LEU:HD12	2.17	0.44
4:f:236:MET:N	4:f:236:MET:SD	2.91	0.44
4:S:140:HIS:HD1	4:S:143:ILE:HG23	1.83	0.44
1:K:72:PHE:HA	2:E:77:MET:HE1	2.00	0.44
2:E:13:ASN:ND2	2:E:16:VAL:HG23	2.33	0.44
4:I:160:VAL:O	4:I:164:THR:HG23	2.17	0.44
4:G:50:PRO:HB2	4:G:52:ASP:OD1	2.17	0.44
4:G:126:LYS:O	4:G:128:LYS:NZ	2.39	0.44
1:o:194:TYR:HA	1:o:197:TRP:CZ3	2.53	0.44
2:N:85:ILE:HG21	2:N:102:ILE:HD13	2.00	0.44
4:U:130:LYS:NZ	4:U:244:ASP:HA	2.32	0.44
1:v:115:VAL:HB	1:v:125:SER:HB2	1.98	0.44
4:C:122:ARG:CZ	4:C:128:LYS:HB3	2.47	0.44
1:m:276:THR:OG1	1:m:278:ASP:OD2	2.34	0.44
2:L:18:GLU:HB3	1:O:18:ILE:HG23	2.00	0.44
4:S:118:ILE:HG23	4:S:129:VAL:HG23	2.00	0.44
4:V:154:GLY:O	4:V:155:GLU:HG3	2.18	0.44
4:V:353:GLU:HB3	4:W:15:LEU:HD12	2.00	0.44
4:T:140:HIS:HD1	4:T:143:ILE:HG23	1.83	0.44
4:G:196:LYS:HD2	4:G:211:ILE:HD11	2.00	0.44
1:o:261:ILE:HD11	1:o:335:LYS:HD3	1.99	0.44
4:U:31:VAL:HG21	4:U:89:ALA:HB2	1.99	0.44
1:e:261:ILE:HD11	1:e:335:LYS:HD3	1.99	0.44
4:c:266:THR:HA	4:b:344:ALA:HA	1.99	0.44
2:A:3:LEU:HD12	2:A:20:GLN:OE1	2.18	0.44
2:A:13:ASN:ND2	2:A:16:VAL:HG23	2.33	0.44
3:j:85:GLN:CD	4:P:344:ALA:HB3	2.43	0.44
4:C:196:LYS:HD2	4:C:211:ILE:HD11	2.00	0.44
4:D:154:GLY:O	4:D:155:GLU:HG3	2.18	0.44
1:B:169:GLU:OE1	1:B:177:ARG:NH1	2.48	0.44
4:S:320:THR:HB	4:S:323:GLU:HB3	1.99	0.44
4:V:27:ILE:HG13	4:V:74:LYS:HB2	2.00	0.44
1:O:201:VAL:HG21	1:O:239:CYS:HA	2.00	0.44
4:T:132:VAL:HG12	4:T:164:THR:HB	1.99	0.44
2:E:29:ILE:O	2:E:32:GLU:HG2	2.18	0.44
4:G:132:VAL:HG12	4:G:164:THR:HB	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:60:TYR:CZ	4:H:104:PRO:HB3	2.52	0.44
1:F:295:ILE:HD11	1:F:299:ILE:HA	1.99	0.44
1:o:108:LEU:HB3	1:o:130:LEU:HD12	2.00	0.44
4:h:39:GLY:O	4:h:79:VAL:N	2.47	0.44
3:d:85:GLN:CD	4:c:344:ALA:HB3	2.43	0.44
4:a:31:VAL:HG21	4:a:89:ALA:HB2	1.99	0.44
1:v:72:PHE:HA	2:A:77:MET:HE1	2.00	0.43
2:A:29:ILE:O	2:A:32:GLU:HG2	2.18	0.43
2:A:136:LYS:HD2	2:A:137:PRO:O	2.18	0.43
4:C:140:HIS:HD1	4:C:143:ILE:HG23	1.83	0.43
4:D:63:LEU:HG	4:D:166:ARG:HD3	2.00	0.43
2:L:85:ILE:HG21	2:L:102:ILE:HD13	2.00	0.43
2:M:37:THR:HG21	1:Q:48:LEU:HD11	1.99	0.43
4:g:32:LEU:HD22	4:g:57:ASN:HB3	1.99	0.43
4:G:118:ILE:HG23	4:G:129:VAL:HG23	2.00	0.43
2:N:29:ILE:O	2:N:32:GLU:HG2	2.18	0.43
4:h:53:LEU:O	4:h:58:LYS:NZ	2.51	0.43
2:Y:13:ASN:ND2	2:Y:16:VAL:HG23	2.33	0.43
4:a:309:LEU:HD12	4:a:314:VAL:HB	1.98	0.43
1:v:261:ILE:HD11	1:v:335:LYS:HD3	1.99	0.43
2:L:13:ASN:ND2	2:L:16:VAL:HG23	2.33	0.43
4:S:196:LYS:HD2	4:S:211:ILE:HD11	2.01	0.43
4:V:63:LEU:HG	4:V:166:ARG:HD3	2.00	0.43
1:O:238:ARG:O	1:O:241:GLN:HG3	2.18	0.43
4:T:196:LYS:HD2	4:T:211:ILE:HD11	2.00	0.43
4:W:38:LEU:HG	4:W:80:ILE:HA	2.00	0.43
2:E:136:LYS:HD2	2:E:137:PRO:O	2.18	0.43
3:J:85:GLN:CD	4:I:344:ALA:HB3	2.43	0.43
3:l:50:LYS:NZ	3:l:133:THR:HB	2.33	0.43
4:h:308:TYR:CZ	4:h:329:THR:O	2.71	0.43
1:R:142:CYS:N	1:R:158:ASN:OD1	2.50	0.43
3:d:119:ASN:O	3:d:125:LEU:HD12	2.18	0.43
4:b:292:ILE:HA	4:b:342:LEU:H	1.82	0.43
1:Z:89:ILE:HB	1:Z:155:LYS:HB3	1.99	0.43
2:A:16:VAL:O	2:A:20:GLN:HG2	2.18	0.43
4:D:27:ILE:HG13	4:D:74:LYS:HB2	2.00	0.43
1:m:41:LEU:HD22	1:O:44:ILE:HG13	2.00	0.43
2:L:16:VAL:O	2:L:20:GLN:HG2	2.18	0.43
3:i:50:LYS:NZ	3:i:133:THR:HB	2.34	0.43
4:f:53:LEU:O	4:f:58:LYS:NZ	2.51	0.43
4:S:103:MET:HB3	4:S:106:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:50:LYS:NZ	3:k:133:THR:HB	2.33	0.43
4:W:53:LEU:CD1	4:W:61:ILE:HD11	2.48	0.43
4:G:31:VAL:HG21	4:G:89:ALA:HB2	1.99	0.43
4:G:140:HIS:HD1	4:G:143:ILE:HG23	1.83	0.43
4:X:178:GLN:O	4:X:241:LYS:NZ	2.51	0.43
1:Z:238:ARG:O	1:Z:241:GLN:HG3	2.18	0.43
4:C:140:HIS:HD1	4:C:143:ILE:HG12	1.83	0.43
4:D:141:GLU:HB2	4:D:224:ASN:HD22	1.82	0.43
1:B:201:VAL:HG21	1:B:239:CYS:HA	2.01	0.43
1:B:237:GLU:O	1:B:240:GLN:HG3	2.19	0.43
2:L:57:LEU:HD11	2:L:73:ILE:HG23	2.00	0.43
4:S:350:LEU:HD11	4:V:337:ALA:HB2	2.00	0.43
1:O:237:GLU:O	1:O:240:GLN:HG3	2.19	0.43
4:T:275:LEU:HD21	4:T:335:LEU:HD11	2.00	0.43
2:E:4:ILE:HA	2:E:7:LEU:HB2	2.01	0.43
4:I:39:GLY:O	4:I:79:VAL:N	2.47	0.43
4:I:352:ILE:HB	4:h:12:PHE:HB2	2.01	0.43
4:G:103:MET:HB3	4:G:106:ALA:HB2	2.00	0.43
4:H:38:LEU:HG	4:H:80:ILE:HA	2.00	0.43
4:H:53:LEU:CD1	4:H:61:ILE:HD11	2.49	0.43
1:o:182:GLN:C	1:o:185:GLN:HE22	2.27	0.43
2:N:3:LEU:HD12	2:N:20:GLN:OE1	2.18	0.43
2:N:16:VAL:O	2:N:20:GLN:HG2	2.18	0.43
2:N:61:LYS:NZ	2:N:72:ASN:OD1	2.42	0.43
3:d:50:LYS:NZ	3:d:133:THR:HB	2.34	0.43
4:b:154:GLY:O	4:b:155:GLU:HG3	2.18	0.43
4:b:292:ILE:HG22	4:b:341:VAL:HG13	2.00	0.43
1:Z:201:VAL:HG21	1:Z:239:CYS:HA	2.00	0.43
1:v:65:LEU:HD21	1:v:174:LEU:HD23	1.99	0.43
2:A:18:GLU:HB3	1:B:18:ILE:HG23	2.00	0.43
4:f:352:ILE:HB	4:g:12:PHE:HB2	2.01	0.43
4:V:53:LEU:CD1	4:V:61:ILE:HD11	2.48	0.43
1:O:142:CYS:N	1:O:158:ASN:OD1	2.50	0.43
1:Q:201:VAL:HG21	1:Q:239:CYS:HA	2.01	0.43
4:H:203:VAL:HG11	4:H:221:ARG:HG3	2.00	0.43
1:F:215:GLY:HA3	1:F:216:PRO:HD3	1.84	0.43
1:o:148:ASP:OD1	1:o:148:ASP:N	2.46	0.43
1:o:208:LYS:NZ	1:o:209:VAL:O	2.39	0.43
2:N:61:LYS:HE2	2:N:61:LYS:HB3	1.83	0.43
4:X:154:GLY:O	4:X:155:GLU:HG3	2.18	0.43
1:R:89:ILE:HB	1:R:155:LYS:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:201:VAL:HG21	1:R:239:CYS:HA	2.00	0.43
1:e:182:GLN:C	1:e:185:GLN:HE22	2.27	0.43
2:Y:139:HIS:CB	1:Z:251:PRO:HB3	2.49	0.43
4:b:141:GLU:HB2	4:b:224:ASN:HD22	1.83	0.43
4:b:203:VAL:HG11	4:b:221:ARG:HG3	2.00	0.43
1:Z:237:GLU:O	1:Z:240:GLN:HG3	2.19	0.43
1:v:23:TYR:N	3:j:26:ARG:O	2.52	0.43
2:A:4:ILE:O	2:A:12:ARG:NH1	2.52	0.43
4:D:38:LEU:HG	4:D:80:ILE:HA	2.00	0.43
1:B:249:ILE:C	1:B:251:PRO:HD2	2.44	0.43
1:m:23:TYR:N	3:i:26:ARG:O	2.52	0.43
4:V:229:LEU:HD12	4:V:233:LYS:HB3	1.99	0.43
2:M:139:HIS:CE1	1:Q:194:TYR:OH	2.70	0.43
4:T:31:VAL:HG21	4:T:89:ALA:HB2	2.01	0.43
4:I:107:VAL:HG23	4:I:110:ASP:H	1.84	0.43
1:F:238:ARG:O	1:F:241:GLN:HG3	2.19	0.43
1:o:65:LEU:HD21	1:o:174:LEU:HD23	2.00	0.43
2:N:18:GLU:HB3	1:R:18:ILE:HG23	2.00	0.43
4:U:140:HIS:HD1	4:U:143:ILE:HG12	1.83	0.43
4:U:196:LYS:HD2	4:U:211:ILE:HD11	2.00	0.43
1:R:261:ILE:N	1:R:336:ILE:O	2.42	0.43
1:e:28:SER:HB2	1:e:31:ASN:HB2	2.00	0.43
2:Y:136:LYS:HD2	2:Y:137:PRO:O	2.19	0.43
4:c:53:LEU:O	4:c:58:LYS:NZ	2.52	0.43
4:c:181:THR:HG23	4:c:221:ARG:HA	2.00	0.43
4:a:353:GLU:H	4:b:338:LYS:HA	1.84	0.43
4:D:292:ILE:HG22	4:D:341:VAL:HG13	1.99	0.43
4:S:126:LYS:O	4:S:128:LYS:NZ	2.39	0.43
4:S:140:HIS:HD1	4:S:143:ILE:HG12	1.83	0.43
4:V:41:ASN:N	4:V:77:VAL:O	2.36	0.43
1:O:97:ASN:O	1:O:100:THR:OG1	2.32	0.43
1:O:249:ILE:C	1:O:251:PRO:HD2	2.44	0.43
4:g:53:LEU:O	4:g:58:LYS:NZ	2.51	0.43
1:Q:142:CYS:N	1:Q:158:ASN:OD1	2.50	0.43
1:Q:237:GLU:O	1:Q:240:GLN:HG3	2.19	0.43
1:Q:317:LEU:HG	1:K:302:THR:HG21	2.01	0.43
1:K:249:ILE:HG12	2:E:88:ILE:HD12	1.99	0.43
4:H:141:GLU:HB2	4:H:224:ASN:HD22	1.83	0.43
4:H:353:GLU:HB3	4:X:15:LEU:HD12	2.01	0.43
4:h:141:GLU:HB2	4:h:224:ASN:HD22	1.84	0.43
4:U:146:PHE:HB3	4:U:164:THR:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:221:ARG:HH22	4:X:346:GLU:CD	2.27	0.43
2:Y:57:LEU:HD11	2:Y:73:ILE:HG23	2.00	0.43
2:Y:115:PHE:HZ	2:Y:144:LEU:HB2	1.84	0.43
4:c:32:LEU:HD22	4:c:57:ASN:HB3	1.99	0.43
4:b:272:LYS:HZ3	4:b:333:VAL:HG13	1.84	0.43
1:Z:249:ILE:C	1:Z:251:PRO:HD2	2.44	0.43
2:A:37:THR:HG21	1:B:48:LEU:HD11	1.99	0.43
2:L:136:LYS:HD2	2:L:137:PRO:O	2.19	0.43
4:f:107:VAL:HG23	4:f:110:ASP:H	1.83	0.43
2:M:139:HIS:CB	1:Q:251:PRO:HB3	2.49	0.43
4:W:60:TYR:CE1	4:W:162:GLU:HA	2.54	0.43
1:K:64:PHE:O	1:K:68:ARG:HG2	2.19	0.43
2:E:38:PHE:HA	2:E:41:LEU:HG	2.00	0.43
1:F:201:VAL:HG21	1:F:239:CYS:HA	2.00	0.43
1:o:249:ILE:HG12	2:N:88:ILE:HD12	1.99	0.43
4:h:107:VAL:HG23	4:h:110:ASP:H	1.83	0.43
4:X:27:ILE:HG13	4:X:74:LYS:HB2	2.00	0.43
4:X:38:LEU:HG	4:X:80:ILE:HA	2.00	0.43
1:e:64:PHE:O	1:e:68:ARG:HG2	2.19	0.43
4:c:107:VAL:HG23	4:c:110:ASP:H	1.84	0.43
4:b:229:LEU:HD12	4:b:233:LYS:HB3	1.99	0.43
2:A:139:HIS:CB	1:B:251:PRO:HB3	2.49	0.43
4:D:68:ASN:ND2	4:D:174:THR:OG1	2.42	0.43
1:B:261:ILE:N	1:B:336:ILE:O	2.42	0.43
1:n:22:ILE:HG22	3:k:26:ARG:HG2	2.01	0.43
1:n:40:GLU:CD	2:M:27:LEU:HD11	2.44	0.43
1:n:182:GLN:C	1:n:185:GLN:HE22	2.27	0.43
4:g:107:VAL:HG23	4:g:110:ASP:H	1.84	0.43
4:g:266:THR:HA	4:W:344:ALA:HA	2.00	0.43
4:W:267:ASN:HD21	4:W:333:VAL:HG22	1.84	0.43
4:W:292:ILE:HG22	4:W:341:VAL:HG13	2.00	0.43
4:H:21:GLU:O	4:H:255:LYS:NZ	2.51	0.43
1:F:249:ILE:C	1:F:251:PRO:HD2	2.44	0.43
4:U:34:ASP:HB2	4:U:79:VAL:HG13	2.01	0.43
2:Y:62:LYS:HE2	2:Y:64:LEU:HD21	2.00	0.43
1:v:182:GLN:C	1:v:185:GLN:HE22	2.27	0.43
1:v:299:ILE:HB	1:v:329:ILE:HB	2.01	0.43
2:A:62:LYS:HE2	2:A:64:LEU:HD21	2.00	0.43
4:C:25:ARG:HD2	4:C:248:ILE:HD13	2.01	0.43
4:D:53:LEU:CD1	4:D:61:ILE:HD11	2.49	0.43
1:B:238:ARG:O	1:B:241:GLN:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:299:ILE:HB	1:m:329:ILE:HB	2.01	0.43
2:L:139:HIS:CB	1:O:251:PRO:HB3	2.49	0.43
4:V:160:VAL:O	4:V:164:THR:HG23	2.19	0.43
1:n:23:TYR:N	3:k:26:ARG:O	2.52	0.43
1:n:64:PHE:O	1:n:68:ARG:HG2	2.19	0.43
4:g:141:GLU:HB2	4:g:224:ASN:HD22	1.84	0.43
4:T:38:LEU:HA	4:T:79:VAL:HG12	2.01	0.43
4:W:221:ARG:NH2	4:H:6:PRO:HG2	2.34	0.43
1:K:182:GLN:C	1:K:185:GLN:HE22	2.27	0.43
1:K:299:ILE:HB	1:K:329:ILE:HB	2.01	0.43
2:E:139:HIS:CB	1:F:251:PRO:HB3	2.49	0.43
1:o:131:GLU:OE1	1:o:136:TYR:OH	2.31	0.43
4:X:203:VAL:HG11	4:X:221:ARG:HG3	2.01	0.43
4:a:140:HIS:HD1	4:a:143:ILE:HG12	1.83	0.43
4:a:196:LYS:HD2	4:a:211:ILE:HD11	2.01	0.43
1:Z:215:GLY:HA3	1:Z:216:PRO:HD3	1.84	0.43
4:C:118:ILE:HG23	4:C:129:VAL:HG23	2.01	0.42
1:B:267:ALA:HB2	1:B:320:LEU:HA	2.01	0.42
1:m:232:ASP:OD1	1:m:235:THR:N	2.42	0.42
4:V:236:MET:N	4:V:236:MET:SD	2.91	0.42
2:M:136:LYS:HD2	2:M:137:PRO:O	2.19	0.42
4:g:39:GLY:O	4:g:79:VAL:N	2.47	0.42
4:W:41:ASN:N	4:W:77:VAL:O	2.36	0.42
2:E:63:GLU:HG2	2:E:69:ARG:NE	2.34	0.42
4:I:53:LEU:O	4:I:58:LYS:NZ	2.52	0.42
1:F:267:ALA:HB2	1:F:320:LEU:HA	2.01	0.42
2:N:13:ASN:ND2	2:N:16:VAL:HG23	2.33	0.42
2:N:62:LYS:HE2	2:N:64:LEU:HD21	2.01	0.42
2:N:101:ASP:OD1	2:N:101:ASP:N	2.44	0.42
2:N:115:PHE:HZ	2:N:144:LEU:HB2	1.84	0.42
2:N:139:HIS:CB	1:R:251:PRO:HB3	2.49	0.42
4:U:140:HIS:HD1	4:U:143:ILE:HG23	1.84	0.42
1:R:238:ARG:O	1:R:241:GLN:HG3	2.19	0.42
1:R:267:ALA:HB2	1:R:320:LEU:HA	2.00	0.42
1:e:23:TYR:N	3:d:26:ARG:O	2.52	0.42
4:P:53:LEU:O	4:P:58:LYS:NZ	2.52	0.42
1:m:182:GLN:C	1:m:185:GLN:HE22	2.27	0.42
4:f:32:LEU:HD22	4:f:57:ASN:HB3	1.99	0.42
4:f:56:GLU:OE2	4:f:105:LYS:NZ	2.47	0.42
4:S:345:MET:SD	4:V:265:VAL:HG23	2.59	0.42
4:V:114:ILE:O	4:V:118:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:62:LYS:HE2	2:M:64:LEU:HD21	2.00	0.42
4:T:347:ASP:CB	4:G:8:ILE:H	2.32	0.42
1:K:202:ASP:N	1:K:202:ASP:OD1	2.52	0.42
2:E:37:THR:HG21	1:F:48:LEU:HD11	2.00	0.42
4:H:41:ASN:N	4:H:77:VAL:O	2.36	0.42
4:H:160:VAL:O	4:H:164:THR:HG23	2.19	0.42
2:N:136:LYS:HD2	2:N:137:PRO:O	2.18	0.42
4:U:118:ILE:HG23	4:U:129:VAL:HG23	2.01	0.42
4:X:53:LEU:CD1	4:X:61:ILE:HD11	2.49	0.42
1:R:237:GLU:O	1:R:240:GLN:HG3	2.19	0.42
1:e:202:ASP:OD1	1:e:202:ASP:N	2.52	0.42
2:Y:4:ILE:HA	2:Y:7:LEU:HB2	2.01	0.42
4:c:329:THR:CG2	4:c:332:LYS:HB2	2.36	0.42
4:b:135:LYS:HE2	4:b:147:THR:HB	2.01	0.42
1:v:64:PHE:O	1:v:68:ARG:HG2	2.19	0.42
4:P:32:LEU:HD22	4:P:57:ASN:HB3	1.99	0.42
4:f:325:LYS:H	4:f:325:LYS:HG3	1.61	0.42
4:f:329:THR:CG2	4:f:332:LYS:HB2	2.40	0.42
1:n:288:ILE:HD11	1:n:304:VAL:HG22	2.00	0.42
4:g:221:ARG:HG3	4:g:222:GLY:H	1.84	0.42
4:W:114:ILE:O	4:W:118:ILE:HG12	2.19	0.42
4:W:160:VAL:O	4:W:164:THR:HG23	2.19	0.42
1:Q:238:ARG:O	1:Q:241:GLN:HG3	2.18	0.42
4:G:130:LYS:HZ1	4:G:244:ASP:HA	1.85	0.42
1:o:202:ASP:OD1	1:o:202:ASP:N	2.52	0.42
4:h:338:LYS:HA	4:X:353:GLU:HB2	2.01	0.42
1:R:249:ILE:C	1:R:251:PRO:HD2	2.44	0.42
2:Y:4:ILE:O	2:Y:12:ARG:NH1	2.52	0.42
4:a:128:LYS:HB2	4:a:247:ASP:CG	2.44	0.42
2:A:115:PHE:HZ	2:A:144:LEU:HB2	1.85	0.42
4:C:31:VAL:HG21	4:C:89:ALA:HB2	2.00	0.42
4:C:347:ASP:CB	4:S:8:ILE:H	2.32	0.42
4:D:114:ILE:O	4:D:118:ILE:HG12	2.20	0.42
4:T:140:HIS:HD1	4:T:143:ILE:HG12	1.83	0.42
4:G:146:PHE:HB3	4:G:164:THR:HG22	2.01	0.42
1:o:88:PHE:HE1	1:o:125:SER:HB3	1.85	0.42
1:o:228:ASN:O	1:o:336:ILE:HD13	2.20	0.42
4:X:63:LEU:HG	4:X:166:ARG:HD3	2.00	0.42
1:R:215:GLY:HA3	1:R:216:PRO:HD3	1.84	0.42
4:b:53:LEU:CD1	4:b:61:ILE:HD11	2.49	0.42
1:v:41:LEU:HD22	1:B:44:ILE:HG13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:107:VAL:HG23	4:P:110:ASP:H	1.84	0.42
4:D:160:VAL:O	4:D:164:THR:HG23	2.20	0.42
1:m:22:ILE:HG22	3:i:26:ARG:HG2	2.01	0.42
2:L:62:LYS:HE2	2:L:64:LEU:HD21	2.00	0.42
4:V:107:VAL:HG23	4:V:110:ASP:H	1.85	0.42
1:O:89:ILE:HB	1:O:155:LYS:HB3	1.99	0.42
1:O:309:ILE:HD12	1:O:314:VAL:HG12	2.01	0.42
2:E:115:PHE:HZ	2:E:144:LEU:HB2	1.85	0.42
4:H:135:LYS:HE2	4:H:147:THR:HB	2.02	0.42
4:H:350:LEU:HB3	4:X:10:ILE:HG23	2.00	0.42
1:o:41:LEU:HD22	1:R:44:ILE:HG13	2.01	0.42
1:e:228:ASN:O	1:e:336:ILE:HD13	2.19	0.42
4:b:27:ILE:HG13	4:b:74:LYS:HB2	2.00	0.42
4:b:68:ASN:ND2	4:b:174:THR:OG1	2.42	0.42
1:Z:148:ASP:OD1	1:Z:148:ASP:N	2.44	0.42
1:Z:169:GLU:OE1	1:Z:177:ARG:NH1	2.49	0.42
3:j:50:LYS:NZ	3:j:133:THR:HB	2.33	0.42
4:P:12:PHE:HB2	4:c:352:ILE:HB	2.01	0.42
4:C:90:LEU:HG	4:C:117:TRP:CD1	2.55	0.42
1:B:317:LEU:HG	1:m:302:THR:HG21	2.01	0.42
1:m:64:PHE:O	1:m:68:ARG:HG2	2.19	0.42
2:L:4:ILE:O	2:L:12:ARG:NH1	2.52	0.42
4:S:25:ARG:HD2	4:S:248:ILE:HD13	2.02	0.42
4:S:275:LEU:HD21	4:S:335:LEU:HD11	2.02	0.42
4:V:21:GLU:O	4:V:255:LYS:NZ	2.52	0.42
4:V:38:LEU:HG	4:V:80:ILE:HA	2.01	0.42
1:O:302:THR:HB	1:n:309:ILE:HD13	2.01	0.42
1:n:148:ASP:OD1	1:n:148:ASP:N	2.46	0.42
1:n:302:THR:HA	1:n:305:MET:CG	2.47	0.42
1:Q:249:ILE:C	1:Q:251:PRO:HD2	2.44	0.42
1:Q:267:ALA:HB2	1:Q:320:LEU:HA	2.00	0.42
1:K:23:TYR:N	3:J:26:ARG:O	2.52	0.42
1:K:228:ASN:O	1:K:336:ILE:HD13	2.20	0.42
2:E:61:LYS:HB3	2:E:61:LYS:HE2	1.83	0.42
4:I:352:ILE:HG13	4:I:353:GLU:N	2.35	0.42
4:G:140:HIS:HD1	4:G:143:ILE:HG12	1.83	0.42
4:H:107:VAL:HG23	4:H:110:ASP:H	1.85	0.42
1:F:237:GLU:O	1:F:240:GLN:HG3	2.19	0.42
4:h:325:LYS:H	4:h:325:LYS:HG3	1.61	0.42
4:X:68:ASN:ND2	4:X:174:THR:OG1	2.43	0.42
4:X:160:VAL:O	4:X:164:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:317:LEU:HG	1:e:302:THR:HG21	2.01	0.42
1:Z:267:ALA:HB2	1:Z:320:LEU:HA	2.01	0.42
1:v:22:ILE:HG22	3:j:26:ARG:HG2	2.01	0.42
1:v:202:ASP:N	1:v:202:ASP:OD1	2.52	0.42
3:j:65:ARG:HG3	3:j:72:SER:O	2.20	0.42
4:C:34:ASP:HB2	4:C:79:VAL:HG13	2.01	0.42
4:C:128:LYS:HB2	4:C:247:ASP:CG	2.45	0.42
4:S:146:PHE:HB3	4:S:164:THR:HG22	2.01	0.42
1:n:88:PHE:HE1	1:n:125:SER:HB3	1.85	0.42
1:n:285:LEU:HA	1:n:288:ILE:HG22	2.02	0.42
4:T:25:ARG:HD2	4:T:248:ILE:HD13	2.01	0.42
1:K:15:LEU:HG	1:K:24:LYS:HD3	2.02	0.42
4:H:187:ASP:N	4:H:187:ASP:OD1	2.52	0.42
4:H:352:ILE:HG12	4:X:12:PHE:HA	2.02	0.42
1:o:23:TYR:N	3:l:26:ARG:O	2.52	0.42
1:o:40:GLU:CD	2:N:27:LEU:HD11	2.44	0.42
1:o:64:PHE:O	1:o:68:ARG:HG2	2.19	0.42
4:U:275:LEU:HD21	4:U:335:LEU:HD11	2.01	0.42
4:a:34:ASP:HB2	4:a:79:VAL:HG13	2.01	0.42
4:b:114:ILE:O	4:b:118:ILE:HG12	2.19	0.42
1:Z:261:ILE:N	1:Z:336:ILE:O	2.42	0.42
2:A:38:PHE:HA	2:A:41:LEU:HG	2.01	0.42
2:A:98:SER:HB3	2:A:119:ASN:HD22	1.84	0.42
4:D:107:VAL:HG23	4:D:110:ASP:H	1.85	0.42
4:D:203:VAL:HG11	4:D:221:ARG:HG3	2.02	0.42
1:m:88:PHE:HE1	1:m:125:SER:HB3	1.84	0.42
4:S:153:VAL:HA	4:S:188:VAL:HA	2.02	0.42
4:V:141:GLU:HB2	4:V:224:ASN:HD22	1.83	0.42
1:O:47:GLU:O	1:O:51:MET:HG2	2.20	0.42
1:O:295:ILE:HD11	1:O:299:ILE:HA	2.00	0.42
1:n:15:LEU:HG	1:n:24:LYS:HD3	2.02	0.42
1:n:228:ASN:O	1:n:336:ILE:HD13	2.20	0.42
2:M:63:GLU:HG2	2:M:69:ARG:NE	2.35	0.42
4:W:187:ASP:N	4:W:187:ASP:OD1	2.52	0.42
4:H:114:ILE:O	4:H:118:ILE:HG12	2.19	0.42
1:o:15:LEU:HG	1:o:24:LYS:HD3	2.02	0.42
3:l:65:ARG:HG3	3:l:72:SER:O	2.20	0.42
4:X:107:VAL:HG23	4:X:110:ASP:H	1.85	0.42
4:a:130:LYS:HZ1	4:a:244:ASP:HA	1.83	0.42
4:a:146:PHE:HB3	4:a:164:THR:HG22	2.01	0.42
1:Z:142:CYS:N	1:Z:158:ASN:OD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:88:PHE:HE1	1:v:125:SER:HB3	1.85	0.42
3:j:49:LYS:HE3	3:j:49:LYS:HB2	1.87	0.42
1:B:20:LEU:HD12	1:B:22:ILE:HD13	2.02	0.42
1:B:192:ALA:HA	1:B:195:GLU:HG2	2.02	0.42
1:B:215:GLY:HA3	1:B:216:PRO:HD3	1.84	0.42
1:m:15:LEU:HG	1:m:24:LYS:HD3	2.02	0.42
1:m:228:ASN:O	1:m:336:ILE:HD13	2.19	0.42
1:m:269:MET:O	1:m:346:GLU:HA	2.20	0.42
3:i:116:LYS:HD3	3:i:116:LYS:HA	1.86	0.42
4:f:350:LEU:HG	4:g:10:ILE:HD12	2.02	0.42
2:M:38:PHE:HA	2:M:41:LEU:HG	2.00	0.42
2:M:115:PHE:HZ	2:M:144:LEU:HB2	1.84	0.42
4:W:107:VAL:HG23	4:W:110:ASP:H	1.85	0.42
1:K:285:LEU:HA	1:K:288:ILE:HG22	2.02	0.42
3:J:50:LYS:NZ	3:J:133:THR:HB	2.33	0.42
4:I:39:GLY:H	4:I:79:VAL:HB	1.85	0.42
1:o:68:ARG:HA	1:o:68:ARG:HH11	1.85	0.42
1:o:265:ILE:HD11	1:o:320:LEU:HD11	2.02	0.42
3:l:16:LEU:HB2	3:l:17:PRO:HD3	2.02	0.42
1:R:20:LEU:HD12	1:R:22:ILE:HD13	2.02	0.42
2:Y:38:PHE:HA	2:Y:41:LEU:HG	2.00	0.42
4:b:202:ARG:HA	4:b:205:LYS:HD2	2.02	0.42
1:Z:47:GLU:O	1:Z:51:MET:HG2	2.20	0.42
4:C:153:VAL:HA	4:C:188:VAL:HA	2.02	0.42
4:D:267:ASN:HD21	4:D:333:VAL:HG22	1.85	0.42
4:D:282:TYR:CE2	4:D:286:LEU:HD11	2.55	0.42
1:m:268:VAL:O	1:m:318:SER:N	2.46	0.42
4:V:135:LYS:HE2	4:V:147:THR:HB	2.01	0.42
1:O:102:ILE:HG13	1:O:109:PHE:HB2	2.02	0.42
1:n:11:LYS:HD2	1:n:38:ASN:HD22	1.85	0.42
1:n:269:MET:O	1:n:346:GLU:HA	2.20	0.42
4:W:21:GLU:O	4:W:255:LYS:NZ	2.52	0.42
3:J:65:ARG:HG3	3:J:72:SER:O	2.20	0.42
4:G:275:LEU:HD21	4:G:335:LEU:HD11	2.01	0.42
4:H:27:ILE:HG13	4:H:74:LYS:HB2	2.00	0.42
1:F:77:LYS:O	1:F:169:GLU:HB2	2.20	0.42
1:F:192:ALA:HA	1:F:195:GLU:HG2	2.02	0.42
2:N:63:GLU:HG2	2:N:69:ARG:NE	2.35	0.42
4:U:221:ARG:HA	4:U:221:ARG:HD2	1.77	0.42
4:X:114:ILE:O	4:X:118:ILE:HG12	2.20	0.42
1:e:15:LEU:HG	1:e:24:LYS:HD3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:68:ARG:HH11	1:e:68:ARG:HA	1.85	0.42
3:d:16:LEU:HB2	3:d:17:PRO:HD3	2.02	0.42
4:b:107:VAL:HG23	4:b:110:ASP:H	1.85	0.42
4:b:187:ASP:OD1	4:b:187:ASP:N	2.52	0.42
1:v:15:LEU:HG	1:v:24:LYS:HD3	2.02	0.41
1:v:40:GLU:CD	2:A:27:LEU:HD11	2.45	0.41
2:A:81:GLY:HA2	1:B:187:THR:HG23	2.01	0.41
4:P:39:GLY:H	4:P:79:VAL:HB	1.85	0.41
1:m:40:GLU:CD	2:L:27:LEU:HD11	2.44	0.41
2:L:115:PHE:HZ	2:L:144:LEU:HB2	1.84	0.41
4:S:34:ASP:HB2	4:S:79:VAL:HG13	2.01	0.41
4:S:38:LEU:HA	4:S:79:VAL:HG12	2.02	0.41
4:g:329:THR:CG2	4:g:332:LYS:HB2	2.37	0.41
1:K:40:GLU:CD	2:E:27:LEU:HD11	2.44	0.41
1:K:68:ARG:HH11	1:K:68:ARG:HA	1.85	0.41
1:F:47:GLU:O	1:F:51:MET:HG2	2.20	0.41
2:N:4:ILE:O	2:N:12:ARG:NH1	2.52	0.41
1:R:77:LYS:O	1:R:169:GLU:HB2	2.20	0.41
1:e:40:GLU:CD	2:Y:27:LEU:HD11	2.44	0.41
3:d:65:ARG:HG3	3:d:72:SER:O	2.20	0.41
4:b:160:VAL:O	4:b:164:THR:HG23	2.19	0.41
1:Z:77:LYS:O	1:Z:169:GLU:HB2	2.20	0.41
1:Z:269:MET:N	1:Z:345:SER:O	2.40	0.41
1:v:29:PHE:O	1:v:33:MET:HG2	2.20	0.41
3:j:116:LYS:HD3	3:j:116:LYS:HA	1.86	0.41
4:D:60:TYR:CE1	4:D:162:GLU:HA	2.55	0.41
1:m:68:ARG:HH11	1:m:68:ARG:HA	1.85	0.41
1:m:202:ASP:N	1:m:202:ASP:OD1	2.52	0.41
4:f:39:GLY:H	4:f:79:VAL:HB	1.85	0.41
4:S:128:LYS:HB2	4:S:247:ASP:CG	2.44	0.41
4:V:187:ASP:OD1	4:V:187:ASP:N	2.52	0.41
3:k:65:ARG:HG3	3:k:72:SER:O	2.20	0.41
4:g:39:GLY:H	4:g:79:VAL:HB	1.85	0.41
4:g:338:LYS:HA	4:W:353:GLU:HB2	2.01	0.41
1:K:269:MET:O	1:K:346:GLU:HA	2.20	0.41
2:E:4:ILE:O	2:E:12:ARG:NH1	2.52	0.41
2:E:139:HIS:CG	1:F:251:PRO:HB3	2.55	0.41
3:J:129:VAL:HB	4:I:352:ILE:HD12	2.02	0.41
4:G:34:ASP:HB2	4:G:79:VAL:HG13	2.01	0.41
4:U:128:LYS:HB2	4:U:247:ASP:CG	2.45	0.41
4:U:160:VAL:O	4:U:164:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:187:ASP:OD1	4:X:187:ASP:N	2.52	0.41
4:X:267:ASN:HD21	4:X:333:VAL:HG22	1.85	0.41
1:e:41:LEU:HA	1:e:44:ILE:HD12	2.03	0.41
4:b:38:LEU:HG	4:b:80:ILE:HA	2.01	0.41
2:A:139:HIS:CG	1:B:251:PRO:HB3	2.55	0.41
4:D:187:ASP:OD1	4:D:187:ASP:N	2.52	0.41
4:S:203:VAL:HG11	4:S:221:ARG:HG3	2.03	0.41
4:V:60:TYR:CE1	4:V:162:GLU:HA	2.55	0.41
1:Q:26:GLU:HA	1:Q:31:ASN:HD22	1.85	0.41
1:Q:77:LYS:O	1:Q:169:GLU:HB2	2.20	0.41
4:I:145:ASN:H	4:I:225:SER:HB3	1.86	0.41
1:F:220:LYS:HA	1:F:220:LYS:HD2	1.92	0.41
4:U:347:ASP:CB	4:a:8:ILE:H	2.32	0.41
4:c:352:ILE:HG13	4:c:353:GLU:N	2.35	0.41
4:a:25:ARG:HD2	4:a:248:ILE:HD13	2.02	0.41
4:P:176:LEU:O	4:P:241:LYS:NZ	2.42	0.41
1:B:47:GLU:O	1:B:51:MET:HG2	2.20	0.41
2:L:98:SER:HB3	2:L:119:ASN:HD22	1.85	0.41
2:L:139:HIS:CG	1:O:251:PRO:HB3	2.55	0.41
1:O:267:ALA:HB2	1:O:320:LEU:HA	2.02	0.41
2:M:98:SER:HB3	2:M:119:ASN:HD22	1.85	0.41
4:W:63:LEU:HG	4:W:166:ARG:HD3	2.03	0.41
1:Q:47:GLU:O	1:Q:51:MET:HG2	2.20	0.41
1:Q:102:ILE:HG13	1:Q:109:PHE:HB2	2.02	0.41
4:I:141:GLU:HB2	4:I:224:ASN:HD22	1.86	0.41
1:o:29:PHE:O	1:o:33:MET:HG2	2.20	0.41
2:N:38:PHE:HA	2:N:41:LEU:HG	2.02	0.41
2:N:116:ILE:HD12	2:N:119:ASN:HD21	1.86	0.41
2:N:139:HIS:CG	1:R:251:PRO:HB3	2.55	0.41
4:h:352:ILE:HG13	4:h:353:GLU:N	2.36	0.41
4:U:90:LEU:HG	4:U:117:TRP:CD1	2.55	0.41
1:e:88:PHE:HE1	1:e:125:SER:HB3	1.85	0.41
4:b:60:TYR:CE1	4:b:162:GLU:HA	2.55	0.41
4:b:282:TYR:CE2	4:b:286:LEU:HD11	2.55	0.41
1:B:26:GLU:HA	1:B:31:ASN:HD22	1.85	0.41
1:B:222:LEU:HD13	1:B:256:VAL:HG23	2.03	0.41
2:L:38:PHE:HA	2:L:41:LEU:HG	2.01	0.41
3:i:16:LEU:HB2	3:i:17:PRO:HD3	2.02	0.41
4:f:352:ILE:HG13	4:f:353:GLU:N	2.35	0.41
4:V:350:LEU:HB3	4:W:10:ILE:HG23	2.01	0.41
4:T:53:LEU:CD1	4:T:61:ILE:HD11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:128:LYS:HB2	4:T:247:ASP:CG	2.44	0.41
4:W:202:ARG:HA	4:W:205:LYS:HD2	2.02	0.41
1:K:33:MET:HE3	1:K:33:MET:HB3	1.92	0.41
2:E:116:ILE:HD12	2:E:119:ASN:HD21	1.85	0.41
4:G:347:ASP:OD1	4:G:347:ASP:N	2.54	0.41
1:F:309:ILE:HD13	1:o:302:THR:HB	2.03	0.41
1:o:22:ILE:HG22	3:l:26:ARG:HG2	2.01	0.41
4:U:153:VAL:HA	4:U:188:VAL:HA	2.03	0.41
1:R:305:MET:HB3	1:e:305:MET:HE1	2.03	0.41
1:e:206:ASN:O	1:e:224:PHE:N	2.52	0.41
1:Z:20:LEU:HD12	1:Z:22:ILE:HD13	2.03	0.41
1:v:68:ARG:HA	1:v:68:ARG:HH11	1.86	0.41
4:P:141:GLU:HB2	4:P:224:ASN:HD22	1.84	0.41
4:P:143:ILE:O	4:P:225:SER:OG	2.32	0.41
4:P:338:LYS:HA	4:D:353:GLU:HB2	2.01	0.41
4:C:38:LEU:HA	4:C:79:VAL:HG12	2.02	0.41
2:L:81:GLY:HA2	1:O:187:THR:HG23	2.02	0.41
3:i:65:ARG:HG3	3:i:72:SER:O	2.20	0.41
4:S:348:ILE:HD12	4:V:257:ILE:HG23	2.02	0.41
1:O:222:LEU:HD13	1:O:256:VAL:HG23	2.03	0.41
1:O:261:ILE:O	1:O:338:SER:N	2.44	0.41
3:k:16:LEU:HB2	3:k:17:PRO:HD3	2.02	0.41
4:g:352:ILE:HG13	4:g:353:GLU:N	2.36	0.41
4:T:146:PHE:HB3	4:T:164:THR:HG22	2.02	0.41
4:W:282:TYR:CE2	4:W:286:LEU:HD11	2.55	0.41
2:E:98:SER:HB3	2:E:119:ASN:HD22	1.84	0.41
4:G:153:VAL:HA	4:G:188:VAL:HA	2.03	0.41
4:G:182:TYR:CZ	4:U:5:LEU:HD11	2.56	0.41
4:G:187:ASP:N	4:G:187:ASP:OD1	2.53	0.41
4:H:60:TYR:CE1	4:H:162:GLU:HA	2.56	0.41
1:F:26:GLU:HA	1:F:31:ASN:HD22	1.85	0.41
3:l:49:LYS:HE3	3:l:49:LYS:HB2	1.87	0.41
4:c:39:GLY:H	4:c:79:VAL:HB	1.85	0.41
4:c:257:ILE:HA	4:c:261:TYR:HD2	1.85	0.41
4:a:275:LEU:HD21	4:a:335:LEU:HD11	2.01	0.41
4:b:57:ASN:O	4:b:61:ILE:HG13	2.21	0.41
1:v:265:ILE:HD11	1:v:320:LEU:HD11	2.01	0.41
4:C:146:PHE:HB3	4:C:164:THR:HG22	2.02	0.41
4:V:282:TYR:CE2	4:V:286:LEU:HD11	2.55	0.41
1:Q:192:ALA:HA	1:Q:195:GLU:HG2	2.02	0.41
4:G:26:GLY:HA2	4:G:100:TYR:HE2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:38:LEU:HA	4:G:79:VAL:HG12	2.01	0.41
4:G:128:LYS:HB2	4:G:247:ASP:CG	2.44	0.41
4:X:135:LYS:HE2	4:X:147:THR:HB	2.02	0.41
1:e:11:LYS:HD2	1:e:38:ASN:HD22	1.85	0.41
1:e:98:ASN:N	1:e:114:ASP:OD1	2.54	0.41
1:e:261:ILE:HD13	1:e:261:ILE:HA	1.94	0.41
2:Y:63:GLU:HG2	2:Y:69:ARG:NE	2.35	0.41
2:Y:139:HIS:CG	1:Z:251:PRO:HB3	2.55	0.41
4:c:242:ILE:HD13	4:c:343:ASP:OD2	2.21	0.41
4:P:292:ILE:HA	4:P:342:LEU:H	1.85	0.41
4:P:320:THR:HB	4:P:323:GLU:HG2	2.02	0.41
4:P:352:ILE:HG13	4:P:353:GLU:N	2.36	0.41
1:B:102:ILE:HG13	1:B:109:PHE:HB2	2.02	0.41
1:m:47:GLU:O	1:m:51:MET:HG2	2.21	0.41
4:f:242:ILE:HD13	4:f:343:ASP:OD2	2.21	0.41
4:S:352:ILE:HA	4:V:337:ALA:HB3	2.03	0.41
1:O:192:ALA:HA	1:O:195:GLU:HG2	2.02	0.41
1:n:41:LEU:HD22	1:Q:44:ILE:HG13	2.02	0.41
1:n:202:ASP:N	1:n:202:ASP:OD1	2.53	0.41
4:T:134:GLY:HA2	4:T:164:THR:HG21	2.03	0.41
1:Q:191:LYS:HA	1:Q:194:TYR:HD2	1.86	0.41
1:Q:305:MET:HB3	1:K:305:MET:HE1	2.03	0.41
3:J:16:LEU:HB2	3:J:17:PRO:HD3	2.02	0.41
4:U:25:ARG:HD2	4:U:248:ILE:HD13	2.01	0.41
4:U:38:LEU:HA	4:U:79:VAL:HG12	2.02	0.41
1:R:47:GLU:O	1:R:51:MET:HG2	2.20	0.41
1:e:299:ILE:HB	1:e:329:ILE:HB	2.01	0.41
3:d:125:LEU:HB2	4:c:345:MET:SD	2.61	0.41
4:a:26:GLY:HA2	4:a:100:TYR:HE2	1.86	0.41
1:Z:102:ILE:HG13	1:Z:109:PHE:HB2	2.02	0.41
1:v:47:GLU:O	1:v:51:MET:HG2	2.21	0.41
1:v:228:ASN:O	1:v:336:ILE:HD13	2.20	0.41
1:v:269:MET:O	1:v:346:GLU:HA	2.21	0.41
1:v:285:LEU:HA	1:v:288:ILE:HG22	2.02	0.41
1:v:292:PHE:CD2	1:v:337:PRO:HB2	2.56	0.41
3:j:16:LEU:HB2	3:j:17:PRO:HD3	2.02	0.41
4:P:10:ILE:HD12	4:c:350:LEU:HG	2.02	0.41
4:P:242:ILE:HD13	4:P:343:ASP:OD2	2.21	0.41
1:B:112:ILE:HD11	1:B:128:GLN:HB3	2.03	0.41
1:m:98:ASN:N	1:m:114:ASP:OD1	2.54	0.41
2:L:116:ILE:HD12	2:L:119:ASN:HD21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:f:141:GLU:HB2	4:f:224:ASN:HD22	1.86	0.41
4:S:53:LEU:HB3	4:S:57:ASN:HB2	2.03	0.41
4:S:90:LEU:HG	4:S:117:TRP:CD1	2.56	0.41
4:S:187:ASP:OD1	4:S:187:ASP:N	2.53	0.41
1:O:20:LEU:HD12	1:O:22:ILE:HD13	2.02	0.41
1:n:68:ARG:HH11	1:n:68:ARG:HA	1.85	0.41
1:n:98:ASN:N	1:n:114:ASP:OD1	2.54	0.41
1:n:291:TYR:CZ	1:n:295:ILE:HD12	2.56	0.41
2:M:67:ASP:OD1	2:M:68:THR:N	2.54	0.41
3:k:49:LYS:HB2	3:k:49:LYS:HE3	1.87	0.41
4:g:257:ILE:HA	4:g:261:TYR:HD2	1.86	0.41
4:W:135:LYS:HE2	4:W:147:THR:HB	2.03	0.41
1:Q:91:GLU:N	1:Q:152:GLY:O	2.53	0.41
1:Q:215:GLY:HA3	1:Q:216:PRO:HD3	1.84	0.41
1:K:11:LYS:HD2	1:K:38:ASN:HD22	1.85	0.41
1:K:88:PHE:HE1	1:K:125:SER:HB3	1.85	0.41
1:K:265:ILE:HD11	1:K:320:LEU:HD11	2.02	0.41
3:J:54:LYS:HE2	4:h:14:GLU:HG2	2.03	0.41
4:G:25:ARG:HD2	4:G:248:ILE:HD13	2.02	0.41
4:H:57:ASN:O	4:H:61:ILE:HG13	2.21	0.41
1:F:20:LEU:HD12	1:F:22:ILE:HD13	2.03	0.41
1:o:47:GLU:O	1:o:51:MET:HG2	2.21	0.41
1:o:98:ASN:N	1:o:114:ASP:OD1	2.54	0.41
1:o:232:ASP:OD1	1:o:235:THR:N	2.42	0.41
1:o:299:ILE:HB	1:o:329:ILE:HB	2.02	0.41
2:N:98:SER:HB3	2:N:119:ASN:HD22	1.85	0.41
4:X:60:TYR:CE1	4:X:162:GLU:HA	2.55	0.41
4:X:282:TYR:CE2	4:X:286:LEU:HD11	2.55	0.41
1:R:192:ALA:HA	1:R:195:GLU:HG2	2.02	0.41
1:e:22:ILE:HG22	3:d:26:ARG:HG2	2.02	0.41
1:e:285:LEU:HA	1:e:288:ILE:HG22	2.02	0.41
2:Y:116:ILE:HD12	2:Y:119:ASN:HD21	1.86	0.41
4:c:39:GLY:O	4:c:79:VAL:N	2.47	0.41
4:c:61:ILE:O	4:c:65:LEU:HG	2.21	0.41
4:a:38:LEU:HA	4:a:79:VAL:HG12	2.02	0.41
4:b:194:MET:HE1	4:b:199:ALA:HB2	2.02	0.41
1:Z:15:LEU:HD23	1:Z:15:LEU:HA	1.96	0.41
1:Z:192:ALA:HA	1:Z:195:GLU:HG2	2.02	0.41
1:v:98:ASN:N	1:v:114:ASP:OD1	2.54	0.41
2:A:63:GLU:HG2	2:A:69:ARG:NE	2.34	0.41
2:A:116:ILE:HD12	2:A:119:ASN:HD21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:266:THR:HA	4:D:344:ALA:HA	2.02	0.41
1:m:292:PHE:CD2	1:m:337:PRO:HB2	2.56	0.41
2:L:67:ASP:OD1	2:L:68:THR:N	2.54	0.41
2:M:16:VAL:O	2:M:20:GLN:HG2	2.21	0.41
2:M:101:ASP:OD1	2:M:114:SER:HB2	2.21	0.41
2:M:139:HIS:CG	1:Q:251:PRO:HB3	2.55	0.41
4:g:292:ILE:HA	4:g:342:LEU:H	1.85	0.41
4:g:320:THR:HB	4:g:323:GLU:HG2	2.03	0.41
4:T:90:LEU:HG	4:T:117:TRP:CD1	2.56	0.41
4:T:187:ASP:N	4:T:187:ASP:OD1	2.53	0.41
1:Q:235:THR:HA	1:Q:238:ARG:HE	1.86	0.41
2:E:81:GLY:HA2	1:F:187:THR:HG23	2.02	0.41
3:J:116:LYS:HD3	3:J:116:LYS:HA	1.86	0.41
4:G:90:LEU:HG	4:G:117:TRP:CD1	2.56	0.41
1:o:41:LEU:HA	1:o:44:ILE:HD12	2.03	0.41
2:N:67:ASP:OD1	2:N:68:THR:N	2.54	0.41
2:N:81:GLY:HA2	1:R:187:THR:HG23	2.02	0.41
4:h:145:ASN:H	4:h:225:SER:HB3	1.86	0.41
4:U:182:TYR:CZ	4:a:5:LEU:HD11	2.56	0.41
4:U:240:ILE:H	4:U:240:ILE:HG13	1.76	0.41
1:e:265:ILE:HD11	1:e:320:LEU:HD11	2.02	0.41
2:Y:98:SER:HB3	2:Y:119:ASN:HD22	1.85	0.41
1:Z:26:GLU:HA	1:Z:31:ASN:HD22	1.85	0.41
4:P:10:ILE:HG22	4:P:12:PHE:HD1	1.86	0.40
4:P:14:GLU:HG2	3:d:54:LYS:HE2	2.02	0.40
4:P:347:ASP:HB3	4:f:8:ILE:HD13	2.02	0.40
4:C:282:TYR:O	4:C:286:LEU:HG	2.21	0.40
1:B:68:ARG:HA	1:B:71:GLU:CD	2.47	0.40
2:L:63:GLU:HG2	2:L:69:ARG:NE	2.35	0.40
3:i:54:LYS:HE2	4:g:14:GLU:HG2	2.03	0.40
4:S:160:VAL:O	4:S:164:THR:HG23	2.22	0.40
1:O:77:LYS:O	1:O:169:GLU:HB2	2.20	0.40
1:n:11:LYS:HD2	1:n:38:ASN:ND2	2.36	0.40
2:M:4:ILE:O	2:M:12:ARG:NH1	2.53	0.40
4:g:61:ILE:O	4:g:65:LEU:HG	2.21	0.40
4:g:145:ASN:H	4:g:225:SER:HB3	1.86	0.40
1:K:47:GLU:O	1:K:51:MET:HG2	2.21	0.40
4:I:349:ASP:HA	4:h:10:ILE:HD13	2.02	0.40
4:G:33:LYS:HB2	4:G:82:GLY:HA2	2.03	0.40
2:N:120:CYS:SG	2:N:124:THR:HG23	2.61	0.40
4:h:39:GLY:H	4:h:79:VAL:HB	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:68:ARG:HA	1:R:71:GLU:CD	2.47	0.40
1:R:106:ASP:N	1:R:106:ASP:OD1	2.54	0.40
1:R:191:LYS:HA	1:R:194:TYR:HD2	1.86	0.40
1:e:41:LEU:HD22	1:Z:44:ILE:HG13	2.02	0.40
2:Y:67:ASP:OD1	2:Y:68:THR:N	2.54	0.40
2:Y:81:GLY:HA2	1:Z:187:THR:HG23	2.02	0.40
4:a:348:ILE:HD12	4:b:257:ILE:HG23	2.03	0.40
2:A:120:CYS:SG	2:A:124:THR:HG23	2.61	0.40
4:C:53:LEU:HB3	4:C:57:ASN:HB2	2.03	0.40
4:D:12:PHE:HA	4:b:352:ILE:HG12	2.04	0.40
4:D:14:GLU:HG3	4:b:354:ILE:HB	2.03	0.40
4:D:272:LYS:NZ	4:D:333:VAL:HG13	2.37	0.40
4:D:352:ILE:HG12	4:V:12:PHE:HA	2.04	0.40
1:B:305:MET:HB3	1:m:305:MET:HE1	2.03	0.40
2:L:120:CYS:SG	2:L:124:THR:HG23	2.62	0.40
4:f:68:ASN:ND2	4:f:174:THR:OG1	2.44	0.40
4:S:134:GLY:HA2	4:S:164:THR:HG21	2.04	0.40
4:g:68:ASN:ND2	4:g:174:THR:OG1	2.44	0.40
4:T:182:TYR:CZ	4:G:5:LEU:HD11	2.56	0.40
1:K:41:LEU:HA	1:K:44:ILE:HD12	2.03	0.40
1:K:138:LEU:HD23	1:K:138:LEU:HA	1.96	0.40
1:F:91:GLU:N	1:F:152:GLY:O	2.54	0.40
1:o:130:LEU:HD23	1:o:130:LEU:HA	1.95	0.40
4:U:203:VAL:HG11	4:U:221:ARG:HG3	2.03	0.40
4:X:352:ILE:HG12	4:b:12:PHE:HA	2.04	0.40
1:e:80:THR:OG1	1:e:164:GLY:O	2.30	0.40
4:a:160:VAL:O	4:a:164:THR:HG23	2.21	0.40
4:a:187:ASP:OD1	4:a:187:ASP:N	2.53	0.40
4:b:178:GLN:O	4:b:241:LYS:NZ	2.53	0.40
1:v:148:ASP:OD1	1:v:148:ASP:N	2.46	0.40
4:C:26:GLY:HA2	4:C:100:TYR:HE2	1.87	0.40
1:B:235:THR:HA	1:B:238:ARG:HE	1.86	0.40
1:m:29:PHE:O	1:m:33:MET:HG2	2.21	0.40
1:m:285:LEU:HA	1:m:288:ILE:HG22	2.02	0.40
4:f:61:ILE:O	4:f:65:LEU:HG	2.21	0.40
4:S:26:GLY:HA2	4:S:100:TYR:HE2	1.86	0.40
4:V:352:ILE:HG12	4:W:12:PHE:HA	2.03	0.40
4:g:10:ILE:HG22	4:g:12:PHE:HD1	1.86	0.40
4:T:323:GLU:HA	4:T:326:GLU:HG2	2.03	0.40
4:W:203:VAL:HG11	4:W:221:ARG:HG3	2.04	0.40
1:Q:87:GLU:N	1:Q:157:THR:O	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:41:LEU:HD22	1:F:44:ILE:HG13	2.02	0.40
2:E:67:ASP:OD1	2:E:68:THR:N	2.54	0.40
4:I:61:ILE:O	4:I:65:LEU:HG	2.21	0.40
4:G:282:TYR:O	4:G:286:LEU:HG	2.22	0.40
1:o:2:TYR:OH	1:R:51:MET:SD	2.80	0.40
4:c:145:ASN:H	4:c:225:SER:HB3	1.86	0.40
4:c:292:ILE:HA	4:c:342:LEU:H	1.86	0.40
4:b:63:LEU:HG	4:b:166:ARG:HD3	2.03	0.40
1:v:41:LEU:HA	1:v:44:ILE:HD12	2.03	0.40
4:C:187:ASP:OD1	4:C:187:ASP:N	2.53	0.40
1:B:77:LYS:O	1:B:169:GLU:HB2	2.20	0.40
1:B:142:CYS:N	1:B:158:ASN:OD1	2.50	0.40
1:m:277:LEU:HD23	1:m:277:LEU:HA	1.97	0.40
3:i:129:VAL:HB	4:f:352:ILE:HD12	2.03	0.40
4:V:57:ASN:O	4:V:61:ILE:HG13	2.21	0.40
1:n:47:GLU:O	1:n:51:MET:HG2	2.21	0.40
1:Q:77:LYS:NZ	1:Q:199:LEU:O	2.48	0.40
1:K:2:TYR:OH	1:F:51:MET:SD	2.80	0.40
4:G:348:ILE:HD12	4:H:257:ILE:HG23	2.03	0.40
4:H:233:LYS:HD3	4:H:233:LYS:HA	1.95	0.40
1:F:68:ARG:HA	1:F:71:GLU:CD	2.47	0.40
1:F:331:ILE:HD13	1:F:337:PRO:HD3	2.04	0.40
1:o:285:LEU:HA	1:o:288:ILE:HG22	2.02	0.40
4:h:292:ILE:HA	4:h:342:LEU:H	1.86	0.40
4:U:282:TYR:O	4:U:286:LEU:HG	2.22	0.40
1:R:102:ILE:HG13	1:R:109:PHE:HB2	2.02	0.40
1:e:47:GLU:O	1:e:51:MET:HG2	2.21	0.40
4:c:27:ILE:HB	4:c:99:ASN:H	1.87	0.40
4:a:282:TYR:O	4:a:286:LEU:HG	2.22	0.40
4:b:21:GLU:O	4:b:255:LYS:NZ	2.52	0.40
1:Z:191:LYS:HA	1:Z:194:TYR:HD2	1.86	0.40
1:v:281:LYS:HE2	1:v:342:VAL:HG12	2.04	0.40
4:P:145:ASN:H	4:P:225:SER:HB3	1.85	0.40
4:C:5:LEU:HD11	4:a:182:TYR:CZ	2.57	0.40
4:C:33:LYS:HB2	4:C:82:GLY:HA2	2.02	0.40
1:m:265:ILE:HD11	1:m:320:LEU:HD11	2.02	0.40
4:f:145:ASN:H	4:f:225:SER:HB3	1.86	0.40
4:S:282:TYR:O	4:S:286:LEU:HG	2.22	0.40
4:V:53:LEU:HB3	4:V:57:ASN:HB3	2.04	0.40
1:O:91:GLU:N	1:O:152:GLY:O	2.53	0.40
1:O:191:LYS:HA	1:O:194:TYR:HD2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:302:THR:HA	1:O:305:MET:HG2	2.03	0.40
1:n:292:PHE:CD2	1:n:337:PRO:HB2	2.56	0.40
1:K:48:LEU:HD12	1:K:51:MET:HG3	2.04	0.40
1:K:98:ASN:N	1:K:114:ASP:OD1	2.54	0.40
1:K:291:TYR:CZ	1:K:295:ILE:HD12	2.57	0.40
2:E:101:ASP:OD1	2:E:101:ASP:N	2.44	0.40
2:E:101:ASP:OD1	2:E:114:SER:HB2	2.22	0.40
2:E:108:GLU:O	1:F:216:PRO:HB3	2.22	0.40
4:I:139:ASN:C	4:I:226:LEU:HD13	2.47	0.40
4:I:221:ARG:HG3	4:I:222:GLY:H	1.87	0.40
4:I:308:TYR:CE2	4:I:329:THR:O	2.75	0.40
4:I:320:THR:HB	4:I:323:GLU:HG2	2.03	0.40
4:H:282:TYR:CE2	4:H:286:LEU:HD11	2.55	0.40
1:F:102:ILE:HG13	1:F:109:PHE:HB2	2.02	0.40
1:F:222:LEU:HD13	1:F:256:VAL:HG23	2.03	0.40
4:h:143:ILE:O	4:h:225:SER:OG	2.32	0.40
4:U:323:GLU:HA	4:U:326:GLU:HG2	2.03	0.40
4:X:345:MET:HE2	4:X:348:ILE:HG12	2.04	0.40
1:R:222:LEU:HD13	1:R:256:VAL:HG23	2.03	0.40
1:R:235:THR:HA	1:R:238:ARG:HE	1.87	0.40
1:e:2:TYR:OH	1:Z:51:MET:SD	2.80	0.40
1:e:33:MET:HE1	2:Y:19:ILE:HB	2.04	0.40
1:e:292:PHE:CD2	1:e:337:PRO:HB2	2.56	0.40
4:c:221:ARG:HH12	4:c:347:ASP:CG	2.30	0.40
4:a:347:ASP:OD1	4:a:347:ASP:N	2.54	0.40
1:Z:68:ARG:HA	1:Z:71:GLU:CD	2.47	0.40
1:Z:222:LEU:HD13	1:Z:256:VAL:HG23	2.03	0.40
1:Z:235:THR:HA	1:Z:238:ARG:HE	1.86	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	344/350 (98%)	336 (98%)	8 (2%)	0	100	100
1	F	344/350 (98%)	336 (98%)	8 (2%)	0	100	100
1	K	344/350 (98%)	338 (98%)	6 (2%)	0	100	100
1	O	344/350 (98%)	337 (98%)	7 (2%)	0	100	100
1	Q	344/350 (98%)	336 (98%)	8 (2%)	0	100	100
1	R	344/350 (98%)	337 (98%)	7 (2%)	0	100	100
1	Z	344/350 (98%)	335 (97%)	9 (3%)	0	100	100
1	e	344/350 (98%)	338 (98%)	6 (2%)	0	100	100
1	m	344/350 (98%)	338 (98%)	6 (2%)	0	100	100
1	n	344/350 (98%)	338 (98%)	6 (2%)	0	100	100
1	o	344/350 (98%)	338 (98%)	6 (2%)	0	100	100
1	v	344/350 (98%)	338 (98%)	6 (2%)	0	100	100
2	A	146/232 (63%)	143 (98%)	3 (2%)	0	100	100
2	E	146/232 (63%)	145 (99%)	1 (1%)	0	100	100
2	L	146/232 (63%)	143 (98%)	3 (2%)	0	100	100
2	M	146/232 (63%)	144 (99%)	2 (1%)	0	100	100
2	N	146/232 (63%)	143 (98%)	3 (2%)	0	100	100
2	Y	146/232 (63%)	143 (98%)	3 (2%)	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
3	i	118/142 (83%)	112 (95%)	6 (5%)	0	100	100
3	j	118/142 (83%)	112 (95%)	6 (5%)	0	100	100
3	k	118/142 (83%)	113 (96%)	5 (4%)	0	100	100
3	l	118/142 (83%)	113 (96%)	5 (4%)	0	100	100
4	C	350/354 (99%)	338 (97%)	12 (3%)	0	100	100
4	D	349/354 (99%)	337 (97%)	12 (3%)	0	100	100
4	G	350/354 (99%)	336 (96%)	14 (4%)	0	100	100
4	H	349/354 (99%)	337 (97%)	12 (3%)	0	100	100
4	I	346/354 (98%)	336 (97%)	10 (3%)	0	100	100
4	P	346/354 (98%)	336 (97%)	10 (3%)	0	100	100
4	S	350/354 (99%)	337 (96%)	13 (4%)	0	100	100
4	T	350/354 (99%)	337 (96%)	13 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	U	350/354 (99%)	338 (97%)	12 (3%)	0	100	100
4	V	349/354 (99%)	337 (97%)	12 (3%)	0	100	100
4	W	349/354 (99%)	337 (97%)	12 (3%)	0	100	100
4	X	349/354 (99%)	337 (97%)	12 (3%)	0	100	100
4	a	350/354 (99%)	336 (96%)	14 (4%)	0	100	100
4	b	349/354 (99%)	337 (97%)	12 (3%)	0	100	100
4	c	346/354 (98%)	336 (97%)	10 (3%)	0	100	100
4	f	346/354 (98%)	336 (97%)	10 (3%)	0	100	100
4	g	346/354 (98%)	336 (97%)	10 (3%)	0	100	100
4	h	346/354 (98%)	336 (97%)	10 (3%)	0	100	100
All	All	11982/12816 (94%)	11640 (97%)	342 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	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	A	139/213 (65%)	139 (100%)	0	100	100
2	E	139/213 (65%)	139 (100%)	0	100	100
2	L	139/213 (65%)	139 (100%)	0	100	100
2	M	139/213 (65%)	139 (100%)	0	100	100
2	N	139/213 (65%)	139 (100%)	0	100	100
2	Y	139/213 (65%)	139 (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	C	308/309 (100%)	308 (100%)	0	100	100
4	D	307/309 (99%)	307 (100%)	0	100	100
4	G	308/309 (100%)	308 (100%)	0	100	100
4	H	307/309 (99%)	307 (100%)	0	100	100
4	I	305/309 (99%)	305 (100%)	0	100	100
4	P	305/309 (99%)	305 (100%)	0	100	100
4	S	308/309 (100%)	308 (100%)	0	100	100
4	T	308/309 (100%)	308 (100%)	0	100	100
4	U	308/309 (100%)	308 (100%)	0	100	100
4	V	307/309 (99%)	307 (100%)	0	100	100
4	W	307/309 (99%)	307 (100%)	0	100	100
4	X	307/309 (99%)	307 (100%)	0	100	100
4	a	308/309 (100%)	308 (100%)	0	100	100
4	b	307/309 (99%)	307 (100%)	0	100	100
4	c	305/309 (99%)	305 (100%)	0	100	100
4	f	305/309 (99%)	305 (100%)	0	100	100
4	g	305/309 (99%)	305 (100%)	0	100	100
4	h	305/309 (99%)	305 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	10770/11424 (94%)	10770 (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 (110) such sidechains are listed below:

Mol	Chain	Res	Type
1	v	5	GLN
1	v	38	ASN
1	v	124	ASN
2	A	119	ASN
2	A	139	HIS
3	j	85	GLN
4	P	224	ASN
4	C	57	ASN
4	C	250	HIS
4	C	322	GLN
4	D	267	ASN
4	D	322	GLN
1	B	32	ASN
1	B	38	ASN
1	B	124	ASN
1	B	193	HIS
1	B	206	ASN
1	B	227	ASN
1	B	310	ASN
1	B	319	ASN
1	m	5	GLN
1	m	32	ASN
1	m	38	ASN
1	m	124	ASN
2	L	119	ASN
2	L	139	HIS
4	f	224	ASN
4	S	57	ASN
4	S	250	HIS
4	S	322	GLN
4	V	322	GLN
1	O	32	ASN
1	O	38	ASN
1	O	124	ASN
1	O	193	HIS

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Mol	Chain	Res	Type
1	O	206	ASN
1	O	227	ASN
1	n	38	ASN
2	M	119	ASN
2	M	139	HIS
3	k	85	GLN
3	k	114	ASN
4	g	224	ASN
4	T	57	ASN
4	T	250	HIS
4	T	271	ASN
4	T	322	GLN
4	W	267	ASN
4	W	322	GLN
1	Q	32	ASN
1	Q	38	ASN
1	Q	193	HIS
1	Q	206	ASN
1	Q	227	ASN
1	Q	310	ASN
1	Q	319	ASN
1	K	38	ASN
2	E	119	ASN
2	E	139	HIS
4	I	224	ASN
4	G	57	ASN
4	G	250	HIS
4	G	322	GLN
4	H	322	GLN
1	F	32	ASN
1	F	38	ASN
1	F	124	ASN
1	F	193	HIS
1	F	206	ASN
1	F	227	ASN
1	o	32	ASN
1	o	38	ASN
2	N	119	ASN
2	N	139	HIS
3	l	85	GLN
4	h	57	ASN
4	h	224	ASN

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Mol	Chain	Res	Type
4	U	57	ASN
4	U	250	HIS
4	U	322	GLN
4	X	178	GLN
4	X	267	ASN
4	X	322	GLN
1	R	32	ASN
1	R	38	ASN
1	R	124	ASN
1	R	193	HIS
1	R	206	ASN
1	R	227	ASN
1	R	310	ASN
1	R	319	ASN
1	e	5	GLN
1	e	32	ASN
1	e	38	ASN
1	e	124	ASN
2	Y	119	ASN
2	Y	139	HIS
4	c	57	ASN
4	c	224	ASN
4	a	57	ASN
4	a	250	HIS
4	a	322	GLN
4	b	267	ASN
4	b	322	GLN
1	Z	32	ASN
1	Z	38	ASN
1	Z	124	ASN
1	Z	193	HIS
1	Z	206	ASN
1	Z	227	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (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

This section contains visualisations of the EMDB entry EMD-42964. 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

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

6.5 Orthogonal surface views

This section was not generated.

6.6 Mask visualisation

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

7 Map analysis

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

7.1 Map-value distribution

This section was not generated.

7.2 Volume estimate versus contour level

This section was not generated.

7.3 Rotationally averaged power spectrum

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

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

9 Map-model fit

This section was not generated.