



Full wwPDB EM Validation Report ⓘ

Mar 23, 2026 – 03:11 AM UTC

PDB ID : 8CYG / pdb_00008cyg
EMDB ID : EMD-27077
Title : Cryo-EM structure of TTMV-LY1 anellovirus virus-like particle
Authors : Liou, S.H.; Delagrave, S.; Swanson, K.
Deposited on : 2022-05-23
Resolution : 3.98 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

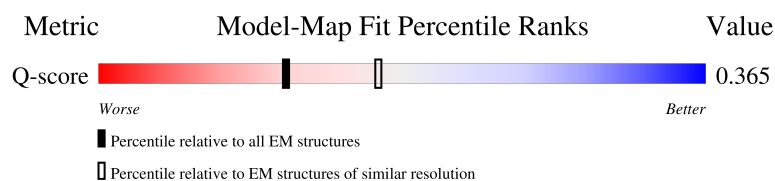
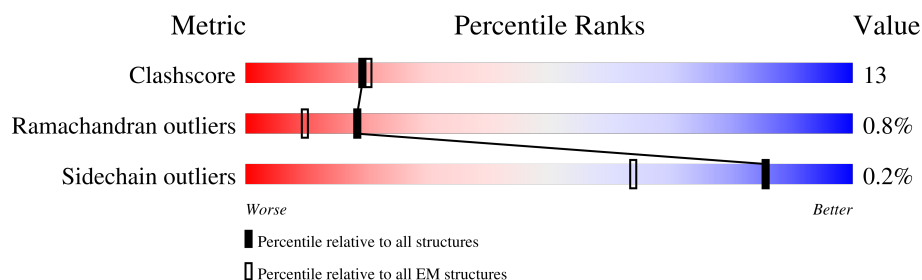
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.98 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	7512 (3.48 - 4.48)

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

Mol	Chain	Length	Quality of chain
1	0	672	
1	1	672	
1	2	672	
1	3	672	

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Mol	Chain	Length	Quality of chain
1	4	672	8% 55%17%27%
1	5	672	8% 55%17%27%
1	6	672	7% 55%17%27%
1	7	672	7% 55%17%27%
1	A	672	12% 55%17%27%
1	B	672	10% 55%18%27%
1	C	672	9% 55%17%27%
1	D	672	11% 55%17%27%
1	E	672	11% 55%17%27%
1	F	672	10% 55%18%27%
1	G	672	10% 54%18%27%
1	H	672	9% 55%17%27%
1	I	672	8% 55%18%27%
1	J	672	8% 55%17%27%
1	K	672	7% 54%18%27%
1	L	672	7% 55%18%27%
1	M	672	8% 55%17%27%
1	N	672	10% 55%18%27%
1	O	672	15% 55%17%27%
1	P	672	10% 55%17%27%
1	Q	672	9% 55%17%27%
1	R	672	10% 55%17%27%
1	S	672	10% 55%17%27%
1	T	672	12% 55%17%27%
1	U	672	10% 55%17%27%

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Mol	Chain	Length	Quality of chain
1	V	672	
1	W	672	
1	X	672	
1	Y	672	
1	Z	672	
1	a	672	
1	b	672	
1	c	672	
1	d	672	
1	e	672	
1	f	672	
1	g	672	
1	h	672	
1	i	672	
1	j	672	
1	k	672	
1	l	672	
1	m	672	
1	n	672	
1	o	672	
1	p	672	
1	q	672	
1	r	672	
1	s	672	
1	t	672	

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Mol	Chain	Length	Quality of chain
1	u	672	
1	v	672	
1	w	672	
1	x	672	
1	y	672	
1	z	672	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 234597 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 Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	a	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	b	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	c	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	d	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	3	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	4	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	5	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	6	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	7	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	I	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	J	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	K	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	L	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	M	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	e	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	f	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	h	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	i	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	j	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	k	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	l	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	m	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	n	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	o	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	p	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	q	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	r	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	s	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	t	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	u	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	v	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	w	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	x	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	y	490	Total	C	N	O	S	0	0
			3909	2495	664	736	14		
1	1	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	2	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	O	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	z	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	A	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	B	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	D	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	E	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	F	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	G	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	H	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	N	490	Total	C	N	O	S	0	0
			3909	2495	664	736	14		
1	P	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	Q	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	R	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	T	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	U	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	V	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	W	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	X	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	Y	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	Z	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		
1	C	490	Total	C	N	O	S	0	0
			3910	2496	664	736	14		

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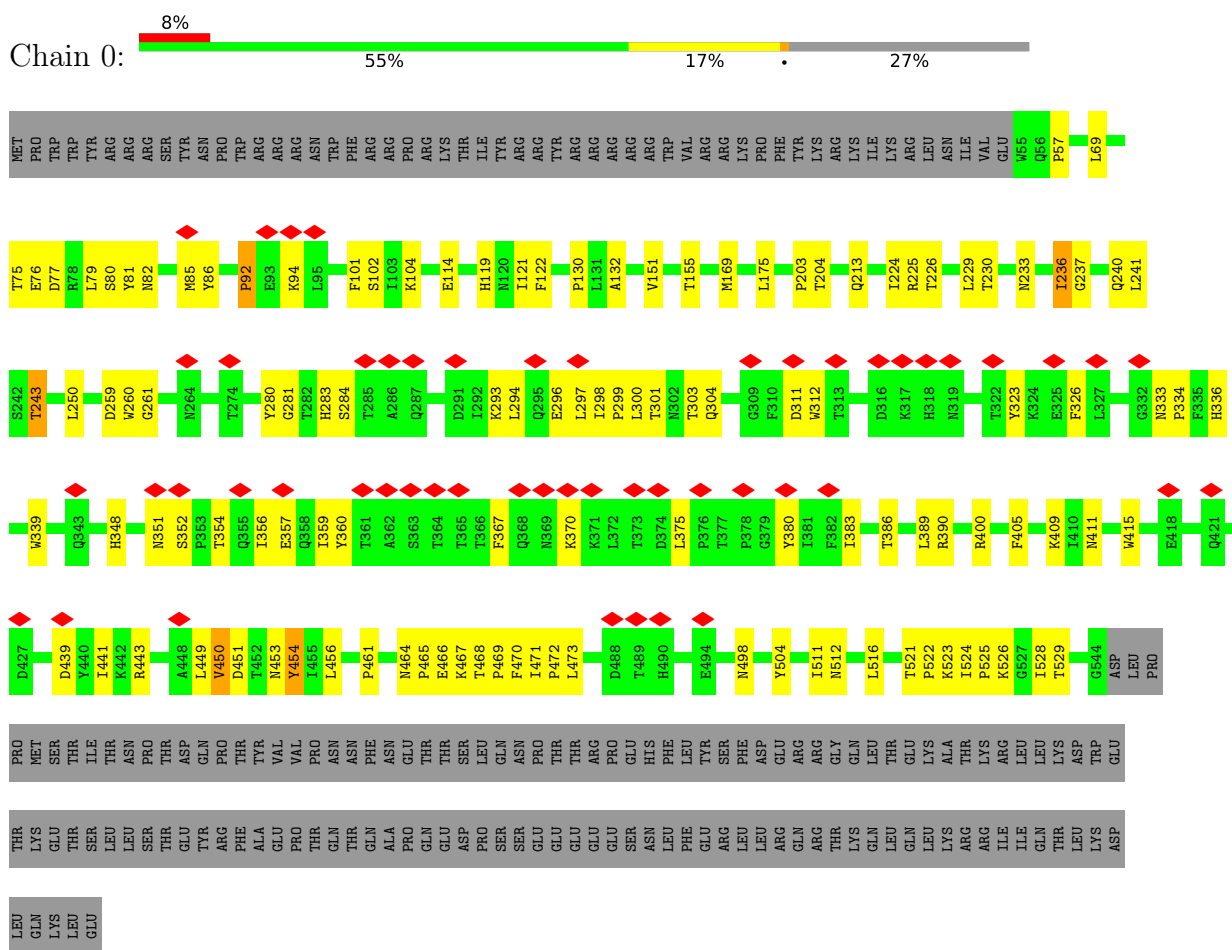
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	S	490	Total	C	N	O	S	0	0
			3909	2495	664	736	14		

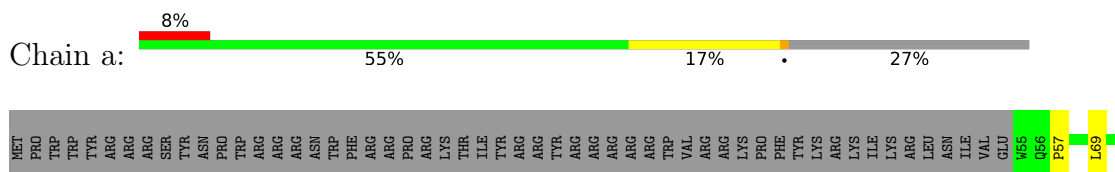
3 Residue-property plots

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

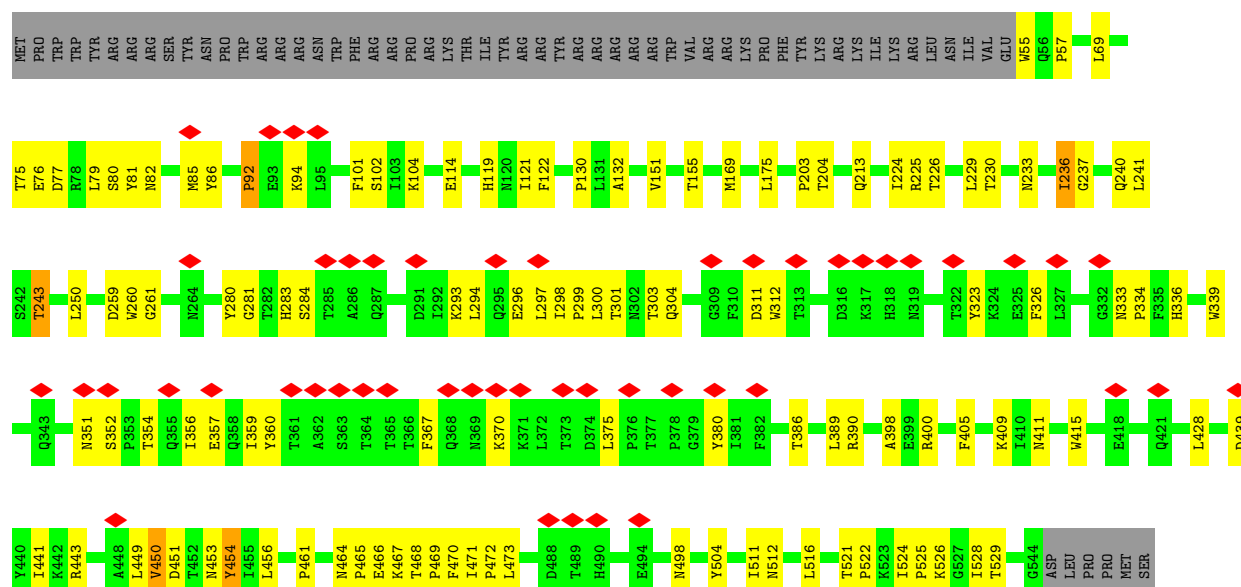
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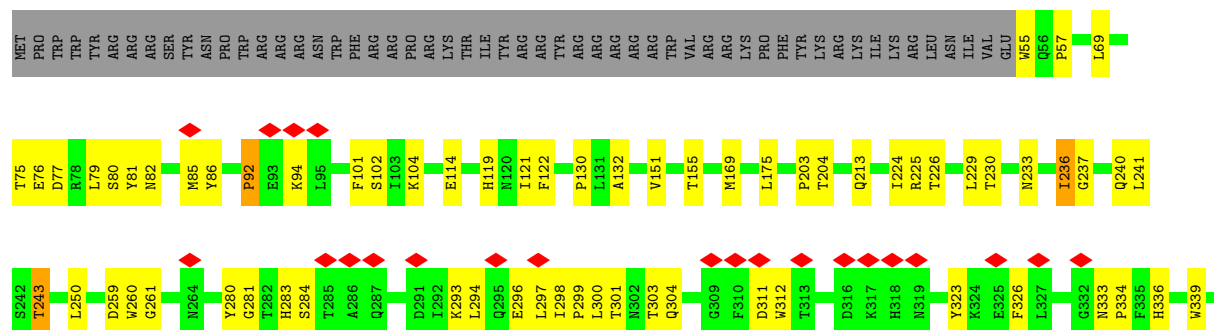


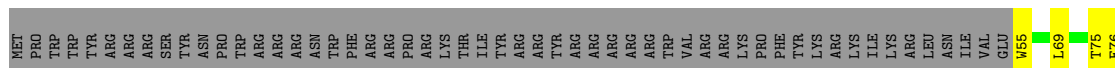
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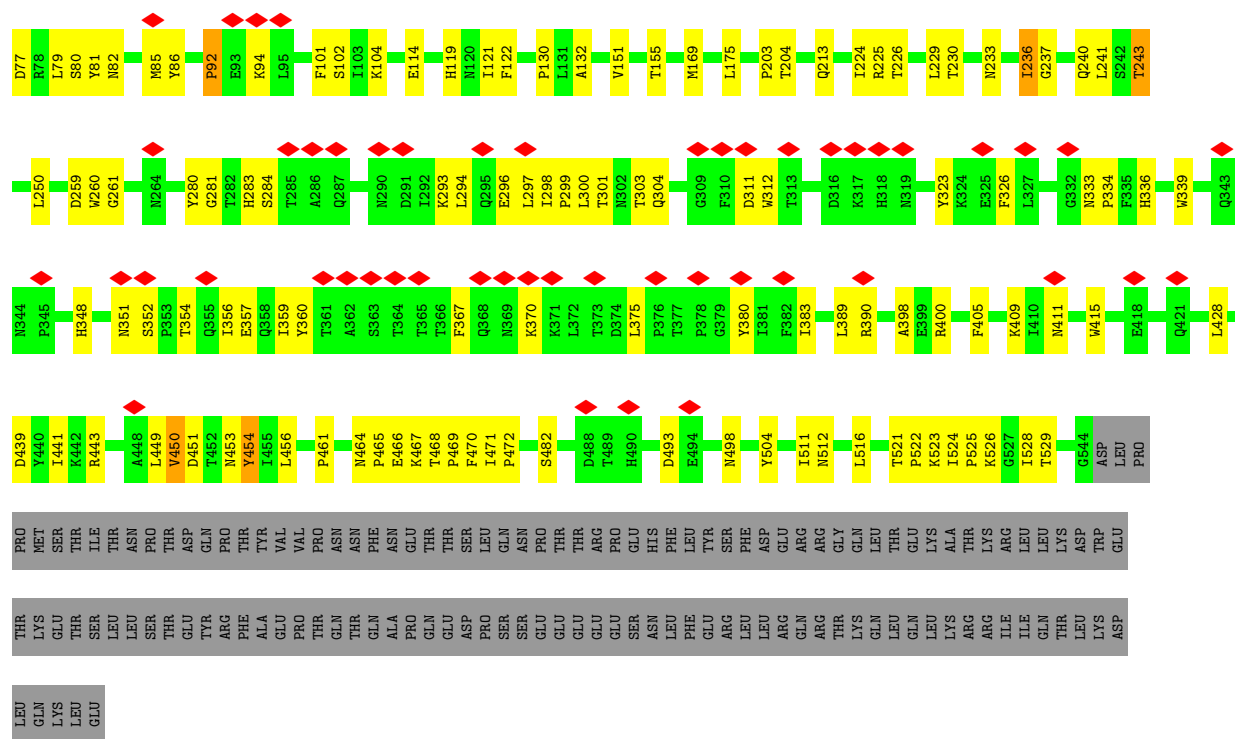


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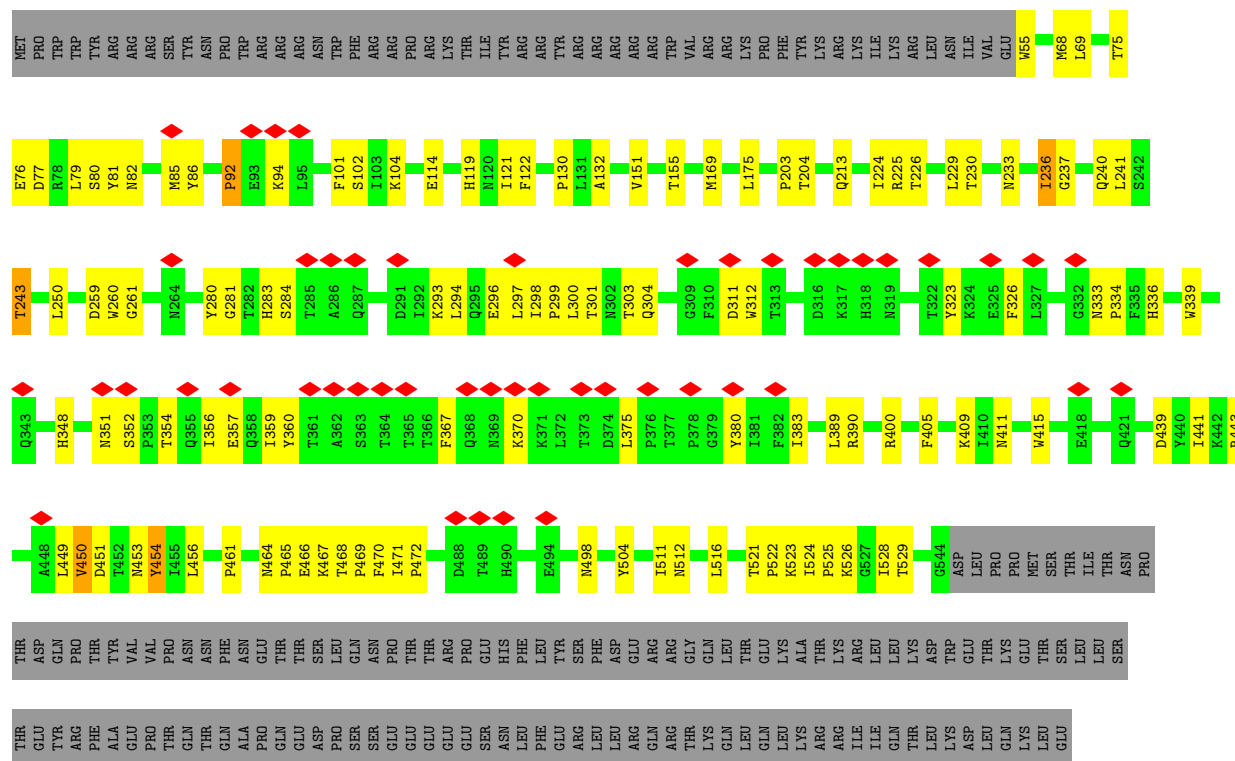




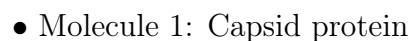




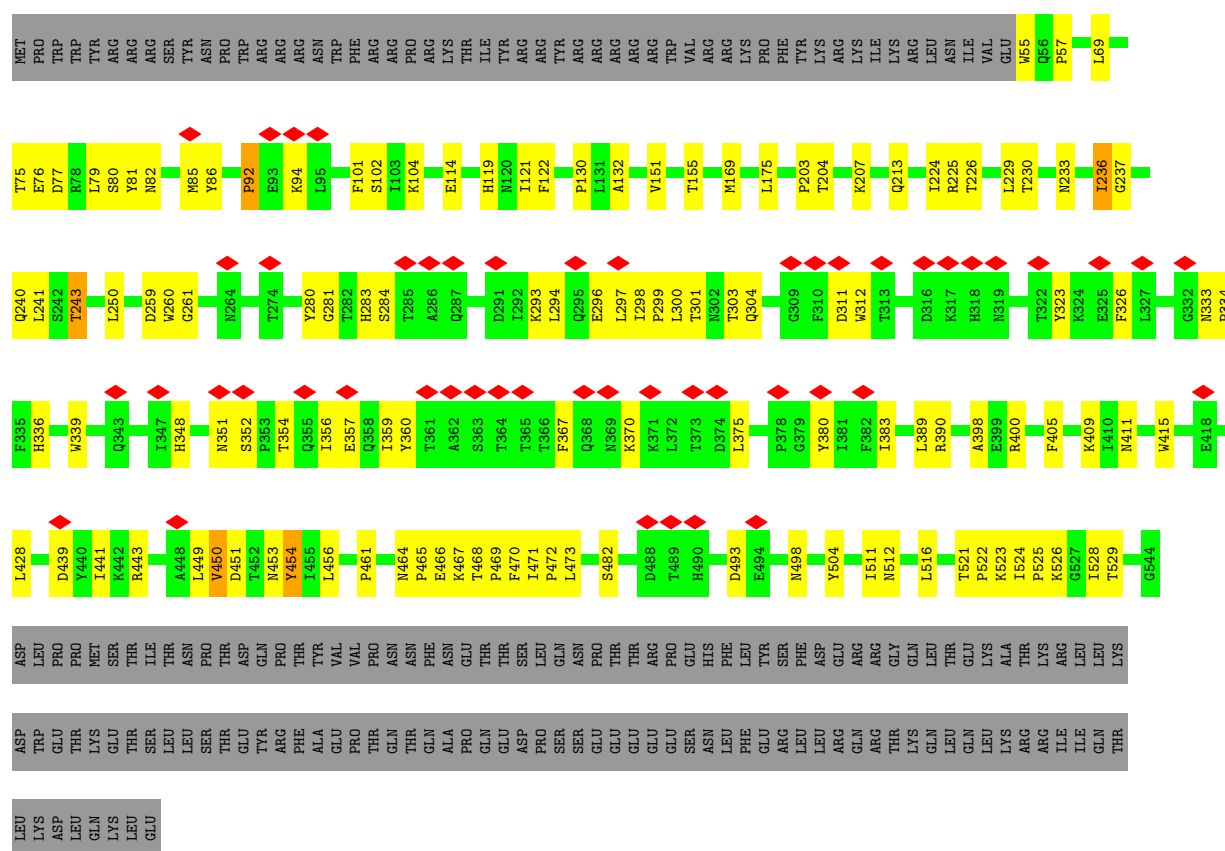
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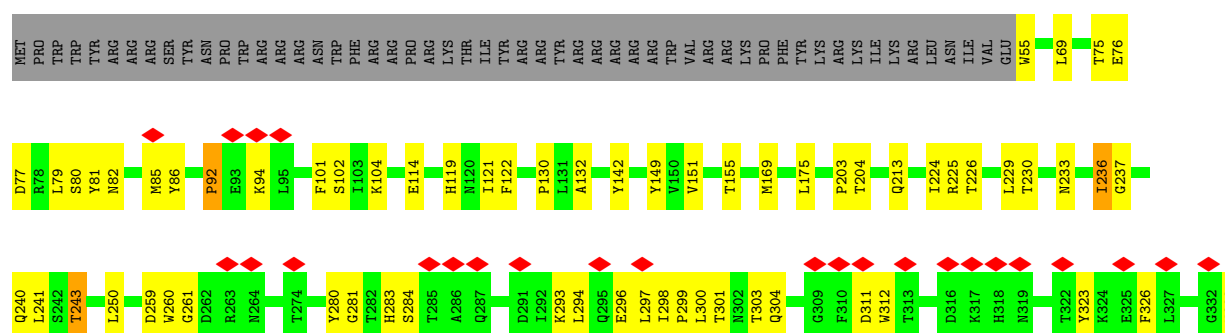
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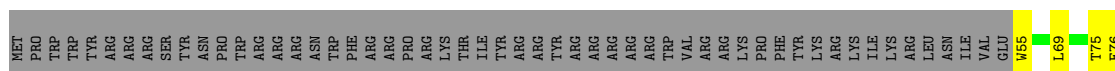


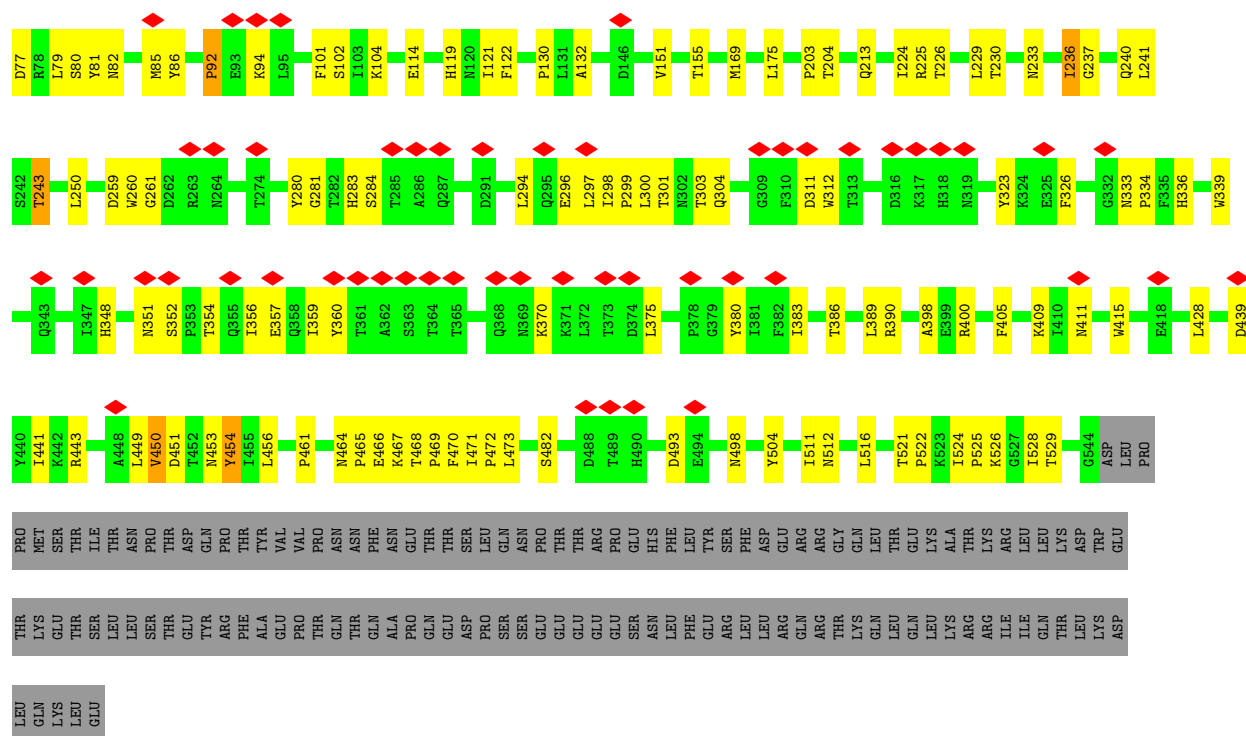
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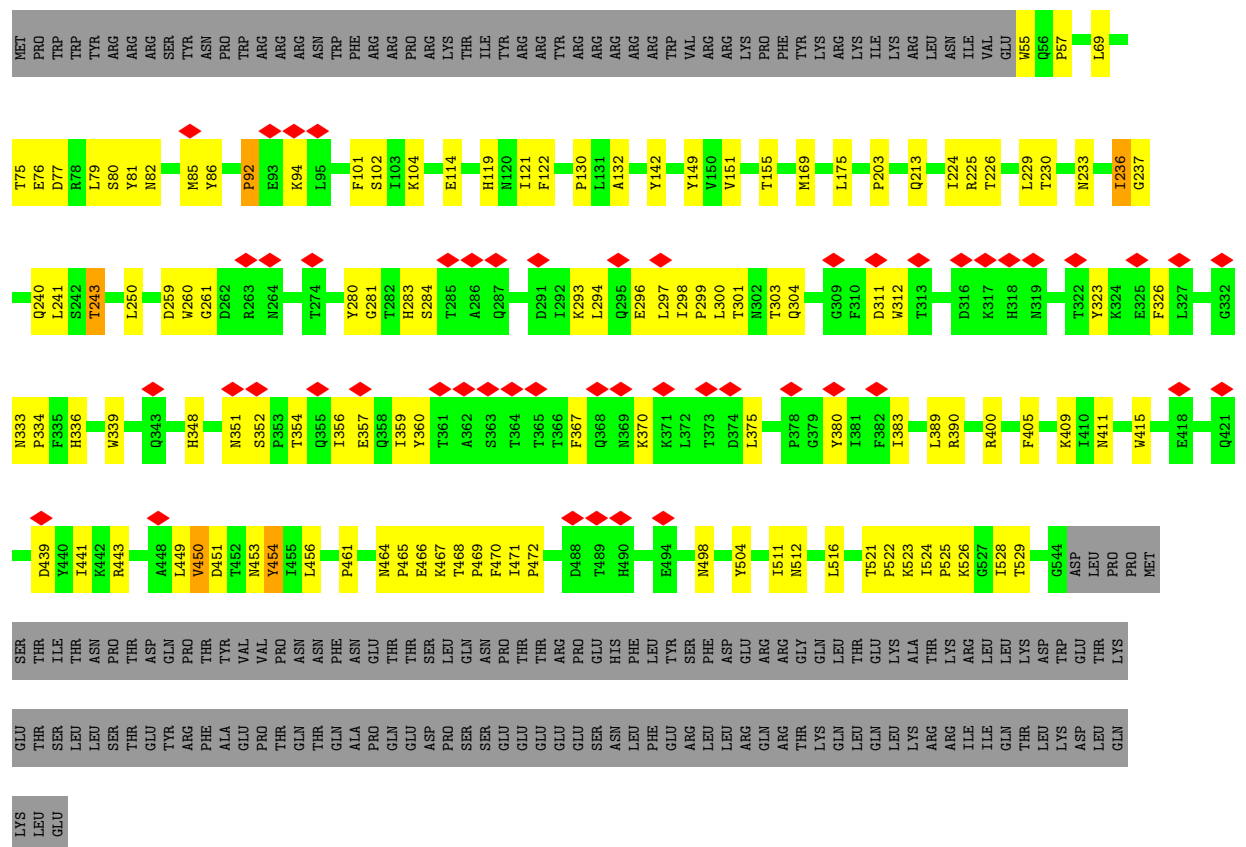
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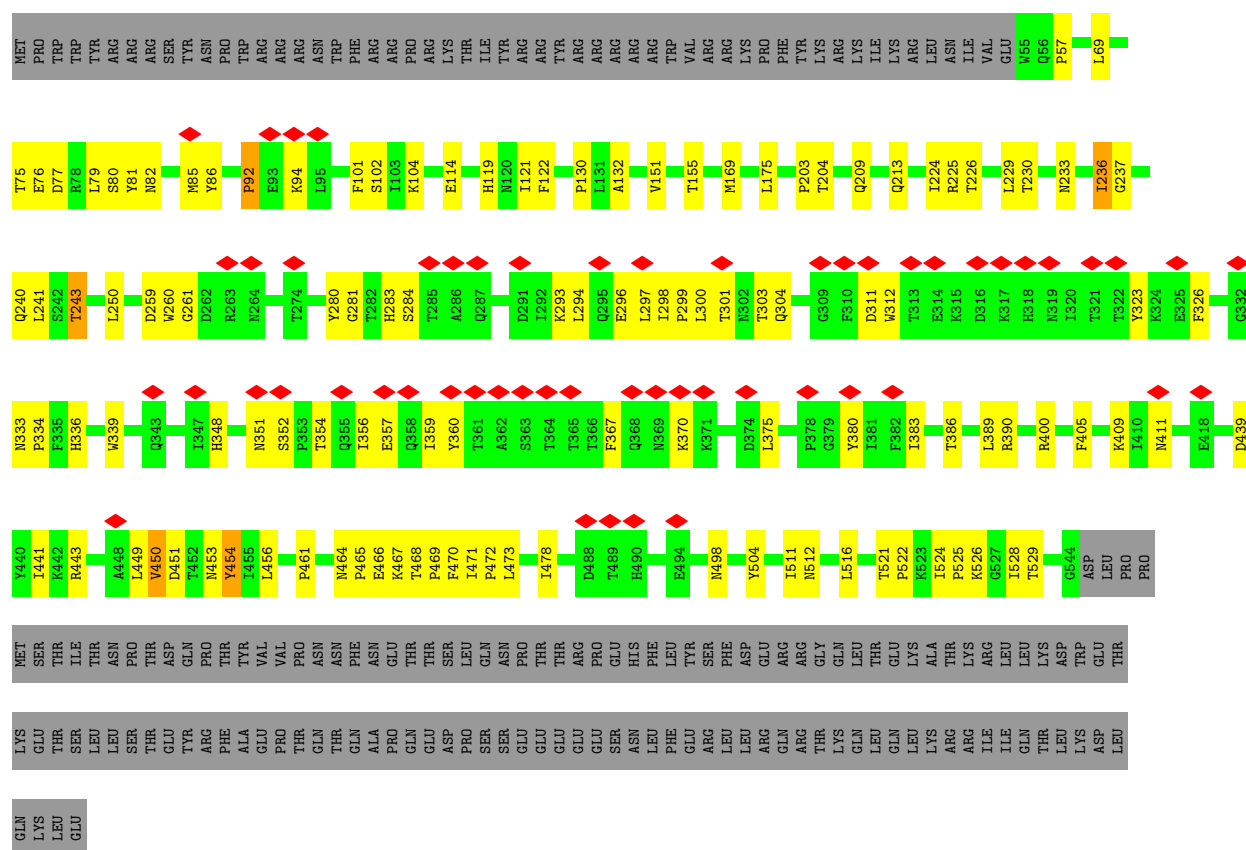




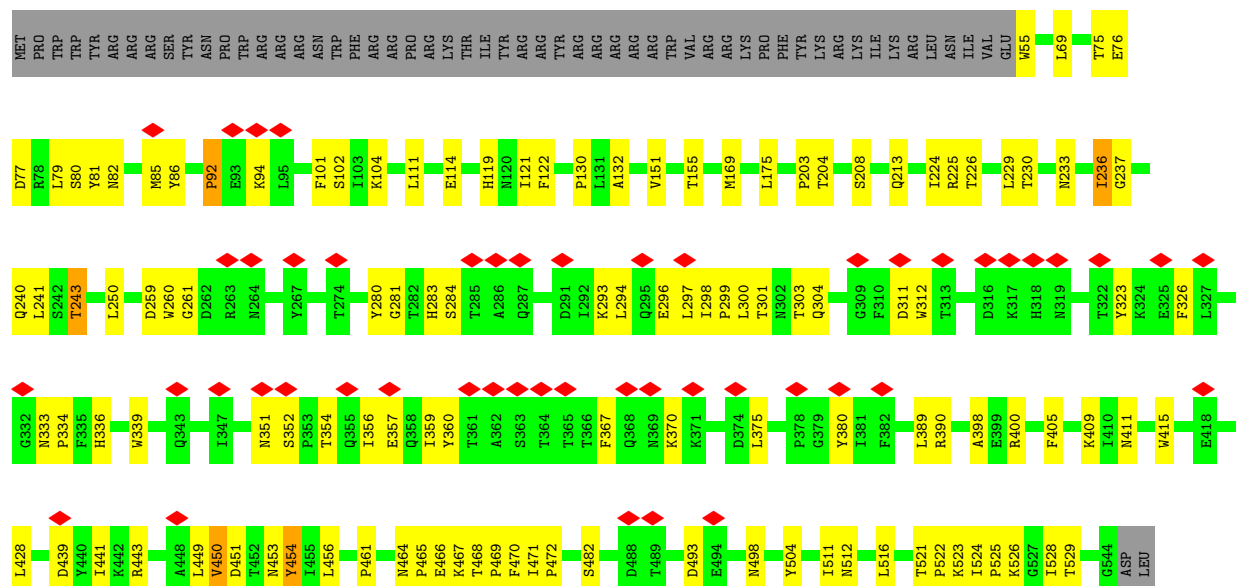
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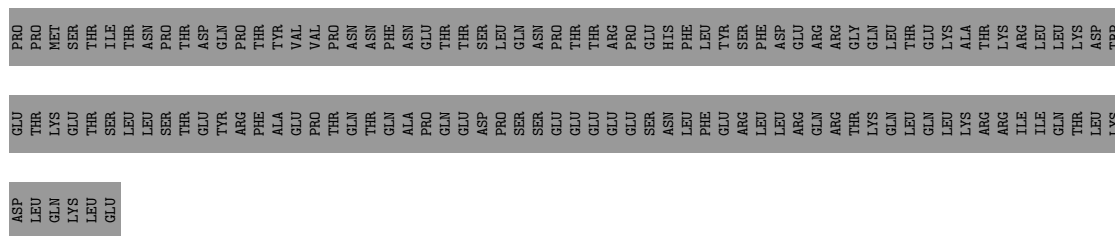


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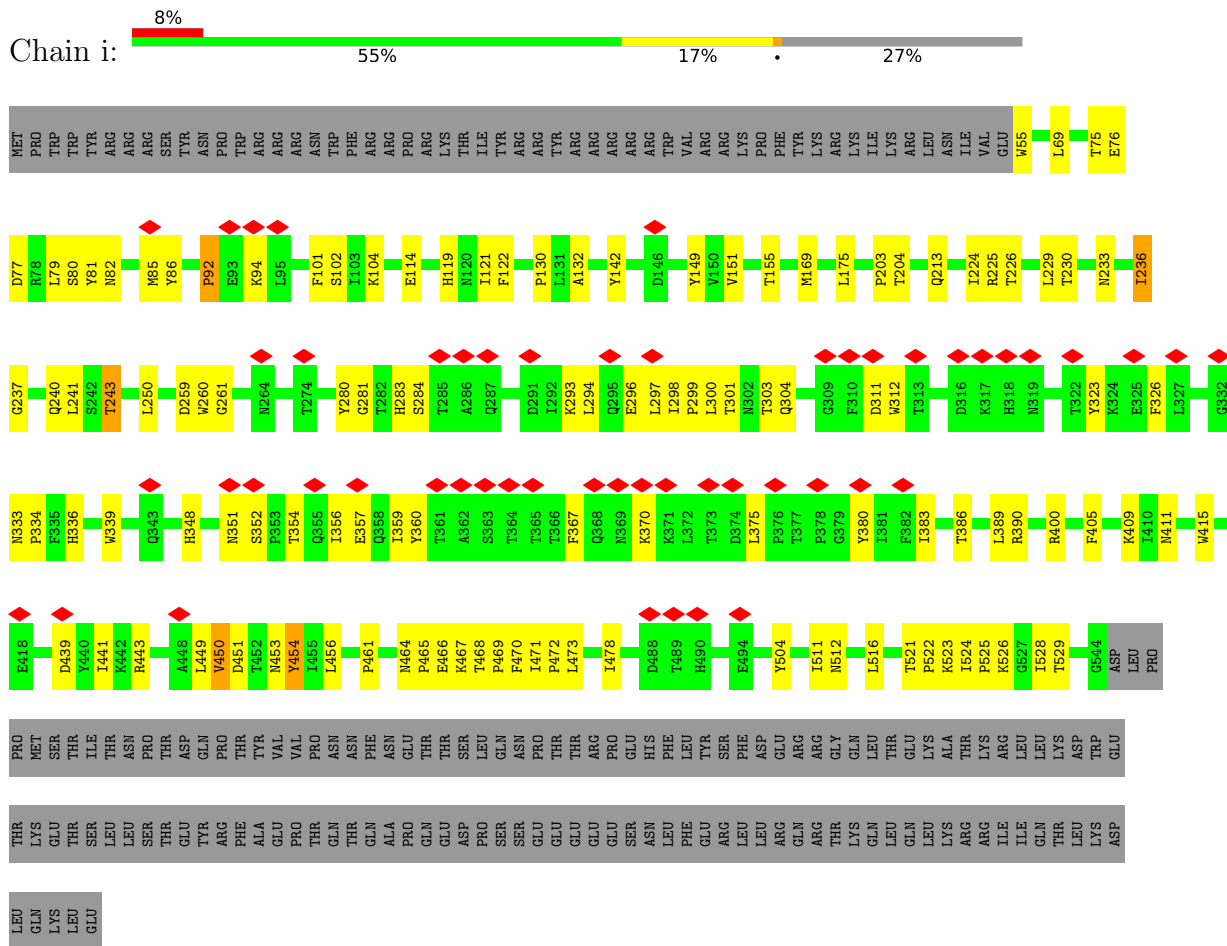


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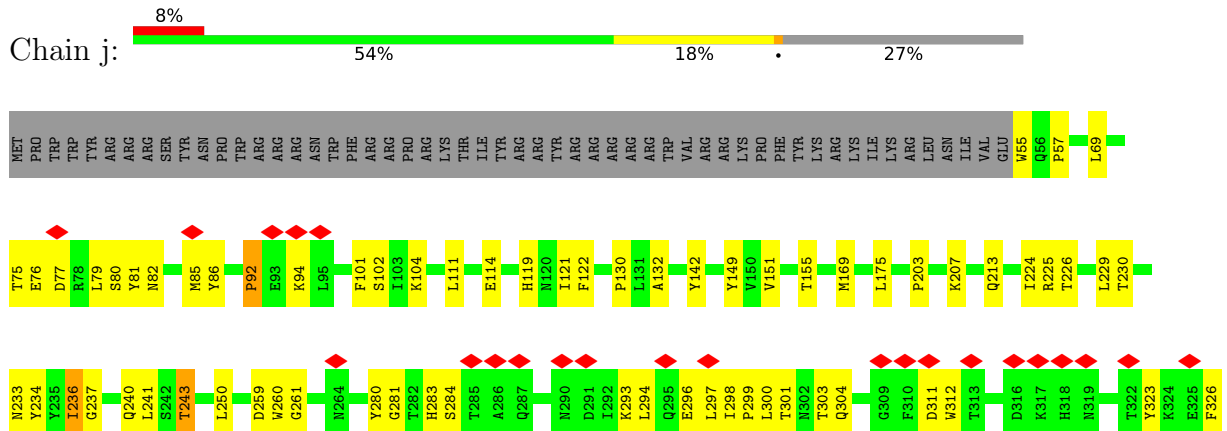




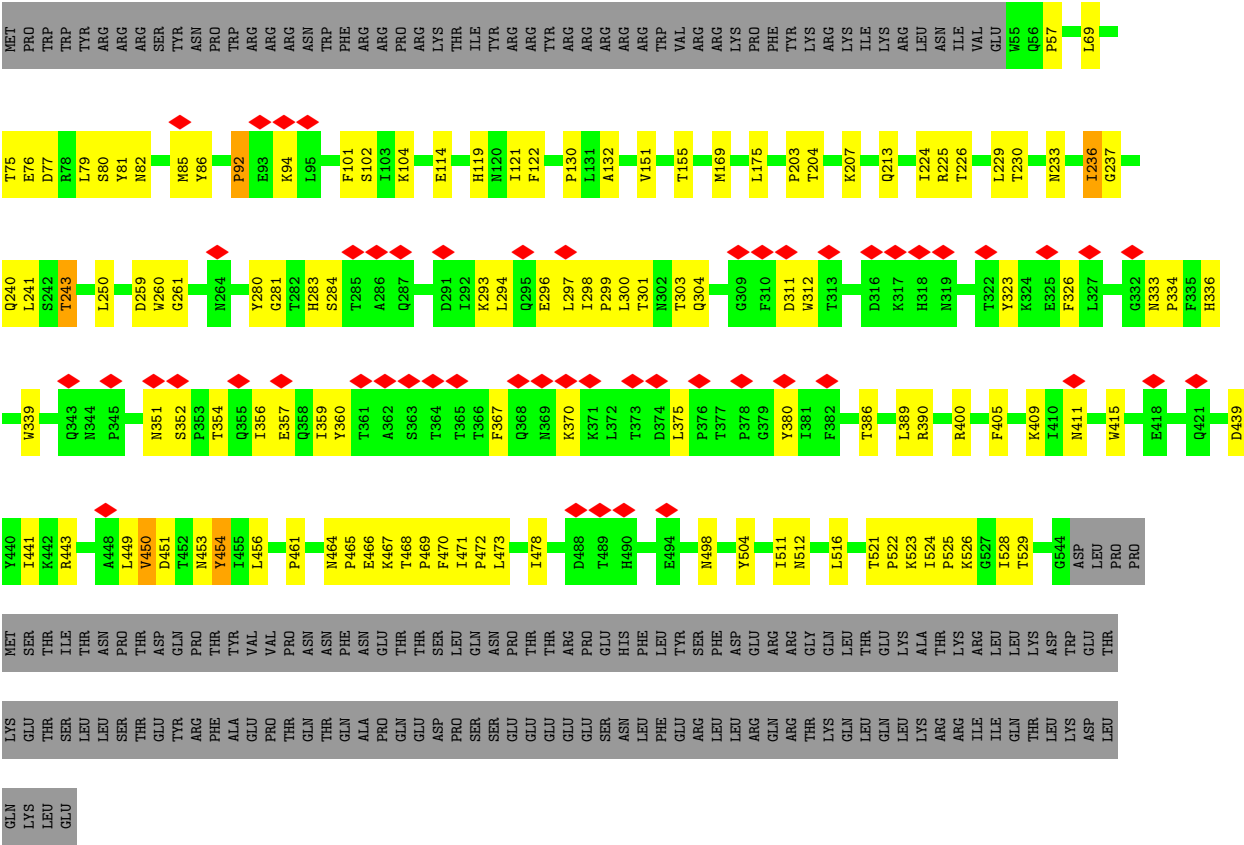
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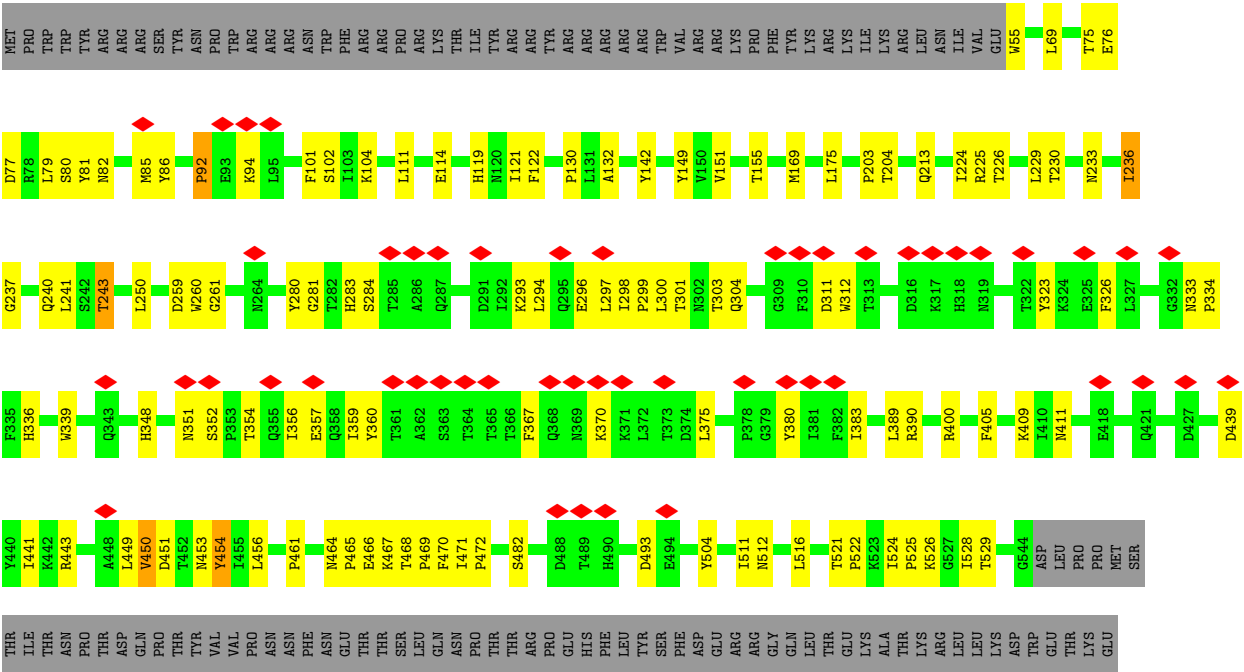
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● Molecule 1: Capsid protein

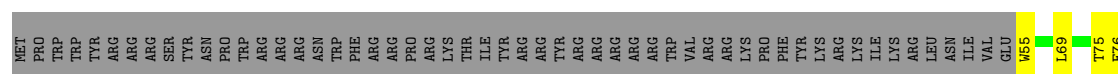


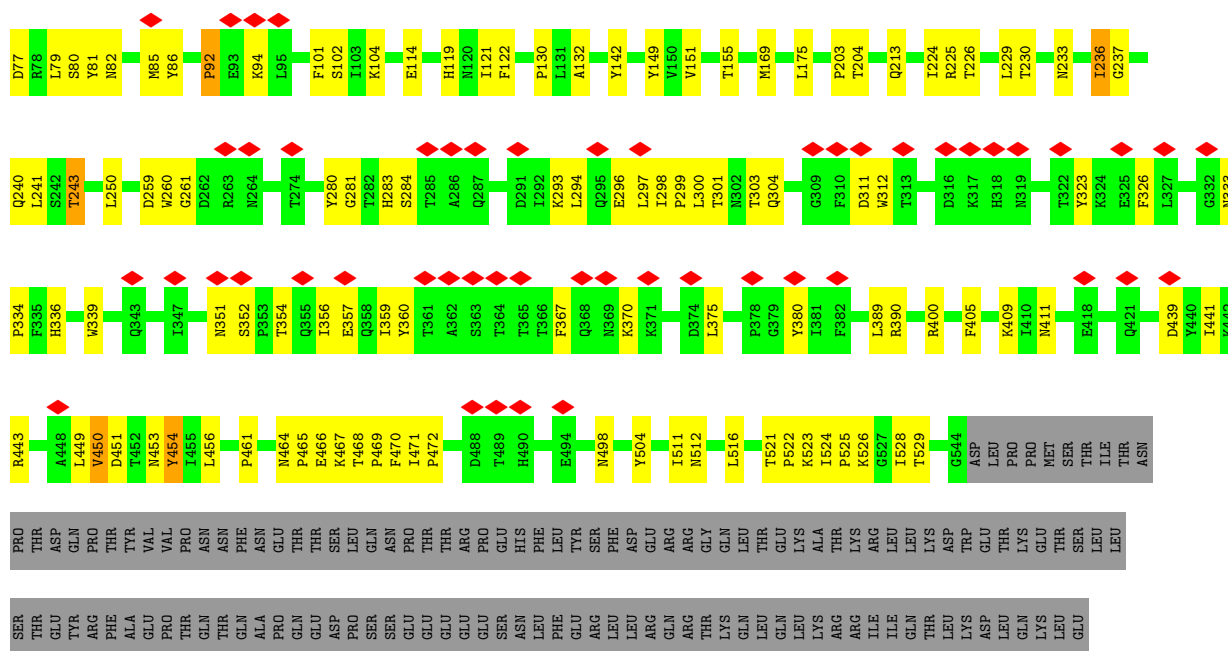
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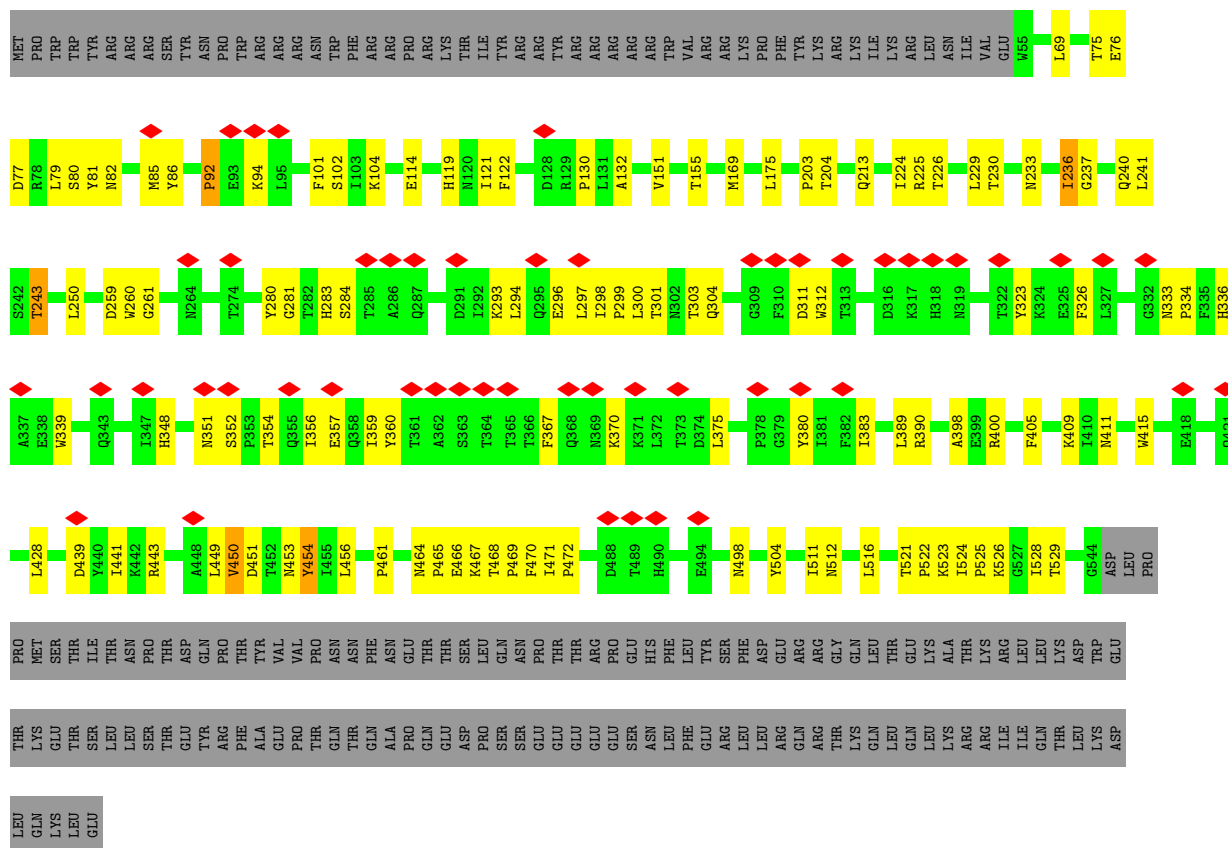
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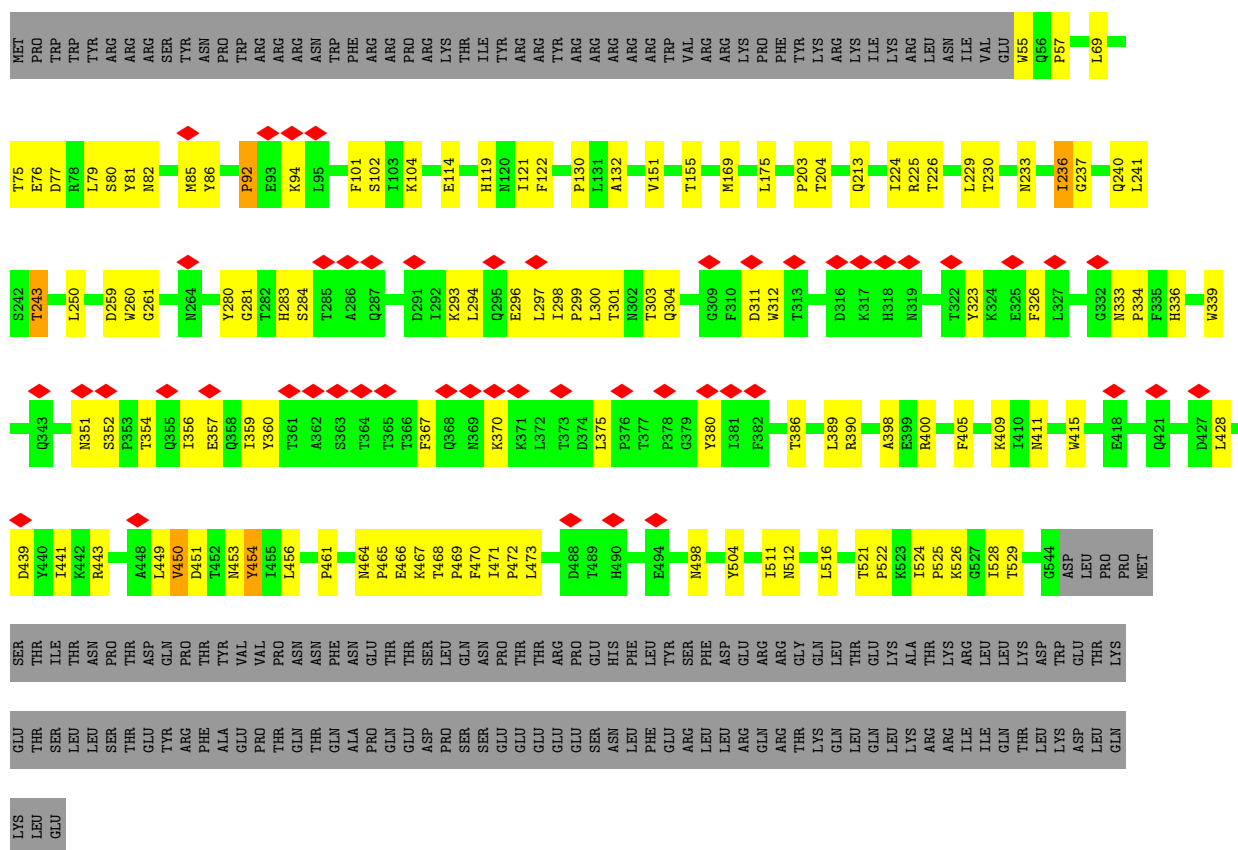




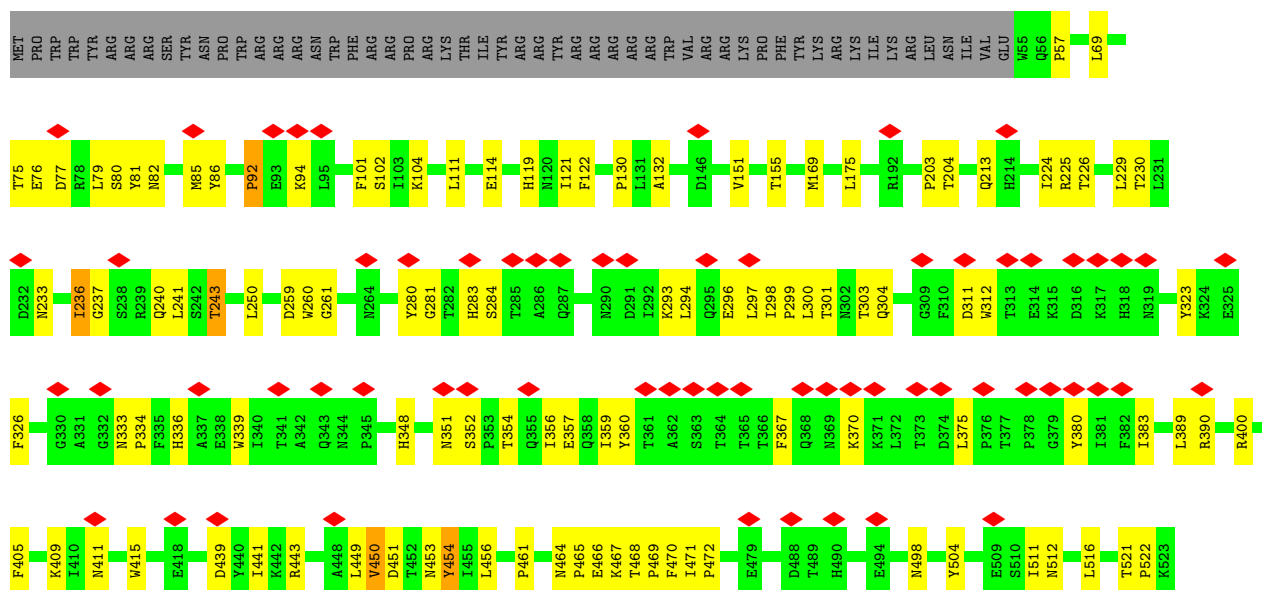
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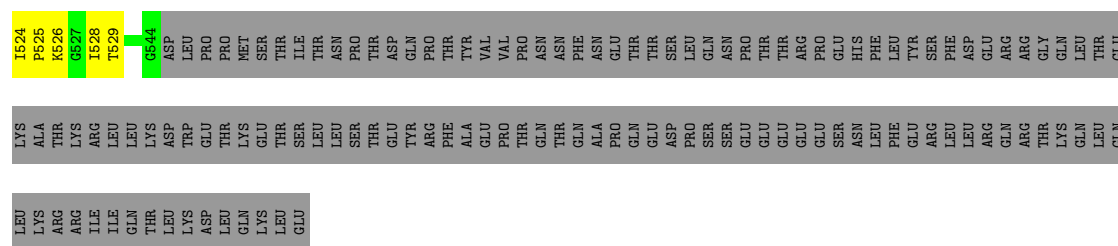


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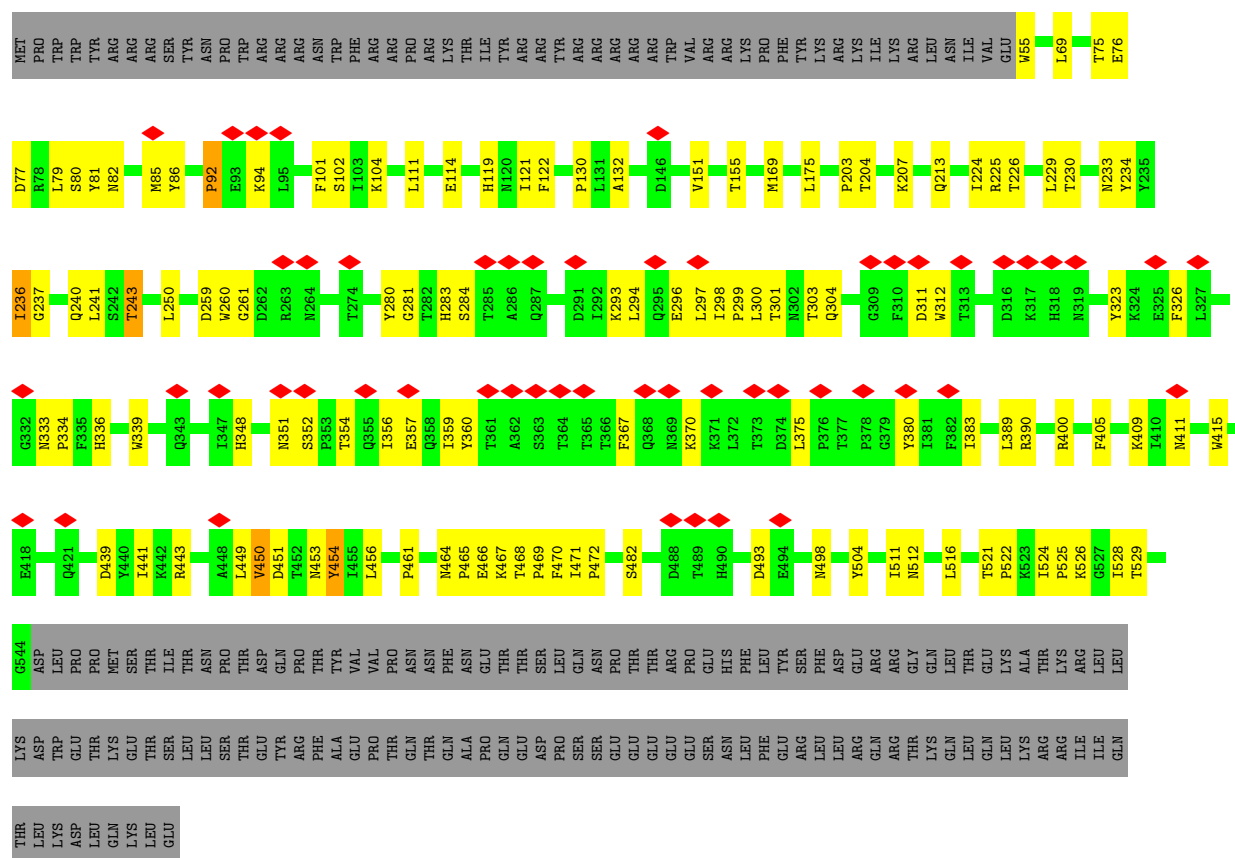


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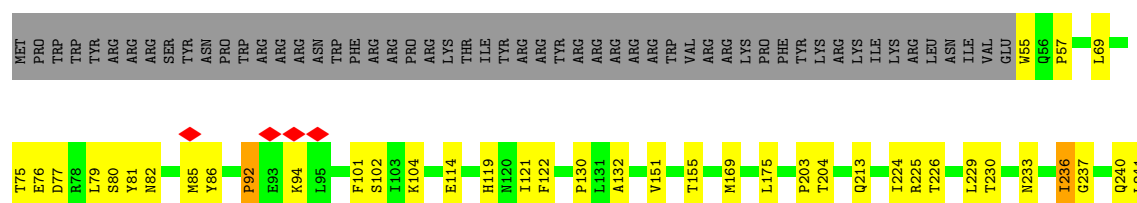


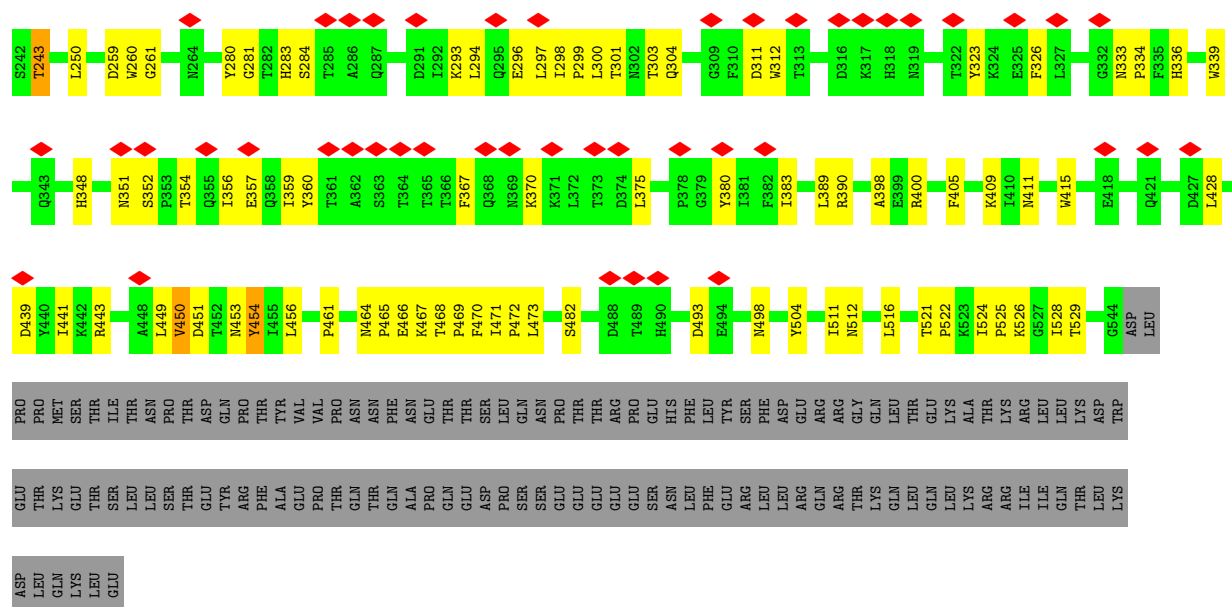


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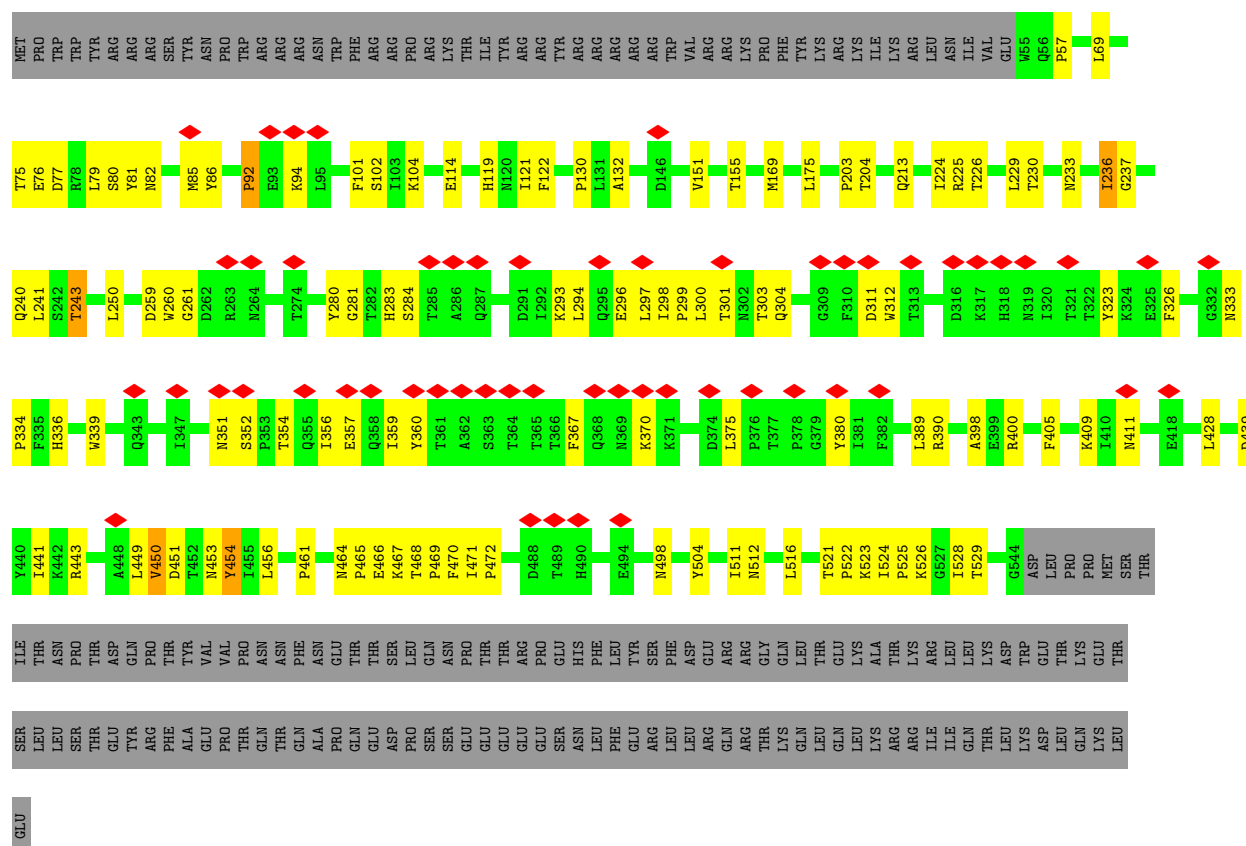


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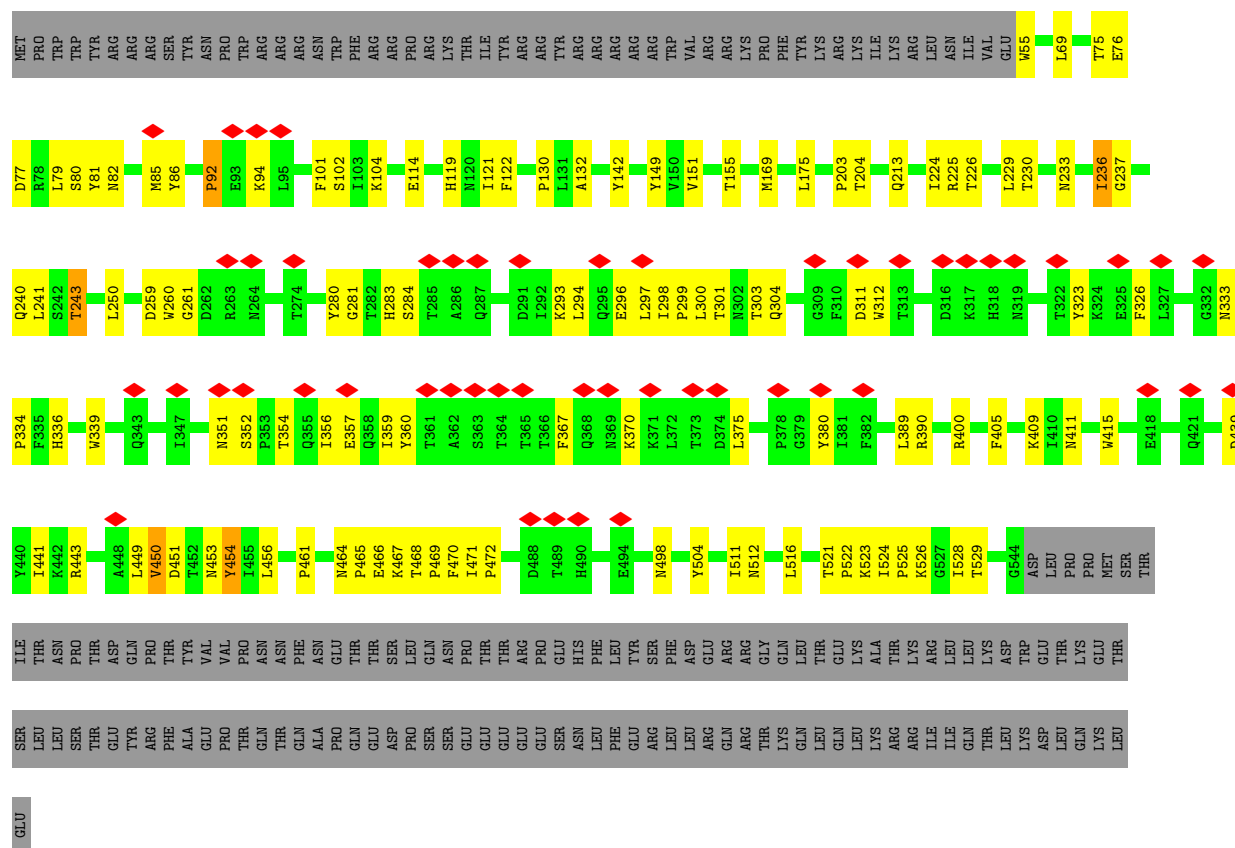


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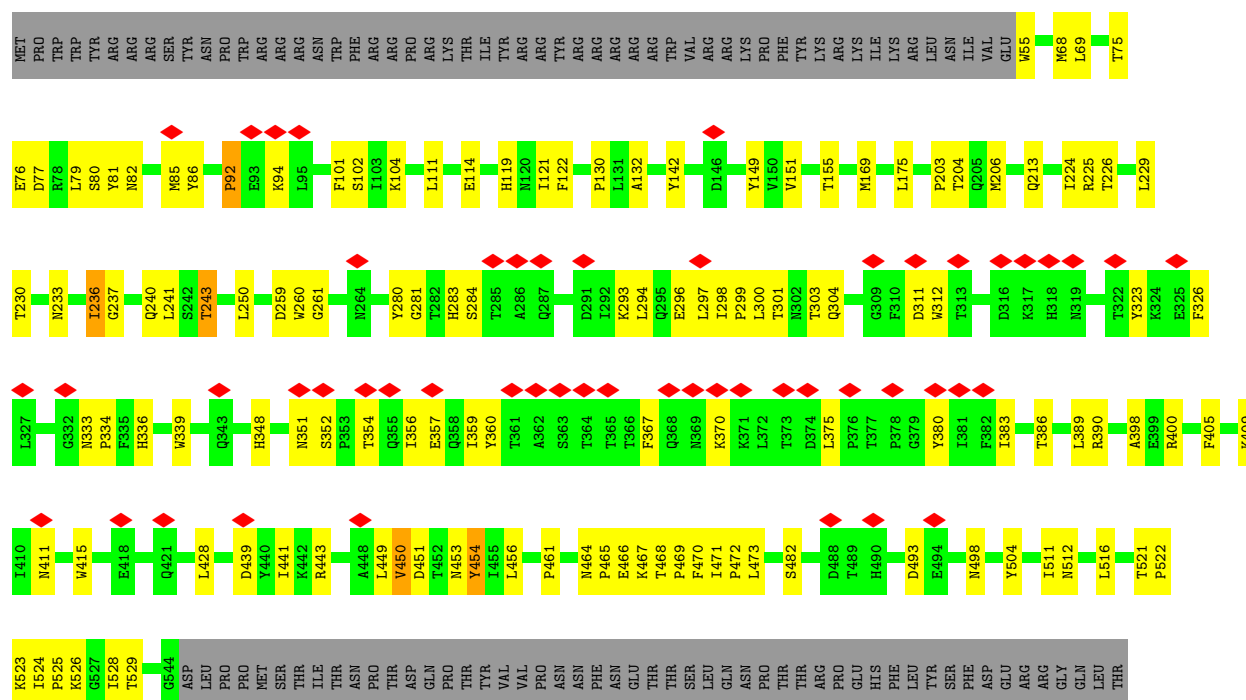


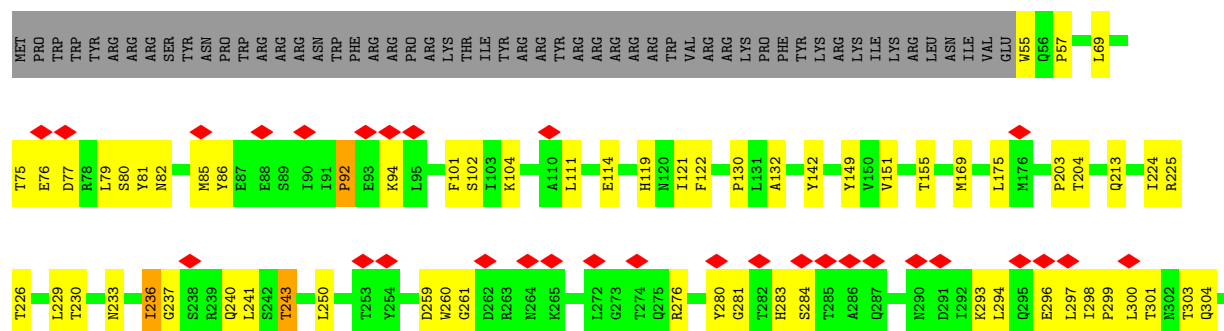
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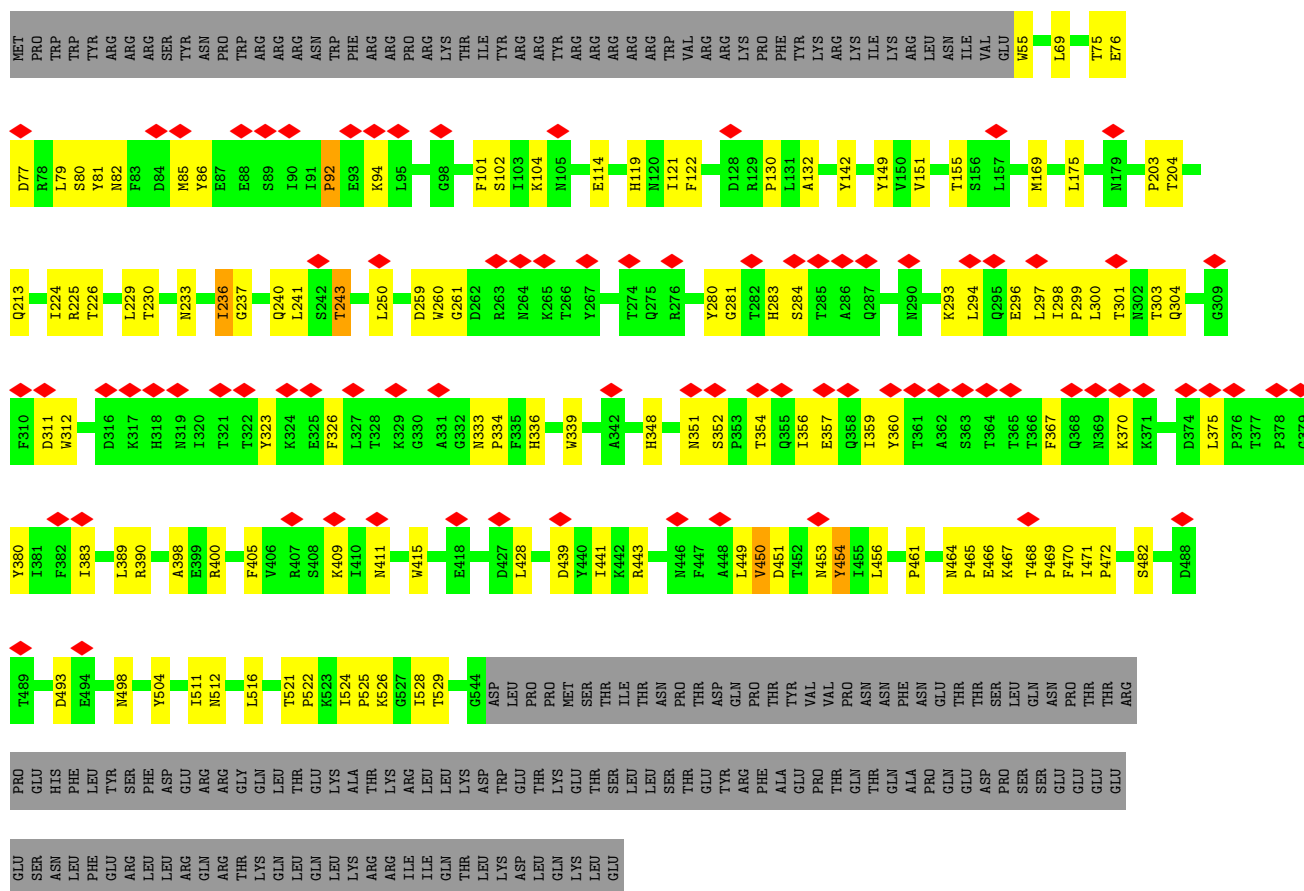


Molecule 1: Capsid protein

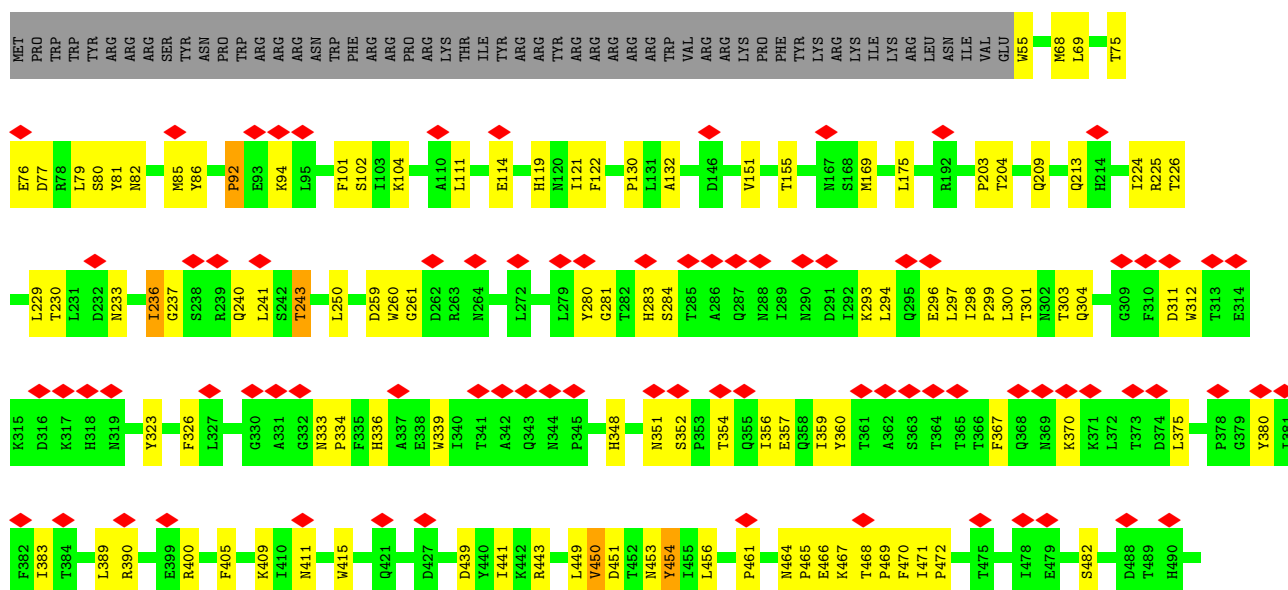




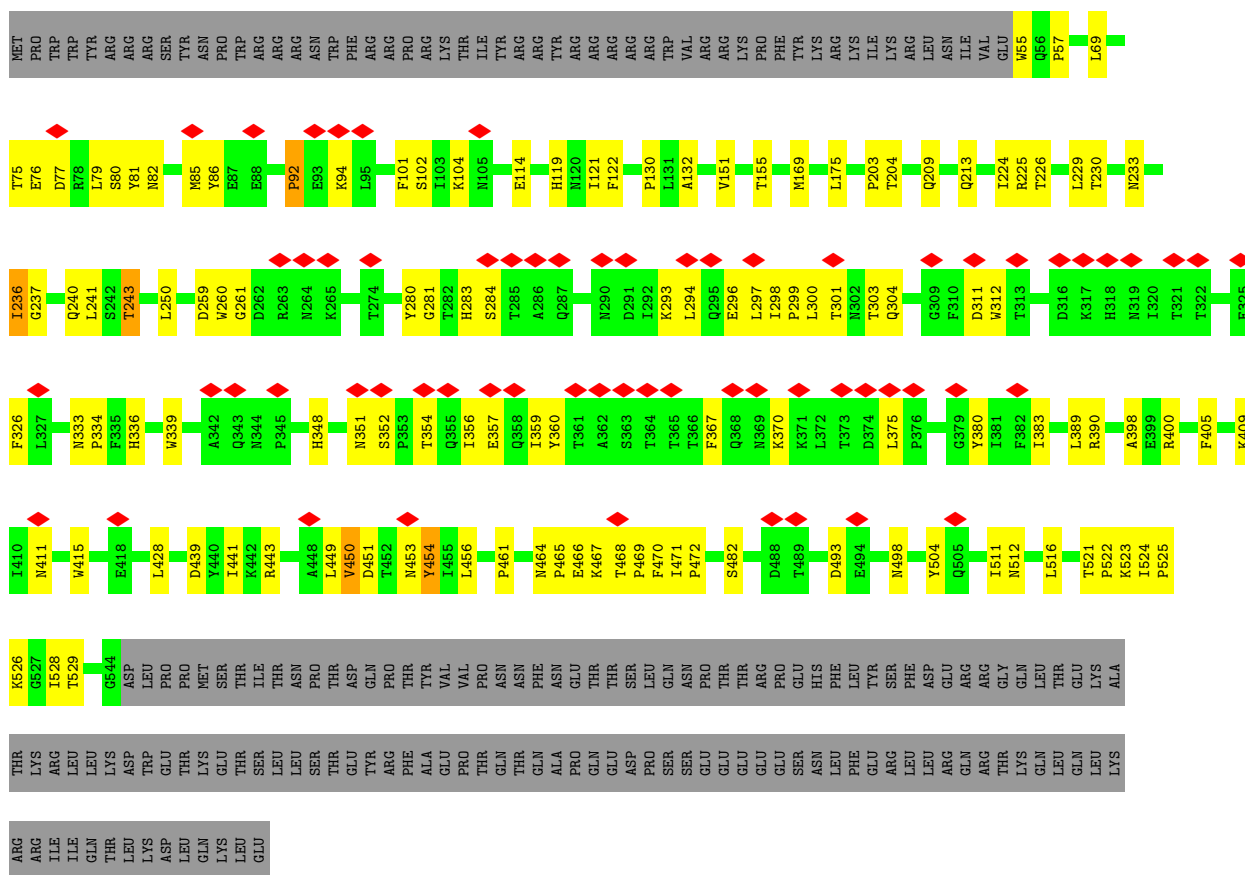




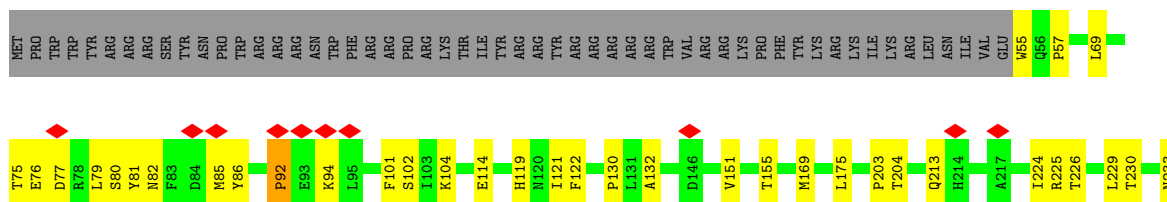
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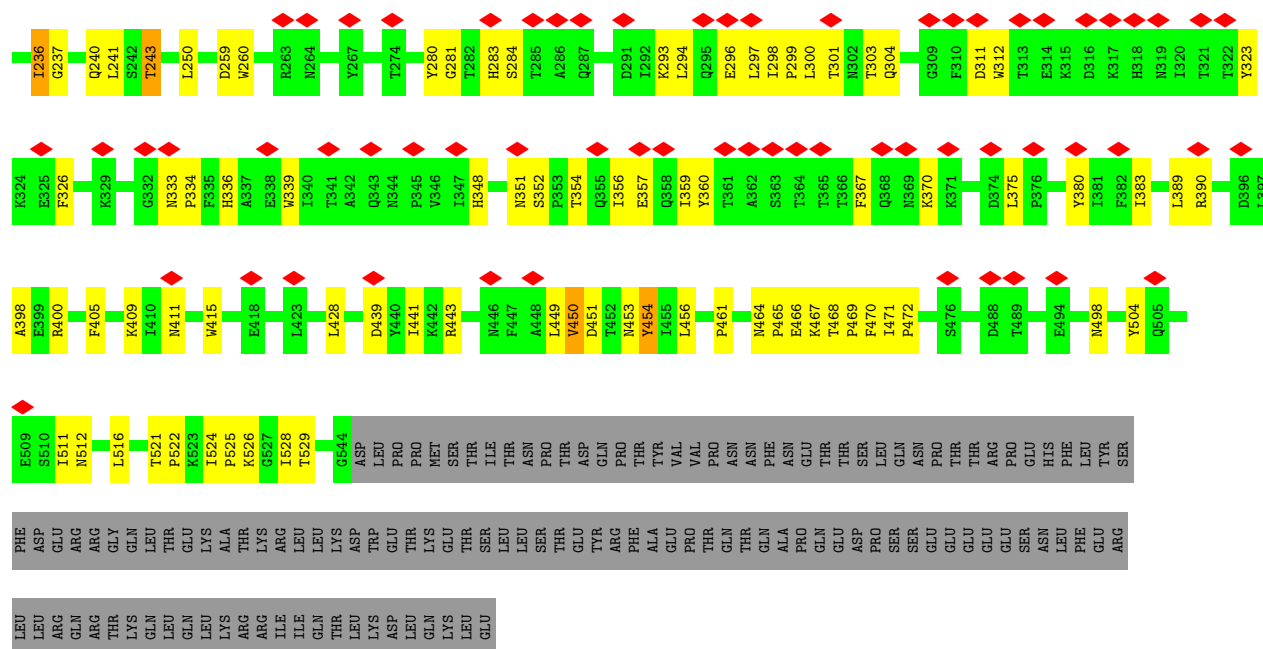


- Molecule 1: Capsid protein

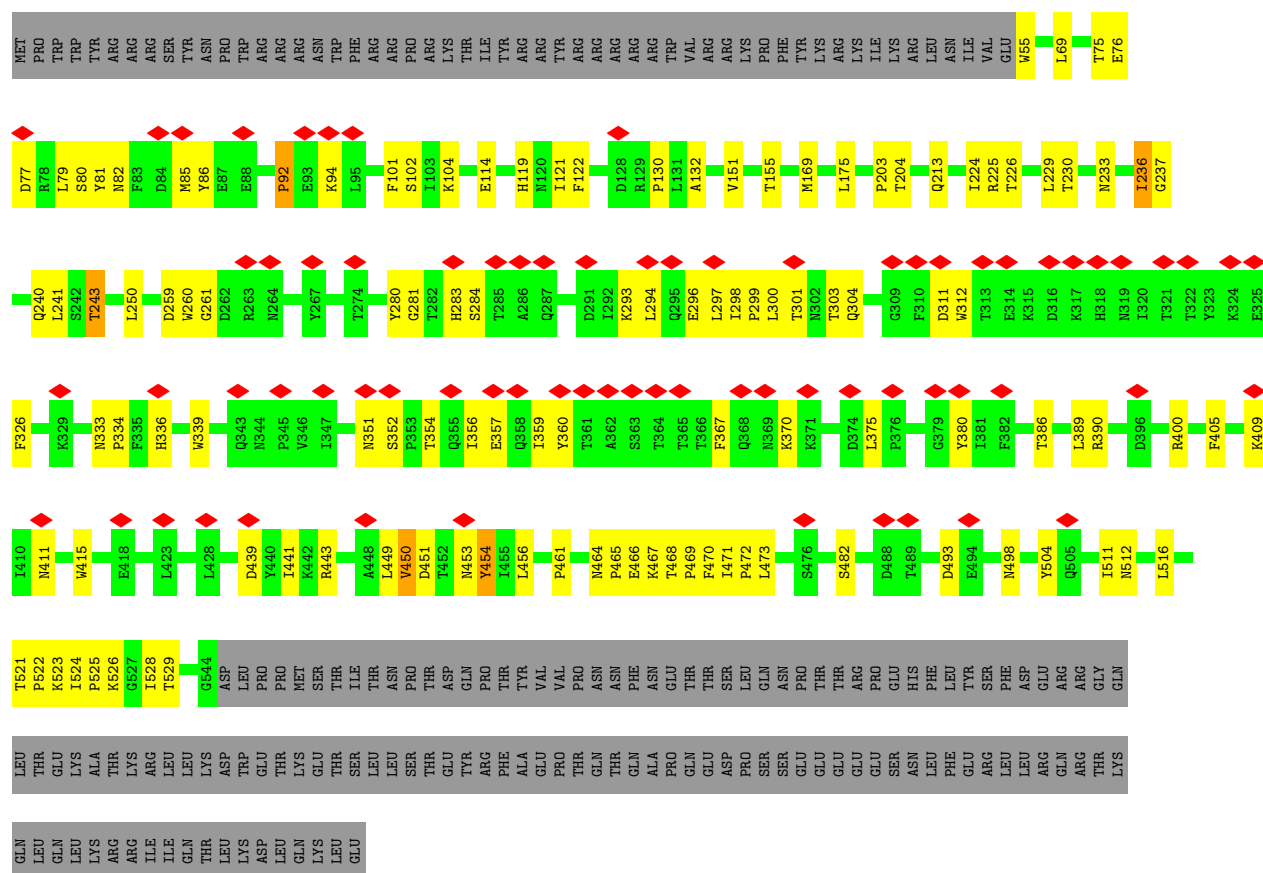


- Molecule 1: Capsid protein

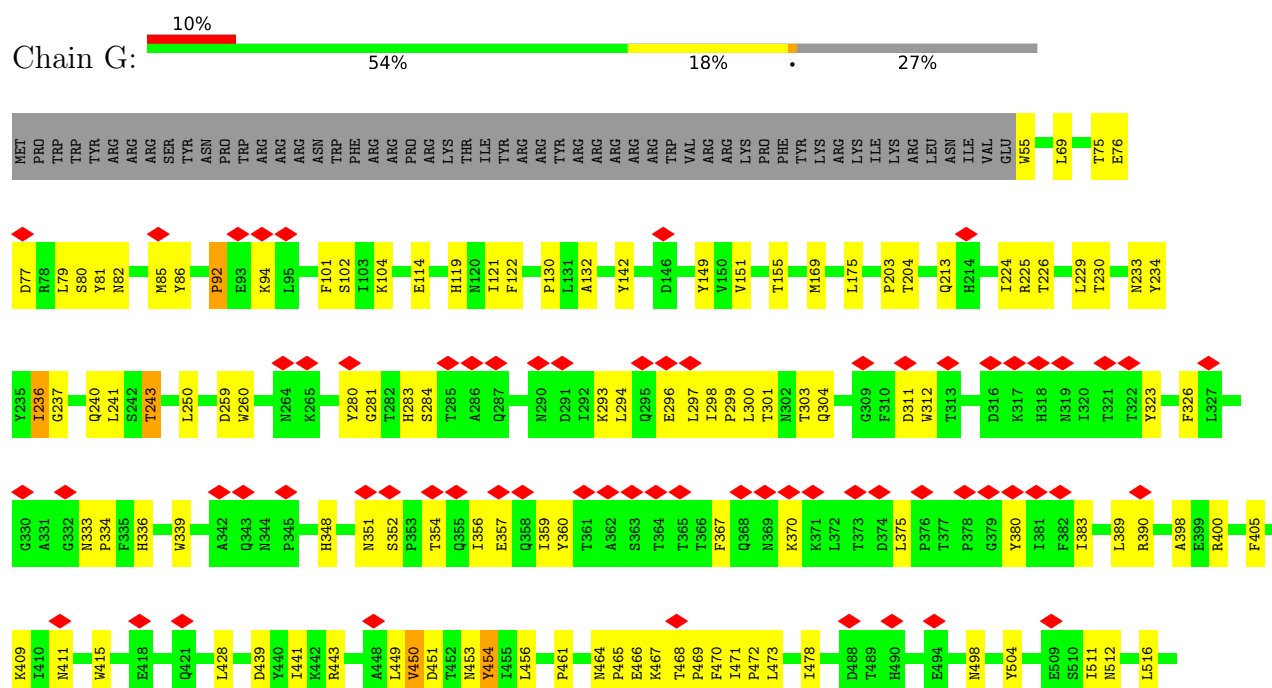


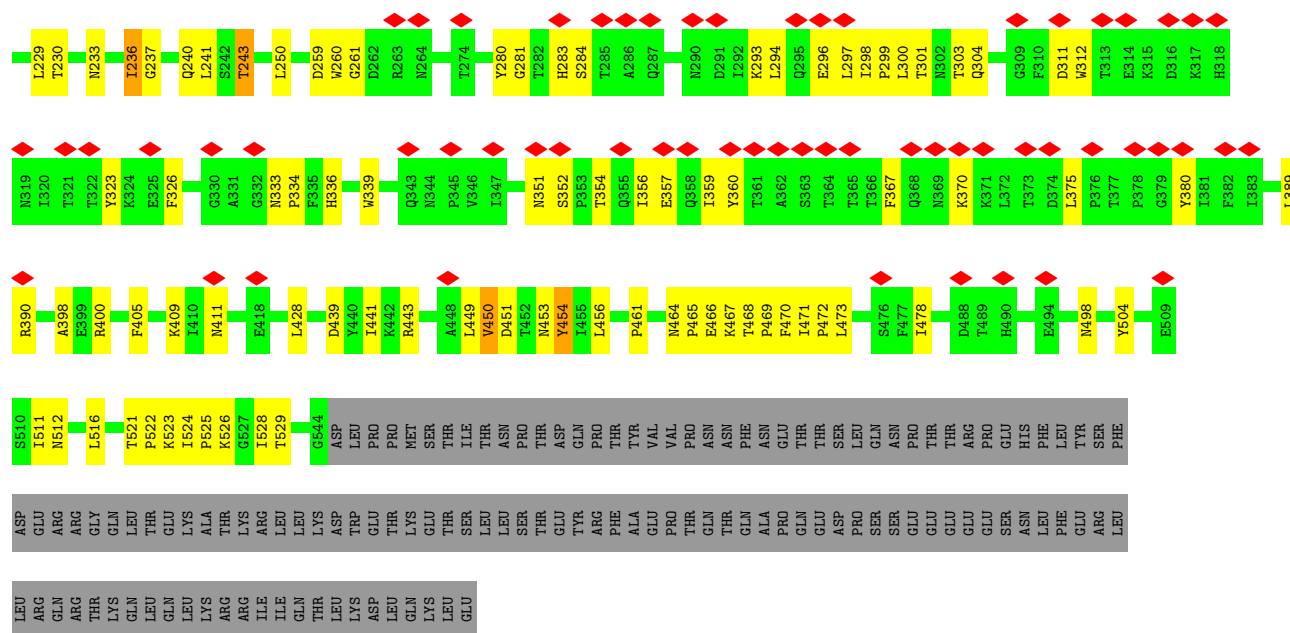


• Molecule 1: Capsid protein

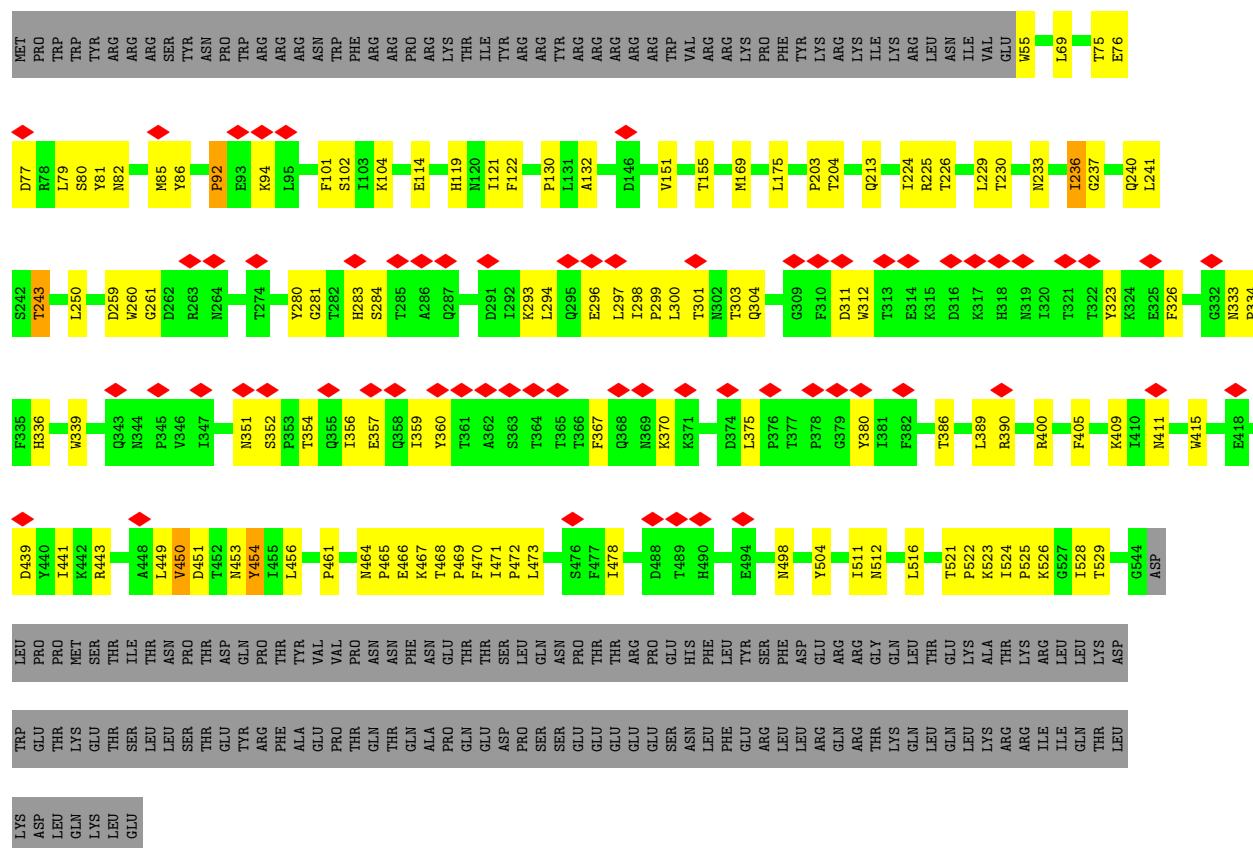


• Molecule 1: Capsid protein

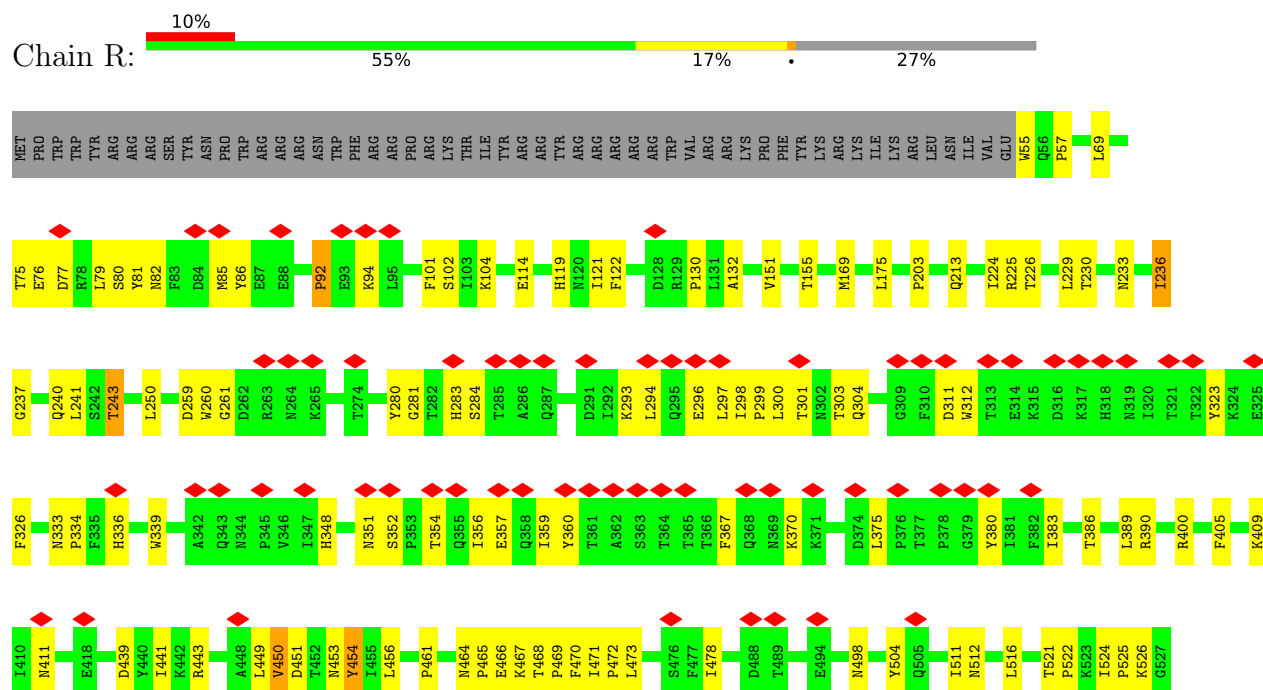
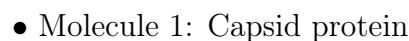


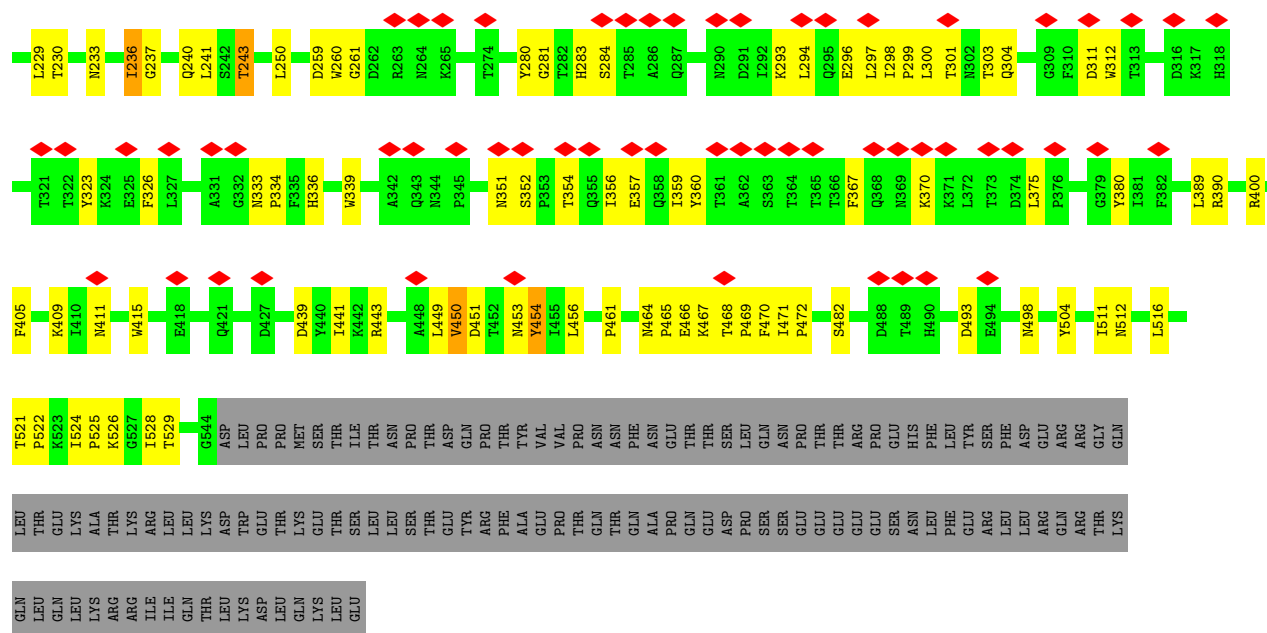


• Molecule 1: Capsid protein

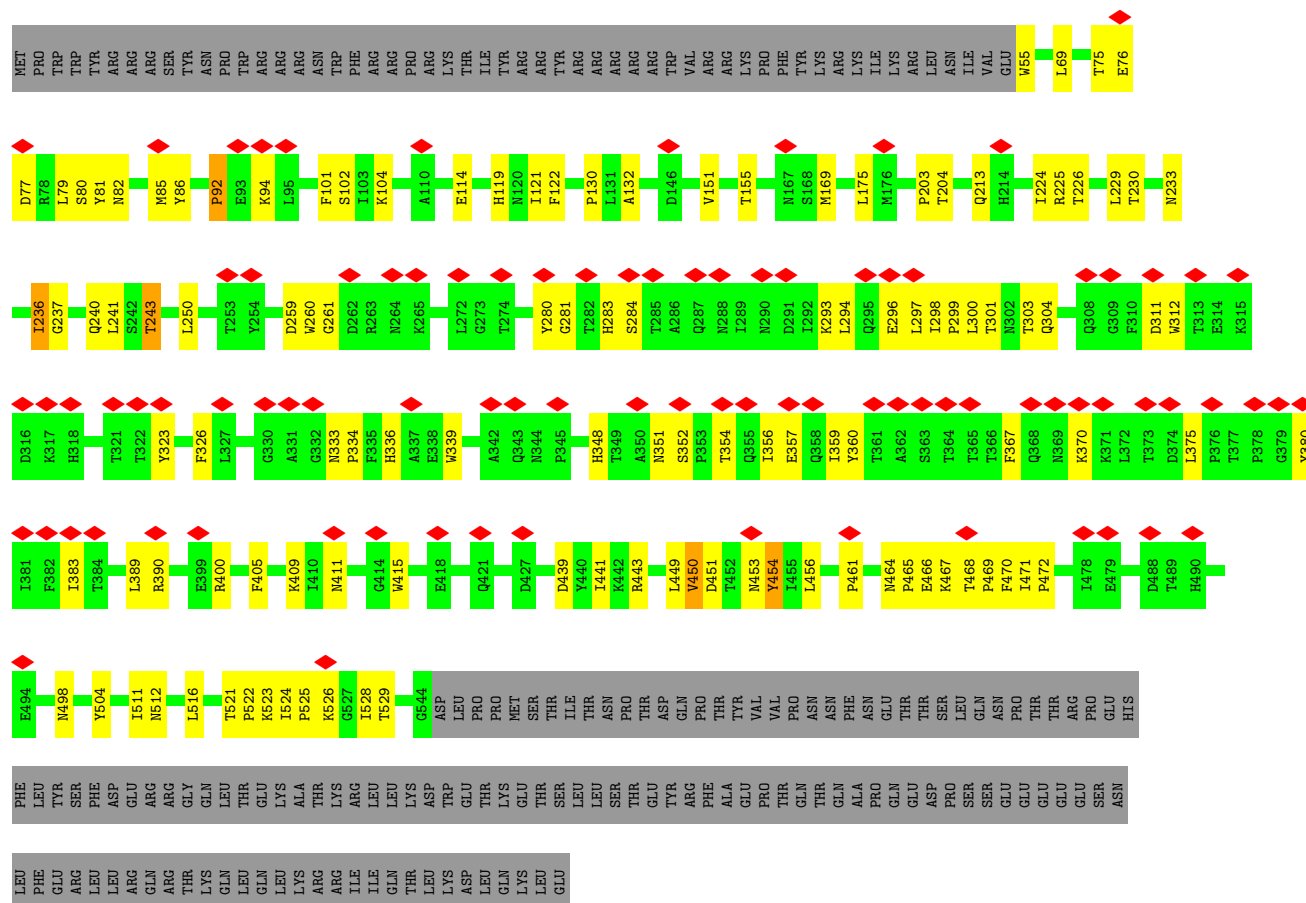


• Molecule 1: Capsid protein

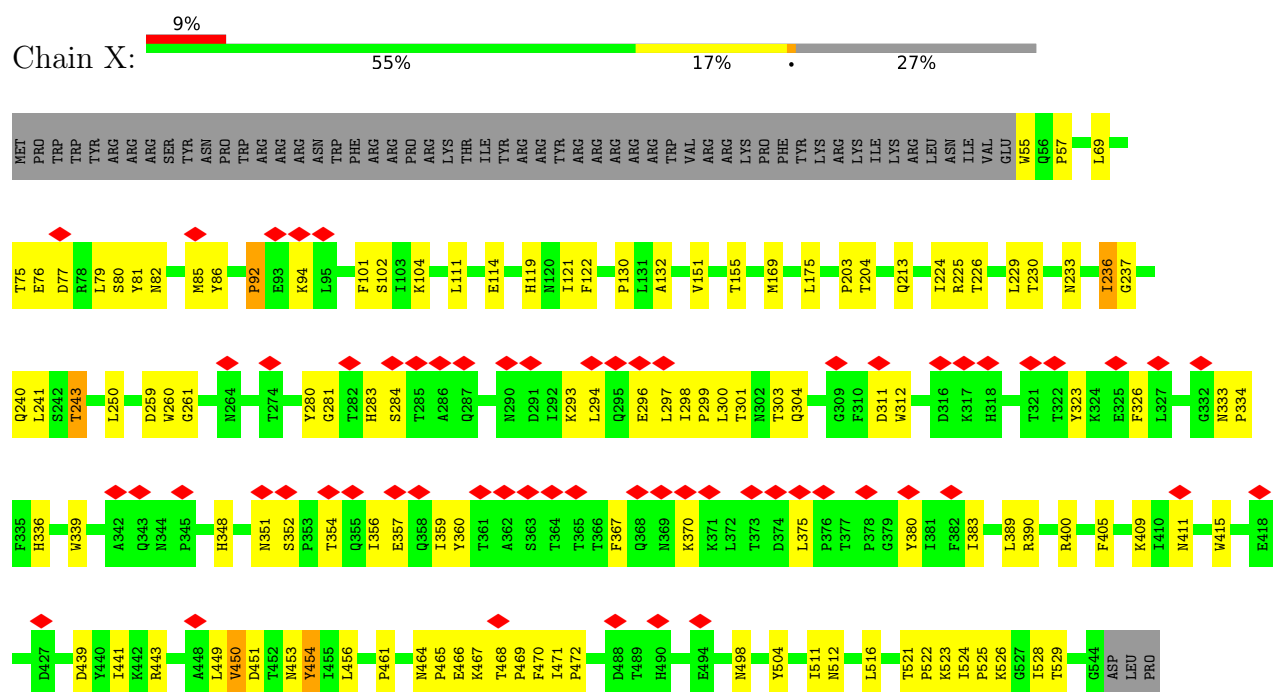




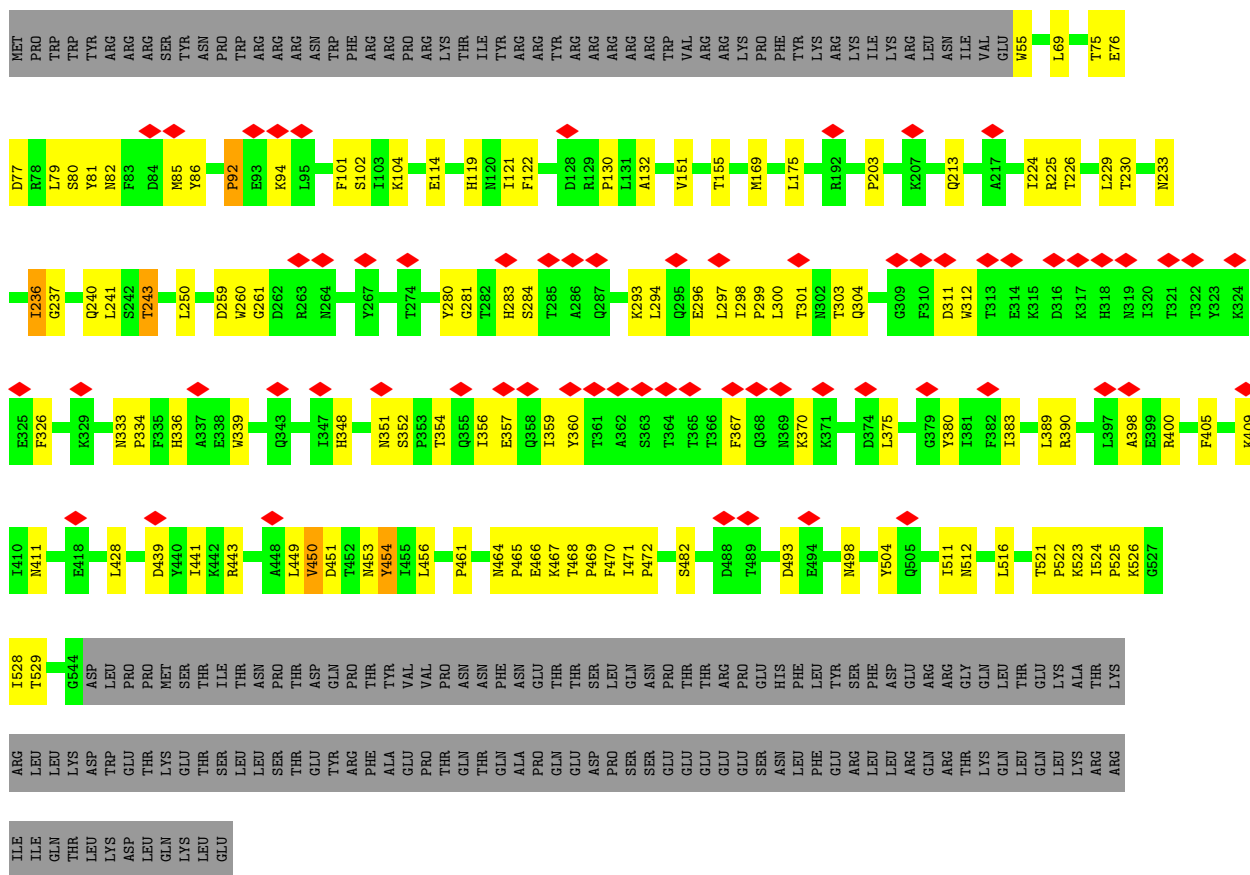
• Molecule 1: Capsid protein



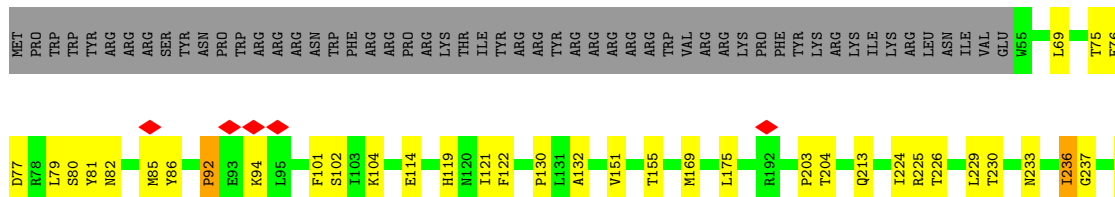
• Molecule 1: Capsid protein

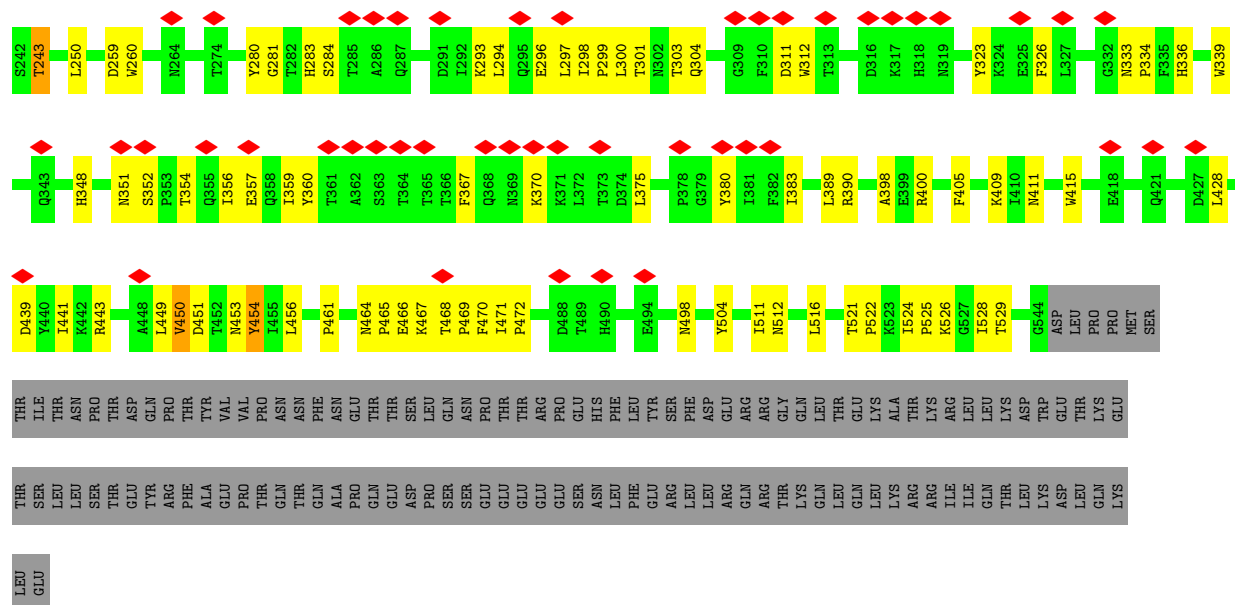


- Molecule 1: Capsid protein

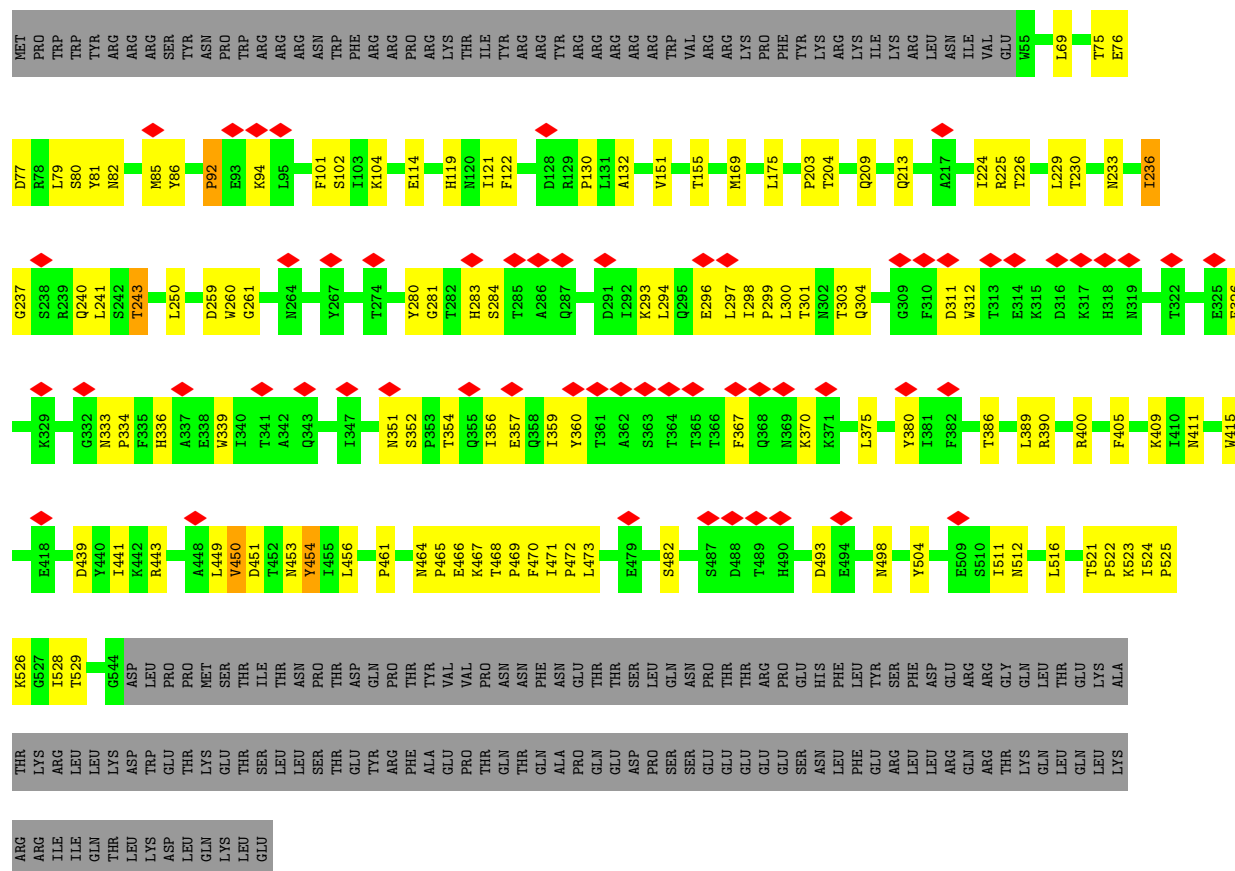


- Molecule 1: Capsid protein

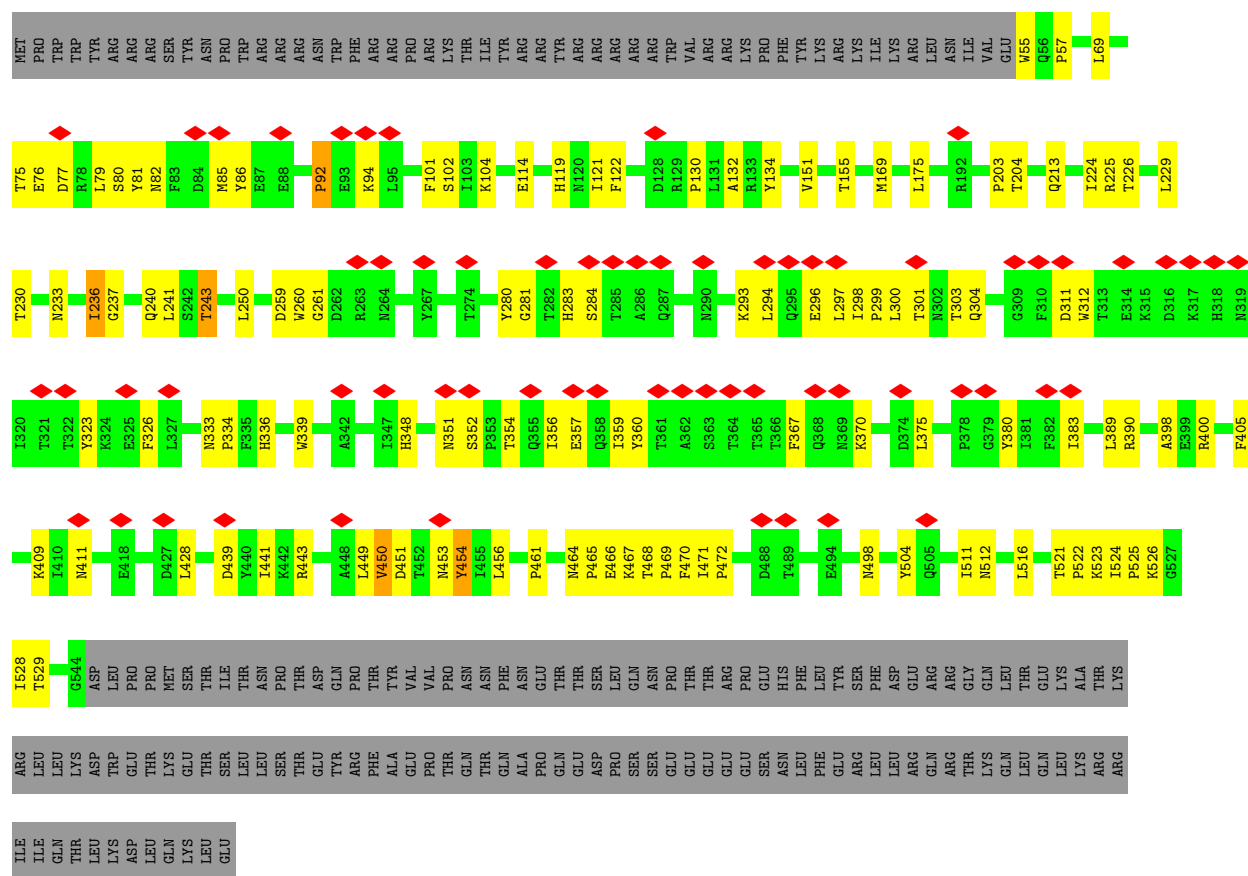




• Molecule 1: Capsid protein



• Molecule 1: Capsid protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	6271	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS GLACIOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	19.59	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	14.536	Depositor
Minimum map value	-10.424	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2.87	Depositor
Map size (Å)	406.12, 406.12, 406.12	wwPDB
Map dimensions	440, 440, 440	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.923, 0.923, 0.923	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	0	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	1	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	2	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	3	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	4	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	5	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	6	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	7	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	A	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	B	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	C	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	D	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	E	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	F	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	G	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	H	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	I	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	J	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	K	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	L	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	M	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	N	0.51	1/4018 (0.0%)	0.82	6/5476 (0.1%)
1	O	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	P	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	Q	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	R	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	S	0.52	1/4018 (0.0%)	0.82	6/5476 (0.1%)
1	T	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	U	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	V	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	W	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	X	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	Y	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	Z	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	b	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	c	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	d	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	e	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	f	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	g	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	h	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	i	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	j	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	k	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	l	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	m	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	n	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	o	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	p	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	q	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	r	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	s	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	t	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	u	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	v	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	w	0.51	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	x	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
1	y	0.52	1/4018 (0.0%)	0.82	6/5476 (0.1%)
1	z	0.52	1/4020 (0.0%)	0.82	6/5480 (0.1%)
All	All	0.52	60/241194 (0.0%)	0.82	360/328788 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	2
1	1	0	2
1	2	0	2
1	3	0	2
1	4	0	2
1	5	0	2
1	6	0	2
1	7	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
1	F	0	2
1	G	0	2
1	H	0	2
1	I	0	2
1	J	0	2
1	K	0	2
1	L	0	2
1	M	0	2
1	N	0	2
1	O	0	2
1	P	0	2
1	Q	0	2
1	R	0	2
1	S	0	2
1	T	0	2
1	U	0	2
1	V	0	2
1	W	0	2
1	X	0	2
1	Y	0	2
1	Z	0	2
1	a	0	2
1	b	0	2
1	c	0	2
1	d	0	2
1	e	0	2
1	f	0	2
1	g	0	2
1	h	0	2
1	i	0	2
1	j	0	2
1	k	0	2
1	l	0	2
1	m	0	2
1	n	0	2
1	o	0	2
1	p	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	2
1	r	0	2
1	s	0	2
1	t	0	2
1	u	0	2
1	v	0	2
1	w	0	2
1	x	0	2
1	y	0	2
1	z	0	2
All	All	0	120

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	243	THR	C-N	-18.10	1.08	1.33
1	F	243	THR	C-N	-18.08	1.08	1.33
1	5	243	THR	C-N	-18.07	1.08	1.33
1	P	243	THR	C-N	-18.07	1.08	1.33
1	E	243	THR	C-N	-18.07	1.08	1.33
1	D	243	THR	C-N	-18.06	1.08	1.33
1	y	243	THR	C-N	-18.06	1.08	1.33
1	2	243	THR	C-N	-18.06	1.08	1.33
1	A	243	THR	C-N	-18.05	1.08	1.33
1	L	243	THR	C-N	-18.05	1.08	1.33
1	h	243	THR	C-N	-18.05	1.08	1.33
1	z	243	THR	C-N	-18.05	1.08	1.33
1	i	243	THR	C-N	-18.04	1.08	1.33
1	S	243	THR	C-N	-18.04	1.08	1.33
1	w	243	THR	C-N	-18.04	1.08	1.33
1	t	243	THR	C-N	-18.04	1.08	1.33
1	7	243	THR	C-N	-18.03	1.08	1.33
1	r	243	THR	C-N	-18.03	1.08	1.33
1	d	243	THR	C-N	-18.03	1.08	1.33
1	Q	243	THR	C-N	-18.03	1.08	1.33
1	v	243	THR	C-N	-18.02	1.08	1.33
1	b	243	THR	C-N	-18.02	1.08	1.33
1	c	243	THR	C-N	-18.02	1.08	1.33
1	4	243	THR	C-N	-18.02	1.08	1.33
1	k	243	THR	C-N	-18.02	1.08	1.33
1	V	243	THR	C-N	-18.01	1.08	1.33
1	W	243	THR	C-N	-18.01	1.08	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	s	243	THR	C-N	-18.01	1.08	1.33
1	m	243	THR	C-N	-18.01	1.08	1.33
1	n	243	THR	C-N	-18.01	1.08	1.33
1	I	243	THR	C-N	-18.00	1.08	1.33
1	o	243	THR	C-N	-18.00	1.08	1.33
1	B	243	THR	C-N	-18.00	1.08	1.33
1	O	243	THR	C-N	-18.00	1.08	1.33
1	C	243	THR	C-N	-18.00	1.08	1.33
1	6	243	THR	C-N	-17.99	1.08	1.33
1	0	243	THR	C-N	-17.99	1.08	1.33
1	J	243	THR	C-N	-17.99	1.08	1.33
1	e	243	THR	C-N	-17.99	1.08	1.33
1	g	243	THR	C-N	-17.99	1.08	1.33
1	l	243	THR	C-N	-17.99	1.08	1.33
1	a	243	THR	C-N	-17.98	1.08	1.33
1	q	243	THR	C-N	-17.98	1.08	1.33
1	N	243	THR	C-N	-17.98	1.08	1.33
1	Z	243	THR	C-N	-17.98	1.08	1.33
1	K	243	THR	C-N	-17.98	1.08	1.33
1	R	243	THR	C-N	-17.98	1.08	1.33
1	U	243	THR	C-N	-17.97	1.08	1.33
1	T	243	THR	C-N	-17.97	1.08	1.33
1	1	243	THR	C-N	-17.97	1.08	1.33
1	G	243	THR	C-N	-17.97	1.08	1.33
1	j	243	THR	C-N	-17.96	1.08	1.33
1	3	243	THR	C-N	-17.95	1.08	1.33
1	f	243	THR	C-N	-17.94	1.08	1.33
1	H	243	THR	C-N	-17.94	1.08	1.33
1	X	243	THR	C-N	-17.94	1.08	1.33
1	x	243	THR	C-N	-17.93	1.08	1.33
1	Y	243	THR	C-N	-17.93	1.08	1.33
1	p	243	THR	C-N	-17.92	1.08	1.33
1	u	243	THR	C-N	-17.92	1.08	1.33

All (360) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	243	THR	O-C-N	-22.87	88.67	122.28
1	V	243	THR	O-C-N	-22.87	88.67	122.28
1	H	243	THR	O-C-N	-22.86	88.67	122.28
1	3	243	THR	O-C-N	-22.86	88.68	122.28
1	m	243	THR	O-C-N	-22.86	88.68	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	243	THR	O-C-N	-22.86	88.68	122.28
1	f	243	THR	O-C-N	-22.86	88.68	122.28
1	6	243	THR	O-C-N	-22.85	88.70	122.28
1	h	243	THR	O-C-N	-22.84	88.70	122.28
1	W	243	THR	O-C-N	-22.84	88.70	122.28
1	p	243	THR	O-C-N	-22.84	88.71	122.28
1	s	243	THR	O-C-N	-22.84	88.71	122.28
1	2	243	THR	O-C-N	-22.84	88.71	122.28
1	B	243	THR	O-C-N	-22.84	88.71	122.28
1	y	243	THR	O-C-N	-22.84	88.71	122.28
1	C	243	THR	O-C-N	-22.84	88.71	122.28
1	c	243	THR	O-C-N	-22.83	88.72	122.28
1	7	243	THR	O-C-N	-22.83	88.72	122.28
1	l	243	THR	O-C-N	-22.83	88.72	122.28
1	P	243	THR	O-C-N	-22.83	88.72	122.28
1	Y	243	THR	O-C-N	-22.83	88.72	122.28
1	J	243	THR	O-C-N	-22.83	88.72	122.28
1	r	243	THR	O-C-N	-22.83	88.72	122.28
1	a	243	THR	O-C-N	-22.83	88.72	122.28
1	j	243	THR	O-C-N	-22.82	88.73	122.28
1	F	243	THR	O-C-N	-22.82	88.73	122.28
1	S	243	THR	O-C-N	-22.82	88.73	122.28
1	e	243	THR	O-C-N	-22.82	88.74	122.28
1	t	243	THR	O-C-N	-22.82	88.74	122.28
1	G	243	THR	O-C-N	-22.82	88.74	122.28
1	0	243	THR	O-C-N	-22.82	88.74	122.28
1	A	243	THR	O-C-N	-22.82	88.74	122.28
1	d	243	THR	O-C-N	-22.82	88.74	122.28
1	k	243	THR	O-C-N	-22.82	88.74	122.28
1	u	243	THR	O-C-N	-22.82	88.74	122.28
1	L	243	THR	O-C-N	-22.81	88.74	122.28
1	4	243	THR	O-C-N	-22.81	88.75	122.28
1	I	243	THR	O-C-N	-22.81	88.75	122.28
1	v	243	THR	O-C-N	-22.81	88.75	122.28
1	U	243	THR	O-C-N	-22.81	88.75	122.28
1	K	243	THR	O-C-N	-22.81	88.75	122.28
1	X	243	THR	O-C-N	-22.81	88.75	122.28
1	1	243	THR	O-C-N	-22.80	88.76	122.28
1	R	243	THR	O-C-N	-22.80	88.76	122.28
1	T	243	THR	O-C-N	-22.80	88.76	122.28
1	O	243	THR	O-C-N	-22.80	88.76	122.28
1	o	243	THR	O-C-N	-22.80	88.77	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	z	243	THR	O-C-N	-22.80	88.77	122.28
1	E	243	THR	O-C-N	-22.80	88.77	122.28
1	M	243	THR	O-C-N	-22.79	88.78	122.28
1	b	243	THR	O-C-N	-22.79	88.78	122.28
1	q	243	THR	O-C-N	-22.78	88.79	122.28
1	i	243	THR	O-C-N	-22.78	88.79	122.28
1	D	243	THR	O-C-N	-22.78	88.80	122.28
1	N	243	THR	O-C-N	-22.77	88.80	122.28
1	g	243	THR	O-C-N	-22.77	88.81	122.28
1	Q	243	THR	O-C-N	-22.76	88.82	122.28
1	5	243	THR	O-C-N	-22.75	88.84	122.28
1	w	243	THR	O-C-N	-22.74	88.85	122.28
1	Z	243	THR	O-C-N	-22.74	88.85	122.28
1	P	243	THR	CA-C-N	16.63	153.30	121.54
1	P	243	THR	C-N-CA	16.63	153.30	121.54
1	V	243	THR	CA-C-N	16.62	153.28	121.54
1	V	243	THR	C-N-CA	16.62	153.28	121.54
1	h	243	THR	CA-C-N	16.61	153.27	121.54
1	h	243	THR	C-N-CA	16.61	153.27	121.54
1	F	243	THR	CA-C-N	16.61	153.27	121.54
1	F	243	THR	C-N-CA	16.61	153.27	121.54
1	m	243	THR	CA-C-N	16.60	153.25	121.54
1	m	243	THR	C-N-CA	16.60	153.25	121.54
1	s	243	THR	CA-C-N	16.60	153.25	121.54
1	s	243	THR	C-N-CA	16.60	153.25	121.54
1	L	243	THR	CA-C-N	16.60	153.24	121.54
1	L	243	THR	C-N-CA	16.60	153.24	121.54
1	o	243	THR	CA-C-N	16.60	153.24	121.54
1	o	243	THR	C-N-CA	16.60	153.24	121.54
1	X	243	THR	CA-C-N	16.60	153.24	121.54
1	X	243	THR	C-N-CA	16.60	153.24	121.54
1	d	243	THR	CA-C-N	16.59	153.24	121.54
1	d	243	THR	C-N-CA	16.59	153.24	121.54
1	Q	243	THR	CA-C-N	16.59	153.24	121.54
1	Q	243	THR	C-N-CA	16.59	153.24	121.54
1	Z	243	THR	CA-C-N	16.59	153.24	121.54
1	Z	243	THR	C-N-CA	16.59	153.24	121.54
1	r	243	THR	CA-C-N	16.59	153.23	121.54
1	r	243	THR	C-N-CA	16.59	153.23	121.54
1	n	243	THR	CA-C-N	16.59	153.23	121.54
1	n	243	THR	C-N-CA	16.59	153.23	121.54
1	q	243	THR	CA-C-N	16.59	153.23	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	243	THR	C-N-CA	16.59	153.23	121.54
1	E	243	THR	CA-C-N	16.59	153.23	121.54
1	E	243	THR	C-N-CA	16.59	153.23	121.54
1	i	243	THR	CA-C-N	16.59	153.23	121.54
1	i	243	THR	C-N-CA	16.59	153.23	121.54
1	W	243	THR	CA-C-N	16.59	153.22	121.54
1	W	243	THR	C-N-CA	16.59	153.22	121.54
1	c	243	THR	CA-C-N	16.59	153.22	121.54
1	c	243	THR	C-N-CA	16.59	153.22	121.54
1	z	243	THR	CA-C-N	16.59	153.22	121.54
1	z	243	THR	C-N-CA	16.59	153.22	121.54
1	A	243	THR	CA-C-N	16.58	153.21	121.54
1	A	243	THR	C-N-CA	16.58	153.21	121.54
1	0	243	THR	CA-C-N	16.58	153.21	121.54
1	0	243	THR	C-N-CA	16.58	153.21	121.54
1	D	243	THR	CA-C-N	16.58	153.21	121.54
1	D	243	THR	C-N-CA	16.58	153.21	121.54
1	M	243	THR	CA-C-N	16.58	153.20	121.54
1	M	243	THR	C-N-CA	16.58	153.20	121.54
1	I	243	THR	CA-C-N	16.58	153.20	121.54
1	I	243	THR	C-N-CA	16.58	153.20	121.54
1	U	243	THR	CA-C-N	16.57	153.20	121.54
1	U	243	THR	C-N-CA	16.57	153.20	121.54
1	S	243	THR	CA-C-N	16.57	153.19	121.54
1	S	243	THR	C-N-CA	16.57	153.19	121.54
1	e	243	THR	CA-C-N	16.57	153.19	121.54
1	e	243	THR	C-N-CA	16.57	153.19	121.54
1	v	243	THR	CA-C-N	16.57	153.19	121.54
1	v	243	THR	C-N-CA	16.57	153.19	121.54
1	C	243	THR	CA-C-N	16.57	153.19	121.54
1	C	243	THR	C-N-CA	16.57	153.19	121.54
1	5	243	THR	CA-C-N	16.57	153.19	121.54
1	5	243	THR	C-N-CA	16.57	153.19	121.54
1	y	243	THR	CA-C-N	16.57	153.19	121.54
1	y	243	THR	C-N-CA	16.57	153.19	121.54
1	7	243	THR	CA-C-N	16.57	153.19	121.54
1	7	243	THR	C-N-CA	16.57	153.19	121.54
1	6	243	THR	CA-C-N	16.57	153.18	121.54
1	6	243	THR	C-N-CA	16.57	153.18	121.54
1	G	243	THR	CA-C-N	16.57	153.18	121.54
1	G	243	THR	C-N-CA	16.57	153.18	121.54
1	R	243	THR	CA-C-N	16.56	153.18	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	243	THR	C-N-CA	16.56	153.18	121.54
1	b	243	THR	CA-C-N	16.56	153.18	121.54
1	b	243	THR	C-N-CA	16.56	153.18	121.54
1	J	243	THR	CA-C-N	16.56	153.17	121.54
1	J	243	THR	C-N-CA	16.56	153.17	121.54
1	x	243	THR	CA-C-N	16.56	153.17	121.54
1	x	243	THR	C-N-CA	16.56	153.17	121.54
1	2	243	THR	CA-C-N	16.56	153.17	121.54
1	2	243	THR	C-N-CA	16.56	153.17	121.54
1	t	243	THR	CA-C-N	16.56	153.17	121.54
1	t	243	THR	C-N-CA	16.56	153.17	121.54
1	g	243	THR	CA-C-N	16.56	153.16	121.54
1	g	243	THR	C-N-CA	16.56	153.16	121.54
1	j	243	THR	CA-C-N	16.56	153.16	121.54
1	j	243	THR	C-N-CA	16.56	153.16	121.54
1	p	243	THR	CA-C-N	16.56	153.16	121.54
1	p	243	THR	C-N-CA	16.56	153.16	121.54
1	w	243	THR	CA-C-N	16.56	153.16	121.54
1	w	243	THR	C-N-CA	16.56	153.16	121.54
1	a	243	THR	CA-C-N	16.55	153.16	121.54
1	a	243	THR	C-N-CA	16.55	153.16	121.54
1	k	243	THR	CA-C-N	16.55	153.16	121.54
1	k	243	THR	C-N-CA	16.55	153.16	121.54
1	N	243	THR	CA-C-N	16.55	153.16	121.54
1	N	243	THR	C-N-CA	16.55	153.16	121.54
1	4	243	THR	CA-C-N	16.55	153.15	121.54
1	4	243	THR	C-N-CA	16.55	153.15	121.54
1	l	243	THR	CA-C-N	16.55	153.15	121.54
1	l	243	THR	C-N-CA	16.55	153.15	121.54
1	3	243	THR	CA-C-N	16.54	153.13	121.54
1	3	243	THR	C-N-CA	16.54	153.13	121.54
1	K	243	THR	CA-C-N	16.54	153.13	121.54
1	K	243	THR	C-N-CA	16.54	153.13	121.54
1	u	243	THR	CA-C-N	16.54	153.13	121.54
1	u	243	THR	C-N-CA	16.54	153.13	121.54
1	O	243	THR	CA-C-N	16.54	153.13	121.54
1	O	243	THR	C-N-CA	16.54	153.13	121.54
1	Y	243	THR	CA-C-N	16.54	153.13	121.54
1	Y	243	THR	C-N-CA	16.54	153.13	121.54
1	B	243	THR	CA-C-N	16.54	153.13	121.54
1	B	243	THR	C-N-CA	16.54	153.13	121.54
1	1	243	THR	CA-C-N	16.54	153.12	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	243	THR	C-N-CA	16.54	153.12	121.54
1	T	243	THR	CA-C-N	16.54	153.12	121.54
1	T	243	THR	C-N-CA	16.54	153.12	121.54
1	H	243	THR	CA-C-N	16.53	153.12	121.54
1	H	243	THR	C-N-CA	16.53	153.12	121.54
1	f	243	THR	CA-C-N	16.53	153.11	121.54
1	f	243	THR	C-N-CA	16.53	153.11	121.54
1	z	92	PRO	N-CA-CB	7.96	110.39	103.31
1	7	92	PRO	N-CA-CB	7.95	110.39	103.31
1	y	92	PRO	N-CA-CB	7.95	110.39	103.31
1	2	92	PRO	N-CA-CB	7.95	110.39	103.31
1	w	92	PRO	N-CA-CB	7.95	110.39	103.31
1	Q	92	PRO	N-CA-CB	7.95	110.38	103.31
1	s	92	PRO	N-CA-CB	7.93	110.37	103.31
1	S	92	PRO	N-CA-CB	7.93	110.37	103.31
1	D	92	PRO	N-CA-CB	7.93	110.37	103.31
1	i	92	PRO	N-CA-CB	7.93	110.37	103.31
1	A	92	PRO	N-CA-CB	7.93	110.37	103.31
1	d	92	PRO	N-CA-CB	7.93	110.36	103.31
1	5	92	PRO	N-CA-CB	7.92	110.36	103.31
1	H	92	PRO	N-CA-CB	7.92	110.36	103.31
1	L	92	PRO	N-CA-CB	7.92	110.36	103.31
1	M	92	PRO	N-CA-CB	7.92	110.36	103.31
1	B	92	PRO	N-CA-CB	7.91	110.35	103.31
1	4	92	PRO	N-CA-CB	7.90	110.34	103.31
1	N	92	PRO	N-CA-CB	7.90	110.34	103.31
1	J	92	PRO	N-CA-CB	7.90	110.34	103.31
1	f	92	PRO	N-CA-CB	7.90	110.34	103.31
1	n	92	PRO	N-CA-CB	7.90	110.34	103.31
1	P	92	PRO	N-CA-CB	7.90	110.34	103.31
1	G	92	PRO	N-CA-CB	7.90	110.34	103.31
1	F	92	PRO	N-CA-CB	7.89	110.34	103.31
1	a	92	PRO	N-CA-CB	7.89	110.33	103.31
1	k	92	PRO	N-CA-CB	7.89	110.33	103.31
1	h	92	PRO	N-CA-CB	7.89	110.33	103.31
1	I	92	PRO	N-CA-CB	7.89	110.33	103.31
1	W	92	PRO	N-CA-CB	7.89	110.33	103.31
1	R	92	PRO	N-CA-CB	7.88	110.33	103.31
1	0	92	PRO	N-CA-CB	7.88	110.33	103.31
1	p	92	PRO	N-CA-CB	7.88	110.32	103.31
1	e	92	PRO	N-CA-CB	7.88	110.32	103.31
1	T	92	PRO	N-CA-CB	7.88	110.32	103.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	92	PRO	N-CA-CB	7.88	110.32	103.31
1	C	92	PRO	N-CA-CB	7.88	110.32	103.31
1	t	92	PRO	N-CA-CB	7.87	110.32	103.31
1	1	92	PRO	N-CA-CB	7.87	110.32	103.31
1	o	92	PRO	N-CA-CB	7.87	110.31	103.31
1	V	92	PRO	N-CA-CB	7.87	110.31	103.31
1	j	92	PRO	N-CA-CB	7.87	110.31	103.31
1	E	92	PRO	N-CA-CB	7.87	110.31	103.31
1	b	92	PRO	N-CA-CB	7.87	110.31	103.31
1	g	92	PRO	N-CA-CB	7.87	110.31	103.31
1	Y	92	PRO	N-CA-CB	7.87	110.31	103.31
1	r	92	PRO	N-CA-CB	7.86	110.31	103.31
1	K	92	PRO	N-CA-CB	7.86	110.31	103.31
1	m	92	PRO	N-CA-CB	7.86	110.31	103.31
1	O	92	PRO	N-CA-CB	7.86	110.30	103.31
1	v	92	PRO	N-CA-CB	7.85	110.30	103.31
1	l	92	PRO	N-CA-CB	7.85	110.30	103.31
1	Z	92	PRO	N-CA-CB	7.85	110.30	103.31
1	3	92	PRO	N-CA-CB	7.84	110.29	103.31
1	U	92	PRO	N-CA-CB	7.84	110.29	103.31
1	X	92	PRO	N-CA-CB	7.84	110.29	103.31
1	u	92	PRO	N-CA-CB	7.84	110.29	103.31
1	6	92	PRO	N-CA-CB	7.83	110.28	103.31
1	q	92	PRO	N-CA-CB	7.83	110.28	103.31
1	x	92	PRO	N-CA-CB	7.83	110.28	103.31
1	w	454	TYR	N-CA-C	5.90	115.80	108.19
1	V	454	TYR	N-CA-C	5.89	115.79	108.19
1	2	454	TYR	N-CA-C	5.89	115.79	108.19
1	m	454	TYR	N-CA-C	5.89	115.78	108.19
1	5	454	TYR	N-CA-C	5.88	115.78	108.19
1	v	454	TYR	N-CA-C	5.88	115.77	108.19
1	J	454	TYR	N-CA-C	5.87	115.76	108.19
1	W	454	TYR	N-CA-C	5.87	115.76	108.19
1	O	454	TYR	N-CA-C	5.86	115.75	108.19
1	6	454	TYR	N-CA-C	5.86	115.75	108.19
1	C	454	TYR	N-CA-C	5.86	115.75	108.19
1	3	454	TYR	N-CA-C	5.86	115.75	108.19
1	K	454	TYR	N-CA-C	5.86	115.75	108.19
1	k	454	TYR	N-CA-C	5.86	115.75	108.19
1	o	454	TYR	N-CA-C	5.86	115.75	108.19
1	Y	454	TYR	N-CA-C	5.86	115.75	108.19
1	T	454	TYR	N-CA-C	5.86	115.75	108.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	454	TYR	N-CA-C	5.86	115.75	108.19
1	4	454	TYR	N-CA-C	5.86	115.75	108.19
1	G	454	TYR	N-CA-C	5.86	115.74	108.19
1	D	454	TYR	N-CA-C	5.85	115.74	108.19
1	a	454	TYR	N-CA-C	5.85	115.74	108.19
1	c	454	TYR	N-CA-C	5.85	115.74	108.19
1	u	454	TYR	N-CA-C	5.85	115.74	108.19
1	P	454	TYR	N-CA-C	5.85	115.74	108.19
1	f	454	TYR	N-CA-C	5.85	115.73	108.19
1	i	454	TYR	N-CA-C	5.84	115.73	108.19
1	l	454	TYR	N-CA-C	5.84	115.73	108.19
1	t	454	TYR	N-CA-C	5.84	115.73	108.19
1	M	454	TYR	N-CA-C	5.84	115.73	108.19
1	n	454	TYR	N-CA-C	5.84	115.73	108.19
1	U	454	TYR	N-CA-C	5.84	115.73	108.19
1	L	454	TYR	N-CA-C	5.84	115.72	108.19
1	e	454	TYR	N-CA-C	5.84	115.72	108.19
1	B	454	TYR	N-CA-C	5.84	115.72	108.19
1	0	454	TYR	N-CA-C	5.84	115.72	108.19
1	d	454	TYR	N-CA-C	5.84	115.72	108.19
1	r	454	TYR	N-CA-C	5.83	115.72	108.19
1	y	454	TYR	N-CA-C	5.83	115.72	108.19
1	E	454	TYR	N-CA-C	5.83	115.71	108.19
1	F	454	TYR	N-CA-C	5.83	115.71	108.19
1	Q	454	TYR	N-CA-C	5.83	115.71	108.19
1	b	454	TYR	N-CA-C	5.83	115.71	108.19
1	p	454	TYR	N-CA-C	5.83	115.71	108.19
1	x	454	TYR	N-CA-C	5.83	115.71	108.19
1	A	454	TYR	N-CA-C	5.83	115.71	108.19
1	R	454	TYR	N-CA-C	5.83	115.71	108.19
1	7	454	TYR	N-CA-C	5.82	115.70	108.19
1	s	454	TYR	N-CA-C	5.82	115.70	108.19
1	H	454	TYR	N-CA-C	5.82	115.70	108.19
1	z	454	TYR	N-CA-C	5.82	115.70	108.19
1	I	454	TYR	N-CA-C	5.82	115.69	108.19
1	q	454	TYR	N-CA-C	5.82	115.69	108.19
1	S	454	TYR	N-CA-C	5.82	115.69	108.19
1	j	454	TYR	N-CA-C	5.81	115.69	108.19
1	Z	454	TYR	N-CA-C	5.81	115.69	108.19
1	g	454	TYR	N-CA-C	5.81	115.69	108.19
1	h	454	TYR	N-CA-C	5.81	115.69	108.19
1	N	454	TYR	N-CA-C	5.80	115.68	108.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	454	TYR	N-CA-C	5.80	115.67	108.19
1	W	130	PRO	N-CA-CB	5.77	109.62	103.39
1	Q	130	PRO	N-CA-CB	5.76	109.61	103.39
1	S	130	PRO	N-CA-CB	5.76	109.61	103.39
1	A	130	PRO	N-CA-CB	5.76	109.61	103.39
1	Z	130	PRO	N-CA-CB	5.76	109.61	103.39
1	n	130	PRO	N-CA-CB	5.76	109.61	103.39
1	V	130	PRO	N-CA-CB	5.76	109.61	103.39
1	5	130	PRO	N-CA-CB	5.75	109.60	103.39
1	T	130	PRO	N-CA-CB	5.75	109.60	103.39
1	M	130	PRO	N-CA-CB	5.75	109.60	103.39
1	i	130	PRO	N-CA-CB	5.75	109.60	103.39
1	D	130	PRO	N-CA-CB	5.75	109.60	103.39
1	d	130	PRO	N-CA-CB	5.75	109.59	103.39
1	j	130	PRO	N-CA-CB	5.75	109.59	103.39
1	s	130	PRO	N-CA-CB	5.75	109.59	103.39
1	B	130	PRO	N-CA-CB	5.74	109.59	103.39
1	q	130	PRO	N-CA-CB	5.74	109.59	103.39
1	w	130	PRO	N-CA-CB	5.74	109.59	103.39
1	g	130	PRO	N-CA-CB	5.74	109.58	103.39
1	X	130	PRO	N-CA-CB	5.73	109.58	103.39
1	4	130	PRO	N-CA-CB	5.73	109.58	103.39
1	7	130	PRO	N-CA-CB	5.73	109.58	103.39
1	z	130	PRO	N-CA-CB	5.73	109.58	103.39
1	m	130	PRO	N-CA-CB	5.73	109.57	103.39
1	h	130	PRO	N-CA-CB	5.72	109.57	103.39
1	a	130	PRO	N-CA-CB	5.72	109.57	103.39
1	b	130	PRO	N-CA-CB	5.72	109.57	103.39
1	F	130	PRO	N-CA-CB	5.72	109.57	103.39
1	K	130	PRO	N-CA-CB	5.72	109.57	103.39
1	x	130	PRO	N-CA-CB	5.72	109.57	103.39
1	Y	130	PRO	N-CA-CB	5.72	109.57	103.39
1	o	130	PRO	N-CA-CB	5.72	109.56	103.39
1	y	130	PRO	N-CA-CB	5.72	109.56	103.39
1	R	130	PRO	N-CA-CB	5.71	109.56	103.39
1	0	130	PRO	N-CA-CB	5.71	109.56	103.39
1	L	130	PRO	N-CA-CB	5.71	109.56	103.39
1	k	130	PRO	N-CA-CB	5.71	109.56	103.39
1	I	130	PRO	N-CA-CB	5.71	109.56	103.39
1	J	130	PRO	N-CA-CB	5.71	109.55	103.39
1	c	130	PRO	N-CA-CB	5.70	109.55	103.39
1	u	130	PRO	N-CA-CB	5.70	109.55	103.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	130	PRO	N-CA-CB	5.70	109.55	103.39
1	e	130	PRO	N-CA-CB	5.70	109.54	103.39
1	l	130	PRO	N-CA-CB	5.70	109.55	103.39
1	p	130	PRO	N-CA-CB	5.70	109.54	103.39
1	t	130	PRO	N-CA-CB	5.69	109.54	103.39
1	1	130	PRO	N-CA-CB	5.69	109.54	103.39
1	v	130	PRO	N-CA-CB	5.69	109.53	103.39
1	H	130	PRO	N-CA-CB	5.69	109.53	103.39
1	f	130	PRO	N-CA-CB	5.69	109.53	103.39
1	N	130	PRO	N-CA-CB	5.69	109.53	103.39
1	3	130	PRO	N-CA-CB	5.68	109.53	103.39
1	E	130	PRO	N-CA-CB	5.68	109.53	103.39
1	6	130	PRO	N-CA-CB	5.68	109.53	103.39
1	r	130	PRO	N-CA-CB	5.68	109.52	103.39
1	G	130	PRO	N-CA-CB	5.68	109.52	103.39
1	U	130	PRO	N-CA-CB	5.68	109.52	103.39
1	2	130	PRO	N-CA-CB	5.67	109.52	103.39
1	P	130	PRO	N-CA-CB	5.67	109.51	103.39
1	C	130	PRO	N-CA-CB	5.63	109.47	103.39

There are no chirality outliers.

All (120) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	243	THR	Peptide,Mainchain
1	1	243	THR	Peptide,Mainchain
1	2	243	THR	Peptide,Mainchain
1	3	243	THR	Peptide,Mainchain
1	4	243	THR	Peptide,Mainchain
1	5	243	THR	Peptide,Mainchain
1	6	243	THR	Peptide,Mainchain
1	7	243	THR	Peptide,Mainchain
1	A	243	THR	Peptide,Mainchain
1	B	243	THR	Peptide,Mainchain
1	C	243	THR	Peptide,Mainchain
1	D	243	THR	Peptide,Mainchain
1	E	243	THR	Peptide,Mainchain
1	F	243	THR	Peptide,Mainchain
1	G	243	THR	Peptide,Mainchain
1	H	243	THR	Peptide,Mainchain
1	I	243	THR	Peptide,Mainchain
1	J	243	THR	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	K	243	THR	Peptide,Mainchain
1	L	243	THR	Peptide,Mainchain
1	M	243	THR	Peptide,Mainchain
1	N	243	THR	Peptide,Mainchain
1	O	243	THR	Peptide,Mainchain
1	P	243	THR	Peptide,Mainchain
1	Q	243	THR	Peptide,Mainchain
1	R	243	THR	Peptide,Mainchain
1	S	243	THR	Peptide,Mainchain
1	T	243	THR	Peptide,Mainchain
1	U	243	THR	Peptide,Mainchain
1	V	243	THR	Peptide,Mainchain
1	W	243	THR	Peptide,Mainchain
1	X	243	THR	Peptide,Mainchain
1	Y	243	THR	Peptide,Mainchain
1	Z	243	THR	Peptide,Mainchain
1	a	243	THR	Peptide,Mainchain
1	b	243	THR	Peptide,Mainchain
1	c	243	THR	Peptide,Mainchain
1	d	243	THR	Peptide,Mainchain
1	e	243	THR	Peptide,Mainchain
1	f	243	THR	Peptide,Mainchain
1	g	243	THR	Peptide,Mainchain
1	h	243	THR	Peptide,Mainchain
1	i	243	THR	Peptide,Mainchain
1	j	243	THR	Peptide,Mainchain
1	k	243	THR	Peptide,Mainchain
1	l	243	THR	Peptide,Mainchain
1	m	243	THR	Peptide,Mainchain
1	n	243	THR	Peptide,Mainchain
1	o	243	THR	Peptide,Mainchain
1	p	243	THR	Peptide,Mainchain
1	q	243	THR	Peptide,Mainchain
1	r	243	THR	Peptide,Mainchain
1	s	243	THR	Peptide,Mainchain
1	t	243	THR	Peptide,Mainchain
1	u	243	THR	Peptide,Mainchain
1	v	243	THR	Peptide,Mainchain
1	w	243	THR	Peptide,Mainchain
1	x	243	THR	Peptide,Mainchain
1	y	243	THR	Peptide,Mainchain
1	z	243	THR	Peptide,Mainchain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	3910	0	3727	105	0
1	1	3910	0	3728	114	0
1	2	3910	0	3727	110	0
1	3	3910	0	3726	107	0
1	4	3910	0	3727	107	0
1	5	3910	0	3727	105	0
1	6	3910	0	3727	108	0
1	7	3910	0	3726	107	0
1	A	3910	0	3727	111	0
1	B	3910	0	3727	106	0
1	C	3910	0	3727	105	0
1	D	3910	0	3727	106	0
1	E	3910	0	3727	105	0
1	F	3910	0	3727	105	0
1	G	3910	0	3727	107	0
1	H	3910	0	3727	103	0
1	I	3910	0	3727	114	0
1	J	3910	0	3727	103	0
1	K	3910	0	3728	115	0
1	L	3910	0	3727	107	0
1	M	3910	0	3727	109	0
1	N	3909	0	3722	108	0
1	O	3910	0	3728	110	0
1	P	3910	0	3726	107	0
1	Q	3910	0	3727	104	0
1	R	3910	0	3728	104	0
1	S	3909	0	3725	105	0
1	T	3910	0	3727	109	0
1	U	3910	0	3726	105	0
1	V	3910	0	3726	105	0
1	W	3910	0	3728	110	0
1	X	3910	0	3727	106	0
1	Y	3910	0	3726	101	0
1	Z	3910	0	3726	104	0
1	a	3910	0	3727	106	0
1	b	3910	0	3727	104	0
1	c	3910	0	3727	105	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	d	3910	0	3727	106	0
1	e	3910	0	3727	104	0
1	f	3910	0	3727	106	0
1	g	3910	0	3727	105	0
1	h	3910	0	3726	108	0
1	i	3910	0	3727	105	0
1	j	3910	0	3727	109	0
1	k	3910	0	3727	108	0
1	l	3910	0	3726	105	0
1	m	3910	0	3726	104	0
1	n	3910	0	3728	109	0
1	o	3910	0	3727	107	0
1	p	3910	0	3726	104	0
1	q	3910	0	3726	105	0
1	r	3910	0	3727	104	0
1	s	3910	0	3727	107	0
1	t	3910	0	3727	104	0
1	u	3910	0	3726	108	0
1	v	3910	0	3727	109	0
1	w	3910	0	3727	102	0
1	x	3910	0	3726	106	0
1	y	3909	0	3721	112	0
1	z	3910	0	3727	106	0
All	All	234597	0	223599	5797	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 13.

All (5797) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:209:GLN:OE1	1:W:207:LYS:CE	1.63	1.44
1:I:207:LYS:NZ	1:T:209:GLN:OE1	1.57	1.33
1:B:470:PHE:O	1:B:471:ILE:HG13	1.17	1.33
1:i:470:PHE:O	1:i:471:ILE:HG13	1.17	1.32
1:Y:470:PHE:O	1:Y:471:ILE:HG13	1.17	1.32
1:N:470:PHE:O	1:N:471:ILE:HG13	1.17	1.32
1:T:470:PHE:O	1:T:471:ILE:HG13	1.17	1.32
1:f:470:PHE:O	1:f:471:ILE:HG13	1.17	1.32
1:n:207:LYS:CE	1:A:209:GLN:OE1	1.77	1.31
1:j:470:PHE:O	1:j:471:ILE:HG13	1.17	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:470:PHE:O	1:V:471:ILE:HG13	1.17	1.31
1:P:470:PHE:O	1:P:471:ILE:HG13	1.17	1.31
1:6:470:PHE:O	1:6:471:ILE:HG13	1.17	1.31
1:l:470:PHE:O	1:l:471:ILE:HG13	1.17	1.31
1:u:470:PHE:O	1:u:471:ILE:HG13	1.17	1.30
1:K:470:PHE:O	1:K:471:ILE:HG13	1.17	1.30
1:A:470:PHE:O	1:A:471:ILE:HG13	1.18	1.30
1:H:470:PHE:O	1:H:471:ILE:HG13	1.17	1.30
1:0:470:PHE:O	1:0:471:ILE:HG13	1.17	1.30
1:7:470:PHE:O	1:7:471:ILE:HG13	1.17	1.30
1:Q:470:PHE:O	1:Q:471:ILE:HG13	1.17	1.30
1:m:470:PHE:O	1:m:471:ILE:HG13	1.17	1.30
1:o:470:PHE:O	1:o:471:ILE:HG13	1.17	1.30
1:t:470:PHE:O	1:t:471:ILE:HG13	1.17	1.29
1:Z:470:PHE:O	1:Z:471:ILE:HG13	1.17	1.29
1:F:470:PHE:O	1:F:471:ILE:HG13	1.17	1.29
1:X:470:PHE:O	1:X:471:ILE:HG13	1.17	1.29
1:b:470:PHE:O	1:b:471:ILE:HG13	1.17	1.29
1:4:470:PHE:O	1:4:471:ILE:HG13	1.17	1.29
1:J:470:PHE:O	1:J:471:ILE:HG13	1.17	1.29
1:L:470:PHE:O	1:L:471:ILE:HG13	1.17	1.29
1:k:470:PHE:O	1:k:471:ILE:HG13	1.17	1.29
1:q:470:PHE:O	1:q:471:ILE:HG13	1.17	1.29
1:h:470:PHE:O	1:h:471:ILE:HG13	1.17	1.28
1:v:470:PHE:O	1:v:471:ILE:HG13	1.17	1.28
1:D:470:PHE:O	1:D:471:ILE:HG13	1.17	1.28
1:S:470:PHE:O	1:S:471:ILE:HG13	1.17	1.28
1:5:470:PHE:O	1:5:471:ILE:HG13	1.17	1.28
1:w:470:PHE:O	1:w:471:ILE:HG13	1.17	1.28
1:U:470:PHE:O	1:U:471:ILE:HG13	1.17	1.28
1:3:470:PHE:O	1:3:471:ILE:HG13	1.17	1.28
1:1:470:PHE:O	1:1:471:ILE:HG13	1.18	1.28
1:z:470:PHE:O	1:z:471:ILE:HG13	1.17	1.28
1:E:470:PHE:O	1:E:471:ILE:HG13	1.17	1.28
1:g:470:PHE:O	1:g:471:ILE:HG13	1.17	1.28
1:r:470:PHE:O	1:r:471:ILE:HG13	1.17	1.28
1:y:470:PHE:O	1:y:471:ILE:HG13	1.17	1.28
1:2:470:PHE:O	1:2:471:ILE:HG13	1.17	1.28
1:d:470:PHE:O	1:d:471:ILE:HG13	1.17	1.28
1:c:470:PHE:O	1:c:471:ILE:HG13	1.17	1.27
1:I:470:PHE:O	1:I:471:ILE:HG13	1.17	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:470:PHE:O	1:M:471:ILE:HG13	1.17	1.27
1:C:470:PHE:O	1:C:471:ILE:HG13	1.17	1.27
1:s:470:PHE:O	1:s:471:ILE:HG13	1.17	1.27
1:R:470:PHE:O	1:R:471:ILE:HG13	1.17	1.27
1:a:470:PHE:O	1:a:471:ILE:HG13	1.17	1.27
1:p:470:PHE:O	1:p:471:ILE:HG13	1.17	1.26
1:G:470:PHE:O	1:G:471:ILE:HG13	1.17	1.26
1:n:470:PHE:O	1:n:471:ILE:HG13	1.17	1.26
1:x:470:PHE:O	1:x:471:ILE:HG13	1.17	1.25
1:I:209:GLN:OE1	1:O:207:LYS:CE	1.83	1.25
1:W:470:PHE:O	1:W:471:ILE:HG13	1.17	1.25
1:O:470:PHE:O	1:O:471:ILE:HG13	1.17	1.24
1:e:470:PHE:O	1:e:471:ILE:HG13	1.17	1.24
1:n:207:LYS:NZ	1:A:209:GLN:OE1	1.71	1.24
1:k:209:GLN:OE1	1:l:207:LYS:NZ	1.72	1.21
1:M:209:GLN:OE1	1:W:207:LYS:NZ	1.71	1.21
1:K:207:LYS:CE	1:l:209:GLN:OE1	1.92	1.17
1:h:55:TRP:O	1:C:204:THR:OG1	1.63	1.17
1:K:207:LYS:NZ	1:l:209:GLN:OE1	1.79	1.15
1:M:209:GLN:OE1	1:W:207:LYS:HE2	1.27	1.12
1:n:207:LYS:HE2	1:A:209:GLN:OE1	1.48	1.11
1:I:209:GLN:OE1	1:O:207:LYS:NZ	1.86	1.07
1:4:470:PHE:O	1:4:471:ILE:CG1	2.06	1.04
1:x:470:PHE:O	1:x:471:ILE:CG1	2.06	1.04
1:z:470:PHE:O	1:z:471:ILE:CG1	2.06	1.04
1:B:470:PHE:O	1:B:471:ILE:CG1	2.06	1.04
1:S:134:TYR:CZ	1:S:134:TYR:CD2	2.38	1.04
1:a:470:PHE:O	1:a:471:ILE:CG1	2.06	1.04
1:L:470:PHE:O	1:L:471:ILE:CG1	2.06	1.04
1:p:470:PHE:O	1:p:471:ILE:CG1	2.06	1.04
1:v:470:PHE:O	1:v:471:ILE:CG1	2.06	1.04
1:O:470:PHE:O	1:O:471:ILE:CG1	2.06	1.04
1:Y:470:PHE:O	1:Y:471:ILE:CG1	2.06	1.04
1:i:470:PHE:O	1:i:471:ILE:CG1	2.06	1.04
1:A:470:PHE:O	1:A:471:ILE:CG1	2.06	1.04
1:T:470:PHE:O	1:T:471:ILE:CG1	2.06	1.04
1:5:470:PHE:O	1:5:471:ILE:CG1	2.06	1.04
1:I:470:PHE:O	1:I:471:ILE:CG1	2.06	1.04
1:j:470:PHE:O	1:j:471:ILE:CG1	2.06	1.04
1:n:470:PHE:O	1:n:471:ILE:CG1	2.06	1.04
1:o:470:PHE:O	1:o:471:ILE:CG1	2.06	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:470:PHE:O	1:u:471:ILE:CG1	2.06	1.04
1:D:470:PHE:O	1:D:471:ILE:CG1	2.06	1.04
1:G:470:PHE:O	1:G:471:ILE:CG1	2.06	1.04
1:N:470:PHE:O	1:N:471:ILE:CG1	2.06	1.04
1:O:470:PHE:O	1:O:471:ILE:CG1	2.06	1.04
1:e:470:PHE:O	1:e:471:ILE:CG1	2.06	1.04
1:m:470:PHE:O	1:m:471:ILE:CG1	2.06	1.04
1:H:470:PHE:O	1:H:471:ILE:CG1	2.05	1.04
1:Z:470:PHE:O	1:Z:471:ILE:CG1	2.06	1.04
1:f:470:PHE:O	1:f:471:ILE:CG1	2.06	1.03
1:g:470:PHE:O	1:g:471:ILE:CG1	2.06	1.03
1:W:470:PHE:O	1:W:471:ILE:CG1	2.06	1.03
1:w:470:PHE:O	1:w:471:ILE:CG1	2.06	1.03
1:Q:470:PHE:O	1:Q:471:ILE:CG1	2.06	1.03
1:R:470:PHE:O	1:R:471:ILE:CG1	2.06	1.03
1:V:470:PHE:O	1:V:471:ILE:CG1	2.06	1.03
1:k:470:PHE:O	1:k:471:ILE:CG1	2.06	1.03
1:r:470:PHE:O	1:r:471:ILE:CG1	2.06	1.03
1:y:470:PHE:O	1:y:471:ILE:CG1	2.06	1.03
1:2:470:PHE:O	1:2:471:ILE:CG1	2.05	1.03
1:C:470:PHE:O	1:C:471:ILE:CG1	2.06	1.03
1:c:470:PHE:O	1:c:471:ILE:CG1	2.06	1.03
1:K:470:PHE:O	1:K:471:ILE:CG1	2.06	1.03
1:r:204:THR:OG1	1:P:55:TRP:O	1.74	1.03
1:1:470:PHE:O	1:1:471:ILE:CG1	2.06	1.03
1:F:470:PHE:O	1:F:471:ILE:CG1	2.06	1.03
1:S:470:PHE:O	1:S:471:ILE:CG1	2.06	1.03
1:3:470:PHE:O	1:3:471:ILE:CG1	2.06	1.03
1:6:470:PHE:O	1:6:471:ILE:CG1	2.06	1.03
1:M:470:PHE:O	1:M:471:ILE:CG1	2.06	1.03
1:E:470:PHE:O	1:E:471:ILE:CG1	2.06	1.03
1:P:470:PHE:O	1:P:471:ILE:CG1	2.05	1.03
1:X:470:PHE:O	1:X:471:ILE:CG1	2.06	1.03
1:J:470:PHE:O	1:J:471:ILE:CG1	2.05	1.02
1:l:470:PHE:O	1:l:471:ILE:CG1	2.06	1.02
1:s:470:PHE:O	1:s:471:ILE:CG1	2.06	1.02
1:t:470:PHE:O	1:t:471:ILE:CG1	2.06	1.02
1:d:470:PHE:O	1:d:471:ILE:CG1	2.06	1.02
1:7:470:PHE:O	1:7:471:ILE:CG1	2.06	1.02
1:U:470:PHE:O	1:U:471:ILE:CG1	2.06	1.02
1:h:470:PHE:O	1:h:471:ILE:CG1	2.05	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:470:PHE:O	1:b:471:ILE:CG1	2.06	1.02
1:q:470:PHE:O	1:q:471:ILE:CG1	2.06	1.02
1:K:204:THR:OG1	1:1:55:TRP:O	1.80	0.99
1:I:207:LYS:CE	1:T:209:GLN:OE1	2.14	0.95
1:k:209:GLN:OE1	1:1:207:LYS:CE	2.16	0.94
1:I:204:THR:OG1	1:T:55:TRP:O	1.86	0.92
1:I:209:GLN:OE1	1:O:207:LYS:HE3	1.69	0.90
1:y:206:MET:CG	1:y:206:MET:CA	2.55	0.84
1:K:207:LYS:HE3	1:1:209:GLN:OE1	1.78	0.83
1:5:284:SER:N	1:5:296:GLU:OE2	2.14	0.81
1:l:284:SER:N	1:l:296:GLU:OE2	2.14	0.81
1:F:284:SER:N	1:F:296:GLU:OE2	2.14	0.81
1:P:284:SER:N	1:P:296:GLU:OE2	2.14	0.81
1:V:284:SER:N	1:V:296:GLU:OE2	2.13	0.81
1:S:284:SER:N	1:S:296:GLU:OE2	2.14	0.81
1:d:284:SER:N	1:d:296:GLU:OE2	2.14	0.81
1:I:284:SER:N	1:I:296:GLU:OE2	2.14	0.81
1:n:284:SER:N	1:n:296:GLU:OE2	2.14	0.81
1:w:204:THR:OG1	1:Q:55:TRP:O	1.98	0.81
1:z:284:SER:N	1:z:296:GLU:OE2	2.13	0.81
1:B:284:SER:N	1:B:296:GLU:OE2	2.14	0.81
1:G:284:SER:N	1:G:296:GLU:OE2	2.14	0.81
1:Y:284:SER:N	1:Y:296:GLU:OE2	2.14	0.81
1:f:284:SER:N	1:f:296:GLU:OE2	2.14	0.81
1:s:284:SER:N	1:s:296:GLU:OE2	2.14	0.81
1:t:284:SER:N	1:t:296:GLU:OE2	2.14	0.81
1:H:450:VAL:HA	1:H:454:TYR:CE2	2.16	0.81
1:X:284:SER:N	1:X:296:GLU:OE2	2.14	0.81
1:i:450:VAL:HA	1:i:454:TYR:CE2	2.16	0.81
1:j:450:VAL:HA	1:j:454:TYR:CE2	2.16	0.81
1:x:284:SER:N	1:x:296:GLU:OE2	2.14	0.81
1:x:450:VAL:HA	1:x:454:TYR:CE2	2.16	0.81
1:2:450:VAL:HA	1:2:454:TYR:CE2	2.16	0.81
1:T:450:VAL:HA	1:T:454:TYR:CE2	2.16	0.81
1:a:450:VAL:HA	1:a:454:TYR:CE2	2.16	0.81
1:6:284:SER:N	1:6:296:GLU:OE2	2.14	0.81
1:j:284:SER:N	1:j:296:GLU:OE2	2.14	0.81
1:m:450:VAL:HA	1:m:454:TYR:CE2	2.16	0.81
1:p:450:VAL:HA	1:p:454:TYR:CE2	2.16	0.81
1:r:284:SER:N	1:r:296:GLU:OE2	2.13	0.81
1:v:284:SER:N	1:v:296:GLU:OE2	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:284:SER:N	1:N:296:GLU:OE2	2.14	0.81
1:b:284:SER:N	1:b:296:GLU:OE2	2.14	0.81
1:O:284:SER:N	1:O:296:GLU:OE2	2.14	0.81
1:O:450:VAL:HA	1:O:454:TYR:CE2	2.16	0.81
1:N:450:VAL:HA	1:N:454:TYR:CE2	2.16	0.81
1:O:284:SER:N	1:O:296:GLU:OE2	2.14	0.81
1:c:284:SER:N	1:c:296:GLU:OE2	2.14	0.81
1:3:284:SER:N	1:3:296:GLU:OE2	2.14	0.81
1:K:284:SER:N	1:K:296:GLU:OE2	2.14	0.81
1:f:450:VAL:HA	1:f:454:TYR:CE2	2.16	0.81
1:m:284:SER:N	1:m:296:GLU:OE2	2.13	0.81
1:o:284:SER:N	1:o:296:GLU:OE2	2.14	0.81
1:q:284:SER:N	1:q:296:GLU:OE2	2.14	0.81
1:y:450:VAL:HA	1:y:454:TYR:CE2	2.16	0.81
1:H:284:SER:N	1:H:296:GLU:OE2	2.14	0.81
1:R:284:SER:N	1:R:296:GLU:OE2	2.14	0.81
1:U:284:SER:N	1:U:296:GLU:OE2	2.14	0.81
1:V:450:VAL:HA	1:V:454:TYR:CE2	2.16	0.81
1:Z:284:SER:N	1:Z:296:GLU:OE2	2.14	0.81
1:M:284:SER:N	1:M:296:GLU:OE2	2.14	0.81
1:i:284:SER:N	1:i:296:GLU:OE2	2.14	0.81
1:k:450:VAL:HA	1:k:454:TYR:CE2	2.16	0.81
1:t:450:VAL:HA	1:t:454:TYR:CE2	2.16	0.81
1:y:284:SER:N	1:y:296:GLU:OE2	2.13	0.81
1:2:284:SER:N	1:2:296:GLU:OE2	2.14	0.81
1:G:450:VAL:HA	1:G:454:TYR:CE2	2.16	0.81
1:Z:450:VAL:HA	1:Z:454:TYR:CE2	2.16	0.81
1:d:450:VAL:HA	1:d:454:TYR:CE2	2.16	0.81
1:4:450:VAL:HA	1:4:454:TYR:CE2	2.16	0.81
1:M:450:VAL:HA	1:M:454:TYR:CE2	2.16	0.81
1:w:450:VAL:HA	1:w:454:TYR:CE2	2.16	0.81
1:R:450:VAL:HA	1:R:454:TYR:CE2	2.16	0.81
1:U:450:VAL:HA	1:U:454:TYR:CE2	2.16	0.81
1:O:450:VAL:HA	1:O:454:TYR:CE2	2.16	0.80
1:a:284:SER:N	1:a:296:GLU:OE2	2.14	0.80
1:4:284:SER:N	1:4:296:GLU:OE2	2.14	0.80
1:L:284:SER:N	1:L:296:GLU:OE2	2.14	0.80
1:g:450:VAL:HA	1:g:454:TYR:CE2	2.16	0.80
1:h:284:SER:N	1:h:296:GLU:OE2	2.14	0.80
1:n:450:VAL:HA	1:n:454:TYR:CE2	2.16	0.80
1:o:450:VAL:HA	1:o:454:TYR:CE2	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:284:SER:N	1:p:296:GLU:OE2	2.14	0.80
1:1:450:VAL:HA	1:1:454:TYR:CE2	2.16	0.80
1:A:450:VAL:HA	1:A:454:TYR:CE2	2.16	0.80
1:D:284:SER:N	1:D:296:GLU:OE2	2.14	0.80
1:D:450:VAL:HA	1:D:454:TYR:CE2	2.16	0.80
1:Q:450:VAL:HA	1:Q:454:TYR:CE2	2.16	0.80
1:T:284:SER:N	1:T:296:GLU:OE2	2.14	0.80
1:X:450:VAL:HA	1:X:454:TYR:CE2	2.16	0.80
1:3:450:VAL:HA	1:3:454:TYR:CE2	2.16	0.80
1:K:450:VAL:HA	1:K:454:TYR:CE2	2.16	0.80
1:q:450:VAL:HA	1:q:454:TYR:CE2	2.16	0.80
1:s:450:VAL:HA	1:s:454:TYR:CE2	2.16	0.80
1:u:450:VAL:HA	1:u:454:TYR:CE2	2.16	0.80
1:Q:284:SER:N	1:Q:296:GLU:OE2	2.14	0.80
1:6:450:VAL:HA	1:6:454:TYR:CE2	2.16	0.80
1:J:284:SER:N	1:J:296:GLU:OE2	2.14	0.80
1:g:284:SER:N	1:g:296:GLU:OE2	2.14	0.80
1:W:284:SER:N	1:W:296:GLU:OE2	2.14	0.80
1:W:450:VAL:HA	1:W:454:TYR:CE2	2.16	0.80
1:C:450:VAL:HA	1:C:454:TYR:CE2	2.16	0.80
1:b:450:VAL:HA	1:b:454:TYR:CE2	2.16	0.80
1:5:450:VAL:HA	1:5:454:TYR:CE2	2.16	0.80
1:7:284:SER:N	1:7:296:GLU:OE2	2.14	0.80
1:I:450:VAL:HA	1:I:454:TYR:CE2	2.16	0.80
1:h:450:VAL:HA	1:h:454:TYR:CE2	2.16	0.80
1:E:450:VAL:HA	1:E:454:TYR:CE2	2.16	0.80
1:L:450:VAL:HA	1:L:454:TYR:CE2	2.16	0.80
1:k:284:SER:N	1:k:296:GLU:OE2	2.14	0.80
1:r:450:VAL:HA	1:r:454:TYR:CE2	2.16	0.80
1:E:284:SER:N	1:E:296:GLU:OE2	2.14	0.80
1:c:450:VAL:HA	1:c:454:TYR:CE2	2.16	0.80
1:w:284:SER:N	1:w:296:GLU:OE2	2.13	0.80
1:1:284:SER:N	1:1:296:GLU:OE2	2.14	0.80
1:e:284:SER:N	1:e:296:GLU:OE2	2.14	0.80
1:e:450:VAL:HA	1:e:454:TYR:CE2	2.16	0.80
1:l:450:VAL:HA	1:l:454:TYR:CE2	2.16	0.80
1:A:284:SER:N	1:A:296:GLU:OE2	2.14	0.80
1:P:450:VAL:HA	1:P:454:TYR:CE2	2.16	0.80
1:Y:450:VAL:HA	1:Y:454:TYR:CE2	2.16	0.80
1:5:204:THR:OG1	1:i:55:TRP:O	1.98	0.80
1:B:450:VAL:HA	1:B:454:TYR:CE2	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:284:SER:N	1:C:296:GLU:OE2	2.14	0.80
1:u:284:SER:N	1:u:296:GLU:OE2	2.14	0.80
1:F:450:VAL:HA	1:F:454:TYR:CE2	2.16	0.80
1:S:450:VAL:HA	1:S:454:TYR:CE2	2.16	0.80
1:J:450:VAL:HA	1:J:454:TYR:CE2	2.16	0.79
1:v:450:VAL:HA	1:v:454:TYR:CE2	2.16	0.79
1:z:450:VAL:HA	1:z:454:TYR:CE2	2.16	0.79
1:k:55:TRP:O	1:1:204:THR:OG1	1.99	0.79
1:7:450:VAL:HA	1:7:454:TYR:CE2	2.16	0.79
1:B:204:THR:OG1	1:G:55:TRP:O	2.00	0.79
1:K:470:PHE:C	1:K:471:ILE:HG13	2.09	0.79
1:4:470:PHE:C	1:4:471:ILE:HG13	2.08	0.78
1:6:470:PHE:C	1:6:471:ILE:HG13	2.09	0.78
1:I:55:TRP:O	1:O:204:THR:OG1	2.00	0.78
1:J:470:PHE:C	1:J:471:ILE:HG13	2.08	0.78
1:e:470:PHE:C	1:e:471:ILE:HG13	2.09	0.78
1:H:470:PHE:C	1:H:471:ILE:HG13	2.08	0.78
1:T:470:PHE:C	1:T:471:ILE:HG13	2.08	0.78
1:L:470:PHE:C	1:L:471:ILE:HG13	2.09	0.78
1:7:470:PHE:C	1:7:471:ILE:HG13	2.09	0.78
1:j:207:LYS:NZ	1:C:209:GLN:NE2	2.22	0.78
1:W:470:PHE:C	1:W:471:ILE:HG13	2.09	0.78
1:m:470:PHE:C	1:m:471:ILE:HG13	2.09	0.78
1:t:470:PHE:C	1:t:471:ILE:HG13	2.09	0.78
1:2:470:PHE:C	1:2:471:ILE:HG13	2.08	0.78
1:5:470:PHE:C	1:5:471:ILE:HG13	2.09	0.78
1:i:470:PHE:C	1:i:471:ILE:HG13	2.09	0.78
1:I:470:PHE:C	1:I:471:ILE:HG13	2.09	0.78
1:U:470:PHE:C	1:U:471:ILE:HG13	2.09	0.78
1:X:470:PHE:C	1:X:471:ILE:HG13	2.09	0.78
1:p:470:PHE:C	1:p:471:ILE:HG13	2.08	0.78
1:y:470:PHE:C	1:y:471:ILE:HG13	2.09	0.78
1:E:470:PHE:C	1:E:471:ILE:HG13	2.09	0.78
1:C:470:PHE:C	1:C:471:ILE:HG13	2.08	0.78
1:a:470:PHE:C	1:a:471:ILE:HG13	2.08	0.78
1:h:470:PHE:C	1:h:471:ILE:HG13	2.09	0.78
1:w:470:PHE:C	1:w:471:ILE:HG13	2.09	0.77
1:a:204:THR:OG1	1:e:55:TRP:O	2.00	0.77
1:b:470:PHE:C	1:b:471:ILE:HG13	2.09	0.77
1:q:470:PHE:C	1:q:471:ILE:HG13	2.08	0.77
1:l:470:PHE:C	1:l:471:ILE:HG13	2.09	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:470:PHE:C	1:R:471:ILE:HG13	2.09	0.77
1:6:55:TRP:O	1:Q:204:THR:OG1	2.01	0.77
1:g:470:PHE:C	1:g:471:ILE:HG13	2.09	0.77
1:O:470:PHE:C	1:O:471:ILE:HG13	2.09	0.77
1:3:470:PHE:C	1:3:471:ILE:HG13	2.09	0.77
1:n:79:LEU:H	1:n:512:ASN:HD21	1.33	0.77
1:C:79:LEU:H	1:C:512:ASN:HD21	1.33	0.77
1:d:470:PHE:C	1:d:471:ILE:HG13	2.09	0.77
1:E:79:LEU:H	1:E:512:ASN:HD21	1.33	0.77
1:G:79:LEU:H	1:G:512:ASN:HD21	1.33	0.77
1:6:389:LEU:HA	1:6:465:PRO:HG2	1.67	0.77
1:K:389:LEU:HA	1:K:465:PRO:HG2	1.67	0.77
1:M:470:PHE:C	1:M:471:ILE:HG13	2.09	0.77
1:j:389:LEU:HA	1:j:465:PRO:HG2	1.67	0.77
1:s:470:PHE:C	1:s:471:ILE:HG13	2.09	0.77
1:N:389:LEU:HA	1:N:465:PRO:HG2	1.67	0.77
1:Q:79:LEU:H	1:Q:512:ASN:HD21	1.33	0.77
1:Y:79:LEU:H	1:Y:512:ASN:HD21	1.33	0.77
1:A:470:PHE:C	1:A:471:ILE:HG13	2.09	0.76
1:B:470:PHE:C	1:B:471:ILE:HG13	2.08	0.76
1:h:389:LEU:HA	1:h:465:PRO:HG2	1.67	0.76
1:u:470:PHE:C	1:u:471:ILE:HG13	2.09	0.76
1:A:389:LEU:HA	1:A:465:PRO:HG2	1.67	0.76
1:B:79:LEU:H	1:B:512:ASN:HD21	1.33	0.76
1:W:389:LEU:HA	1:W:465:PRO:HG2	1.67	0.76
1:S:470:PHE:C	1:S:471:ILE:HG13	2.09	0.76
1:O:79:LEU:H	1:O:512:ASN:HD21	1.33	0.76
1:a:389:LEU:HA	1:a:465:PRO:HG2	1.67	0.76
1:k:79:LEU:H	1:k:512:ASN:HD21	1.33	0.76
1:k:470:PHE:C	1:k:471:ILE:HG13	2.08	0.76
1:Y:389:LEU:HA	1:Y:465:PRO:HG2	1.67	0.76
1:c:389:LEU:HA	1:c:465:PRO:HG2	1.67	0.76
1:r:389:LEU:HA	1:r:465:PRO:HG2	1.67	0.76
1:u:389:LEU:HA	1:u:465:PRO:HG2	1.67	0.76
1:v:389:LEU:HA	1:v:465:PRO:HG2	1.67	0.76
1:x:389:LEU:HA	1:x:465:PRO:HG2	1.67	0.76
1:z:389:LEU:HA	1:z:465:PRO:HG2	1.67	0.76
1:B:389:LEU:HA	1:B:465:PRO:HG2	1.67	0.76
1:F:389:LEU:HA	1:F:465:PRO:HG2	1.67	0.76
1:X:79:LEU:H	1:X:512:ASN:HD21	1.33	0.76
1:Y:470:PHE:C	1:Y:471:ILE:HG13	2.09	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:79:LEU:H	1:6:512:ASN:HD21	1.33	0.76
1:e:389:LEU:HA	1:e:465:PRO:HG2	1.67	0.76
1:o:79:LEU:H	1:o:512:ASN:HD21	1.33	0.76
1:p:389:LEU:HA	1:p:465:PRO:HG2	1.67	0.76
1:t:79:LEU:H	1:t:512:ASN:HD21	1.33	0.76
1:F:470:PHE:C	1:F:471:ILE:HG13	2.09	0.76
1:P:470:PHE:C	1:P:471:ILE:HG13	2.08	0.76
1:U:389:LEU:HA	1:U:465:PRO:HG2	1.67	0.76
1:V:470:PHE:C	1:V:471:ILE:HG13	2.09	0.76
1:I:209:GLN:OE1	1:O:207:LYS:HE2	1.85	0.76
1:f:470:PHE:C	1:f:471:ILE:HG13	2.08	0.76
1:l:389:LEU:HA	1:l:465:PRO:HG2	1.67	0.76
1:l:470:PHE:C	1:l:471:ILE:HG13	2.09	0.76
1:P:389:LEU:HA	1:P:465:PRO:HG2	1.67	0.76
1:Q:470:PHE:C	1:Q:471:ILE:HG13	2.09	0.76
1:q:389:LEU:HA	1:q:465:PRO:HG2	1.67	0.76
1:O:389:LEU:HA	1:O:465:PRO:HG2	1.67	0.76
1:z:470:PHE:C	1:z:471:ILE:HG13	2.09	0.76
1:F:79:LEU:H	1:F:512:ASN:HD21	1.33	0.76
1:b:389:LEU:HA	1:b:465:PRO:HG2	1.67	0.76
1:m:389:LEU:HA	1:m:465:PRO:HG2	1.67	0.76
1:1:79:LEU:H	1:1:512:ASN:HD21	1.34	0.76
1:A:79:LEU:H	1:A:512:ASN:HD21	1.33	0.76
1:H:389:LEU:HA	1:H:465:PRO:HG2	1.67	0.76
1:C:389:LEU:HA	1:C:465:PRO:HG2	1.67	0.76
1:S:389:LEU:HA	1:S:465:PRO:HG2	1.67	0.76
1:3:389:LEU:HA	1:3:465:PRO:HG2	1.67	0.76
1:M:389:LEU:HA	1:M:465:PRO:HG2	1.67	0.76
1:r:79:LEU:H	1:r:512:ASN:HD21	1.33	0.76
1:V:79:LEU:H	1:V:512:ASN:HD21	1.33	0.76
1:X:389:LEU:HA	1:X:465:PRO:HG2	1.67	0.76
1:S:79:LEU:H	1:S:512:ASN:HD21	1.33	0.76
1:K:79:LEU:H	1:K:512:ASN:HD21	1.34	0.76
1:c:79:LEU:H	1:c:512:ASN:HD21	1.33	0.75
1:v:470:PHE:C	1:v:471:ILE:HG13	2.08	0.75
1:E:389:LEU:HA	1:E:465:PRO:HG2	1.67	0.75
1:u:79:LEU:H	1:u:512:ASN:HD21	1.33	0.75
1:w:79:LEU:H	1:w:512:ASN:HD21	1.34	0.75
1:t:389:LEU:HA	1:t:465:PRO:HG2	1.67	0.75
1:w:389:LEU:HA	1:w:465:PRO:HG2	1.67	0.75
1:y:389:LEU:HA	1:y:465:PRO:HG2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:389:LEU:HA	1:1:465:PRO:HG2	1.67	0.75
1:2:389:LEU:HA	1:2:465:PRO:HG2	1.67	0.75
1:T:389:LEU:HA	1:T:465:PRO:HG2	1.67	0.75
1:d:389:LEU:HA	1:d:465:PRO:HG2	1.67	0.75
1:s:389:LEU:HA	1:s:465:PRO:HG2	1.67	0.75
1:l:79:LEU:H	1:l:512:ASN:HD21	1.33	0.75
1:p:79:LEU:H	1:p:512:ASN:HD21	1.33	0.75
1:P:79:LEU:H	1:P:512:ASN:HD21	1.33	0.75
1:W:79:LEU:H	1:W:512:ASN:HD21	1.33	0.75
1:a:79:LEU:H	1:a:512:ASN:HD21	1.34	0.75
1:f:79:LEU:H	1:f:512:ASN:HD21	1.34	0.75
1:g:389:LEU:HA	1:g:465:PRO:HG2	1.67	0.75
1:D:389:LEU:HA	1:D:465:PRO:HG2	1.67	0.75
1:R:389:LEU:HA	1:R:465:PRO:HG2	1.67	0.75
1:4:389:LEU:HA	1:4:465:PRO:HG2	1.67	0.75
1:7:389:LEU:HA	1:7:465:PRO:HG2	1.67	0.75
1:k:389:LEU:HA	1:k:465:PRO:HG2	1.67	0.75
1:e:79:LEU:H	1:e:512:ASN:HD21	1.33	0.75
1:i:389:LEU:HA	1:i:465:PRO:HG2	1.67	0.75
1:Q:389:LEU:HA	1:Q:465:PRO:HG2	1.67	0.75
1:5:79:LEU:H	1:5:512:ASN:HD21	1.33	0.75
1:J:389:LEU:HA	1:J:465:PRO:HG2	1.67	0.75
1:L:389:LEU:HA	1:L:465:PRO:HG2	1.67	0.75
1:G:389:LEU:HA	1:G:465:PRO:HG2	1.67	0.75
1:Z:389:LEU:HA	1:Z:465:PRO:HG2	1.67	0.75
1:I:79:LEU:H	1:I:512:ASN:HD21	1.33	0.74
1:b:79:LEU:H	1:b:512:ASN:HD21	1.33	0.74
1:f:389:LEU:HA	1:f:465:PRO:HG2	1.67	0.74
1:r:470:PHE:C	1:r:471:ILE:HG13	2.09	0.74
1:V:389:LEU:HA	1:V:465:PRO:HG2	1.67	0.74
1:Z:470:PHE:C	1:Z:471:ILE:HG13	2.09	0.74
1:n:389:LEU:HA	1:n:465:PRO:HG2	1.67	0.74
1:y:79:LEU:H	1:y:512:ASN:HD21	1.33	0.74
1:L:79:LEU:H	1:L:512:ASN:HD21	1.33	0.74
1:D:470:PHE:C	1:D:471:ILE:HG13	2.09	0.74
1:N:79:LEU:H	1:N:512:ASN:HD21	1.33	0.74
1:I:207:LYS:HZ2	1:T:209:GLN:CD	1.93	0.74
1:I:389:LEU:HA	1:I:465:PRO:HG2	1.67	0.74
1:h:79:LEU:H	1:h:512:ASN:HD21	1.33	0.74
1:c:470:PHE:C	1:c:471:ILE:HG13	2.09	0.74
1:q:79:LEU:H	1:q:512:ASN:HD21	1.33	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:79:LEU:H	1:D:512:ASN:HD21	1.33	0.74
1:U:79:LEU:H	1:U:512:ASN:HD21	1.34	0.74
1:5:389:LEU:HA	1:5:465:PRO:HG2	1.67	0.74
1:I:209:GLN:CD	1:O:207:LYS:HZ1	1.94	0.74
1:j:79:LEU:H	1:j:512:ASN:HD21	1.33	0.74
1:M:79:LEU:H	1:M:512:ASN:HD21	1.33	0.74
1:i:79:LEU:H	1:i:512:ASN:HD21	1.33	0.74
1:s:79:LEU:H	1:s:512:ASN:HD21	1.33	0.74
1:2:79:LEU:H	1:2:512:ASN:HD21	1.33	0.74
1:0:389:LEU:HA	1:0:465:PRO:HG2	1.67	0.74
1:3:79:LEU:H	1:3:512:ASN:HD21	1.33	0.74
1:4:79:LEU:H	1:4:512:ASN:HD21	1.34	0.74
1:T:79:LEU:H	1:T:512:ASN:HD21	1.33	0.74
1:d:79:LEU:H	1:d:512:ASN:HD21	1.33	0.73
1:o:389:LEU:HA	1:o:465:PRO:HG2	1.67	0.73
1:O:79:LEU:H	1:O:512:ASN:HD21	1.34	0.73
1:Z:79:LEU:H	1:Z:512:ASN:HD21	1.33	0.73
1:M:209:GLN:CD	1:W:207:LYS:NZ	2.46	0.73
1:n:470:PHE:C	1:n:471:ILE:HG13	2.09	0.73
1:v:79:LEU:H	1:v:512:ASN:HD21	1.33	0.73
1:j:470:PHE:C	1:j:471:ILE:HG13	2.09	0.73
1:x:79:LEU:H	1:x:512:ASN:HD21	1.33	0.73
1:G:470:PHE:C	1:G:471:ILE:HG13	2.09	0.73
1:z:55:TRP:O	1:D:204:THR:OG1	2.05	0.73
1:J:79:LEU:H	1:J:512:ASN:HD21	1.33	0.73
1:0:204:THR:OG1	1:s:55:TRP:O	2.02	0.73
1:0:470:PHE:C	1:0:471:ILE:HG13	2.09	0.73
1:7:79:LEU:H	1:7:512:ASN:HD21	1.33	0.73
1:z:79:LEU:H	1:z:512:ASN:HD21	1.33	0.73
1:N:470:PHE:C	1:N:471:ILE:HG13	2.09	0.73
1:o:470:PHE:C	1:o:471:ILE:HG13	2.09	0.72
1:m:79:LEU:H	1:m:512:ASN:HD21	1.33	0.72
1:g:79:LEU:H	1:g:512:ASN:HD21	1.34	0.72
1:x:470:PHE:C	1:x:471:ILE:HG13	2.09	0.72
1:R:79:LEU:H	1:R:512:ASN:HD21	1.33	0.72
1:H:79:LEU:H	1:H:512:ASN:HD21	1.34	0.71
1:K:283:HIS:C	1:K:296:GLU:OE2	2.34	0.71
1:E:283:HIS:C	1:E:296:GLU:OE2	2.34	0.71
1:5:283:HIS:C	1:5:296:GLU:OE2	2.34	0.71
1:6:283:HIS:C	1:6:296:GLU:OE2	2.34	0.71
1:k:283:HIS:C	1:k:296:GLU:OE2	2.34	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:283:HIS:C	1:C:296:GLU:OE2	2.34	0.71
1:O:283:HIS:C	1:O:296:GLU:OE2	2.34	0.71
1:L:283:HIS:C	1:L:296:GLU:OE2	2.34	0.71
1:M:283:HIS:C	1:M:296:GLU:OE2	2.34	0.71
1:Q:283:HIS:C	1:Q:296:GLU:OE2	2.34	0.71
1:4:283:HIS:C	1:4:296:GLU:OE2	2.34	0.71
1:I:283:HIS:C	1:I:296:GLU:OE2	2.34	0.71
1:o:283:HIS:C	1:o:296:GLU:OE2	2.34	0.71
1:t:283:HIS:C	1:t:296:GLU:OE2	2.34	0.71
1:3:283:HIS:C	1:3:296:GLU:OE2	2.34	0.71
1:j:283:HIS:C	1:j:296:GLU:OE2	2.34	0.71
1:l:283:HIS:C	1:l:296:GLU:OE2	2.34	0.71
1:u:283:HIS:C	1:u:296:GLU:OE2	2.34	0.71
1:F:283:HIS:C	1:F:296:GLU:OE2	2.34	0.71
1:P:283:HIS:C	1:P:296:GLU:OE2	2.34	0.71
1:X:283:HIS:C	1:X:296:GLU:OE2	2.34	0.71
1:B:283:HIS:C	1:B:296:GLU:OE2	2.34	0.70
1:N:283:HIS:C	1:N:296:GLU:OE2	2.34	0.70
1:U:283:HIS:C	1:U:296:GLU:OE2	2.34	0.70
1:Z:283:HIS:C	1:Z:296:GLU:OE2	2.34	0.70
1:i:283:HIS:C	1:i:296:GLU:OE2	2.34	0.70
1:A:283:HIS:C	1:A:296:GLU:OE2	2.34	0.70
1:V:283:HIS:C	1:V:296:GLU:OE2	2.34	0.70
1:y:283:HIS:C	1:y:296:GLU:OE2	2.34	0.70
1:D:283:HIS:C	1:D:296:GLU:OE2	2.34	0.70
1:T:283:HIS:C	1:T:296:GLU:OE2	2.34	0.70
1:Y:283:HIS:C	1:Y:296:GLU:OE2	2.34	0.70
1:S:283:HIS:C	1:S:296:GLU:OE2	2.34	0.70
1:d:283:HIS:C	1:d:296:GLU:OE2	2.34	0.70
1:b:283:HIS:C	1:b:296:GLU:OE2	2.34	0.70
1:h:283:HIS:C	1:h:296:GLU:OE2	2.34	0.70
1:m:283:HIS:C	1:m:296:GLU:OE2	2.34	0.70
1:n:283:HIS:C	1:n:296:GLU:OE2	2.34	0.70
1:q:283:HIS:C	1:q:296:GLU:OE2	2.34	0.70
1:G:283:HIS:C	1:G:296:GLU:OE2	2.34	0.70
1:f:283:HIS:C	1:f:296:GLU:OE2	2.34	0.70
1:2:283:HIS:C	1:2:296:GLU:OE2	2.34	0.70
1:H:283:HIS:C	1:H:296:GLU:OE2	2.34	0.70
1:7:283:HIS:C	1:7:296:GLU:OE2	2.34	0.70
1:J:283:HIS:C	1:J:296:GLU:OE2	2.34	0.70
1:k:209:GLN:OE1	1:1:207:LYS:HE2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:283:HIS:C	1:v:296:GLU:OE2	2.34	0.70
1:z:283:HIS:C	1:z:296:GLU:OE2	2.34	0.70
1:s:283:HIS:C	1:s:296:GLU:OE2	2.34	0.70
1:b:204:THR:OG1	1:L:55:TRP:O	2.05	0.70
1:c:283:HIS:C	1:c:296:GLU:OE2	2.34	0.70
1:p:283:HIS:C	1:p:296:GLU:OE2	2.34	0.70
1:R:283:HIS:C	1:R:296:GLU:OE2	2.34	0.70
1:a:283:HIS:C	1:a:296:GLU:OE2	2.34	0.70
1:g:283:HIS:C	1:g:296:GLU:OE2	2.34	0.70
1:r:283:HIS:C	1:r:296:GLU:OE2	2.34	0.69
1:x:283:HIS:C	1:x:296:GLU:OE2	2.34	0.69
1:e:283:HIS:C	1:e:296:GLU:OE2	2.34	0.69
1:w:283:HIS:C	1:w:296:GLU:OE2	2.34	0.69
1:1:283:HIS:C	1:1:296:GLU:OE2	2.34	0.69
1:O:283:HIS:C	1:O:296:GLU:OE2	2.34	0.69
1:W:283:HIS:C	1:W:296:GLU:OE2	2.34	0.69
1:1:294:LEU:HD12	1:1:370:LYS:HB3	1.75	0.69
1:j:294:LEU:HD12	1:j:370:LYS:HB3	1.75	0.69
1:w:294:LEU:HD12	1:w:370:LYS:HB3	1.75	0.69
1:N:294:LEU:HD12	1:N:370:LYS:HB3	1.75	0.69
1:J:294:LEU:HD12	1:J:370:LYS:HB3	1.75	0.69
1:K:294:LEU:HD12	1:K:370:LYS:HB3	1.75	0.69
1:e:294:LEU:HD12	1:e:370:LYS:HB3	1.75	0.69
1:a:294:LEU:HD12	1:a:370:LYS:HB3	1.75	0.69
1:3:294:LEU:HD12	1:3:370:LYS:HB3	1.75	0.69
1:7:294:LEU:HD12	1:7:370:LYS:HB3	1.75	0.69
1:M:294:LEU:HD12	1:M:370:LYS:HB3	1.75	0.69
1:p:294:LEU:HD12	1:p:370:LYS:HB3	1.75	0.69
1:W:294:LEU:HD12	1:W:370:LYS:HB3	1.75	0.69
1:6:294:LEU:HD12	1:6:370:LYS:HB3	1.75	0.69
1:i:294:LEU:HD12	1:i:370:LYS:HB3	1.75	0.69
1:v:294:LEU:HD12	1:v:370:LYS:HB3	1.75	0.69
1:z:294:LEU:HD12	1:z:370:LYS:HB3	1.75	0.69
1:F:294:LEU:HD12	1:F:370:LYS:HB3	1.75	0.69
1:d:294:LEU:HD12	1:d:370:LYS:HB3	1.75	0.69
1:4:294:LEU:HD12	1:4:370:LYS:HB3	1.75	0.69
1:s:294:LEU:HD12	1:s:370:LYS:HB3	1.75	0.69
1:T:294:LEU:HD12	1:T:370:LYS:HB3	1.75	0.69
1:L:294:LEU:HD12	1:L:370:LYS:HB3	1.75	0.68
1:S:294:LEU:HD12	1:S:370:LYS:HB3	1.75	0.68
1:y:294:LEU:HD12	1:y:370:LYS:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:294:LEU:HD12	1:Q:370:LYS:HB3	1.75	0.68
1:k:294:LEU:HD12	1:k:370:LYS:HB3	1.75	0.68
1:2:294:LEU:HD12	1:2:370:LYS:HB3	1.75	0.68
1:U:294:LEU:HD12	1:U:370:LYS:HB3	1.75	0.68
1:Y:294:LEU:HD12	1:Y:370:LYS:HB3	1.75	0.68
1:Z:294:LEU:HD12	1:Z:370:LYS:HB3	1.75	0.68
1:h:294:LEU:HD12	1:h:370:LYS:HB3	1.75	0.68
1:q:294:LEU:HD12	1:q:370:LYS:HB3	1.75	0.68
1:D:294:LEU:HD12	1:D:370:LYS:HB3	1.75	0.68
1:P:294:LEU:HD12	1:P:370:LYS:HB3	1.75	0.68
1:b:294:LEU:HD12	1:b:370:LYS:HB3	1.75	0.68
1:J:456:LEU:HD11	1:J:472:PRO:HG2	1.76	0.68
1:B:294:LEU:HD12	1:B:370:LYS:HB3	1.75	0.68
1:b:456:LEU:HD11	1:b:472:PRO:HG2	1.76	0.68
1:5:294:LEU:HD12	1:5:370:LYS:HB3	1.75	0.68
1:7:456:LEU:HD11	1:7:472:PRO:HG2	1.76	0.68
1:K:456:LEU:HD11	1:K:472:PRO:HG2	1.76	0.68
1:l:294:LEU:HD12	1:l:370:LYS:HB3	1.75	0.68
1:q:456:LEU:HD11	1:q:472:PRO:HG2	1.76	0.68
1:Y:456:LEU:HD11	1:Y:472:PRO:HG2	1.76	0.68
1:I:294:LEU:HD12	1:I:370:LYS:HB3	1.75	0.68
1:6:456:LEU:HD11	1:6:472:PRO:HG2	1.76	0.68
1:B:456:LEU:HD11	1:B:472:PRO:HG2	1.76	0.68
1:x:456:LEU:HD11	1:x:472:PRO:HG2	1.76	0.68
1:N:456:LEU:HD11	1:N:472:PRO:HG2	1.76	0.68
1:g:294:LEU:HD12	1:g:370:LYS:HB3	1.75	0.68
1:j:456:LEU:HD11	1:j:472:PRO:HG2	1.76	0.68
1:O:456:LEU:HD11	1:O:472:PRO:HG2	1.76	0.68
1:R:294:LEU:HD12	1:R:370:LYS:HB3	1.75	0.67
1:r:294:LEU:HD12	1:r:370:LYS:HB3	1.75	0.67
1:z:456:LEU:HD11	1:z:472:PRO:HG2	1.76	0.67
1:A:294:LEU:HD12	1:A:370:LYS:HB3	1.75	0.67
1:C:456:LEU:HD11	1:C:472:PRO:HG2	1.76	0.67
1:c:294:LEU:HD12	1:c:370:LYS:HB3	1.75	0.67
1:f:294:LEU:HD12	1:f:370:LYS:HB3	1.75	0.67
1:u:294:LEU:HD12	1:u:370:LYS:HB3	1.75	0.67
1:x:294:LEU:HD12	1:x:370:LYS:HB3	1.75	0.67
1:U:456:LEU:HD11	1:U:472:PRO:HG2	1.76	0.67
1:e:456:LEU:HD11	1:e:472:PRO:HG2	1.76	0.67
1:v:456:LEU:HD11	1:v:472:PRO:HG2	1.76	0.67
1:E:294:LEU:HD12	1:E:370:LYS:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:456:LEU:HD11	1:E:472:PRO:HG2	1.76	0.67
1:R:456:LEU:HD11	1:R:472:PRO:HG2	1.76	0.67
1:X:456:LEU:HD11	1:X:472:PRO:HG2	1.76	0.67
1:C:294:LEU:HD12	1:C:370:LYS:HB3	1.75	0.67
1:O:294:LEU:HD12	1:O:370:LYS:HB3	1.75	0.67
1:h:456:LEU:HD11	1:h:472:PRO:HG2	1.76	0.67
1:T:456:LEU:HD11	1:T:472:PRO:HG2	1.76	0.67
1:V:294:LEU:HD12	1:V:370:LYS:HB3	1.75	0.67
1:W:456:LEU:HD11	1:W:472:PRO:HG2	1.76	0.67
1:4:241:LEU:HD13	1:6:94:LYS:HA	1.77	0.67
1:o:294:LEU:HD12	1:o:370:LYS:HB3	1.75	0.67
1:t:456:LEU:HD11	1:t:472:PRO:HG2	1.76	0.67
1:O:294:LEU:HD12	1:O:370:LYS:HB3	1.75	0.67
1:a:57:PRO:HB3	1:3:204:THR:HG21	1.77	0.67
1:5:456:LEU:HD11	1:5:472:PRO:HG2	1.76	0.67
1:t:294:LEU:HD12	1:t:370:LYS:HB3	1.75	0.67
1:v:57:PRO:HB3	1:Z:204:THR:HG21	1.77	0.67
1:3:456:LEU:HD11	1:3:472:PRO:HG2	1.76	0.67
1:I:456:LEU:HD11	1:I:472:PRO:HG2	1.76	0.67
1:M:456:LEU:HD11	1:M:472:PRO:HG2	1.76	0.67
1:H:529:THR:HG21	1:Q:236:ILE:HD12	1.77	0.67
1:X:294:LEU:HD12	1:X:370:LYS:HB3	1.75	0.67
1:d:55:TRP:O	1:o:204:THR:OG1	2.09	0.67
1:g:456:LEU:HD11	1:g:472:PRO:HG2	1.76	0.67
1:p:241:LEU:HD13	1:r:94:LYS:HA	1.77	0.67
1:V:456:LEU:HD11	1:V:472:PRO:HG2	1.76	0.67
1:a:241:LEU:HD13	1:c:94:LYS:HA	1.77	0.66
1:n:294:LEU:HD12	1:n:370:LYS:HB3	1.75	0.66
1:p:456:LEU:HD11	1:p:472:PRO:HG2	1.76	0.66
1:s:456:LEU:HD11	1:s:472:PRO:HG2	1.76	0.66
1:y:456:LEU:HD11	1:y:472:PRO:HG2	1.76	0.66
1:D:456:LEU:HD11	1:D:472:PRO:HG2	1.76	0.66
1:H:294:LEU:HD12	1:H:370:LYS:HB3	1.75	0.66
1:P:456:LEU:HD11	1:P:472:PRO:HG2	1.76	0.66
1:a:456:LEU:HD11	1:a:472:PRO:HG2	1.76	0.66
1:f:456:LEU:HD11	1:f:472:PRO:HG2	1.76	0.66
1:i:456:LEU:HD11	1:i:472:PRO:HG2	1.76	0.66
1:k:456:LEU:HD11	1:k:472:PRO:HG2	1.76	0.66
1:l:456:LEU:HD11	1:l:472:PRO:HG2	1.76	0.66
1:n:456:LEU:HD11	1:n:472:PRO:HG2	1.76	0.66
1:p:529:THR:HG21	1:s:236:ILE:HD12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:204:THR:HG21	1:B:57:PRO:HB3	1.77	0.66
1:G:294:LEU:HD12	1:G:370:LYS:HB3	1.75	0.66
1:G:456:LEU:HD11	1:G:472:PRO:HG2	1.76	0.66
1:Z:456:LEU:HD11	1:Z:472:PRO:HG2	1.76	0.66
1:a:529:THR:HG21	1:d:236:ILE:HD12	1.77	0.66
1:d:456:LEU:HD11	1:d:472:PRO:HG2	1.76	0.66
1:J:241:LEU:HD13	1:L:94:LYS:HA	1.77	0.66
1:m:294:LEU:HD12	1:m:370:LYS:HB3	1.75	0.66
1:2:456:LEU:HD11	1:2:472:PRO:HG2	1.76	0.66
1:Q:456:LEU:HD11	1:Q:472:PRO:HG2	1.76	0.66
1:3:461:PRO:HA	1:3:466:GLU:HG3	1.78	0.66
1:M:461:PRO:HA	1:M:466:GLU:HG3	1.78	0.66
1:k:461:PRO:HA	1:k:466:GLU:HG3	1.78	0.66
1:v:461:PRO:HA	1:v:466:GLU:HG3	1.78	0.66
1:1:456:LEU:HD11	1:1:472:PRO:HG2	1.76	0.66
1:G:461:PRO:HA	1:G:466:GLU:HG3	1.78	0.66
1:4:529:THR:HG21	1:7:236:ILE:HD12	1.77	0.66
1:n:461:PRO:HA	1:n:466:GLU:HG3	1.78	0.66
1:w:456:LEU:HD11	1:w:472:PRO:HG2	1.76	0.66
1:2:241:LEU:HD13	1:z:94:LYS:HA	1.77	0.66
1:Q:461:PRO:HA	1:Q:466:GLU:HG3	1.78	0.66
1:Y:529:THR:HG21	1:S:236:ILE:HD12	1.77	0.66
1:S:461:PRO:HA	1:S:466:GLU:HG3	1.78	0.66
1:0:405:PHE:CE1	1:0:456:LEU:HB3	2.31	0.66
1:c:405:PHE:CE1	1:c:456:LEU:HB3	2.31	0.66
1:4:57:PRO:HB3	1:q:204:THR:HG21	1.77	0.66
1:m:405:PHE:CE1	1:m:456:LEU:HB3	2.31	0.66
1:n:405:PHE:CE1	1:n:456:LEU:HB3	2.31	0.66
1:w:405:PHE:CE1	1:w:456:LEU:HB3	2.31	0.66
1:z:405:PHE:CE1	1:z:456:LEU:HB3	2.31	0.66
1:z:461:PRO:HA	1:z:466:GLU:HG3	1.78	0.66
1:B:529:THR:HG21	1:F:236:ILE:HD12	1.77	0.66
1:F:456:LEU:HD11	1:F:472:PRO:HG2	1.76	0.66
1:F:461:PRO:HA	1:F:466:GLU:HG3	1.78	0.66
1:H:405:PHE:CE1	1:H:456:LEU:HB3	2.31	0.66
1:R:461:PRO:HA	1:R:466:GLU:HG3	1.78	0.66
1:T:405:PHE:CE1	1:T:456:LEU:HB3	2.31	0.66
1:V:461:PRO:HA	1:V:466:GLU:HG3	1.78	0.66
1:W:461:PRO:HA	1:W:466:GLU:HG3	1.78	0.66
1:J:55:TRP:O	1:s:204:THR:OG1	2.11	0.66
1:J:461:PRO:HA	1:J:466:GLU:HG3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:461:PRO:HA	1:e:466:GLU:HG3	1.78	0.66
1:f:461:PRO:HA	1:f:466:GLU:HG3	1.78	0.66
1:i:405:PHE:CE1	1:i:456:LEU:HB3	2.31	0.66
1:m:461:PRO:HA	1:m:466:GLU:HG3	1.78	0.66
1:o:405:PHE:CE1	1:o:456:LEU:HB3	2.31	0.66
1:p:405:PHE:CE1	1:p:456:LEU:HB3	2.31	0.66
1:v:241:LEU:HD13	1:x:94:LYS:HA	1.77	0.66
1:1:405:PHE:CE1	1:1:456:LEU:HB3	2.31	0.66
1:G:405:PHE:CE1	1:G:456:LEU:HB3	2.31	0.66
1:T:529:THR:HG21	1:W:236:ILE:HD12	1.77	0.66
1:0:461:PRO:HA	1:0:466:GLU:HG3	1.78	0.66
1:a:405:PHE:CE1	1:a:456:LEU:HB3	2.31	0.66
1:d:461:PRO:HA	1:d:466:GLU:HG3	1.78	0.66
1:4:456:LEU:HD11	1:4:472:PRO:HG2	1.76	0.66
1:6:461:PRO:HA	1:6:466:GLU:HG3	1.78	0.66
1:g:461:PRO:HA	1:g:466:GLU:HG3	1.78	0.66
1:o:461:PRO:HA	1:o:466:GLU:HG3	1.78	0.66
1:r:405:PHE:CE1	1:r:456:LEU:HB3	2.31	0.66
1:t:461:PRO:HA	1:t:466:GLU:HG3	1.78	0.66
1:v:405:PHE:CE1	1:v:456:LEU:HB3	2.31	0.66
1:U:461:PRO:HA	1:U:466:GLU:HG3	1.78	0.66
1:X:461:PRO:HA	1:X:466:GLU:HG3	1.78	0.66
1:0:456:LEU:HD11	1:0:472:PRO:HG2	1.76	0.66
1:b:405:PHE:CE1	1:b:456:LEU:HB3	2.31	0.66
1:K:405:PHE:CE1	1:K:456:LEU:HB3	2.31	0.66
1:L:456:LEU:HD11	1:L:472:PRO:HG2	1.76	0.66
1:f:241:LEU:HD13	1:h:94:LYS:HA	1.77	0.66
1:q:405:PHE:CE1	1:q:456:LEU:HB3	2.31	0.66
1:s:461:PRO:HA	1:s:466:GLU:HG3	1.78	0.66
1:A:405:PHE:CE1	1:A:456:LEU:HB3	2.31	0.66
1:H:461:PRO:HA	1:H:466:GLU:HG3	1.78	0.66
1:7:405:PHE:CE1	1:7:456:LEU:HB3	2.31	0.66
1:7:461:PRO:HA	1:7:466:GLU:HG3	1.78	0.66
1:J:405:PHE:CE1	1:J:456:LEU:HB3	2.31	0.66
1:K:461:PRO:HA	1:K:466:GLU:HG3	1.78	0.66
1:f:405:PHE:CE1	1:f:456:LEU:HB3	2.31	0.66
1:h:461:PRO:HA	1:h:466:GLU:HG3	1.78	0.66
1:j:405:PHE:CE1	1:j:456:LEU:HB3	2.31	0.66
1:t:405:PHE:CE1	1:t:456:LEU:HB3	2.31	0.66
1:x:405:PHE:CE1	1:x:456:LEU:HB3	2.31	0.66
1:O:405:PHE:CE1	1:O:456:LEU:HB3	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:405:PHE:CE1	1:Y:456:LEU:HB3	2.31	0.66
1:S:456:LEU:HD11	1:S:472:PRO:HG2	1.76	0.66
1:6:405:PHE:CE1	1:6:456:LEU:HB3	2.31	0.65
1:J:529:THR:HG21	1:M:236:ILE:HD12	1.77	0.65
1:M:405:PHE:CE1	1:M:456:LEU:HB3	2.31	0.65
1:u:405:PHE:CE1	1:u:456:LEU:HB3	2.31	0.65
1:u:461:PRO:HA	1:u:466:GLU:HG3	1.78	0.65
1:B:241:LEU:HD13	1:E:94:LYS:HA	1.77	0.65
1:B:405:PHE:CE1	1:B:456:LEU:HB3	2.31	0.65
1:N:405:PHE:CE1	1:N:456:LEU:HB3	2.31	0.65
1:X:405:PHE:CE1	1:X:456:LEU:HB3	2.31	0.65
1:Y:241:LEU:HD13	1:C:94:LYS:HA	1.77	0.65
1:3:405:PHE:CE1	1:3:456:LEU:HB3	2.31	0.65
1:o:456:LEU:HD11	1:o:472:PRO:HG2	1.76	0.65
1:r:456:LEU:HD11	1:r:472:PRO:HG2	1.76	0.65
1:y:461:PRO:HA	1:y:466:GLU:HG3	1.78	0.65
1:D:461:PRO:HA	1:D:466:GLU:HG3	1.78	0.65
1:V:405:PHE:CE1	1:V:456:LEU:HB3	2.31	0.65
1:Z:405:PHE:CE1	1:Z:456:LEU:HB3	2.31	0.65
1:i:461:PRO:HA	1:i:466:GLU:HG3	1.78	0.65
1:u:456:LEU:HD11	1:u:472:PRO:HG2	1.76	0.65
1:2:461:PRO:HA	1:2:466:GLU:HG3	1.78	0.65
1:O:461:PRO:HA	1:O:466:GLU:HG3	1.78	0.65
1:H:456:LEU:HD11	1:H:472:PRO:HG2	1.76	0.65
1:R:405:PHE:CE1	1:R:456:LEU:HB3	2.31	0.65
1:c:456:LEU:HD11	1:c:472:PRO:HG2	1.76	0.65
1:c:461:PRO:HA	1:c:466:GLU:HG3	1.78	0.65
1:3:236:ILE:HD12	1:7:529:THR:HG21	1.78	0.65
1:L:405:PHE:CE1	1:L:456:LEU:HB3	2.31	0.65
1:g:405:PHE:CE1	1:g:456:LEU:HB3	2.31	0.65
1:j:461:PRO:HA	1:j:466:GLU:HG3	1.78	0.65
1:l:461:PRO:HA	1:l:466:GLU:HG3	1.78	0.65
1:D:405:PHE:CE1	1:D:456:LEU:HB3	2.31	0.65
1:E:461:PRO:HA	1:E:466:GLU:HG3	1.78	0.65
1:P:461:PRO:HA	1:P:466:GLU:HG3	1.78	0.65
1:Q:405:PHE:CE1	1:Q:456:LEU:HB3	2.31	0.65
1:6:114:GLU:HG3	1:6:119:HIS:HB2	1.79	0.65
1:j:114:GLU:HG3	1:j:119:HIS:HB2	1.79	0.65
1:l:461:PRO:HA	1:l:466:GLU:HG3	1.78	0.65
1:T:461:PRO:HA	1:T:466:GLU:HG3	1.78	0.65
1:Z:461:PRO:HA	1:Z:466:GLU:HG3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:405:PHE:CE1	1:5:456:LEU:HB3	2.31	0.65
1:J:236:ILE:HD12	1:L:529:THR:HG21	1.79	0.65
1:K:114:GLU:HG3	1:K:119:HIS:HB2	1.79	0.65
1:L:114:GLU:HG3	1:L:119:HIS:HB2	1.79	0.65
1:f:236:ILE:HD12	1:h:529:THR:HG21	1.79	0.65
1:k:529:THR:HG21	1:n:236:ILE:HD12	1.77	0.65
1:r:461:PRO:HA	1:r:466:GLU:HG3	1.78	0.65
1:y:405:PHE:CE1	1:y:456:LEU:HB3	2.31	0.65
1:A:456:LEU:HD11	1:A:472:PRO:HG2	1.76	0.65
1:A:461:PRO:HA	1:A:466:GLU:HG3	1.78	0.65
1:E:405:PHE:CE1	1:E:456:LEU:HB3	2.31	0.65
1:H:241:LEU:HD13	1:P:94:LYS:HA	1.77	0.65
1:N:114:GLU:HG3	1:N:119:HIS:HB2	1.79	0.65
1:U:405:PHE:CE1	1:U:456:LEU:HB3	2.31	0.65
1:Y:236:ILE:HD12	1:C:529:THR:HG21	1.79	0.65
1:C:461:PRO:HA	1:C:466:GLU:HG3	1.78	0.65
1:a:236:ILE:HD12	1:c:529:THR:HG21	1.79	0.65
1:4:461:PRO:HA	1:4:466:GLU:HG3	1.78	0.65
1:5:461:PRO:HA	1:5:466:GLU:HG3	1.78	0.65
1:I:236:ILE:HD12	1:M:529:THR:HG21	1.78	0.65
1:L:461:PRO:HA	1:L:466:GLU:HG3	1.78	0.65
1:f:529:THR:HG21	1:i:236:ILE:HD12	1.77	0.65
1:k:236:ILE:HD12	1:m:529:THR:HG21	1.79	0.65
1:m:456:LEU:HD11	1:m:472:PRO:HG2	1.76	0.65
1:n:114:GLU:HG3	1:n:119:HIS:HB2	1.79	0.65
1:q:114:GLU:HG3	1:q:119:HIS:HB2	1.79	0.65
1:w:461:PRO:HA	1:w:466:GLU:HG3	1.78	0.65
1:x:461:PRO:HA	1:x:466:GLU:HG3	1.78	0.65
1:B:236:ILE:HD12	1:E:529:THR:HG21	1.79	0.65
1:F:114:GLU:HG3	1:F:119:HIS:HB2	1.79	0.65
1:N:461:PRO:HA	1:N:466:GLU:HG3	1.78	0.65
1:R:114:GLU:HG3	1:R:119:HIS:HB2	1.79	0.65
1:0:236:ILE:HD12	1:d:529:THR:HG21	1.78	0.65
1:d:405:PHE:CE1	1:d:456:LEU:HB3	2.31	0.65
1:4:114:GLU:HG3	1:4:119:HIS:HB2	1.79	0.65
1:4:405:PHE:CE1	1:4:456:LEU:HB3	2.31	0.65
1:7:114:GLU:HG3	1:7:119:HIS:HB2	1.79	0.65
1:e:405:PHE:CE1	1:e:456:LEU:HB3	2.31	0.65
1:g:114:GLU:HG3	1:g:119:HIS:HB2	1.79	0.65
1:h:405:PHE:CE1	1:h:456:LEU:HB3	2.31	0.65
1:k:241:LEU:HD13	1:m:94:LYS:HA	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:236:ILE:HD12	1:s:529:THR:HG21	1.78	0.65
1:p:236:ILE:HD12	1:r:529:THR:HG21	1.78	0.65
1:q:461:PRO:HA	1:q:466:GLU:HG3	1.78	0.65
1:2:405:PHE:CE1	1:2:456:LEU:HB3	2.31	0.65
1:2:529:THR:HG21	1:A:236:ILE:HD12	1.77	0.65
1:G:114:GLU:HG3	1:G:119:HIS:HB2	1.79	0.65
1:W:114:GLU:HG3	1:W:119:HIS:HB2	1.79	0.65
1:Y:114:GLU:HG3	1:Y:119:HIS:HB2	1.79	0.65
1:a:461:PRO:HA	1:a:466:GLU:HG3	1.78	0.65
1:b:114:GLU:HG3	1:b:119:HIS:HB2	1.79	0.65
1:I:405:PHE:CE1	1:I:456:LEU:HB3	2.31	0.65
1:J:114:GLU:HG3	1:J:119:HIS:HB2	1.79	0.65
1:k:405:PHE:CE1	1:k:456:LEU:HB3	2.31	0.65
1:x:114:GLU:HG3	1:x:119:HIS:HB2	1.79	0.65
1:2:114:GLU:HG3	1:2:119:HIS:HB2	1.79	0.65
1:B:114:GLU:HG3	1:B:119:HIS:HB2	1.79	0.65
1:B:461:PRO:HA	1:B:466:GLU:HG3	1.78	0.65
1:I:461:PRO:HA	1:I:466:GLU:HG3	1.78	0.65
1:M:114:GLU:HG3	1:M:119:HIS:HB2	1.79	0.65
1:e:114:GLU:HG3	1:e:119:HIS:HB2	1.79	0.65
1:s:405:PHE:CE1	1:s:456:LEU:HB3	2.31	0.65
1:v:529:THR:HG21	1:y:236:ILE:HD12	1.77	0.65
1:O:114:GLU:HG3	1:O:119:HIS:HB2	1.79	0.65
1:F:405:PHE:CE1	1:F:456:LEU:HB3	2.31	0.65
1:H:236:ILE:HD12	1:P:529:THR:HG21	1.79	0.65
1:T:241:LEU:HD13	1:V:94:LYS:HA	1.77	0.65
1:X:114:GLU:HG3	1:X:119:HIS:HB2	1.79	0.65
1:C:405:PHE:CE1	1:C:456:LEU:HB3	2.31	0.65
1:S:405:PHE:CE1	1:S:456:LEU:HB3	2.31	0.65
1:b:461:PRO:HA	1:b:466:GLU:HG3	1.78	0.64
1:3:114:GLU:HG3	1:3:119:HIS:HB2	1.79	0.64
1:I:114:GLU:HG3	1:I:119:HIS:HB2	1.79	0.64
1:t:114:GLU:HG3	1:t:119:HIS:HB2	1.79	0.64
1:y:114:GLU:HG3	1:y:119:HIS:HB2	1.79	0.64
1:C:114:GLU:HG3	1:C:119:HIS:HB2	1.79	0.64
1:S:114:GLU:HG3	1:S:119:HIS:HB2	1.79	0.64
1:f:114:GLU:HG3	1:f:119:HIS:HB2	1.79	0.64
1:l:405:PHE:CE1	1:l:456:LEU:HB3	2.31	0.64
1:4:236:ILE:HD12	1:6:529:THR:HG21	1.79	0.64
1:5:114:GLU:HG3	1:5:119:HIS:HB2	1.79	0.64
1:i:114:GLU:HG3	1:i:119:HIS:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:461:PRO:HA	1:p:466:GLU:HG3	1.78	0.64
1:u:236:ILE:HD12	1:y:529:THR:HG21	1.78	0.64
1:W:405:PHE:CE1	1:W:456:LEU:HB3	2.31	0.64
1:Y:461:PRO:HA	1:Y:466:GLU:HG3	1.78	0.64
1:z:114:GLU:HG3	1:z:119:HIS:HB2	1.79	0.64
1:E:114:GLU:HG3	1:E:119:HIS:HB2	1.79	0.64
1:T:114:GLU:HG3	1:T:119:HIS:HB2	1.79	0.64
1:G:94:LYS:HA	1:N:241:LEU:HD13	1.80	0.64
1:V:114:GLU:HG3	1:V:119:HIS:HB2	1.79	0.64
1:I:207:LYS:HE2	1:T:209:GLN:OE1	1.98	0.64
1:e:236:ILE:HD12	1:i:529:THR:HG21	1.78	0.64
1:o:114:GLU:HG3	1:o:119:HIS:HB2	1.79	0.64
1:2:236:ILE:HD12	1:z:529:THR:HG21	1.79	0.64
1:G:236:ILE:HD12	1:Q:529:THR:HG21	1.78	0.64
1:P:405:PHE:CE1	1:P:456:LEU:HB3	2.31	0.64
1:0:114:GLU:HG3	1:0:119:HIS:HB2	1.79	0.64
1:p:114:GLU:HG3	1:p:119:HIS:HB2	1.79	0.64
1:v:114:GLU:HG3	1:v:119:HIS:HB2	1.79	0.64
1:Q:114:GLU:HG3	1:Q:119:HIS:HB2	1.79	0.64
1:T:236:ILE:HD12	1:V:529:THR:HG21	1.79	0.64
1:a:114:GLU:HG3	1:a:119:HIS:HB2	1.79	0.64
1:R:236:ILE:HD12	1:W:529:THR:HG21	1.79	0.64
1:K:207:LYS:HZ1	1:1:209:GLN:CD	2.05	0.64
1:t:236:ILE:HD12	1:F:529:THR:HG21	1.79	0.64
1:Z:114:GLU:HG3	1:Z:119:HIS:HB2	1.79	0.64
1:6:233:ASN:HB3	1:6:236:ILE:O	1.99	0.64
1:h:114:GLU:HG3	1:h:119:HIS:HB2	1.79	0.64
1:j:236:ILE:HD12	1:n:529:THR:HG21	1.78	0.64
1:k:114:GLU:HG3	1:k:119:HIS:HB2	1.79	0.64
1:m:114:GLU:HG3	1:m:119:HIS:HB2	1.79	0.64
1:u:94:LYS:HA	1:w:241:LEU:HD13	1.80	0.64
1:z:233:ASN:HB3	1:z:236:ILE:O	1.98	0.64
1:P:114:GLU:HG3	1:P:119:HIS:HB2	1.79	0.64
1:X:236:ILE:HD12	1:S:529:THR:HG21	1.78	0.64
1:l:114:GLU:HG3	1:l:119:HIS:HB2	1.79	0.63
1:n:207:LYS:NZ	1:A:209:GLN:CD	2.54	0.63
1:u:233:ASN:HB3	1:u:236:ILE:O	1.99	0.63
1:v:236:ILE:HD12	1:x:529:THR:HG21	1.79	0.63
1:1:236:ILE:HD12	1:A:529:THR:HG21	1.78	0.63
1:D:114:GLU:HG3	1:D:119:HIS:HB2	1.79	0.63
1:H:114:GLU:HG3	1:H:119:HIS:HB2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:233:ASN:HB3	1:Z:236:ILE:O	1.98	0.63
1:a:233:ASN:HB3	1:a:236:ILE:O	1.99	0.63
1:K:233:ASN:HB3	1:K:236:ILE:O	1.99	0.63
1:1:114:GLU:HG3	1:1:119:HIS:HB2	1.79	0.63
1:A:233:ASN:HB3	1:A:236:ILE:O	1.99	0.63
1:V:233:ASN:HB3	1:V:236:ILE:O	1.99	0.63
1:X:233:ASN:HB3	1:X:236:ILE:O	1.98	0.63
1:g:529:THR:HG21	1:h:236:ILE:HD12	1.81	0.63
1:k:233:ASN:HB3	1:k:236:ILE:O	1.99	0.63
1:p:233:ASN:HB3	1:p:236:ILE:O	1.99	0.63
1:v:233:ASN:HB3	1:v:236:ILE:O	1.99	0.63
1:x:233:ASN:HB3	1:x:236:ILE:O	1.98	0.63
1:A:114:GLU:HG3	1:A:119:HIS:HB2	1.79	0.63
1:B:233:ASN:HB3	1:B:236:ILE:O	1.99	0.63
1:D:233:ASN:HB3	1:D:236:ILE:O	1.99	0.63
1:Q:233:ASN:HB3	1:Q:236:ILE:O	1.99	0.63
1:0:233:ASN:HB3	1:0:236:ILE:O	1.98	0.63
1:c:233:ASN:HB3	1:c:236:ILE:O	1.99	0.63
1:5:529:THR:HG21	1:6:236:ILE:HD12	1.81	0.63
1:M:233:ASN:HB3	1:M:236:ILE:O	1.98	0.63
1:f:233:ASN:HB3	1:f:236:ILE:O	1.99	0.63
1:j:233:ASN:HB3	1:j:236:ILE:O	1.99	0.63
1:o:233:ASN:HB3	1:o:236:ILE:O	1.98	0.63
1:q:233:ASN:HB3	1:q:236:ILE:O	1.98	0.63
1:Y:233:ASN:HB3	1:Y:236:ILE:O	1.99	0.63
1:3:233:ASN:HB3	1:3:236:ILE:O	1.99	0.63
1:7:233:ASN:HB3	1:7:236:ILE:O	1.99	0.63
1:I:233:ASN:HB3	1:I:236:ILE:O	1.98	0.63
1:r:233:ASN:HB3	1:r:236:ILE:O	1.99	0.63
1:t:233:ASN:HB3	1:t:236:ILE:O	1.99	0.63
1:O:233:ASN:HB3	1:O:236:ILE:O	1.99	0.63
1:N:233:ASN:HB3	1:N:236:ILE:O	1.99	0.63
1:h:233:ASN:HB3	1:h:236:ILE:O	1.99	0.63
1:r:114:GLU:HG3	1:r:119:HIS:HB2	1.79	0.63
1:u:114:GLU:HG3	1:u:119:HIS:HB2	1.79	0.63
1:T:233:ASN:HB3	1:T:236:ILE:O	1.99	0.63
1:U:114:GLU:HG3	1:U:119:HIS:HB2	1.79	0.63
1:b:233:ASN:HB3	1:b:236:ILE:O	1.99	0.63
1:5:55:TRP:O	1:x:204:THR:OG1	2.10	0.63
1:J:233:ASN:HB3	1:J:236:ILE:O	1.99	0.63
1:i:233:ASN:HB3	1:i:236:ILE:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:233:ASN:HB3	1:l:236:ILE:O	1.99	0.63
1:s:233:ASN:HB3	1:s:236:ILE:O	1.99	0.63
1:w:114:GLU:HG3	1:w:119:HIS:HB2	1.79	0.63
1:U:233:ASN:HB3	1:U:236:ILE:O	1.99	0.63
1:c:114:GLU:HG3	1:c:119:HIS:HB2	1.79	0.63
1:d:233:ASN:HB3	1:d:236:ILE:O	1.98	0.63
1:e:233:ASN:HB3	1:e:236:ILE:O	1.99	0.63
1:P:233:ASN:HB3	1:P:236:ILE:O	1.99	0.63
1:d:204:THR:OG1	1:7:55:TRP:O	2.14	0.63
1:3:94:LYS:HA	1:5:241:LEU:HD13	1.80	0.63
1:5:233:ASN:HB3	1:5:236:ILE:O	1.99	0.63
1:j:94:LYS:HA	1:l:241:LEU:HD13	1.80	0.63
1:1:94:LYS:HA	1:O:241:LEU:HD13	1.80	0.63
1:b:529:THR:HG21	1:c:236:ILE:HD12	1.81	0.62
1:q:529:THR:HG21	1:r:236:ILE:HD12	1.81	0.62
1:t:333:ASN:HB3	1:t:336:HIS:HB2	1.82	0.62
1:W:233:ASN:HB3	1:W:236:ILE:O	1.98	0.62
1:X:333:ASN:HB3	1:X:336:HIS:HB2	1.81	0.62
1:Y:94:LYS:HA	1:S:241:LEU:HD13	1.81	0.62
1:t:94:LYS:HA	1:D:241:LEU:HD13	1.80	0.62
1:B:94:LYS:HA	1:F:241:LEU:HD13	1.81	0.62
1:X:94:LYS:HA	1:Z:241:LEU:HD13	1.80	0.62
1:Z:333:ASN:HB3	1:Z:336:HIS:HB2	1.82	0.62
1:a:94:LYS:HA	1:d:241:LEU:HD13	1.81	0.62
1:L:233:ASN:HB3	1:L:236:ILE:O	1.99	0.62
1:h:204:THR:HG21	1:j:57:PRO:HB3	1.82	0.62
1:s:114:GLU:HG3	1:s:119:HIS:HB2	1.79	0.62
1:2:233:ASN:HB3	1:2:236:ILE:O	1.99	0.62
1:D:333:ASN:HB3	1:D:336:HIS:HB2	1.82	0.62
1:H:333:ASN:HB3	1:H:336:HIS:HB2	1.81	0.62
1:U:529:THR:HG21	1:V:236:ILE:HD12	1.81	0.62
1:C:333:ASN:HB3	1:C:336:HIS:HB2	1.81	0.62
1:a:333:ASN:HB3	1:a:336:HIS:HB2	1.82	0.62
1:d:114:GLU:HG3	1:d:119:HIS:HB2	1.79	0.62
1:K:94:LYS:HA	1:L:241:LEU:HD13	1.82	0.62
1:e:94:LYS:HA	1:g:241:LEU:HD13	1.80	0.62
1:p:333:ASN:HB3	1:p:336:HIS:HB2	1.82	0.62
1:y:233:ASN:HB3	1:y:236:ILE:O	1.99	0.62
1:1:233:ASN:HB3	1:1:236:ILE:O	1.98	0.62
1:R:333:ASN:HB3	1:R:336:HIS:HB2	1.82	0.62
1:S:409:LYS:HA	1:S:409:LYS:HE3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:333:ASN:HB3	1:g:336:HIS:HB2	1.82	0.62
1:i:409:LYS:HA	1:i:409:LYS:HE3	1.82	0.62
1:k:333:ASN:HB3	1:k:336:HIS:HB2	1.82	0.62
1:l:529:THR:HG21	1:m:236:ILE:HD12	1.81	0.62
1:m:333:ASN:HB3	1:m:336:HIS:HB2	1.81	0.62
1:v:94:LYS:HA	1:y:241:LEU:HD13	1.81	0.62
1:w:233:ASN:HB3	1:w:236:ILE:O	1.99	0.62
1:O:333:ASN:HB3	1:O:336:HIS:HB2	1.82	0.62
1:z:333:ASN:HB3	1:z:336:HIS:HB2	1.81	0.62
1:E:333:ASN:HB3	1:E:336:HIS:HB2	1.82	0.62
1:F:233:ASN:HB3	1:F:236:ILE:O	1.99	0.62
1:F:333:ASN:HB3	1:F:336:HIS:HB2	1.82	0.62
1:H:233:ASN:HB3	1:H:236:ILE:O	1.99	0.62
1:P:204:THR:HG21	1:R:57:PRO:HB3	1.82	0.62
1:Q:333:ASN:HB3	1:Q:336:HIS:HB2	1.82	0.62
1:T:409:LYS:HA	1:T:409:LYS:HE3	1.82	0.62
1:S:233:ASN:HB3	1:S:236:ILE:O	1.99	0.62
1:J:94:LYS:HA	1:M:241:LEU:HD13	1.81	0.62
1:g:233:ASN:HB3	1:g:236:ILE:O	1.99	0.62
1:h:333:ASN:HB3	1:h:336:HIS:HB2	1.82	0.62
1:j:333:ASN:HB3	1:j:336:HIS:HB2	1.81	0.62
1:m:233:ASN:HB3	1:m:236:ILE:O	1.99	0.62
1:p:94:LYS:HA	1:s:241:LEU:HD13	1.81	0.62
1:v:333:ASN:HB3	1:v:336:HIS:HB2	1.81	0.62
1:x:333:ASN:HB3	1:x:336:HIS:HB2	1.82	0.62
1:R:233:ASN:HB3	1:R:236:ILE:O	1.99	0.62
1:U:333:ASN:HB3	1:U:336:HIS:HB2	1.82	0.62
1:S:333:ASN:HB3	1:S:336:HIS:HB2	1.82	0.62
1:4:233:ASN:HB3	1:4:236:ILE:O	1.99	0.62
1:I:94:LYS:HA	1:K:241:LEU:HD13	1.80	0.62
1:K:409:LYS:HA	1:K:409:LYS:HE3	1.82	0.62
1:w:94:LYS:HA	1:x:241:LEU:HD13	1.82	0.62
1:C:233:ASN:HB3	1:C:236:ILE:O	1.99	0.62
1:6:409:LYS:HA	1:6:409:LYS:HE3	1.82	0.62
1:E:233:ASN:HB3	1:E:236:ILE:O	1.99	0.62
1:F:409:LYS:HA	1:F:409:LYS:HE3	1.82	0.62
1:N:94:LYS:HA	1:P:241:LEU:HD13	1.82	0.62
1:R:94:LYS:HA	1:U:241:LEU:HD13	1.80	0.62
1:4:409:LYS:HE3	1:4:409:LYS:HA	1.82	0.62
1:g:57:PRO:HB3	1:l:204:THR:HG21	1.81	0.62
1:n:151:VAL:HG12	1:n:226:THR:HG22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:409:LYS:HA	1:n:409:LYS:HE3	1.82	0.62
1:o:151:VAL:HG12	1:o:226:THR:HG22	1.82	0.62
1:v:409:LYS:HA	1:v:409:LYS:HE3	1.82	0.62
1:2:55:TRP:O	1:S:204:THR:OG1	2.11	0.62
1:2:94:LYS:HA	1:A:241:LEU:HD13	1.81	0.62
1:z:409:LYS:HE3	1:z:409:LYS:HA	1.82	0.62
1:N:333:ASN:HB3	1:N:336:HIS:HB2	1.82	0.62
1:0:94:LYS:HA	1:b:241:LEU:HD13	1.80	0.62
1:0:151:VAL:HG12	1:0:226:THR:HG22	1.82	0.62
1:M:409:LYS:HA	1:M:409:LYS:HE3	1.82	0.62
1:i:151:VAL:HG12	1:i:226:THR:HG22	1.82	0.62
1:i:333:ASN:HB3	1:i:336:HIS:HB2	1.82	0.62
1:r:333:ASN:HB3	1:r:336:HIS:HB2	1.81	0.62
1:u:409:LYS:HA	1:u:409:LYS:HE3	1.82	0.62
1:O:529:THR:HG21	1:z:236:ILE:HD12	1.81	0.62
1:D:409:LYS:HE3	1:D:409:LYS:HA	1.82	0.62
1:D:529:THR:HG21	1:E:236:ILE:HD12	1.80	0.62
1:G:151:VAL:HG12	1:G:226:THR:HG22	1.82	0.62
1:G:409:LYS:HA	1:G:409:LYS:HE3	1.82	0.62
1:R:529:THR:HG21	1:U:236:ILE:HD12	1.82	0.62
1:0:409:LYS:HA	1:0:409:LYS:HE3	1.82	0.61
1:4:94:LYS:HA	1:7:241:LEU:HD13	1.81	0.61
1:L:409:LYS:HE3	1:L:409:LYS:HA	1.82	0.61
1:q:409:LYS:HA	1:q:409:LYS:HE3	1.82	0.61
1:A:409:LYS:HA	1:A:409:LYS:HE3	1.82	0.61
1:D:151:VAL:HG12	1:D:226:THR:HG22	1.82	0.61
1:G:233:ASN:HB3	1:G:236:ILE:O	1.99	0.61
1:N:529:THR:HG21	1:P:236:ILE:HD12	1.81	0.61
1:T:151:VAL:HG12	1:T:226:THR:HG22	1.82	0.61
1:Z:409:LYS:HA	1:Z:409:LYS:HE3	1.82	0.61
1:b:409:LYS:HA	1:b:409:LYS:HE3	1.82	0.61
1:c:333:ASN:HB3	1:c:336:HIS:HB2	1.82	0.61
1:3:409:LYS:HA	1:3:409:LYS:HE3	1.82	0.61
1:I:529:THR:HG21	1:K:236:ILE:HD12	1.82	0.61
1:n:233:ASN:HB3	1:n:236:ILE:O	1.98	0.61
1:o:94:LYS:HA	1:q:241:LEU:HD13	1.80	0.61
1:o:409:LYS:HE3	1:o:409:LYS:HA	1.82	0.61
1:q:94:LYS:HA	1:r:241:LEU:HD13	1.82	0.61
1:r:409:LYS:HE3	1:r:409:LYS:HA	1.82	0.61
1:w:409:LYS:HA	1:w:409:LYS:HE3	1.82	0.61
1:x:409:LYS:HA	1:x:409:LYS:HE3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:151:VAL:HG12	1:N:226:THR:HG22	1.82	0.61
1:Z:151:VAL:HG12	1:Z:226:THR:HG22	1.83	0.61
1:Z:529:THR:HG21	1:C:236:ILE:HD12	1.81	0.61
1:O:529:THR:HG21	1:b:236:ILE:HD12	1.82	0.61
1:b:94:LYS:HA	1:c:241:LEU:HD13	1.82	0.61
1:c:409:LYS:HA	1:c:409:LYS:HE3	1.82	0.61
1:5:409:LYS:HA	1:5:409:LYS:HE3	1.82	0.61
1:j:151:VAL:HG12	1:j:226:THR:HG22	1.82	0.61
1:o:529:THR:HG21	1:q:236:ILE:HD12	1.82	0.61
1:s:409:LYS:HA	1:s:409:LYS:HE3	1.82	0.61
1:t:529:THR:HG21	1:D:236:ILE:HD12	1.82	0.61
1:w:529:THR:HG21	1:x:236:ILE:HD12	1.81	0.61
1:1:409:LYS:HA	1:1:409:LYS:HE3	1.82	0.61
1:2:409:LYS:HA	1:2:409:LYS:HE3	1.82	0.61
1:O:151:VAL:HG12	1:O:226:THR:HG22	1.82	0.61
1:B:333:ASN:HB3	1:B:336:HIS:HB2	1.82	0.61
1:X:529:THR:HG21	1:Z:236:ILE:HD12	1.82	0.61
1:d:409:LYS:HA	1:d:409:LYS:HE3	1.82	0.61
1:K:529:THR:HG21	1:L:236:ILE:HD12	1.81	0.61
1:n:333:ASN:HB3	1:n:336:HIS:HB2	1.81	0.61
1:t:151:VAL:HG12	1:t:226:THR:HG22	1.82	0.61
1:t:409:LYS:HA	1:t:409:LYS:HE3	1.82	0.61
1:u:333:ASN:HB3	1:u:336:HIS:HB2	1.82	0.61
1:w:151:VAL:HG12	1:w:226:THR:HG22	1.82	0.61
1:x:151:VAL:HG12	1:x:226:THR:HG22	1.82	0.61
1:y:151:VAL:HG12	1:y:226:THR:HG22	1.82	0.61
1:y:333:ASN:HB3	1:y:336:HIS:HB2	1.82	0.61
1:y:409:LYS:HA	1:y:409:LYS:HE3	1.82	0.61
1:T:333:ASN:HB3	1:T:336:HIS:HB2	1.82	0.61
1:W:151:VAL:HG12	1:W:226:THR:HG22	1.82	0.61
1:X:151:VAL:HG12	1:X:226:THR:HG22	1.82	0.61
1:X:409:LYS:HA	1:X:409:LYS:HE3	1.82	0.61
1:O:333:ASN:HB3	1:O:336:HIS:HB2	1.82	0.61
1:J:151:VAL:HG12	1:J:226:THR:HG22	1.82	0.61
1:L:151:VAL:HG12	1:L:226:THR:HG22	1.82	0.61
1:g:151:VAL:HG12	1:g:226:THR:HG22	1.82	0.61
1:k:94:LYS:HA	1:n:241:LEU:HD13	1.81	0.61
1:o:333:ASN:HB3	1:o:336:HIS:HB2	1.82	0.61
1:1:333:ASN:HB3	1:1:336:HIS:HB2	1.82	0.61
1:2:333:ASN:HB3	1:2:336:HIS:HB2	1.82	0.61
1:O:409:LYS:HE3	1:O:409:LYS:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:151:VAL:HG12	1:z:226:THR:HG22	1.82	0.61
1:A:333:ASN:HB3	1:A:336:HIS:HB2	1.82	0.61
1:N:57:PRO:HB3	1:U:204:THR:HG21	1.81	0.61
1:R:151:VAL:HG12	1:R:226:THR:HG22	1.82	0.61
1:Y:151:VAL:HG12	1:Y:226:THR:HG22	1.82	0.61
1:Y:333:ASN:HB3	1:Y:336:HIS:HB2	1.82	0.61
1:3:529:THR:HG21	1:5:236:ILE:HD12	1.82	0.61
1:4:151:VAL:HG12	1:4:226:THR:HG22	1.82	0.61
1:I:409:LYS:HA	1:I:409:LYS:HE3	1.82	0.61
1:e:151:VAL:HG12	1:e:226:THR:HG22	1.82	0.61
1:v:151:VAL:HG12	1:v:226:THR:HG22	1.83	0.61
1:w:333:ASN:HB3	1:w:336:HIS:HB2	1.82	0.61
1:2:151:VAL:HG12	1:2:226:THR:HG22	1.82	0.61
1:B:151:VAL:HG12	1:B:226:THR:HG22	1.82	0.61
1:G:333:ASN:HB3	1:G:336:HIS:HB2	1.82	0.61
1:T:94:LYS:HA	1:W:241:LEU:HD13	1.81	0.61
1:U:409:LYS:HA	1:U:409:LYS:HE3	1.82	0.61
1:V:333:ASN:HB3	1:V:336:HIS:HB2	1.81	0.61
1:b:333:ASN:HB3	1:b:336:HIS:HB2	1.82	0.61
1:d:333:ASN:HB3	1:d:336:HIS:HB2	1.82	0.61
1:7:151:VAL:HG12	1:7:226:THR:HG22	1.82	0.61
1:f:333:ASN:HB3	1:f:336:HIS:HB2	1.81	0.61
1:k:409:LYS:HA	1:k:409:LYS:HE3	1.82	0.61
1:q:333:ASN:HB3	1:q:336:HIS:HB2	1.82	0.61
1:s:333:ASN:HB3	1:s:336:HIS:HB2	1.82	0.61
1:1:151:VAL:HG12	1:1:226:THR:HG22	1.82	0.61
1:O:94:LYS:HA	1:z:241:LEU:HD13	1.82	0.61
1:H:409:LYS:HA	1:H:409:LYS:HE3	1.82	0.61
1:W:333:ASN:HB3	1:W:336:HIS:HB2	1.82	0.61
1:C:151:VAL:HG12	1:C:226:THR:HG22	1.82	0.61
1:7:409:LYS:HA	1:7:409:LYS:HE3	1.82	0.61
1:Q:409:LYS:HA	1:Q:409:LYS:HE3	1.82	0.61
1:U:94:LYS:HA	1:V:241:LEU:HD13	1.82	0.61
1:U:151:VAL:HG12	1:U:226:THR:HG22	1.82	0.61
1:Z:94:LYS:HA	1:C:241:LEU:HD13	1.82	0.61
1:L:333:ASN:HB3	1:L:336:HIS:HB2	1.82	0.61
1:M:333:ASN:HB3	1:M:336:HIS:HB2	1.81	0.61
1:m:409:LYS:HA	1:m:409:LYS:HE3	1.82	0.61
1:E:151:VAL:HG12	1:E:226:THR:HG22	1.82	0.61
1:J:409:LYS:HA	1:J:409:LYS:HE3	1.82	0.61
1:f:409:LYS:HA	1:f:409:LYS:HE3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:151:VAL:HG12	1:h:226:THR:HG22	1.82	0.61
1:E:55:TRP:O	1:N:204:THR:OG1	2.15	0.61
1:c:151:VAL:HG12	1:c:226:THR:HG22	1.82	0.60
1:4:333:ASN:HB3	1:4:336:HIS:HB2	1.81	0.60
1:e:333:ASN:HB3	1:e:336:HIS:HB2	1.82	0.60
1:t:204:THR:OG1	1:S:55:TRP:O	2.02	0.60
1:D:94:LYS:HA	1:E:241:LEU:HD13	1.82	0.60
1:G:529:THR:HG21	1:N:236:ILE:HD12	1.82	0.60
1:P:333:ASN:HB3	1:P:336:HIS:HB2	1.82	0.60
1:Y:409:LYS:HA	1:Y:409:LYS:HE3	1.82	0.60
1:a:151:VAL:HG12	1:a:226:THR:HG22	1.82	0.60
1:b:151:VAL:HG12	1:b:226:THR:HG22	1.82	0.60
1:3:333:ASN:HB3	1:3:336:HIS:HB2	1.82	0.60
1:M:151:VAL:HG12	1:M:226:THR:HG22	1.82	0.60
1:h:409:LYS:HA	1:h:409:LYS:HE3	1.82	0.60
1:k:151:VAL:HG12	1:k:226:THR:HG22	1.82	0.60
1:l:94:LYS:HA	1:m:241:LEU:HD13	1.82	0.60
1:l:333:ASN:HB3	1:l:336:HIS:HB2	1.82	0.60
1:p:151:VAL:HG12	1:p:226:THR:HG22	1.82	0.60
1:V:409:LYS:HA	1:V:409:LYS:HE3	1.82	0.60
1:W:409:LYS:HE3	1:W:409:LYS:HA	1.82	0.60
1:7:333:ASN:HB3	1:7:336:HIS:HB2	1.82	0.60
1:I:151:VAL:HG12	1:I:226:THR:HG22	1.82	0.60
1:J:333:ASN:HB3	1:J:336:HIS:HB2	1.82	0.60
1:p:409:LYS:HA	1:p:409:LYS:HE3	1.82	0.60
1:q:151:VAL:HG12	1:q:226:THR:HG22	1.83	0.60
1:r:151:VAL:HG12	1:r:226:THR:HG22	1.83	0.60
1:K:333:ASN:HB3	1:K:336:HIS:HB2	1.82	0.60
1:Q:151:VAL:HG12	1:Q:226:THR:HG22	1.82	0.60
1:a:409:LYS:HA	1:a:409:LYS:HE3	1.82	0.60
1:3:151:VAL:HG12	1:3:226:THR:HG22	1.83	0.60
1:5:151:VAL:HG12	1:5:226:THR:HG22	1.82	0.60
1:B:409:LYS:HA	1:B:409:LYS:HE3	1.82	0.60
1:F:55:TRP:O	1:X:204:THR:OG1	2.09	0.60
1:P:151:VAL:HG12	1:P:226:THR:HG22	1.82	0.60
1:R:409:LYS:HA	1:R:409:LYS:HE3	1.82	0.60
1:6:333:ASN:HB3	1:6:336:HIS:HB2	1.82	0.60
1:f:94:LYS:HA	1:i:241:LEU:HD13	1.81	0.60
1:l:151:VAL:HG12	1:l:226:THR:HG22	1.82	0.60
1:u:529:THR:HG21	1:w:236:ILE:HD12	1.82	0.60
1:1:529:THR:HG21	1:O:236:ILE:HD12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:VAL:HG12	1:A:226:THR:HG22	1.82	0.60
1:d:151:VAL:HG12	1:d:226:THR:HG22	1.82	0.60
1:5:333:ASN:HB3	1:5:336:HIS:HB2	1.82	0.60
1:I:333:ASN:HB3	1:I:336:HIS:HB2	1.82	0.60
1:g:94:LYS:HA	1:h:241:LEU:HD13	1.82	0.60
1:u:151:VAL:HG12	1:u:226:THR:HG22	1.82	0.60
1:E:409:LYS:HA	1:E:409:LYS:HE3	1.82	0.60
1:V:151:VAL:HG12	1:V:226:THR:HG22	1.82	0.60
1:C:409:LYS:HA	1:C:409:LYS:HE3	1.82	0.60
1:e:409:LYS:HA	1:e:409:LYS:HE3	1.82	0.60
1:f:151:VAL:HG12	1:f:226:THR:HG22	1.83	0.60
1:h:456:LEU:HD23	1:h:504:TYR:CE1	2.37	0.60
1:j:207:LYS:NZ	1:C:209:GLN:HE22	1.98	0.60
1:j:529:THR:HG21	1:l:236:ILE:HD12	1.82	0.60
1:U:456:LEU:HD23	1:U:504:TYR:CE1	2.37	0.60
1:S:456:LEU:HD23	1:S:504:TYR:CE1	2.37	0.60
1:5:94:LYS:HA	1:6:241:LEU:HD13	1.82	0.60
1:M:456:LEU:HD23	1:M:504:TYR:CE1	2.37	0.60
1:f:456:LEU:HD23	1:f:504:TYR:CE1	2.37	0.60
1:g:409:LYS:HE3	1:g:409:LYS:HA	1.82	0.60
1:j:409:LYS:HE3	1:j:409:LYS:HA	1.82	0.60
1:F:456:LEU:HD23	1:F:504:TYR:CE1	2.37	0.60
1:H:151:VAL:HG12	1:H:226:THR:HG22	1.82	0.60
1:P:456:LEU:HD23	1:P:504:TYR:CE1	2.37	0.60
1:V:456:LEU:HD23	1:V:504:TYR:CE1	2.37	0.60
1:3:456:LEU:HD23	1:3:504:TYR:CE1	2.37	0.60
1:l:409:LYS:HA	1:l:409:LYS:HE3	1.82	0.60
1:l:456:LEU:HD23	1:l:504:TYR:CE1	2.37	0.60
1:s:151:VAL:HG12	1:s:226:THR:HG22	1.82	0.60
1:D:456:LEU:HD23	1:D:504:TYR:CE1	2.37	0.60
1:Z:456:LEU:HD23	1:Z:504:TYR:CE1	2.37	0.60
1:6:151:VAL:HG12	1:6:226:THR:HG22	1.82	0.59
1:k:456:LEU:HD23	1:k:504:TYR:CE1	2.37	0.59
1:m:151:VAL:HG12	1:m:226:THR:HG22	1.82	0.59
1:H:94:LYS:HA	1:Q:241:LEU:HD13	1.81	0.59
1:P:409:LYS:HA	1:P:409:LYS:HE3	1.82	0.59
1:Q:456:LEU:HD23	1:Q:504:TYR:CE1	2.37	0.59
1:R:456:LEU:HD23	1:R:504:TYR:CE1	2.37	0.59
1:4:456:LEU:HD23	1:4:504:TYR:CE1	2.37	0.59
1:g:456:LEU:HD23	1:g:504:TYR:CE1	2.37	0.59
1:p:456:LEU:HD23	1:p:504:TYR:CE1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:409:LYS:HA	1:N:409:LYS:HE3	1.82	0.59
1:a:456:LEU:HD23	1:a:504:TYR:CE1	2.37	0.59
1:I:456:LEU:HD23	1:I:504:TYR:CE1	2.37	0.59
1:e:529:THR:HG21	1:g:236:ILE:HD12	1.82	0.59
1:F:151:VAL:HG12	1:F:226:THR:HG22	1.82	0.59
1:L:456:LEU:HD23	1:L:504:TYR:CE1	2.37	0.59
1:n:456:LEU:HD23	1:n:504:TYR:CE1	2.37	0.59
1:G:456:LEU:HD23	1:G:504:TYR:CE1	2.37	0.59
1:X:456:LEU:HD23	1:X:504:TYR:CE1	2.37	0.59
1:c:456:LEU:HD23	1:c:504:TYR:CE1	2.37	0.59
1:5:456:LEU:HD23	1:5:504:TYR:CE1	2.37	0.59
1:r:456:LEU:HD23	1:r:504:TYR:CE1	2.37	0.59
1:0:456:LEU:HD23	1:0:504:TYR:CE1	2.37	0.59
1:K:151:VAL:HG12	1:K:226:THR:HG22	1.82	0.59
1:j:456:LEU:HD23	1:j:504:TYR:HE1	1.68	0.59
1:m:456:LEU:HD23	1:m:504:TYR:CE1	2.37	0.59
1:o:456:LEU:HD23	1:o:504:TYR:CE1	2.37	0.59
1:t:456:LEU:HD23	1:t:504:TYR:CE1	2.37	0.59
1:B:456:LEU:HD23	1:B:504:TYR:CE1	2.37	0.59
1:S:151:VAL:HG12	1:S:226:THR:HG22	1.82	0.59
1:b:357:GLU:HA	1:b:360:TYR:CE2	2.38	0.59
1:b:456:LEU:HD23	1:b:504:TYR:CE1	2.37	0.59
1:d:357:GLU:HA	1:d:360:TYR:CE2	2.38	0.59
1:6:456:LEU:HD23	1:6:504:TYR:HE1	1.68	0.59
1:K:250:LEU:HD12	1:K:471:ILE:HG21	1.85	0.59
1:j:241:LEU:HD13	1:n:94:LYS:HA	1.85	0.59
1:l:456:LEU:HD23	1:l:504:TYR:HE1	1.68	0.59
1:o:456:LEU:HD23	1:o:504:TYR:HE1	1.68	0.59
1:q:456:LEU:HD23	1:q:504:TYR:CE1	2.37	0.59
1:y:456:LEU:HD23	1:y:504:TYR:CE1	2.37	0.59
1:1:250:LEU:HD12	1:1:471:ILE:HG21	1.85	0.59
1:H:456:LEU:HD23	1:H:504:TYR:CE1	2.37	0.59
1:N:456:LEU:HD23	1:N:504:TYR:HE1	1.68	0.59
1:P:456:LEU:HD23	1:P:504:TYR:HE1	1.68	0.59
1:U:357:GLU:HA	1:U:360:TYR:CE2	2.38	0.59
1:0:456:LEU:HD23	1:0:504:TYR:HE1	1.68	0.59
1:6:250:LEU:HD12	1:6:471:ILE:HG21	1.85	0.59
1:K:456:LEU:HD23	1:K:504:TYR:HE1	1.68	0.59
1:e:456:LEU:HD23	1:e:504:TYR:CE1	2.37	0.59
1:f:250:LEU:HD12	1:f:471:ILE:HG21	1.85	0.59
1:g:357:GLU:HA	1:g:360:TYR:CE2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:357:GLU:HA	1:j:360:TYR:CE2	2.38	0.59
1:q:357:GLU:HA	1:q:360:TYR:CE2	2.38	0.59
1:r:250:LEU:HD12	1:r:471:ILE:HG21	1.85	0.59
1:s:456:LEU:HD23	1:s:504:TYR:CE1	2.37	0.59
1:w:250:LEU:HD12	1:w:471:ILE:HG21	1.85	0.59
1:x:456:LEU:HD23	1:x:504:TYR:CE1	2.37	0.59
1:N:357:GLU:HA	1:N:360:TYR:CE2	2.38	0.59
1:a:456:LEU:HD23	1:a:504:TYR:HE1	1.68	0.59
1:c:250:LEU:HD12	1:c:471:ILE:HG21	1.85	0.59
1:d:456:LEU:HD23	1:d:504:TYR:CE1	2.37	0.59
1:L:357:GLU:HA	1:L:360:TYR:CE2	2.38	0.59
1:g:456:LEU:HD23	1:g:504:TYR:HE1	1.68	0.59
1:h:357:GLU:HA	1:h:360:TYR:CE2	2.38	0.59
1:m:456:LEU:HD23	1:m:504:TYR:HE1	1.68	0.59
1:p:456:LEU:HD23	1:p:504:TYR:HE1	1.68	0.59
1:s:357:GLU:HA	1:s:360:TYR:CE2	2.38	0.59
1:u:204:THR:OG1	1:B:55:TRP:O	2.19	0.59
1:x:357:GLU:HA	1:x:360:TYR:CE2	2.38	0.59
1:A:456:LEU:HD23	1:A:504:TYR:CE1	2.37	0.59
1:A:456:LEU:HD23	1:A:504:TYR:HE1	1.68	0.59
1:H:456:LEU:HD23	1:H:504:TYR:HE1	1.68	0.59
1:R:357:GLU:HA	1:R:360:TYR:CE2	2.38	0.59
1:T:456:LEU:HD23	1:T:504:TYR:HE1	1.68	0.59
1:Y:456:LEU:HD23	1:Y:504:TYR:CE1	2.37	0.59
1:I:250:LEU:HD12	1:I:471:ILE:HG21	1.85	0.59
1:i:456:LEU:HD23	1:i:504:TYR:CE1	2.37	0.59
1:i:456:LEU:HD23	1:i:504:TYR:HE1	1.68	0.59
1:v:456:LEU:HD23	1:v:504:TYR:HE1	1.68	0.59
1:y:456:LEU:HD23	1:y:504:TYR:HE1	1.68	0.59
1:2:456:LEU:HD23	1:2:504:TYR:CE1	2.37	0.59
1:O:357:GLU:HA	1:O:360:TYR:CE2	2.38	0.59
1:z:456:LEU:HD23	1:z:504:TYR:HE1	1.68	0.59
1:G:456:LEU:HD23	1:G:504:TYR:HE1	1.68	0.59
1:N:456:LEU:HD23	1:N:504:TYR:CE1	2.37	0.59
1:P:389:LEU:HD22	1:P:465:PRO:O	2.03	0.59
1:C:250:LEU:HD12	1:C:471:ILE:HG21	1.85	0.59
1:C:456:LEU:HD23	1:C:504:TYR:CE1	2.37	0.59
1:4:357:GLU:HA	1:4:360:TYR:CE2	2.38	0.58
1:4:456:LEU:HD23	1:4:504:TYR:HE1	1.68	0.58
1:J:357:GLU:HA	1:J:360:TYR:CE2	2.38	0.58
1:L:250:LEU:HD12	1:L:471:ILE:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:456:LEU:HD23	1:L:504:TYR:HE1	1.68	0.58
1:f:357:GLU:HA	1:f:360:TYR:CE2	2.38	0.58
1:j:456:LEU:HD23	1:j:504:TYR:CE1	2.37	0.58
1:l:357:GLU:HA	1:l:360:TYR:CE2	2.38	0.58
1:l:389:LEU:HD22	1:l:465:PRO:O	2.03	0.58
1:n:456:LEU:HD23	1:n:504:TYR:HE1	1.68	0.58
1:u:456:LEU:HD23	1:u:504:TYR:HE1	1.68	0.58
1:w:456:LEU:HD23	1:w:504:TYR:HE1	1.68	0.58
1:1:241:LEU:HD13	1:A:94:LYS:HA	1.85	0.58
1:1:357:GLU:HA	1:1:360:TYR:CE2	2.38	0.58
1:2:456:LEU:HD23	1:2:504:TYR:HE1	1.68	0.58
1:B:389:LEU:HD22	1:B:465:PRO:O	2.03	0.58
1:D:389:LEU:HD22	1:D:465:PRO:O	2.03	0.58
1:E:250:LEU:HD12	1:E:471:ILE:HG21	1.85	0.58
1:F:280:TYR:HD2	1:F:297:LEU:HD13	1.68	0.58
1:G:280:TYR:HD2	1:G:297:LEU:HD13	1.68	0.58
1:N:389:LEU:HD22	1:N:465:PRO:O	2.03	0.58
1:P:357:GLU:HA	1:P:360:TYR:CE2	2.38	0.58
1:V:250:LEU:HD12	1:V:471:ILE:HG21	1.85	0.58
1:W:456:LEU:HD23	1:W:504:TYR:CE1	2.37	0.58
1:Y:389:LEU:HD22	1:Y:465:PRO:O	2.03	0.58
1:5:250:LEU:HD12	1:5:471:ILE:HG21	1.85	0.58
1:J:456:LEU:HD23	1:J:504:TYR:CE1	2.37	0.58
1:e:250:LEU:HD12	1:e:471:ILE:HG21	1.85	0.58
1:m:250:LEU:HD12	1:m:471:ILE:HG21	1.85	0.58
1:n:280:TYR:HD2	1:n:297:LEU:HD13	1.69	0.58
1:u:250:LEU:HD12	1:u:471:ILE:HG21	1.85	0.58
1:w:456:LEU:HD23	1:w:504:TYR:CE1	2.37	0.58
1:y:389:LEU:HD22	1:y:465:PRO:O	2.03	0.58
1:1:456:LEU:HD23	1:1:504:TYR:HE1	1.68	0.58
1:2:357:GLU:HA	1:2:360:TYR:CE2	2.38	0.58
1:O:456:LEU:HD23	1:O:504:TYR:CE1	2.37	0.58
1:z:357:GLU:HA	1:z:360:TYR:CE2	2.38	0.58
1:A:250:LEU:HD12	1:A:471:ILE:HG21	1.85	0.58
1:B:357:GLU:HA	1:B:360:TYR:CE2	2.38	0.58
1:E:389:LEU:HD22	1:E:465:PRO:O	2.03	0.58
1:E:456:LEU:HD23	1:E:504:TYR:CE1	2.37	0.58
1:V:357:GLU:HA	1:V:360:TYR:CE2	2.38	0.58
1:W:250:LEU:HD12	1:W:471:ILE:HG21	1.85	0.58
1:Y:250:LEU:HD12	1:Y:471:ILE:HG21	1.85	0.58
1:C:357:GLU:HA	1:C:360:TYR:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:389:LEU:HD22	1:C:465:PRO:O	2.03	0.58
1:S:280:TYR:HD2	1:S:297:LEU:HD13	1.69	0.58
1:4:250:LEU:HD12	1:4:471:ILE:HG21	1.85	0.58
1:4:280:TYR:HD2	1:4:297:LEU:HD13	1.68	0.58
1:6:357:GLU:HA	1:6:360:TYR:CE2	2.38	0.58
1:7:456:LEU:HD23	1:7:504:TYR:CE1	2.37	0.58
1:e:389:LEU:HD22	1:e:465:PRO:O	2.03	0.58
1:e:456:LEU:HD23	1:e:504:TYR:HE1	1.68	0.58
1:h:204:THR:OG1	1:j:55:TRP:O	2.18	0.58
1:h:389:LEU:HD22	1:h:465:PRO:O	2.03	0.58
1:j:389:LEU:HD22	1:j:465:PRO:O	2.03	0.58
1:p:389:LEU:HD22	1:p:465:PRO:O	2.03	0.58
1:q:456:LEU:HD23	1:q:504:TYR:HE1	1.68	0.58
1:t:389:LEU:HD22	1:t:465:PRO:O	2.03	0.58
1:v:357:GLU:HA	1:v:360:TYR:CE2	2.38	0.58
1:w:280:TYR:HD2	1:w:297:LEU:HD13	1.68	0.58
1:x:250:LEU:HD12	1:x:471:ILE:HG21	1.85	0.58
1:z:389:LEU:HD22	1:z:465:PRO:O	2.03	0.58
1:D:456:LEU:HD23	1:D:504:TYR:HE1	1.68	0.58
1:E:357:GLU:HA	1:E:360:TYR:CE2	2.38	0.58
1:F:357:GLU:HA	1:F:360:TYR:CE2	2.38	0.58
1:H:280:TYR:HD2	1:H:297:LEU:HD13	1.68	0.58
1:R:456:LEU:HD23	1:R:504:TYR:HE1	1.68	0.58
1:W:389:LEU:HD22	1:W:465:PRO:O	2.03	0.58
1:X:389:LEU:HD22	1:X:465:PRO:O	2.04	0.58
1:Z:389:LEU:HD22	1:Z:465:PRO:O	2.04	0.58
1:O:389:LEU:HD22	1:O:465:PRO:O	2.03	0.58
1:a:389:LEU:HD22	1:a:465:PRO:O	2.03	0.58
1:d:389:LEU:HD22	1:d:465:PRO:O	2.03	0.58
1:3:357:GLU:HA	1:3:360:TYR:CE2	2.38	0.58
1:3:389:LEU:HD22	1:3:465:PRO:O	2.03	0.58
1:7:357:GLU:HA	1:7:360:TYR:CE2	2.38	0.58
1:L:280:TYR:HD2	1:L:297:LEU:HD13	1.68	0.58
1:f:456:LEU:HD23	1:f:504:TYR:HE1	1.68	0.58
1:i:389:LEU:HD22	1:i:465:PRO:O	2.03	0.58
1:k:456:LEU:HD23	1:k:504:TYR:HE1	1.68	0.58
1:n:250:LEU:HD12	1:n:471:ILE:HG21	1.85	0.58
1:r:357:GLU:HA	1:r:360:TYR:CE2	2.38	0.58
1:s:389:LEU:HD22	1:s:465:PRO:O	2.03	0.58
1:u:357:GLU:HA	1:u:360:TYR:CE2	2.38	0.58
1:w:357:GLU:HA	1:w:360:TYR:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:357:GLU:HA	1:y:360:TYR:CE2	2.38	0.58
1:1:280:TYR:HD2	1:1:297:LEU:HD13	1.68	0.58
1:1:456:LEU:HD23	1:1:504:TYR:CE1	2.37	0.58
1:2:389:LEU:HD22	1:2:465:PRO:O	2.03	0.58
1:G:250:LEU:HD12	1:G:471:ILE:HG21	1.85	0.58
1:G:357:GLU:HA	1:G:360:TYR:CE2	2.38	0.58
1:T:456:LEU:HD23	1:T:504:TYR:CE1	2.37	0.58
1:V:456:LEU:HD23	1:V:504:TYR:HE1	1.68	0.58
1:X:456:LEU:HD23	1:X:504:TYR:HE1	1.68	0.58
1:Y:357:GLU:HA	1:Y:360:TYR:CE2	2.38	0.58
1:Z:357:GLU:HA	1:Z:360:TYR:CE2	2.38	0.58
1:b:456:LEU:HD23	1:b:504:TYR:HE1	1.68	0.58
1:c:357:GLU:HA	1:c:360:TYR:CE2	2.38	0.58
1:5:357:GLU:HA	1:5:360:TYR:CE2	2.38	0.58
1:I:357:GLU:HA	1:I:360:TYR:CE2	2.38	0.58
1:J:280:TYR:HD2	1:J:297:LEU:HD13	1.68	0.58
1:K:357:GLU:HA	1:K:360:TYR:CE2	2.38	0.58
1:K:456:LEU:HD23	1:K:504:TYR:CE1	2.37	0.58
1:M:357:GLU:HA	1:M:360:TYR:CE2	2.38	0.58
1:e:280:TYR:HD2	1:e:297:LEU:HD13	1.68	0.58
1:e:357:GLU:HA	1:e:360:TYR:CE2	2.38	0.58
1:m:280:TYR:HD2	1:m:297:LEU:HD13	1.68	0.58
1:n:357:GLU:HA	1:n:360:TYR:CE2	2.38	0.58
1:o:389:LEU:HD22	1:o:465:PRO:O	2.03	0.58
1:u:241:LEU:HD13	1:y:94:LYS:HA	1.85	0.58
1:u:280:TYR:HD2	1:u:297:LEU:HD13	1.68	0.58
1:u:456:LEU:HD23	1:u:504:TYR:CE1	2.37	0.58
1:v:389:LEU:HD22	1:v:465:PRO:O	2.03	0.58
1:v:456:LEU:HD23	1:v:504:TYR:CE1	2.37	0.58
1:O:250:LEU:HD12	1:O:471:ILE:HG21	1.85	0.58
1:B:250:LEU:HD12	1:B:471:ILE:HG21	1.85	0.58
1:G:241:LEU:HD13	1:Q:94:LYS:HA	1.85	0.58
1:H:250:LEU:HD12	1:H:471:ILE:HG21	1.85	0.58
1:R:389:LEU:HD22	1:R:465:PRO:O	2.03	0.58
1:C:280:TYR:HD2	1:C:297:LEU:HD13	1.68	0.58
1:3:241:LEU:HD13	1:7:94:LYS:HA	1.85	0.58
1:7:280:TYR:HD2	1:7:297:LEU:HD13	1.69	0.58
1:I:280:TYR:HD2	1:I:297:LEU:HD13	1.68	0.58
1:M:389:LEU:HD22	1:M:465:PRO:O	2.03	0.58
1:o:241:LEU:HD13	1:s:94:LYS:HA	1.85	0.58
1:o:357:GLU:HA	1:o:360:TYR:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:280:TYR:HD2	1:q:297:LEU:HD13	1.68	0.58
1:t:456:LEU:HD23	1:t:504:TYR:HE1	1.68	0.58
1:z:456:LEU:HD23	1:z:504:TYR:CE1	2.37	0.58
1:D:357:GLU:HA	1:D:360:TYR:CE2	2.38	0.58
1:H:389:LEU:HD22	1:H:465:PRO:O	2.03	0.58
1:Q:456:LEU:HD23	1:Q:504:TYR:HE1	1.68	0.58
1:T:389:LEU:HD22	1:T:465:PRO:O	2.03	0.58
1:W:280:TYR:HD2	1:W:297:LEU:HD13	1.68	0.58
1:W:456:LEU:HD23	1:W:504:TYR:HE1	1.68	0.58
1:S:357:GLU:HA	1:S:360:TYR:CE2	2.38	0.58
1:O:241:LEU:HD13	1:d:94:LYS:HA	1.85	0.58
1:b:280:TYR:HD2	1:b:297:LEU:HD13	1.68	0.58
1:c:389:LEU:HD22	1:c:465:PRO:O	2.03	0.58
1:c:456:LEU:HD23	1:c:504:TYR:HE1	1.68	0.58
1:5:280:TYR:HD2	1:5:297:LEU:HD13	1.68	0.58
1:6:456:LEU:HD23	1:6:504:TYR:CE1	2.37	0.58
1:m:389:LEU:HD22	1:m:465:PRO:O	2.03	0.58
1:t:280:TYR:HD2	1:t:297:LEU:HD13	1.68	0.58
1:A:357:GLU:HA	1:A:360:TYR:CE2	2.38	0.58
1:B:456:LEU:HD23	1:B:504:TYR:HE1	1.68	0.58
1:E:280:TYR:HD2	1:E:297:LEU:HD13	1.68	0.58
1:U:389:LEU:HD22	1:U:465:PRO:O	2.03	0.58
1:V:280:TYR:HD2	1:V:297:LEU:HD13	1.68	0.58
1:X:357:GLU:HA	1:X:360:TYR:CE2	2.38	0.58
1:C:456:LEU:HD23	1:C:504:TYR:HE1	1.68	0.58
1:O:280:TYR:HD2	1:O:297:LEU:HD13	1.68	0.58
1:O:357:GLU:HA	1:O:360:TYR:CE2	2.38	0.58
1:b:250:LEU:HD12	1:b:471:ILE:HG21	1.85	0.58
1:L:389:LEU:HD22	1:L:465:PRO:O	2.03	0.58
1:k:389:LEU:HD22	1:k:465:PRO:O	2.03	0.58
1:o:280:TYR:HD2	1:o:297:LEU:HD13	1.68	0.58
1:q:250:LEU:HD12	1:q:471:ILE:HG21	1.85	0.58
1:r:389:LEU:HD22	1:r:465:PRO:O	2.03	0.58
1:r:456:LEU:HD23	1:r:504:TYR:HE1	1.68	0.58
1:s:280:TYR:HD2	1:s:297:LEU:HD13	1.68	0.58
1:A:389:LEU:HD22	1:A:465:PRO:O	2.03	0.58
1:B:280:TYR:HD2	1:B:297:LEU:HD13	1.69	0.58
1:Y:280:TYR:HD2	1:Y:297:LEU:HD13	1.68	0.58
1:Z:456:LEU:HD23	1:Z:504:TYR:HE1	1.68	0.58
1:C:336:HIS:HB3	1:C:339:TRP:HD1	1.69	0.58
1:d:280:TYR:HD2	1:d:297:LEU:HD13	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:280:TYR:HD2	1:f:297:LEU:HD13	1.69	0.58
1:g:389:LEU:HD22	1:g:465:PRO:O	2.03	0.58
1:h:250:LEU:HD12	1:h:471:ILE:HG21	1.85	0.58
1:p:280:TYR:HD2	1:p:297:LEU:HD13	1.68	0.58
1:q:389:LEU:HD22	1:q:465:PRO:O	2.03	0.58
1:u:389:LEU:HD22	1:u:465:PRO:O	2.03	0.58
1:v:280:TYR:HD2	1:v:297:LEU:HD13	1.68	0.58
1:z:280:TYR:HD2	1:z:297:LEU:HD13	1.68	0.58
1:E:336:HIS:HB3	1:E:339:TRP:HD1	1.69	0.58
1:U:250:LEU:HD12	1:U:471:ILE:HG21	1.85	0.58
1:W:357:GLU:HA	1:W:360:TYR:CE2	2.38	0.58
1:X:280:TYR:HD2	1:X:297:LEU:HD13	1.69	0.58
1:4:389:LEU:HD22	1:4:465:PRO:O	2.03	0.58
1:6:389:LEU:HD22	1:6:465:PRO:O	2.03	0.58
1:J:250:LEU:HD12	1:J:471:ILE:HG21	1.85	0.58
1:J:389:LEU:HD22	1:J:465:PRO:O	2.03	0.58
1:f:336:HIS:HB3	1:f:339:TRP:HD1	1.69	0.58
1:k:357:GLU:HA	1:k:360:TYR:CE2	2.38	0.58
1:p:250:LEU:HD12	1:p:471:ILE:HG21	1.85	0.58
1:t:241:LEU:HD13	1:F:94:LYS:HA	1.85	0.58
1:t:357:GLU:HA	1:t:360:TYR:CE2	2.38	0.58
1:v:336:HIS:HB3	1:v:339:TRP:HD1	1.69	0.58
1:w:389:LEU:HD22	1:w:465:PRO:O	2.03	0.58
1:y:250:LEU:HD12	1:y:471:ILE:HG21	1.85	0.58
1:z:250:LEU:HD12	1:z:471:ILE:HG21	1.85	0.58
1:z:336:HIS:HB3	1:z:339:TRP:HD1	1.69	0.58
1:A:280:TYR:HD2	1:A:297:LEU:HD13	1.69	0.58
1:E:456:LEU:HD23	1:E:504:TYR:HE1	1.68	0.58
1:Q:357:GLU:HA	1:Q:360:TYR:CE2	2.38	0.58
1:V:336:HIS:HB3	1:V:339:TRP:HD1	1.69	0.58
1:X:241:LEU:HD13	1:S:94:LYS:HA	1.85	0.58
1:O:336:HIS:HB3	1:O:339:TRP:HD1	1.69	0.57
1:a:280:TYR:HD2	1:a:297:LEU:HD13	1.69	0.57
1:b:389:LEU:HD22	1:b:465:PRO:O	2.03	0.57
1:7:250:LEU:HD12	1:7:471:ILE:HG21	1.85	0.57
1:7:389:LEU:HD22	1:7:465:PRO:O	2.03	0.57
1:n:336:HIS:HB3	1:n:339:TRP:HD1	1.69	0.57
1:2:250:LEU:HD12	1:2:471:ILE:HG21	1.85	0.57
1:2:280:TYR:HD2	1:2:297:LEU:HD13	1.68	0.57
1:2:336:HIS:HB3	1:2:339:TRP:HD1	1.69	0.57
1:G:336:HIS:HB3	1:G:339:TRP:HD1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:389:LEU:HD22	1:Q:465:PRO:O	2.03	0.57
1:T:250:LEU:HD12	1:T:471:ILE:HG21	1.85	0.57
1:Y:456:LEU:HD23	1:Y:504:TYR:HE1	1.68	0.57
1:S:336:HIS:HB3	1:S:339:TRP:HD1	1.69	0.57
1:O:250:LEU:HD12	1:O:471:ILE:HG21	1.85	0.57
1:3:250:LEU:HD12	1:3:471:ILE:HG21	1.85	0.57
1:5:389:LEU:HD22	1:5:465:PRO:O	2.03	0.57
1:I:241:LEU:HD13	1:M:94:LYS:HA	1.85	0.57
1:K:389:LEU:HD22	1:K:465:PRO:O	2.03	0.57
1:e:241:LEU:HD13	1:i:94:LYS:HA	1.85	0.57
1:g:250:LEU:HD12	1:g:471:ILE:HG21	1.85	0.57
1:h:280:TYR:HD2	1:h:297:LEU:HD13	1.68	0.57
1:h:336:HIS:HB3	1:h:339:TRP:HD1	1.69	0.57
1:o:336:HIS:HB3	1:o:339:TRP:HD1	1.69	0.57
1:x:389:LEU:HD22	1:x:465:PRO:O	2.03	0.57
1:O:389:LEU:HD22	1:O:465:PRO:O	2.04	0.57
1:F:250:LEU:HD12	1:F:471:ILE:HG21	1.85	0.57
1:a:250:LEU:HD12	1:a:471:ILE:HG21	1.85	0.57
1:J:336:HIS:HB3	1:J:339:TRP:HD1	1.69	0.57
1:M:250:LEU:HD12	1:M:471:ILE:HG21	1.85	0.57
1:i:250:LEU:HD12	1:i:471:ILE:HG21	1.85	0.57
1:i:357:GLU:HA	1:i:360:TYR:CE2	2.38	0.57
1:r:467:LYS:O	1:r:468:THR:C	2.48	0.57
1:y:336:HIS:HB3	1:y:339:TRP:HD1	1.69	0.57
1:1:389:LEU:HD22	1:1:465:PRO:O	2.04	0.57
1:2:92:PRO:CB	1:A:390:ARG:NH1	2.68	0.57
1:R:250:LEU:HD12	1:R:471:ILE:HG21	1.85	0.57
1:T:92:PRO:CB	1:W:390:ARG:NH1	2.68	0.57
1:T:467:LYS:O	1:T:468:THR:C	2.48	0.57
1:U:336:HIS:HB3	1:U:339:TRP:HD1	1.69	0.57
1:V:389:LEU:HD22	1:V:465:PRO:O	2.04	0.57
1:c:467:LYS:O	1:c:468:THR:C	2.48	0.57
1:6:467:LYS:O	1:6:468:THR:C	2.48	0.57
1:7:336:HIS:HB3	1:7:339:TRP:HD1	1.69	0.57
1:f:389:LEU:HD22	1:f:465:PRO:O	2.03	0.57
1:i:467:LYS:O	1:i:468:THR:C	2.48	0.57
1:k:250:LEU:HD12	1:k:471:ILE:HG21	1.85	0.57
1:v:92:PRO:CB	1:y:390:ARG:NH1	2.68	0.57
1:v:250:LEU:HD12	1:v:471:ILE:HG21	1.85	0.57
1:x:280:TYR:HD2	1:x:297:LEU:HD13	1.69	0.57
1:x:456:LEU:HD23	1:x:504:TYR:HE1	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:467:LYS:O	1:2:468:THR:C	2.48	0.57
1:F:336:HIS:HB3	1:F:339:TRP:HD1	1.69	0.57
1:F:456:LEU:HD23	1:F:504:TYR:HE1	1.68	0.57
1:H:357:GLU:HA	1:H:360:TYR:CE2	2.38	0.57
1:P:250:LEU:HD12	1:P:471:ILE:HG21	1.85	0.57
1:T:357:GLU:HA	1:T:360:TYR:CE2	2.38	0.57
1:U:280:TYR:HD2	1:U:297:LEU:HD13	1.68	0.57
1:S:250:LEU:HD12	1:S:471:ILE:HG21	1.85	0.57
1:4:336:HIS:HB3	1:4:339:TRP:HD1	1.69	0.57
1:I:389:LEU:HD22	1:I:465:PRO:O	2.04	0.57
1:K:467:LYS:O	1:K:468:THR:C	2.48	0.57
1:g:336:HIS:HB3	1:g:339:TRP:HD1	1.69	0.57
1:h:467:LYS:O	1:h:468:THR:C	2.48	0.57
1:j:250:LEU:HD12	1:j:471:ILE:HG21	1.85	0.57
1:j:280:TYR:HD2	1:j:297:LEU:HD13	1.69	0.57
1:m:357:GLU:HA	1:m:360:TYR:CE2	2.38	0.57
1:o:250:LEU:HD12	1:o:471:ILE:HG21	1.85	0.57
1:p:357:GLU:HA	1:p:360:TYR:CE2	2.38	0.57
1:y:280:TYR:HD2	1:y:297:LEU:HD13	1.69	0.57
1:O:280:TYR:HD2	1:O:297:LEU:HD13	1.68	0.57
1:O:456:LEU:HD23	1:O:504:TYR:HE1	1.68	0.57
1:D:92:PRO:CB	1:E:390:ARG:NH1	2.68	0.57
1:N:250:LEU:HD12	1:N:471:ILE:HG21	1.85	0.57
1:N:280:TYR:HD2	1:N:297:LEU:HD13	1.68	0.57
1:Q:250:LEU:HD12	1:Q:471:ILE:HG21	1.85	0.57
1:U:467:LYS:O	1:U:468:THR:C	2.48	0.57
1:S:456:LEU:HD23	1:S:504:TYR:HE1	1.68	0.57
1:4:92:PRO:CB	1:7:390:ARG:NH1	2.68	0.57
1:I:336:HIS:HB3	1:I:339:TRP:HD1	1.69	0.57
1:K:280:TYR:HD2	1:K:297:LEU:HD13	1.68	0.57
1:k:92:PRO:CB	1:n:390:ARG:NH1	2.68	0.57
1:l:250:LEU:HD12	1:l:471:ILE:HG21	1.85	0.57
1:n:204:THR:OG1	1:A:55:TRP:O	2.15	0.57
1:s:467:LYS:O	1:s:468:THR:C	2.48	0.57
1:x:467:LYS:O	1:x:468:THR:C	2.48	0.57
1:y:467:LYS:O	1:y:468:THR:C	2.48	0.57
1:O:92:PRO:CB	1:z:390:ARG:NH1	2.68	0.57
1:R:336:HIS:HB3	1:R:339:TRP:HD1	1.69	0.57
1:C:467:LYS:O	1:C:468:THR:C	2.48	0.57
1:a:357:GLU:HA	1:a:360:TYR:CE2	2.38	0.57
1:c:280:TYR:HD2	1:c:297:LEU:HD13	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:467:LYS:O	1:d:468:THR:C	2.48	0.57
1:3:280:TYR:HD2	1:3:297:LEU:HD13	1.68	0.57
1:7:456:LEU:HD23	1:7:504:TYR:HE1	1.68	0.57
1:L:336:HIS:HB3	1:L:339:TRP:HD1	1.69	0.57
1:h:456:LEU:HD23	1:h:504:TYR:HE1	1.68	0.57
1:p:336:HIS:HB3	1:p:339:TRP:HD1	1.69	0.57
1:x:336:HIS:HB3	1:x:339:TRP:HD1	1.69	0.57
1:O:336:HIS:HB3	1:O:339:TRP:HD1	1.69	0.57
1:D:250:LEU:HD12	1:D:471:ILE:HG21	1.85	0.57
1:E:467:LYS:O	1:E:468:THR:C	2.48	0.57
1:N:92:PRO:CB	1:P:390:ARG:NH1	2.68	0.57
1:Z:92:PRO:CB	1:C:390:ARG:NH1	2.68	0.57
1:Z:250:LEU:HD12	1:Z:471:ILE:HG21	1.85	0.57
1:d:456:LEU:HD23	1:d:504:TYR:HE1	1.68	0.57
1:6:280:TYR:HD2	1:6:297:LEU:HD13	1.69	0.57
1:l:280:TYR:HD2	1:l:297:LEU:HD13	1.68	0.57
1:O:467:LYS:O	1:O:468:THR:C	2.48	0.57
1:B:92:PRO:CB	1:F:390:ARG:NH1	2.68	0.57
1:H:336:HIS:HB3	1:H:339:TRP:HD1	1.69	0.57
1:R:241:LEU:HD13	1:W:94:LYS:HA	1.85	0.57
1:b:336:HIS:HB3	1:b:339:TRP:HD1	1.69	0.57
1:c:336:HIS:HB3	1:c:339:TRP:HD1	1.69	0.57
1:5:336:HIS:HB3	1:5:339:TRP:HD1	1.69	0.57
1:L:467:LYS:O	1:L:468:THR:C	2.48	0.57
1:M:280:TYR:HD2	1:M:297:LEU:HD13	1.69	0.57
1:f:92:PRO:CB	1:i:390:ARG:NH1	2.68	0.57
1:k:280:TYR:HD2	1:k:297:LEU:HD13	1.68	0.57
1:m:336:HIS:HB3	1:m:339:TRP:HD1	1.69	0.57
1:n:389:LEU:HD22	1:n:465:PRO:O	2.03	0.57
1:q:336:HIS:HB3	1:q:339:TRP:HD1	1.69	0.57
1:s:456:LEU:HD23	1:s:504:TYR:HE1	1.68	0.57
1:v:467:LYS:O	1:v:468:THR:C	2.48	0.57
1:w:92:PRO:CB	1:x:390:ARG:NH1	2.68	0.57
1:D:336:HIS:HB3	1:D:339:TRP:HD1	1.69	0.57
1:P:280:TYR:HD2	1:P:297:LEU:HD13	1.68	0.57
1:Q:280:TYR:HD2	1:Q:297:LEU:HD13	1.69	0.57
1:T:280:TYR:HD2	1:T:297:LEU:HD13	1.68	0.57
1:Y:92:PRO:CB	1:S:390:ARG:NH1	2.68	0.57
1:Y:336:HIS:HB3	1:Y:339:TRP:HD1	1.69	0.57
1:a:336:HIS:HB3	1:a:339:TRP:HD1	1.69	0.57
1:6:336:HIS:HB3	1:6:339:TRP:HD1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:336:HIS:HB3	1:K:339:TRP:HD1	1.69	0.57
1:r:280:TYR:HD2	1:r:297:LEU:HD13	1.68	0.57
1:B:336:HIS:HB3	1:B:339:TRP:HD1	1.69	0.57
1:D:280:TYR:HD2	1:D:297:LEU:HD13	1.68	0.57
1:U:92:PRO:CB	1:V:390:ARG:NH1	2.68	0.57
1:4:467:LYS:O	1:4:468:THR:C	2.48	0.56
1:J:456:LEU:HD23	1:J:504:TYR:HE1	1.68	0.56
1:g:280:TYR:HD2	1:g:297:LEU:HD13	1.68	0.56
1:i:280:TYR:HD2	1:i:297:LEU:HD13	1.69	0.56
1:r:336:HIS:HB3	1:r:339:TRP:HD1	1.69	0.56
1:u:467:LYS:O	1:u:468:THR:C	2.48	0.56
1:z:467:LYS:O	1:z:468:THR:C	2.48	0.56
1:Z:280:TYR:HD2	1:Z:297:LEU:HD13	1.69	0.56
1:0:390:ARG:NH1	1:d:92:PRO:CB	2.69	0.56
1:b:92:PRO:CB	1:c:390:ARG:NH1	2.68	0.56
1:J:92:PRO:CB	1:M:390:ARG:NH1	2.68	0.56
1:e:336:HIS:HB3	1:e:339:TRP:HD1	1.69	0.56
1:g:92:PRO:CB	1:h:390:ARG:NH1	2.68	0.56
1:l:336:HIS:HB3	1:l:339:TRP:HD1	1.69	0.56
1:o:390:ARG:NH1	1:s:92:PRO:CB	2.69	0.56
1:G:389:LEU:HD22	1:G:465:PRO:O	2.04	0.56
1:R:280:TYR:HD2	1:R:297:LEU:HD13	1.69	0.56
1:U:456:LEU:HD23	1:U:504:TYR:HE1	1.68	0.56
1:W:467:LYS:O	1:W:468:THR:C	2.48	0.56
1:Z:336:HIS:HB3	1:Z:339:TRP:HD1	1.69	0.56
1:d:250:LEU:HD12	1:d:471:ILE:HG21	1.85	0.56
1:d:336:HIS:HB3	1:d:339:TRP:HD1	1.69	0.56
1:3:456:LEU:HD23	1:3:504:TYR:HE1	1.68	0.56
1:5:92:PRO:CB	1:6:390:ARG:NH1	2.68	0.56
1:e:390:ARG:NH1	1:i:92:PRO:CB	2.69	0.56
1:e:467:LYS:O	1:e:468:THR:C	2.48	0.56
1:j:390:ARG:NH1	1:n:92:PRO:CB	2.69	0.56
1:n:467:LYS:O	1:n:468:THR:C	2.48	0.56
1:p:467:LYS:O	1:p:468:THR:C	2.48	0.56
1:q:92:PRO:CB	1:r:390:ARG:NH1	2.68	0.56
1:t:250:LEU:HD12	1:t:471:ILE:HG21	1.85	0.56
1:t:390:ARG:NH1	1:F:92:PRO:CB	2.69	0.56
1:w:467:LYS:O	1:w:468:THR:C	2.48	0.56
1:A:467:LYS:O	1:A:468:THR:C	2.48	0.56
1:G:467:LYS:O	1:G:468:THR:C	2.48	0.56
1:H:92:PRO:CB	1:Q:390:ARG:NH1	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:336:HIS:HB3	1:W:339:TRP:HD1	1.69	0.56
1:X:250:LEU:HD12	1:X:471:ILE:HG21	1.85	0.56
1:X:467:LYS:O	1:X:468:THR:C	2.48	0.56
1:S:389:LEU:HD22	1:S:465:PRO:O	2.03	0.56
1:O:467:LYS:O	1:O:468:THR:C	2.48	0.56
1:a:467:LYS:O	1:a:468:THR:C	2.48	0.56
1:5:456:LEU:HD23	1:5:504:TYR:HE1	1.68	0.56
1:I:390:ARG:NH1	1:M:92:PRO:CB	2.69	0.56
1:M:456:LEU:HD23	1:M:504:TYR:HE1	1.68	0.56
1:o:467:LYS:O	1:o:468:THR:C	2.48	0.56
1:s:336:HIS:HB3	1:s:339:TRP:HD1	1.69	0.56
1:u:336:HIS:HB3	1:u:339:TRP:HD1	1.69	0.56
1:u:390:ARG:NH1	1:y:92:PRO:CB	2.69	0.56
1:y:55:TRP:O	1:F:204:THR:OG1	2.15	0.56
1:l:467:LYS:O	1:l:468:THR:C	2.48	0.56
1:P:336:HIS:HB3	1:P:339:TRP:HD1	1.69	0.56
1:Y:467:LYS:O	1:Y:468:THR:C	2.48	0.56
1:S:467:LYS:O	1:S:468:THR:C	2.48	0.56
1:4:516:LEU:HA	1:4:521:THR:HG21	1.88	0.56
1:m:467:LYS:O	1:m:468:THR:C	2.48	0.56
1:q:467:LYS:O	1:q:468:THR:C	2.48	0.56
1:s:250:LEU:HD12	1:s:471:ILE:HG21	1.85	0.56
1:t:467:LYS:O	1:t:468:THR:C	2.48	0.56
1:l:336:HIS:HB3	1:l:339:TRP:HD1	1.69	0.56
1:l:390:ARG:NH1	1:A:92:PRO:CB	2.69	0.56
1:A:336:HIS:HB3	1:A:339:TRP:HD1	1.69	0.56
1:F:467:LYS:O	1:F:468:THR:C	2.48	0.56
1:G:390:ARG:NH1	1:Q:92:PRO:CB	2.69	0.56
1:H:467:LYS:O	1:H:468:THR:C	2.48	0.56
1:X:390:ARG:NH1	1:S:92:PRO:CB	2.69	0.56
1:3:390:ARG:NH1	1:7:92:PRO:CB	2.69	0.56
1:I:456:LEU:HD23	1:I:504:TYR:HE1	1.68	0.56
1:I:516:LEU:HA	1:I:521:THR:HG21	1.88	0.56
1:K:92:PRO:CB	1:L:390:ARG:NH1	2.68	0.56
1:f:467:LYS:O	1:f:468:THR:C	2.48	0.56
1:g:467:LYS:O	1:g:468:THR:C	2.48	0.56
1:g:516:LEU:HA	1:g:521:THR:HG21	1.88	0.56
1:j:467:LYS:O	1:j:468:THR:C	2.48	0.56
1:N:467:LYS:O	1:N:468:THR:C	2.48	0.56
1:X:336:HIS:HB3	1:X:339:TRP:HD1	1.69	0.56
1:b:467:LYS:O	1:b:468:THR:C	2.48	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:516:LEU:HA	1:c:521:THR:HG21	1.88	0.56
1:I:467:LYS:O	1:I:468:THR:C	2.48	0.56
1:J:467:LYS:O	1:J:468:THR:C	2.48	0.56
1:L:516:LEU:HA	1:L:521:THR:HG21	1.88	0.56
1:M:204:THR:OG1	1:p:55:TRP:O	2.17	0.56
1:l:92:PRO:CB	1:m:390:ARG:NH1	2.68	0.56
1:t:336:HIS:HB3	1:t:339:TRP:HD1	1.69	0.56
1:B:467:LYS:O	1:B:468:THR:C	2.48	0.56
1:F:389:LEU:HD22	1:F:465:PRO:O	2.03	0.56
1:Q:336:HIS:HB3	1:Q:339:TRP:HD1	1.69	0.56
1:R:390:ARG:NH1	1:W:92:PRO:CB	2.69	0.56
1:R:516:LEU:HA	1:R:521:THR:HG21	1.88	0.56
1:V:467:LYS:O	1:V:468:THR:C	2.48	0.56
1:a:92:PRO:CB	1:d:390:ARG:NH1	2.68	0.56
1:3:516:LEU:HA	1:3:521:THR:HG21	1.88	0.56
1:5:467:LYS:O	1:5:468:THR:C	2.48	0.56
1:7:467:LYS:O	1:7:468:THR:C	2.48	0.56
1:J:405:PHE:CD2	1:J:441:ILE:HG21	2.41	0.56
1:h:516:LEU:HA	1:h:521:THR:HG21	1.88	0.56
1:j:336:HIS:HB3	1:j:339:TRP:HD1	1.69	0.56
1:k:516:LEU:HA	1:k:521:THR:HG21	1.88	0.56
1:r:516:LEU:HA	1:r:521:THR:HG21	1.88	0.56
1:w:336:HIS:HB3	1:w:339:TRP:HD1	1.69	0.56
1:Q:467:LYS:O	1:Q:468:THR:C	2.48	0.56
1:T:336:HIS:HB3	1:T:339:TRP:HD1	1.69	0.56
1:U:516:LEU:HA	1:U:521:THR:HG21	1.88	0.56
1:C:516:LEU:HA	1:C:521:THR:HG21	1.88	0.56
1:5:516:LEU:HA	1:5:521:THR:HG21	1.88	0.56
1:7:405:PHE:CD2	1:7:441:ILE:HG21	2.41	0.56
1:I:69:LEU:HD21	1:I:104:LYS:HE3	1.88	0.56
1:k:336:HIS:HB3	1:k:339:TRP:HD1	1.69	0.56
1:k:467:LYS:O	1:k:468:THR:C	2.48	0.56
1:m:516:LEU:HA	1:m:521:THR:HG21	1.88	0.56
1:N:336:HIS:HB3	1:N:339:TRP:HD1	1.69	0.56
1:X:85:MET:HE1	1:X:443:ARG:HB2	1.88	0.56
1:b:516:LEU:HA	1:b:521:THR:HG21	1.88	0.56
1:c:69:LEU:HD21	1:c:104:LYS:HE3	1.88	0.56
1:c:405:PHE:CD2	1:c:441:ILE:HG21	2.41	0.56
1:3:405:PHE:CD2	1:3:441:ILE:HG21	2.41	0.56
1:4:85:MET:HE1	1:4:443:ARG:HB2	1.88	0.56
1:L:405:PHE:CD2	1:L:441:ILE:HG21	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:405:PHE:CD2	1:M:441:ILE:HG21	2.41	0.56
1:M:516:LEU:HA	1:M:521:THR:HG21	1.88	0.56
1:f:69:LEU:HD21	1:f:104:LYS:HE3	1.88	0.56
1:i:516:LEU:HA	1:i:521:THR:HG21	1.88	0.56
1:l:467:LYS:O	1:l:468:THR:C	2.48	0.56
1:p:92:PRO:CB	1:s:390:ARG:NH1	2.68	0.56
1:q:516:LEU:HA	1:q:521:THR:HG21	1.88	0.56
1:r:405:PHE:CD2	1:r:441:ILE:HG21	2.41	0.56
1:t:405:PHE:CD2	1:t:441:ILE:HG21	2.41	0.56
1:H:516:LEU:HA	1:H:521:THR:HG21	1.88	0.56
1:P:467:LYS:O	1:P:468:THR:C	2.48	0.56
1:V:69:LEU:HD21	1:V:104:LYS:HE3	1.88	0.56
1:X:405:PHE:CD2	1:X:441:ILE:HG21	2.41	0.56
1:b:405:PHE:CD2	1:b:441:ILE:HG21	2.41	0.55
1:d:69:LEU:HD21	1:d:104:LYS:HE3	1.88	0.55
1:3:467:LYS:O	1:3:468:THR:C	2.48	0.55
1:4:405:PHE:CD2	1:4:441:ILE:HG21	2.41	0.55
1:5:69:LEU:HD21	1:5:104:LYS:HE3	1.88	0.55
1:6:405:PHE:CD2	1:6:441:ILE:HG21	2.41	0.55
1:e:85:MET:HE1	1:e:443:ARG:HB2	1.88	0.55
1:n:69:LEU:HD21	1:n:104:LYS:HE3	1.88	0.55
1:r:69:LEU:HD21	1:r:104:LYS:HE3	1.88	0.55
1:t:85:MET:HE1	1:t:443:ARG:HB2	1.89	0.55
1:v:69:LEU:HD21	1:v:104:LYS:HE3	1.88	0.55
1:x:69:LEU:HD21	1:x:104:LYS:HE3	1.88	0.55
1:x:85:MET:HE1	1:x:443:ARG:HB2	1.89	0.55
1:1:405:PHE:CD2	1:1:441:ILE:HG21	2.41	0.55
1:O:69:LEU:HD21	1:O:104:LYS:HE3	1.89	0.55
1:O:85:MET:HE1	1:O:443:ARG:HB2	1.89	0.55
1:z:69:LEU:HD21	1:z:104:LYS:HE3	1.88	0.55
1:A:516:LEU:HA	1:A:521:THR:HG21	1.88	0.55
1:G:85:MET:HE1	1:G:443:ARG:HB2	1.88	0.55
1:G:405:PHE:CD2	1:G:441:ILE:HG21	2.41	0.55
1:Q:516:LEU:HA	1:Q:521:THR:HG21	1.88	0.55
1:T:516:LEU:HA	1:T:521:THR:HG21	1.88	0.55
1:X:516:LEU:HA	1:X:521:THR:HG21	1.88	0.55
1:S:85:MET:HE1	1:S:443:ARG:HB2	1.89	0.55
1:3:85:MET:HE1	1:3:443:ARG:HB2	1.89	0.55
1:K:85:MET:HE1	1:K:443:ARG:HB2	1.88	0.55
1:K:405:PHE:CD2	1:K:441:ILE:HG21	2.41	0.55
1:M:85:MET:HE1	1:M:443:ARG:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:467:LYS:O	1:M:468:THR:C	2.48	0.55
1:k:69:LEU:HD21	1:k:104:LYS:HE3	1.88	0.55
1:k:85:MET:HE1	1:k:443:ARG:HB2	1.89	0.55
1:l:405:PHE:CD2	1:l:441:ILE:HG21	2.41	0.55
1:n:85:MET:HE1	1:n:443:ARG:HB2	1.89	0.55
1:p:69:LEU:HD21	1:p:104:LYS:HE3	1.88	0.55
1:q:405:PHE:CD2	1:q:441:ILE:HG21	2.41	0.55
1:s:69:LEU:HD21	1:s:104:LYS:HE3	1.88	0.55
1:w:405:PHE:CD2	1:w:441:ILE:HG21	2.42	0.55
1:A:405:PHE:CD2	1:A:441:ILE:HG21	2.41	0.55
1:F:85:MET:HE1	1:F:443:ARG:HB2	1.89	0.55
1:Q:85:MET:HE1	1:Q:443:ARG:HB2	1.89	0.55
1:R:467:LYS:O	1:R:468:THR:C	2.48	0.55
1:V:85:MET:HE1	1:V:443:ARG:HB2	1.88	0.55
1:W:85:MET:HE1	1:W:443:ARG:HB2	1.89	0.55
1:d:516:LEU:HA	1:d:521:THR:HG21	1.88	0.55
1:5:85:MET:HE1	1:5:443:ARG:HB2	1.88	0.55
1:6:85:MET:HE1	1:6:443:ARG:HB2	1.89	0.55
1:6:516:LEU:HA	1:6:521:THR:HG21	1.88	0.55
1:L:85:MET:HE1	1:L:443:ARG:HB2	1.89	0.55
1:g:405:PHE:CD2	1:g:441:ILE:HG21	2.41	0.55
1:i:336:HIS:HB3	1:i:339:TRP:HD1	1.69	0.55
1:j:69:LEU:HD21	1:j:104:LYS:HE3	1.88	0.55
1:k:405:PHE:CD2	1:k:441:ILE:HG21	2.41	0.55
1:n:405:PHE:CD2	1:n:441:ILE:HG21	2.41	0.55
1:s:516:LEU:HA	1:s:521:THR:HG21	1.88	0.55
1:u:69:LEU:HD21	1:u:104:LYS:HE3	1.89	0.55
1:u:405:PHE:CD2	1:u:441:ILE:HG21	2.41	0.55
1:u:516:LEU:HA	1:u:521:THR:HG21	1.88	0.55
1:z:405:PHE:CD2	1:z:441:ILE:HG21	2.41	0.55
1:E:516:LEU:HA	1:E:521:THR:HG21	1.88	0.55
1:G:69:LEU:HD21	1:G:104:LYS:HE3	1.89	0.55
1:P:405:PHE:CD2	1:P:441:ILE:HG21	2.41	0.55
1:Q:69:LEU:HD21	1:Q:104:LYS:HE3	1.88	0.55
1:Q:405:PHE:CD2	1:Q:441:ILE:HG21	2.41	0.55
1:T:405:PHE:CD2	1:T:441:ILE:HG21	2.41	0.55
1:O:405:PHE:CD2	1:O:441:ILE:HG21	2.41	0.55
1:a:69:LEU:HD21	1:a:104:LYS:HE3	1.88	0.55
1:a:516:LEU:HA	1:a:521:THR:HG21	1.88	0.55
1:b:85:MET:HE1	1:b:443:ARG:HB2	1.88	0.55
1:3:336:HIS:HB3	1:3:339:TRP:HD1	1.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:69:LEU:HD21	1:4:104:LYS:HE3	1.88	0.55
1:I:85:MET:HE1	1:I:443:ARG:HB2	1.89	0.55
1:K:516:LEU:HA	1:K:521:THR:HG21	1.88	0.55
1:M:336:HIS:HB3	1:M:339:TRP:HD1	1.69	0.55
1:f:85:MET:HE1	1:f:443:ARG:HB2	1.89	0.55
1:i:69:LEU:HD21	1:i:104:LYS:HE3	1.88	0.55
1:l:85:MET:HE1	1:l:443:ARG:HB2	1.89	0.55
1:o:405:PHE:CD2	1:o:441:ILE:HG21	2.41	0.55
1:A:69:LEU:HD21	1:A:104:LYS:HE3	1.88	0.55
1:A:204:THR:OG1	1:Y:55:TRP:O	2.17	0.55
1:B:85:MET:HE1	1:B:443:ARG:HB2	1.89	0.55
1:E:69:LEU:HD21	1:E:104:LYS:HE3	1.89	0.55
1:H:405:PHE:CD2	1:H:441:ILE:HG21	2.41	0.55
1:N:516:LEU:HA	1:N:521:THR:HG21	1.88	0.55
1:Y:85:MET:HE1	1:Y:443:ARG:HB2	1.89	0.55
1:C:69:LEU:HD21	1:C:104:LYS:HE3	1.89	0.55
1:L:69:LEU:HD21	1:L:104:LYS:HE3	1.89	0.55
1:L:280:TYR:CD2	1:L:297:LEU:HD13	2.42	0.55
1:j:516:LEU:HA	1:j:521:THR:HG21	1.88	0.55
1:m:69:LEU:HD21	1:m:104:LYS:HE3	1.88	0.55
1:m:405:PHE:CD2	1:m:441:ILE:HG21	2.41	0.55
1:o:516:LEU:HA	1:o:521:THR:HG21	1.88	0.55
1:q:85:MET:HE1	1:q:443:ARG:HB2	1.88	0.55
1:s:280:TYR:CD2	1:s:297:LEU:HD13	2.42	0.55
1:t:516:LEU:HA	1:t:521:THR:HG21	1.88	0.55
1:v:405:PHE:CD2	1:v:441:ILE:HG21	2.42	0.55
1:x:516:LEU:HA	1:x:521:THR:HG21	1.88	0.55
1:O:405:PHE:CD2	1:O:441:ILE:HG21	2.41	0.55
1:O:516:LEU:HA	1:O:521:THR:HG21	1.88	0.55
1:N:85:MET:HE1	1:N:443:ARG:HB2	1.88	0.55
1:P:85:MET:HE1	1:P:443:ARG:HB2	1.89	0.55
1:T:69:LEU:HD21	1:T:104:LYS:HE3	1.88	0.55
1:U:69:LEU:HD21	1:U:104:LYS:HE3	1.88	0.55
1:V:405:PHE:CD2	1:V:441:ILE:HG21	2.41	0.55
1:O:516:LEU:HA	1:O:521:THR:HG21	1.88	0.55
1:d:280:TYR:CD2	1:d:297:LEU:HD13	2.42	0.55
1:5:57:PRO:HB3	1:x:204:THR:HG21	1.89	0.55
1:f:405:PHE:CD2	1:f:441:ILE:HG21	2.41	0.55
1:h:69:LEU:HD21	1:h:104:LYS:HE3	1.88	0.55
1:h:260:TRP:HD1	1:h:303:THR:HG21	1.72	0.55
1:x:405:PHE:CD2	1:x:441:ILE:HG21	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:94:LYS:H	1:O:241:LEU:HD13	1.72	0.55
1:2:85:MET:HE1	1:2:443:ARG:HB2	1.89	0.55
1:2:405:PHE:CD2	1:2:441:ILE:HG21	2.41	0.55
1:E:405:PHE:CD2	1:E:441:ILE:HG21	2.41	0.55
1:N:69:LEU:HD21	1:N:104:LYS:HE3	1.89	0.55
1:R:405:PHE:CD2	1:R:441:ILE:HG21	2.41	0.55
1:U:260:TRP:HD1	1:U:303:THR:HG21	1.72	0.55
1:C:405:PHE:CD2	1:C:441:ILE:HG21	2.41	0.55
1:a:405:PHE:CD2	1:a:441:ILE:HG21	2.41	0.55
1:4:280:TYR:CD2	1:4:297:LEU:HD13	2.42	0.55
1:h:85:MET:HE1	1:h:443:ARG:HB2	1.89	0.55
1:i:405:PHE:CD2	1:i:441:ILE:HG21	2.41	0.55
1:j:85:MET:HE1	1:j:443:ARG:HB2	1.89	0.55
1:p:516:LEU:HA	1:p:521:THR:HG21	1.88	0.55
1:v:516:LEU:HA	1:v:521:THR:HG21	1.88	0.55
1:z:516:LEU:HA	1:z:521:THR:HG21	1.88	0.55
1:A:260:TRP:HD1	1:A:303:THR:HG21	1.72	0.55
1:B:405:PHE:CD2	1:B:441:ILE:HG21	2.41	0.55
1:R:85:MET:HE1	1:R:443:ARG:HB2	1.89	0.55
1:Z:467:LYS:O	1:Z:468:THR:C	2.48	0.55
1:d:260:TRP:HD1	1:d:303:THR:HG21	1.72	0.55
1:K:280:TYR:CD2	1:K:297:LEU:HD13	2.42	0.55
1:e:405:PHE:CD2	1:e:441:ILE:HG21	2.41	0.55
1:g:85:MET:HE1	1:g:443:ARG:HB2	1.89	0.55
1:g:280:TYR:CD2	1:g:297:LEU:HD13	2.42	0.55
1:m:280:TYR:CD2	1:m:297:LEU:HD13	2.42	0.55
1:p:405:PHE:CD2	1:p:441:ILE:HG21	2.41	0.55
1:s:260:TRP:HD1	1:s:303:THR:HG21	1.72	0.55
1:t:94:LYS:H	1:D:241:LEU:HD13	1.72	0.55
1:t:260:TRP:HD1	1:t:303:THR:HG21	1.72	0.55
1:u:260:TRP:HD1	1:u:303:THR:HG21	1.72	0.55
1:y:405:PHE:CD2	1:y:441:ILE:HG21	2.41	0.55
1:H:69:LEU:HD21	1:H:104:LYS:HE3	1.88	0.55
1:H:280:TYR:CD2	1:H:297:LEU:HD13	2.42	0.55
1:T:260:TRP:HD1	1:T:303:THR:HG21	1.72	0.55
1:U:85:MET:HE1	1:U:443:ARG:HB2	1.88	0.55
1:X:280:TYR:CD2	1:X:297:LEU:HD13	2.42	0.55
1:Y:405:PHE:CD2	1:Y:441:ILE:HG21	2.41	0.55
1:S:69:LEU:HD21	1:S:104:LYS:HE3	1.88	0.55
1:6:280:TYR:CD2	1:6:297:LEU:HD13	2.42	0.55
1:7:516:LEU:HA	1:7:521:THR:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:280:TYR:CD2	1:J:297:LEU:HD13	2.42	0.55
1:j:280:TYR:CD2	1:j:297:LEU:HD13	2.42	0.55
1:l:375:LEU:HD12	1:l:380:TYR:HE1	1.72	0.55
1:m:85:MET:HE1	1:m:443:ARG:HB2	1.89	0.55
1:r:85:MET:HE1	1:r:443:ARG:HB2	1.89	0.55
1:t:280:TYR:CD2	1:t:297:LEU:HD13	2.42	0.55
1:u:280:TYR:CD2	1:u:297:LEU:HD13	2.42	0.55
1:y:85:MET:HE1	1:y:443:ARG:HB2	1.89	0.55
1:y:260:TRP:HD1	1:y:303:THR:HG21	1.72	0.55
1:A:280:TYR:CD2	1:A:297:LEU:HD13	2.42	0.55
1:B:260:TRP:HD1	1:B:303:THR:HG21	1.72	0.55
1:D:260:TRP:HD1	1:D:303:THR:HG21	1.72	0.55
1:D:280:TYR:CD2	1:D:297:LEU:HD13	2.42	0.55
1:D:467:LYS:O	1:D:468:THR:C	2.48	0.55
1:N:280:TYR:CD2	1:N:297:LEU:HD13	2.42	0.55
1:P:280:TYR:CD2	1:P:297:LEU:HD13	2.42	0.55
1:R:280:TYR:CD2	1:R:297:LEU:HD13	2.42	0.55
1:W:405:PHE:CD2	1:W:441:ILE:HG21	2.41	0.55
1:Z:260:TRP:HD1	1:Z:303:THR:HG21	1.72	0.55
1:C:280:TYR:CD2	1:C:297:LEU:HD13	2.42	0.55
1:3:94:LYS:H	1:5:241:LEU:HD13	1.72	0.55
1:6:375:LEU:HD12	1:6:380:TYR:HE1	1.72	0.55
1:7:280:TYR:CD2	1:7:297:LEU:HD13	2.42	0.55
1:J:390:ARG:NH1	1:L:92:PRO:CB	2.70	0.55
1:e:280:TYR:CD2	1:e:297:LEU:HD13	2.42	0.55
1:f:280:TYR:CD2	1:f:297:LEU:HD13	2.42	0.55
1:i:260:TRP:HD1	1:i:303:THR:HG21	1.72	0.55
1:i:280:TYR:CD2	1:i:297:LEU:HD13	2.42	0.55
1:n:280:TYR:CD2	1:n:297:LEU:HD13	2.42	0.55
1:y:516:LEU:HA	1:y:521:THR:HG21	1.88	0.55
1:l:516:LEU:HA	1:l:521:THR:HG21	1.88	0.55
1:O:260:TRP:HD1	1:O:303:THR:HG21	1.72	0.55
1:B:516:LEU:HA	1:B:521:THR:HG21	1.88	0.55
1:F:280:TYR:CD2	1:F:297:LEU:HD13	2.42	0.55
1:F:405:PHE:CD2	1:F:441:ILE:HG21	2.41	0.55
1:G:280:TYR:CD2	1:G:297:LEU:HD13	2.42	0.55
1:G:516:LEU:HA	1:G:521:THR:HG21	1.88	0.55
1:H:85:MET:HE1	1:H:443:ARG:HB2	1.89	0.55
1:P:260:TRP:HD1	1:P:303:THR:HG21	1.72	0.55
1:P:375:LEU:HD12	1:P:380:TYR:HE1	1.72	0.55
1:T:280:TYR:CD2	1:T:297:LEU:HD13	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:280:TYR:CD2	1:V:297:LEU:HD13	2.42	0.55
1:X:94:LYS:H	1:Z:241:LEU:HD13	1.72	0.55
1:X:260:TRP:HD1	1:X:303:THR:HG21	1.72	0.55
1:Y:260:TRP:HD1	1:Y:303:THR:HG21	1.72	0.55
1:Z:280:TYR:CD2	1:Z:297:LEU:HD13	2.42	0.55
1:Z:405:PHE:CD2	1:Z:441:ILE:HG21	2.41	0.55
1:Z:516:LEU:HA	1:Z:521:THR:HG21	1.88	0.55
1:S:375:LEU:HD12	1:S:380:TYR:HE1	1.72	0.55
1:S:405:PHE:CD2	1:S:441:ILE:HG21	2.41	0.55
1:S:516:LEU:HA	1:S:521:THR:HG21	1.88	0.55
1:c:85:MET:HE1	1:c:443:ARG:HB2	1.89	0.54
1:J:516:LEU:HA	1:J:521:THR:HG21	1.88	0.54
1:M:69:LEU:HD21	1:M:104:LYS:HE3	1.88	0.54
1:g:375:LEU:HD12	1:g:380:TYR:HE1	1.72	0.54
1:h:280:TYR:CD2	1:h:297:LEU:HD13	2.42	0.54
1:j:375:LEU:HD12	1:j:380:TYR:HE1	1.72	0.54
1:k:260:TRP:HD1	1:k:303:THR:HG21	1.72	0.54
1:l:260:TRP:HD1	1:l:303:THR:HG21	1.72	0.54
1:l:280:TYR:CD2	1:l:297:LEU:HD13	2.42	0.54
1:o:77:ASP:OD2	1:o:526:LYS:NZ	2.41	0.54
1:t:69:LEU:HD21	1:t:104:LYS:HE3	1.88	0.54
1:2:260:TRP:HD1	1:2:303:THR:HG21	1.72	0.54
1:2:390:ARG:NH1	1:z:92:PRO:CB	2.70	0.54
1:2:516:LEU:HA	1:2:521:THR:HG21	1.88	0.54
1:D:375:LEU:HD12	1:D:380:TYR:HE1	1.72	0.54
1:E:85:MET:HE1	1:E:443:ARG:HB2	1.89	0.54
1:E:280:TYR:CD2	1:E:297:LEU:HD13	2.42	0.54
1:F:69:LEU:HD21	1:F:104:LYS:HE3	1.88	0.54
1:F:77:ASP:OD2	1:F:526:LYS:NZ	2.41	0.54
1:F:516:LEU:HA	1:F:521:THR:HG21	1.88	0.54
1:N:260:TRP:HD1	1:N:303:THR:HG21	1.72	0.54
1:N:375:LEU:HD12	1:N:380:TYR:HE1	1.72	0.54
1:Q:77:ASP:OD2	1:Q:526:LYS:NZ	2.41	0.54
1:R:375:LEU:HD12	1:R:380:TYR:HE1	1.72	0.54
1:T:390:ARG:NH1	1:V:92:PRO:CB	2.71	0.54
1:C:85:MET:HE1	1:C:443:ARG:HB2	1.88	0.54
1:0:77:ASP:OD2	1:0:526:LYS:NZ	2.41	0.54
1:b:260:TRP:HD1	1:b:303:THR:HG21	1.72	0.54
1:d:405:PHE:CD2	1:d:441:ILE:HG21	2.41	0.54
1:7:77:ASP:OD2	1:7:526:LYS:NZ	2.41	0.54
1:J:77:ASP:OD2	1:J:526:LYS:NZ	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:375:LEU:HD12	1:K:380:TYR:HE1	1.72	0.54
1:e:516:LEU:HA	1:e:521:THR:HG21	1.88	0.54
1:f:260:TRP:HD1	1:f:303:THR:HG21	1.72	0.54
1:f:375:LEU:HD12	1:f:380:TYR:HE1	1.72	0.54
1:k:77:ASP:OD2	1:k:526:LYS:NZ	2.41	0.54
1:n:516:LEU:HA	1:n:521:THR:HG21	1.88	0.54
1:p:169:MET:HE1	1:p:225:ARG:HB3	1.90	0.54
1:s:77:ASP:OD2	1:s:526:LYS:NZ	2.41	0.54
1:s:405:PHE:CD2	1:s:441:ILE:HG21	2.41	0.54
1:2:69:LEU:HD21	1:2:104:LYS:HE3	1.88	0.54
1:2:280:TYR:CD2	1:2:297:LEU:HD13	2.42	0.54
1:O:280:TYR:CD2	1:O:297:LEU:HD13	2.42	0.54
1:B:375:LEU:HD12	1:B:380:TYR:HE1	1.72	0.54
1:E:260:TRP:HD1	1:E:303:THR:HG21	1.72	0.54
1:N:77:ASP:OD2	1:N:526:LYS:NZ	2.41	0.54
1:T:77:ASP:OD2	1:T:526:LYS:NZ	2.41	0.54
1:U:280:TYR:CD2	1:U:297:LEU:HD13	2.42	0.54
1:W:280:TYR:CD2	1:W:297:LEU:HD13	2.42	0.54
1:W:516:LEU:HA	1:W:521:THR:HG21	1.88	0.54
1:Y:280:TYR:CD2	1:Y:297:LEU:HD13	2.42	0.54
1:Y:516:LEU:HA	1:Y:521:THR:HG21	1.88	0.54
1:Z:375:LEU:HD12	1:Z:380:TYR:HE1	1.72	0.54
1:C:260:TRP:HD1	1:C:303:THR:HG21	1.72	0.54
1:S:77:ASP:OD2	1:S:526:LYS:NZ	2.41	0.54
1:O:280:TYR:CD2	1:O:297:LEU:HD13	2.42	0.54
1:a:85:MET:HE1	1:a:443:ARG:HB2	1.88	0.54
1:a:169:MET:HE1	1:a:225:ARG:HB3	1.90	0.54
1:a:280:TYR:CD2	1:a:297:LEU:HD13	2.42	0.54
1:c:169:MET:HE1	1:c:225:ARG:HB3	1.90	0.54
1:d:77:ASP:OD2	1:d:526:LYS:NZ	2.41	0.54
1:5:280:TYR:CD2	1:5:297:LEU:HD13	2.42	0.54
1:5:405:PHE:CD2	1:5:441:ILE:HG21	2.41	0.54
1:I:169:MET:HE1	1:I:225:ARG:HB3	1.90	0.54
1:M:375:LEU:HD12	1:M:380:TYR:HE1	1.72	0.54
1:f:516:LEU:HA	1:f:521:THR:HG21	1.88	0.54
1:h:375:LEU:HD12	1:h:380:TYR:HE1	1.72	0.54
1:i:77:ASP:OD2	1:i:526:LYS:NZ	2.41	0.54
1:i:169:MET:HE1	1:i:225:ARG:HB3	1.90	0.54
1:j:77:ASP:OD2	1:j:526:LYS:NZ	2.41	0.54
1:j:260:TRP:HD1	1:j:303:THR:HG21	1.72	0.54
1:j:405:PHE:CD2	1:j:441:ILE:HG21	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:260:TRP:HD1	1:q:303:THR:HG21	1.72	0.54
1:v:390:ARG:NH1	1:x:92:PRO:CB	2.70	0.54
1:x:260:TRP:HD1	1:x:303:THR:HG21	1.72	0.54
1:x:375:LEU:HD12	1:x:380:TYR:HE1	1.72	0.54
1:y:280:TYR:CD2	1:y:297:LEU:HD13	2.42	0.54
1:O:77:ASP:OD2	1:O:526:LYS:NZ	2.41	0.54
1:A:375:LEU:HD12	1:A:380:TYR:HE1	1.72	0.54
1:B:69:LEU:HD21	1:B:104:LYS:HE3	1.88	0.54
1:D:516:LEU:HA	1:D:521:THR:HG21	1.88	0.54
1:F:375:LEU:HD12	1:F:380:TYR:HE1	1.72	0.54
1:N:169:MET:HE1	1:N:225:ARG:HB3	1.90	0.54
1:N:405:PHE:CD2	1:N:441:ILE:HG21	2.41	0.54
1:R:69:LEU:HD21	1:R:104:LYS:HE3	1.88	0.54
1:R:94:LYS:H	1:U:241:LEU:HD13	1.72	0.54
1:V:169:MET:HE1	1:V:225:ARG:HB3	1.90	0.54
1:V:375:LEU:HD12	1:V:380:TYR:HE1	1.72	0.54
1:X:69:LEU:HD21	1:X:104:LYS:HE3	1.89	0.54
1:Y:69:LEU:HD21	1:Y:104:LYS:HE3	1.88	0.54
1:Y:375:LEU:HD12	1:Y:380:TYR:HE1	1.72	0.54
1:S:260:TRP:HD1	1:S:303:THR:HG21	1.72	0.54
1:S:280:TYR:CD2	1:S:297:LEU:HD13	2.42	0.54
1:O:69:LEU:HD21	1:O:104:LYS:HE3	1.88	0.54
1:a:390:ARG:NH1	1:c:92:PRO:CB	2.70	0.54
1:d:85:MET:HE1	1:d:443:ARG:HB2	1.89	0.54
1:3:69:LEU:HD21	1:3:104:LYS:HE3	1.88	0.54
1:4:169:MET:HE1	1:4:225:ARG:HB3	1.90	0.54
1:4:204:THR:HG21	1:H:57:PRO:HB3	1.89	0.54
1:5:169:MET:HE1	1:5:225:ARG:HB3	1.90	0.54
1:I:405:PHE:CD2	1:I:441:ILE:HG21	2.41	0.54
1:f:55:TRP:O	1:v:204:THR:OG1	2.13	0.54
1:f:169:MET:HE1	1:f:225:ARG:HB3	1.90	0.54
1:j:169:MET:HE1	1:j:225:ARG:HB3	1.90	0.54
1:l:69:LEU:HD21	1:l:104:LYS:HE3	1.88	0.54
1:o:85:MET:HE1	1:o:443:ARG:HB2	1.88	0.54
1:o:280:TYR:CD2	1:o:297:LEU:HD13	2.42	0.54
1:p:85:MET:HE1	1:p:443:ARG:HB2	1.89	0.54
1:p:280:TYR:CD2	1:p:297:LEU:HD13	2.42	0.54
1:p:390:ARG:NH1	1:r:92:PRO:CB	2.70	0.54
1:r:169:MET:HE1	1:r:225:ARG:HB3	1.90	0.54
1:s:85:MET:HE1	1:s:443:ARG:HB2	1.89	0.54
1:v:85:MET:HE1	1:v:443:ARG:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:516:LEU:HA	1:w:521:THR:HG21	1.88	0.54
1:1:69:LEU:HD21	1:1:104:LYS:HE3	1.88	0.54
1:A:85:MET:HE1	1:A:443:ARG:HB2	1.89	0.54
1:B:280:TYR:CD2	1:B:297:LEU:HD13	2.42	0.54
1:D:77:ASP:OD2	1:D:526:LYS:NZ	2.41	0.54
1:E:77:ASP:OD2	1:E:526:LYS:NZ	2.41	0.54
1:F:260:TRP:HD1	1:F:303:THR:HG21	1.72	0.54
1:Q:260:TRP:HD1	1:Q:303:THR:HG21	1.72	0.54
1:c:77:ASP:OD2	1:c:526:LYS:NZ	2.41	0.54
1:c:280:TYR:CD2	1:c:297:LEU:HD13	2.42	0.54
1:3:77:ASP:OD2	1:3:526:LYS:NZ	2.41	0.54
1:3:375:LEU:HD12	1:3:380:TYR:HE1	1.72	0.54
1:7:204:THR:HG21	1:o:57:PRO:HB3	1.90	0.54
1:I:280:TYR:CD2	1:I:297:LEU:HD13	2.42	0.54
1:L:169:MET:HE1	1:L:225:ARG:HB3	1.90	0.54
1:M:77:ASP:OD2	1:M:526:LYS:NZ	2.41	0.54
1:e:69:LEU:HD21	1:e:104:LYS:HE3	1.89	0.54
1:h:405:PHE:CD2	1:h:441:ILE:HG21	2.41	0.54
1:p:260:TRP:HD1	1:p:303:THR:HG21	1.72	0.54
1:r:77:ASP:OD2	1:r:526:LYS:NZ	2.41	0.54
1:u:77:ASP:OD2	1:u:526:LYS:NZ	2.41	0.54
1:v:280:TYR:CD2	1:v:297:LEU:HD13	2.42	0.54
1:w:69:LEU:HD21	1:w:104:LYS:HE3	1.89	0.54
1:x:77:ASP:OD2	1:x:526:LYS:NZ	2.41	0.54
1:x:280:TYR:CD2	1:x:297:LEU:HD13	2.42	0.54
1:z:85:MET:HE1	1:z:443:ARG:HB2	1.89	0.54
1:z:280:TYR:CD2	1:z:297:LEU:HD13	2.42	0.54
1:A:77:ASP:OD2	1:A:526:LYS:NZ	2.41	0.54
1:D:405:PHE:CD2	1:D:441:ILE:HG21	2.41	0.54
1:T:169:MET:HE1	1:T:225:ARG:HB3	1.90	0.54
1:W:69:LEU:HD21	1:W:104:LYS:HE3	1.88	0.54
1:W:77:ASP:OD2	1:W:526:LYS:NZ	2.41	0.54
1:Y:390:ARG:NH1	1:C:92:PRO:CB	2.70	0.54
1:C:77:ASP:OD2	1:C:526:LYS:NZ	2.41	0.54
1:O:85:MET:HE1	1:O:443:ARG:HB2	1.89	0.54
1:a:260:TRP:HD1	1:a:303:THR:HG21	1.72	0.54
1:3:280:TYR:CD2	1:3:297:LEU:HD13	2.42	0.54
1:4:260:TRP:HD1	1:4:303:THR:HG21	1.72	0.54
1:J:260:TRP:HD1	1:J:303:THR:HG21	1.72	0.54
1:e:77:ASP:OD2	1:e:526:LYS:NZ	2.41	0.54
1:f:77:ASP:OD2	1:f:526:LYS:NZ	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:69:LEU:HD21	1:g:104:LYS:HE3	1.89	0.54
1:g:260:TRP:HD1	1:g:303:THR:HG21	1.72	0.54
1:j:94:LYS:H	1:l:241:LEU:HD13	1.72	0.54
1:l:77:ASP:OD2	1:l:526:LYS:NZ	2.41	0.54
1:n:169:MET:HE1	1:n:225:ARG:HB3	1.90	0.54
1:n:375:LEU:HD12	1:n:380:TYR:HE1	1.72	0.54
1:o:69:LEU:HD21	1:o:104:LYS:HE3	1.89	0.54
1:q:280:TYR:CD2	1:q:297:LEU:HD13	2.42	0.54
1:r:280:TYR:CD2	1:r:297:LEU:HD13	2.42	0.54
1:s:375:LEU:HD12	1:s:380:TYR:HE1	1.72	0.54
1:u:375:LEU:HD12	1:u:380:TYR:HE1	1.72	0.54
1:w:169:MET:HE1	1:w:225:ARG:HB3	1.90	0.54
1:x:169:MET:HE1	1:x:225:ARG:HB3	1.90	0.54
1:y:69:LEU:HD21	1:y:104:LYS:HE3	1.88	0.54
1:y:204:THR:HG21	1:X:57:PRO:HB3	1.90	0.54
1:O:375:LEU:HD12	1:O:380:TYR:HE1	1.72	0.54
1:D:85:MET:HE1	1:D:443:ARG:HB2	1.88	0.54
1:G:375:LEU:HD12	1:G:380:TYR:HE1	1.72	0.54
1:H:311:ASP:OD1	1:H:312:TRP:N	2.41	0.54
1:P:69:LEU:HD21	1:P:104:LYS:HE3	1.88	0.54
1:P:77:ASP:OD2	1:P:526:LYS:NZ	2.41	0.54
1:R:260:TRP:HD1	1:R:303:THR:HG21	1.72	0.54
1:U:375:LEU:HD12	1:U:380:TYR:HE1	1.72	0.54
1:U:405:PHE:CD2	1:U:441:ILE:HG21	2.42	0.54
1:V:260:TRP:HD1	1:V:303:THR:HG21	1.72	0.54
1:V:516:LEU:HA	1:V:521:THR:HG21	1.88	0.54
1:a:77:ASP:OD2	1:a:526:LYS:NZ	2.41	0.54
1:b:69:LEU:HD21	1:b:104:LYS:HE3	1.88	0.54
1:d:375:LEU:HD12	1:d:380:TYR:HE1	1.72	0.54
1:3:311:ASP:OD1	1:3:312:TRP:N	2.41	0.54
1:6:69:LEU:HD21	1:6:104:LYS:HE3	1.88	0.54
1:7:260:TRP:HD1	1:7:303:THR:HG21	1.72	0.54
1:K:69:LEU:HD21	1:K:104:LYS:HE3	1.89	0.54
1:K:77:ASP:OD2	1:K:526:LYS:NZ	2.41	0.54
1:L:260:TRP:HD1	1:L:303:THR:HG21	1.72	0.54
1:m:311:ASP:OD1	1:m:312:TRP:N	2.41	0.54
1:m:375:LEU:HD12	1:m:380:TYR:HE1	1.72	0.54
1:u:85:MET:HE1	1:u:443:ARG:HB2	1.89	0.54
1:v:169:MET:HE1	1:v:225:ARG:HB3	1.90	0.54
1:w:77:ASP:OD2	1:w:526:LYS:NZ	2.41	0.54
1:1:77:ASP:OD2	1:1:526:LYS:NZ	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:169:MET:HE1	1:1:225:ARG:HB3	1.90	0.54
1:1:375:LEU:HD12	1:1:380:TYR:HE1	1.72	0.54
1:2:241:LEU:HD13	1:z:94:LYS:H	1.73	0.54
1:O:169:MET:HE1	1:O:225:ARG:HB3	1.90	0.54
1:z:169:MET:HE1	1:z:225:ARG:HB3	1.90	0.54
1:G:169:MET:HE1	1:G:225:ARG:HB3	1.90	0.54
1:P:516:LEU:HA	1:P:521:THR:HG21	1.88	0.54
1:Q:280:TYR:CD2	1:Q:297:LEU:HD13	2.42	0.54
1:V:77:ASP:OD2	1:V:526:LYS:NZ	2.41	0.54
1:Z:77:ASP:OD2	1:Z:526:LYS:NZ	2.41	0.54
1:M:311:ASP:OD1	1:M:312:TRP:N	2.41	0.54
1:e:169:MET:HE1	1:e:225:ARG:HB3	1.90	0.54
1:f:390:ARG:NH1	1:h:92:PRO:CB	2.70	0.54
1:g:77:ASP:OD2	1:g:526:LYS:NZ	2.41	0.54
1:h:169:MET:HE1	1:h:225:ARG:HB3	1.90	0.54
1:k:169:MET:HE1	1:k:225:ARG:HB3	1.90	0.54
1:p:77:ASP:OD2	1:p:526:LYS:NZ	2.41	0.54
1:t:77:ASP:OD2	1:t:526:LYS:NZ	2.41	0.54
1:v:241:LEU:HD13	1:x:94:LYS:H	1.73	0.54
1:w:375:LEU:HD12	1:w:380:TYR:HE1	1.72	0.54
1:2:169:MET:HE1	1:2:225:ARG:HB3	1.90	0.54
1:2:241:LEU:CD1	1:z:94:LYS:H	2.21	0.54
1:2:311:ASP:OD1	1:2:312:TRP:N	2.41	0.54
1:B:390:ARG:NH1	1:E:92:PRO:CB	2.70	0.54
1:E:375:LEU:HD12	1:E:380:TYR:HE1	1.72	0.54
1:Q:311:ASP:OD1	1:Q:312:TRP:N	2.41	0.54
1:W:260:TRP:HD1	1:W:303:THR:HG21	1.72	0.54
1:C:375:LEU:HD12	1:C:380:TYR:HE1	1.72	0.54
1:O:260:TRP:HD1	1:O:303:THR:HG21	1.72	0.54
1:a:375:LEU:HD12	1:a:380:TYR:HE1	1.72	0.54
1:b:280:TYR:CD2	1:b:297:LEU:HD13	2.42	0.54
1:d:169:MET:HE1	1:d:225:ARG:HB3	1.90	0.54
1:4:390:ARG:NH1	1:6:92:PRO:CB	2.70	0.54
1:5:77:ASP:OD2	1:5:526:LYS:NZ	2.41	0.54
1:I:77:ASP:OD2	1:I:526:LYS:NZ	2.41	0.54
1:M:280:TYR:CD2	1:M:297:LEU:HD13	2.42	0.54
1:l:516:LEU:HA	1:l:521:THR:HG21	1.88	0.54
1:n:77:ASP:OD2	1:n:526:LYS:NZ	2.41	0.54
1:n:260:TRP:HD1	1:n:303:THR:HG21	1.72	0.54
1:p:375:LEU:HD12	1:p:380:TYR:HE1	1.72	0.54
1:q:69:LEU:HD21	1:q:104:LYS:HE3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:77:ASP:OD2	1:q:526:LYS:NZ	2.41	0.54
1:v:260:TRP:HD1	1:v:303:THR:HG21	1.72	0.54
1:y:311:ASP:OD1	1:y:312:TRP:N	2.41	0.54
1:2:375:LEU:HD12	1:2:380:TYR:HE1	1.72	0.54
1:D:311:ASP:OD1	1:D:312:TRP:N	2.41	0.54
1:G:94:LYS:H	1:N:241:LEU:HD13	1.72	0.54
1:H:260:TRP:HD1	1:H:303:THR:HG21	1.72	0.54
1:Q:169:MET:HE1	1:Q:225:ARG:HB3	1.90	0.54
1:X:77:ASP:OD2	1:X:526:LYS:NZ	2.41	0.54
1:Y:77:ASP:OD2	1:Y:526:LYS:NZ	2.41	0.54
1:Z:85:MET:HE1	1:Z:443:ARG:HB2	1.88	0.54
1:b:77:ASP:OD2	1:b:526:LYS:NZ	2.41	0.54
1:c:55:TRP:O	1:g:204:THR:OG1	2.15	0.54
1:c:375:LEU:HD12	1:c:380:TYR:HE1	1.72	0.54
1:d:311:ASP:OD1	1:d:312:TRP:N	2.41	0.54
1:4:241:LEU:HD13	1:6:94:LYS:H	1.73	0.54
1:e:375:LEU:HD12	1:e:380:TYR:HE1	1.72	0.54
1:k:311:ASP:OD1	1:k:312:TRP:N	2.41	0.54
1:l:169:MET:HE1	1:l:225:ARG:HB3	1.90	0.54
1:o:375:LEU:HD12	1:o:380:TYR:HE1	1.72	0.54
1:r:260:TRP:HD1	1:r:303:THR:HG21	1.72	0.54
1:s:311:ASP:OD1	1:s:312:TRP:N	2.41	0.54
1:v:311:ASP:OD1	1:v:312:TRP:N	2.41	0.54
1:w:85:MET:HE1	1:w:443:ARG:HB2	1.88	0.54
1:y:169:MET:HE1	1:y:225:ARG:HB3	1.90	0.54
1:O:311:ASP:OD1	1:O:312:TRP:N	2.41	0.54
1:z:311:ASP:OD1	1:z:312:TRP:N	2.41	0.54
1:z:375:LEU:HD12	1:z:380:TYR:HE1	1.72	0.54
1:E:169:MET:HE1	1:E:225:ARG:HB3	1.90	0.54
1:G:77:ASP:OD2	1:G:526:LYS:NZ	2.41	0.54
1:H:77:ASP:OD2	1:H:526:LYS:NZ	2.41	0.54
1:H:375:LEU:HD12	1:H:380:TYR:HE1	1.72	0.54
1:P:169:MET:HE1	1:P:225:ARG:HB3	1.90	0.54
1:R:311:ASP:OD1	1:R:312:TRP:N	2.41	0.54
1:T:241:LEU:HD13	1:V:94:LYS:H	1.73	0.54
1:U:77:ASP:OD2	1:U:526:LYS:NZ	2.41	0.54
1:W:169:MET:HE1	1:W:225:ARG:HB3	1.90	0.54
1:Z:311:ASP:OD1	1:Z:312:TRP:N	2.41	0.54
1:0:375:LEU:HD12	1:0:380:TYR:HE1	1.72	0.53
1:4:77:ASP:OD2	1:4:526:LYS:NZ	2.41	0.53
1:6:77:ASP:OD2	1:6:526:LYS:NZ	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:311:ASP:OD1	1:7:312:TRP:N	2.41	0.53
1:J:311:ASP:OD1	1:J:312:TRP:N	2.41	0.53
1:e:94:LYS:H	1:g:241:LEU:HD13	1.72	0.53
1:e:260:TRP:HD1	1:e:303:THR:HG21	1.72	0.53
1:f:241:LEU:HD13	1:h:94:LYS:H	1.73	0.53
1:f:241:LEU:CD1	1:h:94:LYS:H	2.21	0.53
1:g:169:MET:HE1	1:g:225:ARG:HB3	1.90	0.53
1:k:280:TYR:CD2	1:k:297:LEU:HD13	2.42	0.53
1:o:260:TRP:HD1	1:o:303:THR:HG21	1.72	0.53
1:s:169:MET:HE1	1:s:225:ARG:HB3	1.90	0.53
1:u:94:LYS:H	1:w:241:LEU:HD13	1.72	0.53
1:v:375:LEU:HD12	1:v:380:TYR:HE1	1.72	0.53
1:w:280:TYR:CD2	1:w:297:LEU:HD13	2.42	0.53
1:x:311:ASP:OD1	1:x:312:TRP:N	2.41	0.53
1:y:375:LEU:HD12	1:y:380:TYR:HE1	1.72	0.53
1:1:280:TYR:CD2	1:1:297:LEU:HD13	2.42	0.53
1:B:77:ASP:OD2	1:B:526:LYS:NZ	2.41	0.53
1:F:311:ASP:OD1	1:F:312:TRP:N	2.41	0.53
1:G:260:TRP:HD1	1:G:303:THR:HG21	1.72	0.53
1:U:169:MET:HE1	1:U:225:ARG:HB3	1.90	0.53
1:V:311:ASP:OD1	1:V:312:TRP:N	2.41	0.53
1:Y:169:MET:HE1	1:Y:225:ARG:HB3	1.90	0.53
1:b:169:MET:HE1	1:b:225:ARG:HB3	1.90	0.53
1:c:260:TRP:HD1	1:c:303:THR:HG21	1.72	0.53
1:J:241:LEU:CD1	1:L:94:LYS:H	2.21	0.53
1:K:260:TRP:HD1	1:K:303:THR:HG21	1.72	0.53
1:f:311:ASP:OD1	1:f:312:TRP:N	2.41	0.53
1:g:311:ASP:OD1	1:g:312:TRP:N	2.41	0.53
1:h:77:ASP:OD2	1:h:526:LYS:NZ	2.41	0.53
1:m:77:ASP:OD2	1:m:526:LYS:NZ	2.41	0.53
1:p:241:LEU:CD1	1:r:94:LYS:H	2.21	0.53
1:r:375:LEU:HD12	1:r:380:TYR:HE1	1.72	0.53
1:t:311:ASP:OD1	1:t:312:TRP:N	2.41	0.53
1:u:169:MET:HE1	1:u:225:ARG:HB3	1.90	0.53
1:z:204:THR:OG1	1:V:55:TRP:O	2.19	0.53
1:H:390:ARG:NH1	1:P:92:PRO:CB	2.70	0.53
1:Q:375:LEU:HD12	1:Q:380:TYR:HE1	1.72	0.53
1:R:77:ASP:OD2	1:R:526:LYS:NZ	2.41	0.53
1:Z:82:ASN:N	1:Z:439:ASP:OD2	2.35	0.53
1:a:241:LEU:CD1	1:c:94:LYS:H	2.21	0.53
1:a:311:ASP:OD1	1:a:312:TRP:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:85:MET:HE1	1:7:443:ARG:HB2	1.89	0.53
1:J:375:LEU:HD12	1:J:380:TYR:HE1	1.72	0.53
1:k:375:LEU:HD12	1:k:380:TYR:HE1	1.72	0.53
1:m:169:MET:HE1	1:m:225:ARG:HB3	1.90	0.53
1:m:260:TRP:HD1	1:m:303:THR:HG21	1.72	0.53
1:p:311:ASP:OD1	1:p:312:TRP:N	2.41	0.53
1:q:169:MET:HE1	1:q:225:ARG:HB3	1.90	0.53
1:y:77:ASP:OD2	1:y:526:LYS:NZ	2.41	0.53
1:2:77:ASP:OD2	1:2:526:LYS:NZ	2.41	0.53
1:z:260:TRP:HD1	1:z:303:THR:HG21	1.72	0.53
1:E:311:ASP:OD1	1:E:312:TRP:N	2.41	0.53
1:H:169:MET:HE1	1:H:225:ARG:HB3	1.90	0.53
1:T:85:MET:HE1	1:T:443:ARG:HB2	1.89	0.53
1:T:311:ASP:OD1	1:T:312:TRP:N	2.41	0.53
1:W:375:LEU:HD12	1:W:380:TYR:HE1	1.72	0.53
1:C:169:MET:HE1	1:C:225:ARG:HB3	1.90	0.53
1:S:311:ASP:OD1	1:S:312:TRP:N	2.41	0.53
1:b:375:LEU:HD12	1:b:380:TYR:HE1	1.72	0.53
1:4:241:LEU:CD1	1:6:94:LYS:H	2.21	0.53
1:5:375:LEU:HD12	1:5:380:TYR:HE1	1.72	0.53
1:I:260:TRP:HD1	1:I:303:THR:HG21	1.72	0.53
1:J:85:MET:HE1	1:J:443:ARG:HB2	1.89	0.53
1:K:207:LYS:HE2	1:1:209:GLN:OE1	2.00	0.53
1:L:77:ASP:OD2	1:L:526:LYS:NZ	2.41	0.53
1:L:311:ASP:OD1	1:L:312:TRP:N	2.41	0.53
1:i:85:MET:HE1	1:i:443:ARG:HB2	1.88	0.53
1:v:241:LEU:CD1	1:x:94:LYS:H	2.21	0.53
1:w:260:TRP:HD1	1:w:303:THR:HG21	1.72	0.53
1:A:169:MET:HE1	1:A:225:ARG:HB3	1.90	0.53
1:D:69:LEU:HD21	1:D:104:LYS:HE3	1.89	0.53
1:R:169:MET:HE1	1:R:225:ARG:HB3	1.90	0.53
1:6:260:TRP:HD1	1:6:303:THR:HG21	1.72	0.53
1:7:375:LEU:HD12	1:7:380:TYR:HE1	1.72	0.53
1:l:311:ASP:OD1	1:l:312:TRP:N	2.41	0.53
1:q:311:ASP:OD1	1:q:312:TRP:N	2.41	0.53
1:w:311:ASP:OD1	1:w:312:TRP:N	2.41	0.53
1:1:85:MET:HE1	1:1:443:ARG:HB2	1.89	0.53
1:1:260:TRP:HD1	1:1:303:THR:HG21	1.72	0.53
1:B:241:LEU:HD13	1:E:94:LYS:H	1.73	0.53
1:G:311:ASP:OD1	1:G:312:TRP:N	2.41	0.53
1:N:311:ASP:OD1	1:N:312:TRP:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:311:ASP:OD1	1:P:312:TRP:N	2.41	0.53
1:X:311:ASP:OD1	1:X:312:TRP:N	2.41	0.53
1:Y:241:LEU:HD13	1:C:94:LYS:H	1.73	0.53
1:b:311:ASP:OD1	1:b:312:TRP:N	2.41	0.53
1:5:260:TRP:HD1	1:5:303:THR:HG21	1.72	0.53
1:I:375:LEU:HD12	1:I:380:TYR:HE1	1.72	0.53
1:J:69:LEU:HD21	1:J:104:LYS:HE3	1.88	0.53
1:K:311:ASP:OD1	1:K:312:TRP:N	2.41	0.53
1:L:375:LEU:HD12	1:L:380:TYR:HE1	1.72	0.53
1:i:375:LEU:HD12	1:i:380:TYR:HE1	1.72	0.53
1:j:311:ASP:OD1	1:j:312:TRP:N	2.41	0.53
1:k:390:ARG:NH1	1:m:92:PRO:CB	2.70	0.53
1:q:375:LEU:HD12	1:q:380:TYR:HE1	1.72	0.53
1:v:77:ASP:OD2	1:v:526:LYS:NZ	2.41	0.53
1:1:311:ASP:OD1	1:1:312:TRP:N	2.41	0.53
1:z:77:ASP:OD2	1:z:526:LYS:NZ	2.41	0.53
1:B:169:MET:HE1	1:B:225:ARG:HB3	1.90	0.53
1:B:311:ASP:OD1	1:B:312:TRP:N	2.41	0.53
1:D:82:ASN:N	1:D:439:ASP:OD2	2.35	0.53
1:H:241:LEU:CD1	1:P:94:LYS:H	2.21	0.53
1:Z:69:LEU:HD21	1:Z:104:LYS:HE3	1.88	0.53
1:C:311:ASP:OD1	1:C:312:TRP:N	2.41	0.53
1:0:94:LYS:H	1:b:241:LEU:HD13	1.72	0.53
1:0:311:ASP:OD1	1:0:312:TRP:N	2.41	0.53
1:3:260:TRP:HD1	1:3:303:THR:HG21	1.72	0.53
1:4:311:ASP:OD1	1:4:312:TRP:N	2.41	0.53
1:7:69:LEU:HD21	1:7:104:LYS:HE3	1.88	0.53
1:i:311:ASP:OD1	1:i:312:TRP:N	2.41	0.53
1:n:311:ASP:OD1	1:n:312:TRP:N	2.41	0.53
1:4:375:LEU:HD12	1:4:380:TYR:HE1	1.72	0.53
1:5:311:ASP:OD1	1:5:312:TRP:N	2.41	0.53
1:7:169:MET:HE1	1:7:225:ARG:HB3	1.90	0.53
1:7:204:THR:OG1	1:o:55:TRP:O	2.13	0.53
1:M:260:TRP:HD1	1:M:303:THR:HG21	1.72	0.53
1:o:311:ASP:OD1	1:o:312:TRP:N	2.41	0.53
1:y:204:THR:OG1	1:X:55:TRP:O	2.13	0.53
1:Y:311:ASP:OD1	1:Y:312:TRP:N	2.41	0.53
1:6:311:ASP:OD1	1:6:312:TRP:N	2.41	0.53
1:I:94:LYS:H	1:K:241:LEU:HD13	1.72	0.53
1:e:311:ASP:OD1	1:e:312:TRP:N	2.41	0.53
1:t:375:LEU:HD12	1:t:380:TYR:HE1	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:311:ASP:OD1	1:u:312:TRP:N	2.41	0.53
1:U:311:ASP:OD1	1:U:312:TRP:N	2.41	0.53
1:0:94:LYS:H	1:b:241:LEU:CD1	2.22	0.53
1:I:311:ASP:OD1	1:I:312:TRP:N	2.41	0.53
1:h:82:ASN:N	1:h:439:ASP:OD2	2.35	0.53
1:r:311:ASP:OD1	1:r:312:TRP:N	2.41	0.53
1:B:241:LEU:CD1	1:E:94:LYS:H	2.21	0.53
1:Y:241:LEU:CD1	1:C:94:LYS:H	2.21	0.53
1:S:169:MET:HE1	1:S:225:ARG:HB3	1.90	0.53
1:c:311:ASP:OD1	1:c:312:TRP:N	2.41	0.52
1:J:169:MET:HE1	1:J:225:ARG:HB3	1.90	0.52
1:J:241:LEU:HD13	1:L:94:LYS:H	1.73	0.52
1:h:311:ASP:OD1	1:h:312:TRP:N	2.41	0.52
1:o:94:LYS:H	1:q:241:LEU:HD13	1.72	0.52
1:o:94:LYS:H	1:q:241:LEU:CD1	2.23	0.52
1:A:311:ASP:OD1	1:A:312:TRP:N	2.41	0.52
1:6:169:MET:HE1	1:6:225:ARG:HB3	1.90	0.52
1:k:241:LEU:HD13	1:m:94:LYS:CA	2.40	0.52
1:k:241:LEU:CD1	1:m:94:LYS:H	2.21	0.52
1:o:169:MET:HE1	1:o:225:ARG:HB3	1.90	0.52
1:F:169:MET:HE1	1:F:225:ARG:HB3	1.90	0.52
1:T:375:LEU:HD12	1:T:380:TYR:HE1	1.72	0.52
1:W:311:ASP:OD1	1:W:312:TRP:N	2.41	0.52
1:X:375:LEU:HD12	1:X:380:TYR:HE1	1.73	0.52
1:a:241:LEU:HD13	1:c:94:LYS:H	1.73	0.52
1:3:169:MET:HE1	1:3:225:ARG:HB3	1.90	0.52
1:t:169:MET:HE1	1:t:225:ARG:HB3	1.90	0.52
1:H:241:LEU:HD13	1:P:94:LYS:CA	2.40	0.52
1:0:169:MET:HE1	1:0:225:ARG:HB3	1.90	0.52
1:I:94:LYS:H	1:K:241:LEU:CD1	2.22	0.52
1:K:169:MET:HE1	1:K:225:ARG:HB3	1.90	0.52
1:p:241:LEU:HD13	1:r:94:LYS:CA	2.40	0.52
1:G:94:LYS:H	1:N:241:LEU:CD1	2.23	0.52
1:T:241:LEU:HD13	1:V:94:LYS:CA	2.40	0.52
1:T:241:LEU:CD1	1:V:94:LYS:H	2.21	0.52
1:X:169:MET:HE1	1:X:225:ARG:HB3	1.90	0.52
1:Z:169:MET:HE1	1:Z:225:ARG:HB3	1.90	0.52
1:a:241:LEU:HD13	1:c:94:LYS:CA	2.40	0.52
1:3:405:PHE:CD2	1:3:454:TYR:HE1	2.28	0.52
1:4:241:LEU:HD13	1:6:94:LYS:CA	2.40	0.52
1:7:405:PHE:CD2	1:7:454:TYR:HE1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:169:MET:HE1	1:M:225:ARG:HB3	1.90	0.52
1:M:405:PHE:CD2	1:M:454:TYR:HE1	2.28	0.52
1:f:241:LEU:HD13	1:h:94:LYS:CA	2.40	0.52
1:p:241:LEU:HD13	1:r:94:LYS:H	1.73	0.52
1:t:405:PHE:CD2	1:t:454:TYR:HE1	2.28	0.52
1:y:405:PHE:CD2	1:y:454:TYR:HE1	2.28	0.52
1:D:169:MET:HE1	1:D:225:ARG:HB3	1.90	0.52
1:h:405:PHE:CD2	1:h:454:TYR:HE1	2.28	0.52
1:u:94:LYS:H	1:w:241:LEU:CD1	2.22	0.52
1:x:281:GLY:O	1:x:298:ILE:N	2.41	0.52
1:1:405:PHE:CD2	1:1:454:TYR:HE1	2.28	0.52
1:E:405:PHE:CD2	1:E:454:TYR:HE1	2.28	0.52
1:H:82:ASN:N	1:H:439:ASP:OD2	2.35	0.52
1:R:94:LYS:H	1:U:241:LEU:CD1	2.23	0.52
1:U:405:PHE:CD2	1:U:454:TYR:HE1	2.28	0.52
1:X:405:PHE:CD2	1:X:454:TYR:HE1	2.28	0.52
1:Y:405:PHE:CD2	1:Y:454:TYR:HE1	2.28	0.52
1:6:405:PHE:CD2	1:6:454:TYR:HE1	2.28	0.52
1:J:405:PHE:CD2	1:J:454:TYR:HE1	2.28	0.52
1:K:405:PHE:CD2	1:K:454:TYR:HE1	2.28	0.52
1:m:82:ASN:N	1:m:439:ASP:OD2	2.35	0.52
1:t:94:LYS:H	1:D:241:LEU:CD1	2.22	0.52
1:v:405:PHE:CD2	1:v:454:TYR:HE1	2.28	0.52
1:w:94:LYS:H	1:x:241:LEU:HD13	1.75	0.52
1:1:94:LYS:H	1:O:241:LEU:CD1	2.22	0.52
1:2:405:PHE:CD2	1:2:454:TYR:HE1	2.28	0.52
1:B:405:PHE:CD2	1:B:454:TYR:HE1	2.28	0.52
1:D:405:PHE:CD2	1:D:454:TYR:HE1	2.28	0.52
1:b:94:LYS:H	1:c:241:LEU:HD13	1.75	0.52
1:d:405:PHE:CD2	1:d:454:TYR:HE1	2.28	0.52
1:g:94:LYS:H	1:h:241:LEU:HD13	1.75	0.52
1:z:405:PHE:CD2	1:z:454:TYR:HE1	2.28	0.52
1:H:241:LEU:HD13	1:P:94:LYS:H	1.73	0.52
1:0:82:ASN:N	1:0:439:ASP:OD2	2.35	0.52
1:3:94:LYS:H	1:5:241:LEU:CD1	2.22	0.52
1:4:405:PHE:CD2	1:4:454:TYR:HE1	2.28	0.52
1:K:94:LYS:H	1:L:241:LEU:HD13	1.75	0.52
1:L:155:THR:HB	1:L:203:PRO:HA	1.92	0.52
1:L:405:PHE:CD2	1:L:454:TYR:HE1	2.28	0.52
1:j:155:THR:HB	1:j:203:PRO:HA	1.92	0.52
1:q:94:LYS:H	1:r:241:LEU:HD13	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:405:PHE:CD2	1:s:454:TYR:HE1	2.28	0.52
1:w:405:PHE:CD2	1:w:454:TYR:HE1	2.28	0.52
1:D:94:LYS:H	1:E:241:LEU:HD13	1.75	0.52
1:F:405:PHE:CD2	1:F:454:TYR:HE1	2.28	0.52
1:N:155:THR:HB	1:N:203:PRO:HA	1.92	0.52
1:X:94:LYS:H	1:Z:241:LEU:CD1	2.23	0.52
1:Z:94:LYS:H	1:C:241:LEU:HD13	1.75	0.52
1:Z:405:PHE:CD2	1:Z:454:TYR:HE1	2.28	0.52
1:C:405:PHE:CD2	1:C:454:TYR:HE1	2.28	0.52
1:S:405:PHE:CD2	1:S:454:TYR:HE1	2.28	0.52
1:0:359:ILE:HG21	1:0:370:LYS:HE2	1.93	0.52
1:b:155:THR:HB	1:b:203:PRO:HA	1.92	0.52
1:j:405:PHE:CD2	1:j:454:TYR:HE1	2.28	0.52
1:l:405:PHE:CD2	1:l:454:TYR:HE1	2.28	0.52
1:m:405:PHE:CD2	1:m:454:TYR:HE1	2.28	0.52
1:o:82:ASN:N	1:o:439:ASP:OD2	2.35	0.52
1:q:155:THR:HB	1:q:203:PRO:HA	1.92	0.52
1:q:359:ILE:HG21	1:q:370:LYS:HE2	1.92	0.52
1:B:241:LEU:HD13	1:E:94:LYS:CA	2.40	0.52
1:H:405:PHE:CD2	1:H:454:TYR:HE1	2.28	0.52
1:N:405:PHE:CD2	1:N:454:TYR:HE1	2.28	0.52
1:0:405:PHE:CD2	1:0:454:TYR:HE1	2.28	0.51
1:b:359:ILE:HG21	1:b:370:LYS:HE2	1.92	0.51
1:b:405:PHE:CD2	1:b:454:TYR:HE1	2.28	0.51
1:J:155:THR:HB	1:J:203:PRO:HA	1.92	0.51
1:e:155:THR:HB	1:e:203:PRO:HA	1.92	0.51
1:j:94:LYS:H	1:l:241:LEU:CD1	2.22	0.51
1:n:405:PHE:CD2	1:n:454:TYR:HE1	2.28	0.51
1:o:359:ILE:HG21	1:o:370:LYS:HE2	1.93	0.51
1:O:94:LYS:H	1:z:241:LEU:HD13	1.75	0.51
1:F:155:THR:HB	1:F:203:PRO:HA	1.92	0.51
1:R:281:GLY:O	1:R:298:ILE:N	2.41	0.51
1:T:405:PHE:CD2	1:T:454:TYR:HE1	2.28	0.51
1:S:155:THR:HB	1:S:203:PRO:HA	1.92	0.51
1:a:155:THR:HB	1:a:203:PRO:HA	1.92	0.51
1:f:359:ILE:HG21	1:f:370:LYS:HE2	1.93	0.51
1:i:281:GLY:O	1:i:298:ILE:N	2.41	0.51
1:i:405:PHE:CD2	1:i:454:TYR:HE1	2.28	0.51
1:o:405:PHE:CD2	1:o:454:TYR:HE1	2.28	0.51
1:p:155:THR:HB	1:p:203:PRO:HA	1.92	0.51
1:q:281:GLY:O	1:q:298:ILE:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:405:PHE:CD2	1:q:454:TYR:HE1	2.28	0.51
1:r:405:PHE:CD2	1:r:454:TYR:HE1	2.28	0.51
1:v:281:GLY:O	1:v:298:ILE:N	2.41	0.51
1:O:155:THR:HB	1:O:203:PRO:HA	1.92	0.51
1:B:155:THR:HB	1:B:203:PRO:HA	1.92	0.51
1:N:281:GLY:O	1:N:298:ILE:N	2.41	0.51
1:V:359:ILE:HG21	1:V:370:LYS:HE2	1.92	0.51
1:W:155:THR:HB	1:W:203:PRO:HA	1.92	0.51
1:Y:155:THR:HB	1:Y:203:PRO:HA	1.92	0.51
1:c:405:PHE:CD2	1:c:454:TYR:HE1	2.28	0.51
1:4:155:THR:HB	1:4:203:PRO:HA	1.92	0.51
1:6:155:THR:HB	1:6:203:PRO:HA	1.92	0.51
1:7:155:THR:HB	1:7:203:PRO:HA	1.92	0.51
1:J:241:LEU:HD13	1:L:94:LYS:CA	2.40	0.51
1:K:207:LYS:NZ	1:1:209:GLN:CD	2.62	0.51
1:k:241:LEU:HD13	1:m:94:LYS:H	1.73	0.51
1:r:359:ILE:HG21	1:r:370:LYS:HE2	1.92	0.51
1:u:241:LEU:HD13	1:y:94:LYS:H	1.76	0.51
1:v:241:LEU:HD13	1:x:94:LYS:CA	2.40	0.51
1:x:155:THR:HB	1:x:203:PRO:HA	1.92	0.51
1:z:281:GLY:O	1:z:298:ILE:N	2.41	0.51
1:G:405:PHE:CD2	1:G:454:TYR:HE1	2.28	0.51
1:P:204:THR:OG1	1:R:55:TRP:O	2.18	0.51
1:P:405:PHE:CD2	1:P:454:TYR:HE1	2.28	0.51
1:U:94:LYS:H	1:V:241:LEU:HD13	1.75	0.51
1:Y:241:LEU:HD13	1:C:94:LYS:CA	2.40	0.51
1:c:359:ILE:HG21	1:c:370:LYS:HE2	1.92	0.51
1:I:405:PHE:CD2	1:I:454:TYR:HE1	2.28	0.51
1:K:155:THR:HB	1:K:203:PRO:HA	1.92	0.51
1:f:405:PHE:CD2	1:f:454:TYR:HE1	2.28	0.51
1:j:281:GLY:O	1:j:298:ILE:N	2.41	0.51
1:k:155:THR:HB	1:k:203:PRO:HA	1.92	0.51
1:k:405:PHE:CD2	1:k:454:TYR:HE1	2.28	0.51
1:n:155:THR:HB	1:n:203:PRO:HA	1.92	0.51
1:w:155:THR:HB	1:w:203:PRO:HA	1.92	0.51
1:z:155:THR:HB	1:z:203:PRO:HA	1.92	0.51
1:D:155:THR:HB	1:D:203:PRO:HA	1.92	0.51
1:Q:359:ILE:HG21	1:Q:370:LYS:HE2	1.92	0.51
1:Q:405:PHE:CD2	1:Q:454:TYR:HE1	2.28	0.51
1:T:155:THR:HB	1:T:203:PRO:HA	1.92	0.51
1:Z:281:GLY:O	1:Z:298:ILE:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:281:GLY:O	1:b:298:ILE:N	2.41	0.51
1:5:359:ILE:HG21	1:5:370:LYS:HE2	1.92	0.51
1:I:359:ILE:HG21	1:I:370:LYS:HE2	1.93	0.51
1:K:359:ILE:HG21	1:K:370:LYS:HE2	1.93	0.51
1:L:359:ILE:HG21	1:L:370:LYS:HE2	1.92	0.51
1:g:405:PHE:CD2	1:g:454:TYR:HE1	2.28	0.51
1:i:155:THR:HB	1:i:203:PRO:HA	1.92	0.51
1:k:359:ILE:HG21	1:k:370:LYS:HE2	1.93	0.51
1:u:405:PHE:CD2	1:u:454:TYR:HE1	2.28	0.51
1:v:155:THR:HB	1:v:203:PRO:HA	1.92	0.51
1:D:281:GLY:O	1:D:298:ILE:N	2.41	0.51
1:Z:155:THR:HB	1:Z:203:PRO:HA	1.92	0.51
1:C:155:THR:HB	1:C:203:PRO:HA	1.92	0.51
1:d:281:GLY:O	1:d:298:ILE:N	2.41	0.51
1:3:241:LEU:HD13	1:7:94:LYS:H	1.76	0.51
1:4:359:ILE:HG21	1:4:370:LYS:HE2	1.92	0.51
1:7:82:ASN:N	1:7:439:ASP:OD2	2.35	0.51
1:I:155:THR:HB	1:I:203:PRO:HA	1.92	0.51
1:L:468:THR:HB	1:L:469:PRO:HD3	1.93	0.51
1:M:155:THR:HB	1:M:203:PRO:HA	1.92	0.51
1:e:94:LYS:H	1:g:241:LEU:CD1	2.22	0.51
1:e:359:ILE:HG21	1:e:370:LYS:HE2	1.92	0.51
1:j:359:ILE:HG21	1:j:370:LYS:HE2	1.92	0.51
1:E:155:THR:HB	1:E:203:PRO:HA	1.92	0.51
1:G:155:THR:HB	1:G:203:PRO:HA	1.92	0.51
1:N:94:LYS:H	1:P:241:LEU:HD13	1.75	0.51
1:Q:155:THR:HB	1:Q:203:PRO:HA	1.92	0.51
1:V:405:PHE:CD2	1:V:454:TYR:HE1	2.28	0.51
1:d:359:ILE:HG21	1:d:370:LYS:HE2	1.93	0.51
1:3:155:THR:HB	1:3:203:PRO:HA	1.92	0.51
1:5:155:THR:HB	1:5:203:PRO:HA	1.92	0.51
1:5:405:PHE:CD2	1:5:454:TYR:HE1	2.28	0.51
1:6:359:ILE:HG21	1:6:370:LYS:HE2	1.93	0.51
1:e:405:PHE:CD2	1:e:454:TYR:HE1	2.28	0.51
1:g:468:THR:HB	1:g:469:PRO:HD3	1.93	0.51
1:t:468:THR:HB	1:t:469:PRO:HD3	1.93	0.51
1:1:155:THR:HB	1:1:203:PRO:HA	1.92	0.51
1:A:405:PHE:CD2	1:A:454:TYR:HE1	2.28	0.51
1:N:359:ILE:HG21	1:N:370:LYS:HE2	1.92	0.51
1:W:405:PHE:CD2	1:W:454:TYR:HE1	2.28	0.51
1:Z:359:ILE:HG21	1:Z:370:LYS:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:259:ASP:HB2	1:0:411:ASN:HA	1.93	0.51
1:4:468:THR:HB	1:4:469:PRO:HD3	1.93	0.51
1:L:204:THR:OG1	1:m:55:TRP:O	2.19	0.51
1:L:281:GLY:O	1:L:298:ILE:N	2.41	0.51
1:s:281:GLY:O	1:s:298:ILE:N	2.41	0.51
1:s:359:ILE:HG21	1:s:370:LYS:HE2	1.93	0.51
1:2:259:ASP:HB2	1:2:411:ASN:HA	1.93	0.51
1:D:94:LYS:H	1:E:241:LEU:CD1	2.24	0.51
1:R:468:THR:HB	1:R:469:PRO:HD3	1.93	0.51
1:T:281:GLY:O	1:T:298:ILE:N	2.41	0.51
1:X:155:THR:HB	1:X:203:PRO:HA	1.92	0.51
1:X:241:LEU:HD13	1:S:94:LYS:H	1.76	0.51
1:X:468:THR:HB	1:X:469:PRO:HD3	1.93	0.51
1:Z:94:LYS:H	1:C:241:LEU:CD1	2.24	0.51
1:a:359:ILE:HG21	1:a:370:LYS:HE2	1.93	0.51
1:b:94:LYS:H	1:c:241:LEU:CD1	2.24	0.51
1:I:241:LEU:HD13	1:M:94:LYS:H	1.76	0.51
1:e:468:THR:HB	1:e:469:PRO:HD3	1.93	0.51
1:g:94:LYS:H	1:h:241:LEU:CD1	2.24	0.51
1:m:468:THR:HB	1:m:469:PRO:HD3	1.93	0.51
1:o:259:ASP:HB2	1:o:411:ASN:HA	1.93	0.51
1:p:82:ASN:N	1:p:439:ASP:OD2	2.35	0.51
1:p:405:PHE:CD2	1:p:454:TYR:HE1	2.28	0.51
1:t:241:LEU:HD13	1:F:94:LYS:H	1.76	0.51
1:x:359:ILE:HG21	1:x:370:LYS:HE2	1.93	0.51
1:y:259:ASP:HB2	1:y:411:ASN:HA	1.93	0.51
1:O:94:LYS:H	1:z:241:LEU:CD1	2.24	0.51
1:O:359:ILE:HG21	1:O:370:LYS:HE2	1.92	0.51
1:D:359:ILE:HG21	1:D:370:LYS:HE2	1.92	0.51
1:E:259:ASP:HB2	1:E:411:ASN:HA	1.93	0.51
1:G:468:THR:HB	1:G:469:PRO:HD3	1.93	0.51
1:R:405:PHE:CD2	1:R:454:TYR:HE1	2.28	0.51
1:U:359:ILE:HG21	1:U:370:LYS:HE2	1.93	0.51
1:W:359:ILE:HG21	1:W:370:LYS:HE2	1.92	0.51
1:C:259:ASP:HB2	1:C:411:ASN:HA	1.93	0.51
1:a:405:PHE:CD2	1:a:454:TYR:HE1	2.28	0.51
1:b:57:PRO:HB3	1:m:204:THR:HG21	1.93	0.51
1:5:468:THR:HB	1:5:469:PRO:HD3	1.93	0.51
1:6:468:THR:HB	1:6:469:PRO:HD3	1.93	0.51
1:I:468:THR:HB	1:I:469:PRO:HD3	1.93	0.51
1:h:155:THR:HB	1:h:203:PRO:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:259:ASP:HB2	1:n:411:ASN:HA	1.93	0.51
1:p:359:ILE:HG21	1:p:370:LYS:HE2	1.92	0.51
1:q:94:LYS:H	1:r:241:LEU:CD1	2.24	0.51
1:t:155:THR:HB	1:t:203:PRO:HA	1.92	0.51
1:y:155:THR:HB	1:y:203:PRO:HA	1.92	0.51
1:2:155:THR:HB	1:2:203:PRO:HA	1.92	0.51
1:z:468:THR:HB	1:z:469:PRO:HD3	1.93	0.51
1:D:468:THR:HB	1:D:469:PRO:HD3	1.93	0.51
1:H:468:THR:HB	1:H:469:PRO:HD3	1.93	0.51
1:Q:82:ASN:N	1:Q:439:ASP:OD2	2.35	0.51
1:T:468:THR:HB	1:T:469:PRO:HD3	1.93	0.51
1:U:94:LYS:H	1:V:241:LEU:CD1	2.24	0.51
1:V:155:THR:HB	1:V:203:PRO:HA	1.92	0.51
1:Z:468:THR:HB	1:Z:469:PRO:HD3	1.93	0.51
1:4:82:ASN:N	1:4:439:ASP:OD2	2.35	0.50
1:4:281:GLY:O	1:4:298:ILE:N	2.41	0.50
1:L:82:ASN:N	1:L:439:ASP:OD2	2.35	0.50
1:M:281:GLY:O	1:M:298:ILE:N	2.41	0.50
1:j:259:ASP:HB2	1:j:411:ASN:HA	1.93	0.50
1:n:468:THR:HB	1:n:469:PRO:HD3	1.93	0.50
1:r:259:ASP:HB2	1:r:411:ASN:HA	1.93	0.50
1:v:259:ASP:HB2	1:v:411:ASN:HA	1.93	0.50
1:y:359:ILE:HG21	1:y:370:LYS:HE2	1.93	0.50
1:z:259:ASP:HB2	1:z:411:ASN:HA	1.93	0.50
1:F:259:ASP:HB2	1:F:411:ASN:HA	1.93	0.50
1:Q:468:THR:HB	1:Q:469:PRO:HD3	1.93	0.50
1:U:155:THR:HB	1:U:203:PRO:HA	1.93	0.50
1:U:230:THR:HG22	1:U:233:ASN:H	1.77	0.50
1:U:259:ASP:HB2	1:U:411:ASN:HA	1.93	0.50
1:c:82:ASN:N	1:c:439:ASP:OD2	2.35	0.50
1:c:259:ASP:HB2	1:c:411:ASN:HA	1.93	0.50
1:5:94:LYS:H	1:6:241:LEU:CD1	2.24	0.50
1:K:468:THR:HB	1:K:469:PRO:HD3	1.93	0.50
1:f:155:THR:HB	1:f:203:PRO:HA	1.92	0.50
1:h:259:ASP:HB2	1:h:411:ASN:HA	1.93	0.50
1:i:468:THR:HB	1:i:469:PRO:HD3	1.93	0.50
1:l:359:ILE:HG21	1:l:370:LYS:HE2	1.93	0.50
1:n:82:ASN:N	1:n:439:ASP:OD2	2.35	0.50
1:p:300:LEU:HB2	1:p:334:PRO:HD3	1.94	0.50
1:r:230:THR:HG22	1:r:233:ASN:H	1.77	0.50
1:r:300:LEU:HB2	1:r:334:PRO:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:259:ASP:HB2	1:O:411:ASN:HA	1.93	0.50
1:D:57:PRO:HB3	1:V:204:THR:HG21	1.93	0.50
1:G:82:ASN:N	1:G:439:ASP:OD2	2.35	0.50
1:G:259:ASP:HB2	1:G:411:ASN:HA	1.93	0.50
1:N:94:LYS:H	1:P:241:LEU:CD1	2.24	0.50
1:R:259:ASP:HB2	1:R:411:ASN:HA	1.93	0.50
1:U:82:ASN:N	1:U:439:ASP:OD2	2.35	0.50
1:W:468:THR:HB	1:W:469:PRO:HD3	1.93	0.50
1:a:300:LEU:HB2	1:a:334:PRO:HD3	1.94	0.50
1:c:300:LEU:HB2	1:c:334:PRO:HD3	1.94	0.50
1:4:300:LEU:HB2	1:4:334:PRO:HD3	1.94	0.50
1:5:281:GLY:O	1:5:298:ILE:N	2.41	0.50
1:7:259:ASP:HB2	1:7:411:ASN:HA	1.93	0.50
1:7:468:THR:HB	1:7:469:PRO:HD3	1.93	0.50
1:I:281:GLY:O	1:I:298:ILE:N	2.41	0.50
1:J:82:ASN:N	1:J:439:ASP:OD2	2.35	0.50
1:h:230:THR:HG22	1:h:233:ASN:H	1.77	0.50
1:h:359:ILE:HG21	1:h:370:LYS:HE2	1.93	0.50
1:i:259:ASP:HB2	1:i:411:ASN:HA	1.93	0.50
1:k:468:THR:HB	1:k:469:PRO:HD3	1.93	0.50
1:m:259:ASP:HB2	1:m:411:ASN:HA	1.93	0.50
1:v:468:THR:HB	1:v:469:PRO:HD3	1.93	0.50
1:w:94:LYS:H	1:x:241:LEU:CD1	2.24	0.50
1:x:405:PHE:CD2	1:x:454:TYR:HE1	2.28	0.50
1:y:468:THR:HB	1:y:469:PRO:HD3	1.93	0.50
1:A:155:THR:HB	1:A:203:PRO:HA	1.92	0.50
1:D:300:LEU:HB2	1:D:334:PRO:HD3	1.94	0.50
1:F:359:ILE:HG21	1:F:370:LYS:HE2	1.93	0.50
1:P:155:THR:HB	1:P:203:PRO:HA	1.92	0.50
1:P:359:ILE:HG21	1:P:370:LYS:HE2	1.93	0.50
1:T:259:ASP:HB2	1:T:411:ASN:HA	1.93	0.50
1:Z:300:LEU:HB2	1:Z:334:PRO:HD3	1.94	0.50
1:S:259:ASP:HB2	1:S:411:ASN:HA	1.93	0.50
1:b:230:THR:HG22	1:b:233:ASN:H	1.77	0.50
1:c:230:THR:HG22	1:c:233:ASN:H	1.77	0.50
1:J:259:ASP:HB2	1:J:411:ASN:HA	1.93	0.50
1:J:300:LEU:HB2	1:J:334:PRO:HD3	1.94	0.50
1:L:300:LEU:HB2	1:L:334:PRO:HD3	1.94	0.50
1:k:230:THR:HG22	1:k:233:ASN:H	1.77	0.50
1:l:155:THR:HB	1:l:203:PRO:HA	1.92	0.50
1:w:468:THR:HB	1:w:469:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:468:THR:HB	1:1:469:PRO:HD3	1.93	0.50
1:2:300:LEU:HB2	1:2:334:PRO:HD3	1.94	0.50
1:2:359:ILE:HG21	1:2:370:LYS:HE2	1.93	0.50
1:A:359:ILE:HG21	1:A:370:LYS:HE2	1.92	0.50
1:B:468:THR:HB	1:B:469:PRO:HD3	1.93	0.50
1:D:259:ASP:HB2	1:D:411:ASN:HA	1.93	0.50
1:F:468:THR:HB	1:F:469:PRO:HD3	1.93	0.50
1:G:241:LEU:HD13	1:Q:94:LYS:H	1.76	0.50
1:H:259:ASP:HB2	1:H:411:ASN:HA	1.93	0.50
1:N:259:ASP:HB2	1:N:411:ASN:HA	1.93	0.50
1:P:468:THR:HB	1:P:469:PRO:HD3	1.93	0.50
1:R:300:LEU:HB2	1:R:334:PRO:HD3	1.94	0.50
1:R:359:ILE:HG21	1:R:370:LYS:HE2	1.92	0.50
1:Y:230:THR:HG22	1:Y:233:ASN:H	1.77	0.50
1:Z:259:ASP:HB2	1:Z:411:ASN:HA	1.94	0.50
1:S:359:ILE:HG21	1:S:370:LYS:HE2	1.93	0.50
1:S:468:THR:HB	1:S:469:PRO:HD3	1.93	0.50
1:a:82:ASN:N	1:a:439:ASP:OD2	2.35	0.50
1:a:230:THR:HG22	1:a:233:ASN:H	1.77	0.50
1:a:259:ASP:HB2	1:a:411:ASN:HA	1.93	0.50
1:d:155:THR:HB	1:d:203:PRO:HA	1.92	0.50
1:J:230:THR:HG22	1:J:233:ASN:H	1.77	0.50
1:K:94:LYS:H	1:L:241:LEU:CD1	2.24	0.50
1:K:259:ASP:HB2	1:K:411:ASN:HA	1.93	0.50
1:K:300:LEU:HB2	1:K:334:PRO:HD3	1.94	0.50
1:e:259:ASP:HB2	1:e:411:ASN:HA	1.93	0.50
1:g:259:ASP:HB2	1:g:411:ASN:HA	1.93	0.50
1:g:300:LEU:HB2	1:g:334:PRO:HD3	1.94	0.50
1:j:241:LEU:HD13	1:n:94:LYS:H	1.76	0.50
1:l:230:THR:HG22	1:l:233:ASN:H	1.77	0.50
1:q:230:THR:HG22	1:q:233:ASN:H	1.77	0.50
1:x:259:ASP:HB2	1:x:411:ASN:HA	1.93	0.50
1:B:230:THR:HG22	1:B:233:ASN:H	1.77	0.50
1:E:359:ILE:HG21	1:E:370:LYS:HE2	1.92	0.50
1:G:230:THR:HG22	1:G:233:ASN:H	1.77	0.50
1:Q:230:THR:HG22	1:Q:233:ASN:H	1.77	0.50
1:R:241:LEU:HD13	1:W:94:LYS:H	1.76	0.50
1:Y:359:ILE:HG21	1:Y:370:LYS:HE2	1.93	0.50
1:3:230:THR:HG22	1:3:233:ASN:H	1.77	0.50
1:3:259:ASP:HB2	1:3:411:ASN:HA	1.93	0.50
1:3:281:GLY:O	1:3:298:ILE:N	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:468:THR:HB	1:3:469:PRO:HD3	1.93	0.50
1:5:230:THR:HG22	1:5:233:ASN:H	1.77	0.50
1:6:300:LEU:HB2	1:6:334:PRO:HD3	1.94	0.50
1:7:300:LEU:HB2	1:7:334:PRO:HD3	1.94	0.50
1:J:468:THR:HB	1:J:469:PRO:HD3	1.93	0.50
1:M:259:ASP:HB2	1:M:411:ASN:HA	1.93	0.50
1:M:468:THR:HB	1:M:469:PRO:HD3	1.93	0.50
1:k:82:ASN:N	1:k:439:ASP:OD2	2.35	0.50
1:l:94:LYS:H	1:m:241:LEU:CD1	2.24	0.50
1:l:468:THR:HB	1:l:469:PRO:HD3	1.93	0.50
1:p:230:THR:HG22	1:p:233:ASN:H	1.77	0.50
1:r:82:ASN:N	1:r:439:ASP:OD2	2.35	0.50
1:s:155:THR:HB	1:s:203:PRO:HA	1.92	0.50
1:u:155:THR:HB	1:u:203:PRO:HA	1.93	0.50
1:w:359:ILE:HG21	1:w:370:LYS:HE2	1.92	0.50
1:y:300:LEU:HB2	1:y:334:PRO:HD3	1.94	0.50
1:O:405:PHE:CD2	1:O:454:TYR:HE1	2.28	0.50
1:A:300:LEU:HB2	1:A:334:PRO:HD3	1.94	0.50
1:B:359:ILE:HG21	1:B:370:LYS:HE2	1.93	0.50
1:D:230:THR:HG22	1:D:233:ASN:H	1.77	0.50
1:P:230:THR:HG22	1:P:233:ASN:H	1.77	0.50
1:W:259:ASP:HB2	1:W:411:ASN:HA	1.93	0.50
1:Y:468:THR:HB	1:Y:469:PRO:HD3	1.93	0.50
1:c:155:THR:HB	1:c:203:PRO:HA	1.92	0.50
1:6:259:ASP:HB2	1:6:411:ASN:HA	1.93	0.50
1:K:82:ASN:N	1:K:439:ASP:OD2	2.35	0.50
1:M:230:THR:HG22	1:M:233:ASN:H	1.77	0.50
1:f:57:PRO:HB3	1:v:204:THR:HG21	1.94	0.50
1:g:359:ILE:HG21	1:g:370:LYS:HE2	1.93	0.50
1:i:359:ILE:HG21	1:i:370:LYS:HE2	1.92	0.50
1:j:468:THR:HB	1:j:469:PRO:HD3	1.93	0.50
1:k:281:GLY:O	1:k:298:ILE:N	2.41	0.50
1:l:94:LYS:H	1:m:241:LEU:HD13	1.75	0.50
1:o:155:THR:HB	1:o:203:PRO:HA	1.92	0.50
1:p:259:ASP:HB2	1:p:411:ASN:HA	1.93	0.50
1:q:300:LEU:HB2	1:q:334:PRO:HD3	1.94	0.50
1:t:359:ILE:HG21	1:t:370:LYS:HE2	1.93	0.50
1:u:359:ILE:HG21	1:u:370:LYS:HE2	1.92	0.50
1:2:468:THR:HB	1:2:469:PRO:HD3	1.93	0.50
1:Q:281:GLY:O	1:Q:298:ILE:N	2.41	0.50
1:V:82:ASN:N	1:V:439:ASP:OD2	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:82:ASN:N	1:X:439:ASP:OD2	2.35	0.50
1:X:359:ILE:HG21	1:X:370:LYS:HE2	1.93	0.50
1:Z:230:THR:HG22	1:Z:233:ASN:H	1.77	0.50
1:C:300:LEU:HB2	1:C:334:PRO:HD3	1.94	0.50
1:a:468:THR:HB	1:a:469:PRO:HD3	1.93	0.50
1:b:82:ASN:N	1:b:439:ASP:OD2	2.35	0.50
1:b:300:LEU:HB2	1:b:334:PRO:HD3	1.94	0.50
1:d:468:THR:HB	1:d:469:PRO:HD3	1.93	0.50
1:3:359:ILE:HG21	1:3:370:LYS:HE2	1.92	0.50
1:7:230:THR:HG22	1:7:233:ASN:H	1.77	0.50
1:I:230:THR:HG22	1:I:233:ASN:H	1.77	0.50
1:L:259:ASP:HB2	1:L:411:ASN:HA	1.93	0.50
1:M:359:ILE:HG21	1:M:370:LYS:HE2	1.92	0.50
1:g:155:THR:HB	1:g:203:PRO:HA	1.92	0.50
1:m:155:THR:HB	1:m:203:PRO:HA	1.92	0.50
1:n:230:THR:HG22	1:n:233:ASN:H	1.77	0.50
1:n:359:ILE:HG21	1:n:370:LYS:HE2	1.92	0.50
1:t:82:ASN:N	1:t:439:ASP:OD2	2.35	0.50
1:u:300:LEU:HB2	1:u:334:PRO:HD3	1.94	0.50
1:v:230:THR:HG22	1:v:233:ASN:H	1.77	0.50
1:l:241:LEU:HD13	1:A:94:LYS:H	1.76	0.50
1:z:230:THR:HG22	1:z:233:ASN:H	1.77	0.50
1:z:359:ILE:HG21	1:z:370:LYS:HE2	1.92	0.50
1:F:230:THR:HG22	1:F:233:ASN:H	1.77	0.50
1:G:300:LEU:HB2	1:G:334:PRO:HD3	1.94	0.50
1:N:468:THR:HB	1:N:469:PRO:HD3	1.93	0.50
1:R:155:THR:HB	1:R:203:PRO:HA	1.92	0.50
1:X:300:LEU:HB2	1:X:334:PRO:HD3	1.94	0.50
1:C:359:ILE:HG21	1:C:370:LYS:HE2	1.93	0.50
1:S:230:THR:HG22	1:S:233:ASN:H	1.77	0.50
1:b:259:ASP:HB2	1:b:411:ASN:HA	1.93	0.50
1:4:259:ASP:HB2	1:4:411:ASN:HA	1.93	0.50
1:6:230:THR:HG22	1:6:233:ASN:H	1.77	0.50
1:J:359:ILE:HG21	1:J:370:LYS:HE2	1.93	0.50
1:j:300:LEU:HB2	1:j:334:PRO:HD3	1.94	0.50
1:m:359:ILE:HG21	1:m:370:LYS:HE2	1.92	0.50
1:n:300:LEU:HB2	1:n:334:PRO:HD3	1.94	0.50
1:o:241:LEU:HD13	1:s:94:LYS:H	1.76	0.50
1:p:468:THR:HB	1:p:469:PRO:HD3	1.93	0.50
1:r:155:THR:HB	1:r:203:PRO:HA	1.92	0.50
1:s:468:THR:HB	1:s:469:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:359:ILE:HG21	1:v:370:LYS:HE2	1.93	0.50
1:x:468:THR:HB	1:x:469:PRO:HD3	1.93	0.50
1:1:359:ILE:HG21	1:1:370:LYS:HE2	1.93	0.50
1:E:300:LEU:HB2	1:E:334:PRO:HD3	1.94	0.50
1:G:449:LEU:O	1:G:451:ASP:N	2.45	0.50
1:H:155:THR:HB	1:H:203:PRO:HA	1.92	0.50
1:P:300:LEU:HB2	1:P:334:PRO:HD3	1.94	0.50
1:R:94:LYS:CA	1:U:241:LEU:HD13	2.42	0.50
1:Y:300:LEU:HB2	1:Y:334:PRO:HD3	1.94	0.50
1:O:241:LEU:HD13	1:d:94:LYS:H	1.76	0.49
1:d:114:GLU:OE2	1:d:119:HIS:ND1	2.45	0.49
1:3:94:LYS:CA	1:5:241:LEU:HD13	2.42	0.49
1:5:94:LYS:H	1:6:241:LEU:HD13	1.75	0.49
1:7:359:ILE:HG21	1:7:370:LYS:HE2	1.93	0.49
1:J:281:GLY:O	1:J:298:ILE:N	2.41	0.49
1:L:230:THR:HG22	1:L:233:ASN:H	1.77	0.49
1:e:241:LEU:HD13	1:i:94:LYS:H	1.76	0.49
1:j:230:THR:HG22	1:j:233:ASN:H	1.77	0.49
1:m:449:LEU:O	1:m:451:ASP:N	2.45	0.49
1:n:449:LEU:O	1:n:451:ASP:N	2.45	0.49
1:q:55:TRP:O	1:H:204:THR:OG1	2.28	0.49
1:q:82:ASN:N	1:q:439:ASP:OD2	2.35	0.49
1:q:259:ASP:HB2	1:q:411:ASN:HA	1.93	0.49
1:s:114:GLU:OE2	1:s:119:HIS:ND1	2.45	0.49
1:s:259:ASP:HB2	1:s:411:ASN:HA	1.93	0.49
1:s:300:LEU:HB2	1:s:334:PRO:HD3	1.94	0.49
1:v:55:TRP:O	1:Z:204:THR:OG1	2.20	0.49
1:w:449:LEU:O	1:w:451:ASP:N	2.45	0.49
1:y:82:ASN:N	1:y:439:ASP:OD2	2.35	0.49
1:2:82:ASN:N	1:2:439:ASP:OD2	2.35	0.49
1:O:300:LEU:HB2	1:O:334:PRO:HD3	1.94	0.49
1:B:300:LEU:HB2	1:B:334:PRO:HD3	1.94	0.49
1:B:449:LEU:O	1:B:451:ASP:N	2.45	0.49
1:G:359:ILE:HG21	1:G:370:LYS:HE2	1.92	0.49
1:H:359:ILE:HG21	1:H:370:LYS:HE2	1.92	0.49
1:H:449:LEU:O	1:H:451:ASP:N	2.45	0.49
1:N:230:THR:HG22	1:N:233:ASN:H	1.77	0.49
1:N:300:LEU:HB2	1:N:334:PRO:HD3	1.94	0.49
1:N:449:LEU:O	1:N:451:ASP:N	2.45	0.49
1:P:259:ASP:HB2	1:P:411:ASN:HA	1.93	0.49
1:W:449:LEU:O	1:W:451:ASP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:94:LYS:H	1:S:241:LEU:HD13	1.77	0.49
1:Y:449:LEU:O	1:Y:451:ASP:N	2.45	0.49
1:O:155:THR:HB	1:O:203:PRO:HA	1.92	0.49
1:d:259:ASP:HB2	1:d:411:ASN:HA	1.93	0.49
1:d:300:LEU:HB2	1:d:334:PRO:HD3	1.94	0.49
1:6:82:ASN:N	1:6:439:ASP:OD2	2.35	0.49
1:I:300:LEU:HB2	1:I:334:PRO:HD3	1.94	0.49
1:I:449:LEU:O	1:I:451:ASP:N	2.45	0.49
1:K:230:THR:HG22	1:K:233:ASN:H	1.77	0.49
1:M:300:LEU:HB2	1:M:334:PRO:HD3	1.94	0.49
1:f:94:LYS:H	1:i:241:LEU:HD13	1.77	0.49
1:j:449:LEU:O	1:j:451:ASP:N	2.45	0.49
1:l:300:LEU:HB2	1:l:334:PRO:HD3	1.94	0.49
1:o:449:LEU:O	1:o:451:ASP:N	2.45	0.49
1:o:468:THR:HB	1:o:469:PRO:HD3	1.93	0.49
1:v:449:LEU:O	1:v:451:ASP:N	2.45	0.49
1:x:300:LEU:HB2	1:x:334:PRO:HD3	1.94	0.49
1:1:449:LEU:O	1:1:451:ASP:N	2.45	0.49
1:z:449:LEU:O	1:z:451:ASP:N	2.45	0.49
1:B:94:LYS:H	1:F:241:LEU:HD13	1.78	0.49
1:H:230:THR:HG22	1:H:233:ASN:H	1.77	0.49
1:U:468:THR:HB	1:U:469:PRO:HD3	1.93	0.49
1:V:300:LEU:HB2	1:V:334:PRO:HD3	1.94	0.49
1:C:468:THR:HB	1:C:469:PRO:HD3	1.93	0.49
1:S:300:LEU:HB2	1:S:334:PRO:HD3	1.94	0.49
1:O:468:THR:HB	1:O:469:PRO:HD3	1.93	0.49
1:3:300:LEU:HB2	1:3:334:PRO:HD3	1.94	0.49
1:4:230:THR:HG22	1:4:233:ASN:H	1.77	0.49
1:5:300:LEU:HB2	1:5:334:PRO:HD3	1.94	0.49
1:5:449:LEU:O	1:5:451:ASP:N	2.45	0.49
1:e:300:LEU:HB2	1:e:334:PRO:HD3	1.94	0.49
1:g:230:THR:HG22	1:g:233:ASN:H	1.77	0.49
1:h:281:GLY:O	1:h:298:ILE:N	2.41	0.49
1:h:468:THR:HB	1:h:469:PRO:HD3	1.93	0.49
1:l:259:ASP:HB2	1:l:411:ASN:HA	1.93	0.49
1:m:230:THR:HG22	1:m:233:ASN:H	1.77	0.49
1:t:114:GLU:OE2	1:t:119:HIS:ND1	2.45	0.49
1:t:300:LEU:HB2	1:t:334:PRO:HD3	1.94	0.49
1:v:94:LYS:H	1:y:241:LEU:HD13	1.77	0.49
1:v:300:LEU:HB2	1:v:334:PRO:HD3	1.94	0.49
1:1:94:LYS:CA	1:O:241:LEU:HD13	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:230:THR:HG22	1:2:233:ASN:H	1.77	0.49
1:z:300:LEU:HB2	1:z:334:PRO:HD3	1.94	0.49
1:F:300:LEU:HB2	1:F:334:PRO:HD3	1.94	0.49
1:T:300:LEU:HB2	1:T:334:PRO:HD3	1.94	0.49
1:T:359:ILE:HG21	1:T:370:LYS:HE2	1.93	0.49
1:V:259:ASP:HB2	1:V:411:ASN:HA	1.93	0.49
1:0:449:LEU:O	1:0:451:ASP:N	2.45	0.49
1:c:468:THR:HB	1:c:469:PRO:HD3	1.93	0.49
1:e:449:LEU:O	1:e:451:ASP:N	2.45	0.49
1:f:281:GLY:O	1:f:298:ILE:N	2.41	0.49
1:f:300:LEU:HB2	1:f:334:PRO:HD3	1.94	0.49
1:t:259:ASP:HB2	1:t:411:ASN:HA	1.93	0.49
1:y:230:THR:HG22	1:y:233:ASN:H	1.77	0.49
1:2:94:LYS:H	1:A:241:LEU:HD13	1.78	0.49
1:2:464:ASN:CB	1:2:465:PRO:HD3	2.43	0.49
1:O:468:THR:HB	1:O:469:PRO:HD3	1.93	0.49
1:E:468:THR:HB	1:E:469:PRO:HD3	1.93	0.49
1:X:114:GLU:OE2	1:X:119:HIS:ND1	2.45	0.49
1:0:92:PRO:CB	1:b:390:ARG:NH1	2.76	0.49
1:b:449:LEU:O	1:b:451:ASP:N	2.45	0.49
1:6:281:GLY:O	1:6:298:ILE:N	2.41	0.49
1:7:281:GLY:O	1:7:298:ILE:N	2.41	0.49
1:J:449:LEU:O	1:J:451:ASP:N	2.45	0.49
1:M:449:LEU:O	1:M:451:ASP:N	2.45	0.49
1:e:94:LYS:CA	1:g:241:LEU:HD13	2.42	0.49
1:f:259:ASP:HB2	1:f:411:ASN:HA	1.93	0.49
1:q:449:LEU:O	1:q:451:ASP:N	2.45	0.49
1:v:464:ASN:CB	1:v:465:PRO:HD3	2.43	0.49
1:y:464:ASN:CB	1:y:465:PRO:HD3	2.43	0.49
1:1:92:PRO:CB	1:O:390:ARG:NH1	2.76	0.49
1:1:230:THR:HG22	1:1:233:ASN:H	1.77	0.49
1:1:259:ASP:HB2	1:1:411:ASN:HA	1.93	0.49
1:2:241:LEU:HD13	1:z:94:LYS:CA	2.40	0.49
1:A:464:ASN:CB	1:A:465:PRO:HD3	2.43	0.49
1:B:114:GLU:OE2	1:B:119:HIS:ND1	2.45	0.49
1:V:230:THR:HG22	1:V:233:ASN:H	1.77	0.49
1:W:300:LEU:HB2	1:W:334:PRO:HD3	1.94	0.49
1:X:230:THR:HG22	1:X:233:ASN:H	1.77	0.49
1:X:259:ASP:HB2	1:X:411:ASN:HA	1.93	0.49
1:Y:281:GLY:O	1:Y:298:ILE:N	2.41	0.49
1:0:464:ASN:CB	1:0:465:PRO:HD3	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:468:THR:HB	1:b:469:PRO:HD3	1.93	0.49
1:3:449:LEU:O	1:3:451:ASP:N	2.45	0.49
1:3:464:ASN:CB	1:3:465:PRO:HD3	2.43	0.49
1:7:449:LEU:O	1:7:451:ASP:N	2.45	0.49
1:J:94:LYS:H	1:M:241:LEU:HD13	1.77	0.49
1:M:464:ASN:CB	1:M:465:PRO:HD3	2.43	0.49
1:f:468:THR:HB	1:f:469:PRO:HD3	1.93	0.49
1:j:92:PRO:CB	1:l:390:ARG:NH1	2.76	0.49
1:o:92:PRO:CB	1:q:390:ARG:NH1	2.76	0.49
1:r:449:LEU:O	1:r:451:ASP:N	2.45	0.49
1:r:464:ASN:CB	1:r:465:PRO:HD3	2.43	0.49
1:r:468:THR:HB	1:r:469:PRO:HD3	1.93	0.49
1:s:449:LEU:O	1:s:451:ASP:N	2.45	0.49
1:t:230:THR:HG22	1:t:233:ASN:H	1.77	0.49
1:u:230:THR:HG22	1:u:233:ASN:H	1.77	0.49
1:w:464:ASN:CB	1:w:465:PRO:HD3	2.43	0.49
1:G:94:LYS:CA	1:N:241:LEU:HD13	2.42	0.49
1:N:464:ASN:CB	1:N:465:PRO:HD3	2.43	0.49
1:V:281:GLY:O	1:V:298:ILE:N	2.41	0.49
1:Y:114:GLU:OE2	1:Y:119:HIS:ND1	2.45	0.49
1:O:230:THR:HG22	1:O:233:ASN:H	1.77	0.49
1:c:449:LEU:O	1:c:451:ASP:N	2.45	0.49
1:d:449:LEU:O	1:d:451:ASP:N	2.45	0.49
1:3:92:PRO:CB	1:5:390:ARG:NH1	2.76	0.49
1:4:464:ASN:CB	1:4:465:PRO:HD3	2.43	0.49
1:6:464:ASN:CB	1:6:465:PRO:HD3	2.43	0.49
1:I:259:ASP:HB2	1:I:411:ASN:HA	1.93	0.49
1:K:464:ASN:CB	1:K:465:PRO:HD3	2.43	0.49
1:k:94:LYS:H	1:n:241:LEU:HD13	1.78	0.49
1:o:464:ASN:CB	1:o:465:PRO:HD3	2.43	0.49
1:q:464:ASN:CB	1:q:465:PRO:HD3	2.43	0.49
1:u:92:PRO:CB	1:w:390:ARG:NH1	2.76	0.49
1:w:230:THR:HG22	1:w:233:ASN:H	1.77	0.49
1:y:281:GLY:O	1:y:298:ILE:N	2.41	0.49
1:1:300:LEU:HB2	1:1:334:PRO:HD3	1.94	0.49
1:1:464:ASN:CB	1:1:465:PRO:HD3	2.43	0.49
1:D:114:GLU:OE2	1:D:119:HIS:ND1	2.45	0.49
1:E:114:GLU:OE2	1:E:119:HIS:ND1	2.45	0.49
1:R:230:THR:HG22	1:R:233:ASN:H	1.77	0.49
1:V:468:THR:HB	1:V:469:PRO:HD3	1.93	0.49
1:X:94:LYS:CA	1:Z:241:LEU:HD13	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:449:LEU:O	1:X:451:ASP:N	2.45	0.49
1:Z:114:GLU:OE2	1:Z:119:HIS:ND1	2.45	0.49
1:0:175:LEU:HD21	1:0:229:LEU:HD13	1.95	0.49
1:0:300:LEU:HB2	1:0:334:PRO:HD3	1.94	0.49
1:b:464:ASN:CB	1:b:465:PRO:HD3	2.43	0.49
1:c:464:ASN:CB	1:c:465:PRO:HD3	2.43	0.49
1:5:464:ASN:CB	1:5:465:PRO:HD3	2.43	0.49
1:I:464:ASN:CB	1:I:465:PRO:HD3	2.43	0.49
1:K:449:LEU:O	1:K:451:ASP:N	2.45	0.49
1:L:464:ASN:CB	1:L:465:PRO:HD3	2.43	0.49
1:e:281:GLY:O	1:e:298:ILE:N	2.41	0.49
1:e:464:ASN:CB	1:e:465:PRO:HD3	2.43	0.49
1:i:464:ASN:CB	1:i:465:PRO:HD3	2.43	0.49
1:j:464:ASN:CB	1:j:465:PRO:HD3	2.43	0.49
1:t:94:LYS:CA	1:D:241:LEU:HD13	2.42	0.49
1:t:449:LEU:O	1:t:451:ASP:N	2.45	0.49
1:t:464:ASN:CB	1:t:465:PRO:HD3	2.43	0.49
1:u:94:LYS:CA	1:w:241:LEU:HD13	2.42	0.49
1:u:464:ASN:CB	1:u:465:PRO:HD3	2.43	0.49
1:v:114:GLU:OE2	1:v:119:HIS:ND1	2.45	0.49
1:v:175:LEU:HD21	1:v:229:LEU:HD13	1.95	0.49
1:z:175:LEU:HD21	1:z:229:LEU:HD13	1.95	0.49
1:z:464:ASN:CB	1:z:465:PRO:HD3	2.43	0.49
1:B:259:ASP:HB2	1:B:411:ASN:HA	1.93	0.49
1:G:92:PRO:CB	1:N:390:ARG:NH1	2.76	0.49
1:X:464:ASN:CB	1:X:465:PRO:HD3	2.43	0.49
1:Y:259:ASP:HB2	1:Y:411:ASN:HA	1.93	0.49
1:c:175:LEU:HD21	1:c:229:LEU:HD13	1.95	0.49
1:d:312:TRP:HZ3	1:d:326:PHE:HB2	1.78	0.49
1:J:464:ASN:CB	1:J:465:PRO:HD3	2.43	0.49
1:K:281:GLY:O	1:K:298:ILE:N	2.41	0.49
1:L:259:ASP:OD2	1:L:411:ASN:HB3	2.13	0.49
1:f:82:ASN:N	1:f:439:ASP:OD2	2.35	0.49
1:f:230:THR:HG22	1:f:233:ASN:H	1.77	0.49
1:p:464:ASN:CB	1:p:465:PRO:HD3	2.43	0.49
1:q:468:THR:HB	1:q:469:PRO:HD3	1.93	0.49
1:s:312:TRP:HZ3	1:s:326:PHE:HB2	1.78	0.49
1:w:82:ASN:N	1:w:439:ASP:OD2	2.35	0.49
1:1:82:ASN:N	1:1:439:ASP:OD2	2.35	0.49
1:2:114:GLU:OE2	1:2:119:HIS:ND1	2.45	0.49
1:2:312:TRP:HZ3	1:2:326:PHE:HB2	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:114:GLU:OE2	1:z:119:HIS:ND1	2.45	0.49
1:A:230:THR:HG22	1:A:233:ASN:H	1.77	0.49
1:D:175:LEU:HD21	1:D:229:LEU:HD13	1.95	0.49
1:G:175:LEU:HD21	1:G:229:LEU:HD13	1.95	0.49
1:G:312:TRP:HZ3	1:G:326:PHE:HB2	1.78	0.49
1:H:175:LEU:HD21	1:H:229:LEU:HD13	1.95	0.49
1:R:175:LEU:HD21	1:R:229:LEU:HD13	1.95	0.49
1:T:230:THR:HG22	1:T:233:ASN:H	1.77	0.49
1:T:464:ASN:CB	1:T:465:PRO:HD3	2.43	0.49
1:W:464:ASN:CB	1:W:465:PRO:HD3	2.43	0.49
1:C:114:GLU:OE2	1:C:119:HIS:ND1	2.45	0.49
1:0:312:TRP:HZ3	1:0:326:PHE:HB2	1.78	0.49
1:a:175:LEU:HD21	1:a:229:LEU:HD13	1.95	0.49
1:d:230:THR:HG22	1:d:233:ASN:H	1.77	0.49
1:4:175:LEU:HD21	1:4:229:LEU:HD13	1.95	0.49
1:4:259:ASP:OD2	1:4:411:ASN:HB3	2.13	0.49
1:5:259:ASP:HB2	1:5:411:ASN:HA	1.93	0.49
1:J:175:LEU:HD21	1:J:229:LEU:HD13	1.95	0.49
1:K:175:LEU:HD21	1:K:229:LEU:HD13	1.95	0.49
1:K:259:ASP:OD2	1:K:411:ASN:HB3	2.13	0.49
1:M:312:TRP:HZ3	1:M:326:PHE:HB2	1.78	0.49
1:h:300:LEU:HB2	1:h:334:PRO:HD3	1.94	0.49
1:i:230:THR:HG22	1:i:233:ASN:H	1.77	0.49
1:i:300:LEU:HB2	1:i:334:PRO:HD3	1.94	0.49
1:n:175:LEU:HD21	1:n:229:LEU:HD13	1.95	0.49
1:n:312:TRP:HZ3	1:n:326:PHE:HB2	1.78	0.49
1:o:175:LEU:HD21	1:o:229:LEU:HD13	1.95	0.49
1:o:230:THR:HG22	1:o:233:ASN:H	1.77	0.49
1:o:300:LEU:HB2	1:o:334:PRO:HD3	1.94	0.49
1:o:312:TRP:HZ3	1:o:326:PHE:HB2	1.78	0.49
1:p:175:LEU:HD21	1:p:229:LEU:HD13	1.95	0.49
1:w:259:ASP:HB2	1:w:411:ASN:HA	1.93	0.49
1:w:259:ASP:OD2	1:w:411:ASN:HB3	2.13	0.49
1:y:449:LEU:O	1:y:451:ASP:N	2.45	0.49
1:1:259:ASP:OD2	1:1:411:ASN:HB3	2.13	0.49
1:B:281:GLY:O	1:B:298:ILE:N	2.41	0.49
1:E:464:ASN:CB	1:E:465:PRO:HD3	2.43	0.49
1:F:175:LEU:HD21	1:F:229:LEU:HD13	1.95	0.49
1:Q:259:ASP:HB2	1:Q:411:ASN:HA	1.93	0.49
1:R:92:PRO:CB	1:U:390:ARG:NH1	2.76	0.49
1:U:281:GLY:O	1:U:298:ILE:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:175:LEU:HD21	1:Z:229:LEU:HD13	1.95	0.49
1:C:281:GLY:O	1:C:298:ILE:N	2.41	0.49
1:S:259:ASP:OD2	1:S:411:ASN:HB3	2.13	0.49
1:S:281:GLY:O	1:S:298:ILE:N	2.41	0.49
1:a:236:ILE:HG21	1:c:529:THR:CG2	2.43	0.48
1:a:259:ASP:OD2	1:a:411:ASN:HB3	2.13	0.48
1:a:464:ASN:CB	1:a:465:PRO:HD3	2.43	0.48
1:c:281:GLY:O	1:c:298:ILE:N	2.41	0.48
1:3:312:TRP:HZ3	1:3:326:PHE:HB2	1.78	0.48
1:6:449:LEU:O	1:6:451:ASP:N	2.45	0.48
1:7:175:LEU:HD21	1:7:229:LEU:HD13	1.95	0.48
1:L:175:LEU:HD21	1:L:229:LEU:HD13	1.95	0.48
1:e:92:PRO:CB	1:g:390:ARG:NH1	2.76	0.48
1:f:175:LEU:HD21	1:f:229:LEU:HD13	1.95	0.48
1:f:259:ASP:OD2	1:f:411:ASN:HB3	2.13	0.48
1:g:175:LEU:HD21	1:g:229:LEU:HD13	1.95	0.48
1:g:464:ASN:CB	1:g:465:PRO:HD3	2.43	0.48
1:j:114:GLU:OE2	1:j:119:HIS:ND1	2.45	0.48
1:k:464:ASN:CB	1:k:465:PRO:HD3	2.43	0.48
1:m:175:LEU:HD21	1:m:229:LEU:HD13	1.95	0.48
1:p:236:ILE:HG21	1:r:529:THR:CG2	2.43	0.48
1:r:175:LEU:HD21	1:r:229:LEU:HD13	1.95	0.48
1:u:259:ASP:HB2	1:u:411:ASN:HA	1.93	0.48
1:v:259:ASP:OD2	1:v:411:ASN:HB3	2.13	0.48
1:x:259:ASP:OD2	1:x:411:ASN:HB3	2.13	0.48
1:y:114:GLU:OE2	1:y:119:HIS:ND1	2.45	0.48
1:y:312:TRP:HZ3	1:y:326:PHE:HB2	1.78	0.48
1:2:449:LEU:O	1:2:451:ASP:N	2.45	0.48
1:z:259:ASP:OD2	1:z:411:ASN:HB3	2.13	0.48
1:A:259:ASP:HB2	1:A:411:ASN:HA	1.93	0.48
1:A:468:THR:HB	1:A:469:PRO:HD3	1.93	0.48
1:F:259:ASP:OD2	1:F:411:ASN:HB3	2.13	0.48
1:H:236:ILE:HG21	1:P:529:THR:CG2	2.43	0.48
1:N:114:GLU:OE2	1:N:119:HIS:ND1	2.45	0.48
1:R:464:ASN:CB	1:R:465:PRO:HD3	2.43	0.48
1:V:259:ASP:OD2	1:V:411:ASN:HB3	2.13	0.48
1:Y:464:ASN:CB	1:Y:465:PRO:HD3	2.43	0.48
1:C:464:ASN:CB	1:C:465:PRO:HD3	2.43	0.48
1:S:175:LEU:HD21	1:S:229:LEU:HD13	1.95	0.48
1:4:236:ILE:HG21	1:6:529:THR:CG2	2.43	0.48
1:6:175:LEU:HD21	1:6:229:LEU:HD13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:259:ASP:OD2	1:6:411:ASN:HB3	2.13	0.48
1:6:312:TRP:HZ3	1:6:326:PHE:HB2	1.78	0.48
1:7:464:ASN:CB	1:7:465:PRO:HD3	2.43	0.48
1:g:449:LEU:O	1:g:451:ASP:N	2.45	0.48
1:h:312:TRP:HZ3	1:h:326:PHE:HB2	1.78	0.48
1:i:114:GLU:OE2	1:i:119:HIS:ND1	2.45	0.48
1:j:94:LYS:CA	1:l:241:LEU:HD13	2.42	0.48
1:k:259:ASP:HB2	1:k:411:ASN:HA	1.93	0.48
1:l:449:LEU:O	1:l:451:ASP:N	2.45	0.48
1:p:259:ASP:OD2	1:p:411:ASN:HB3	2.13	0.48
1:s:230:THR:HG22	1:s:233:ASN:H	1.77	0.48
1:w:300:LEU:HB2	1:w:334:PRO:HD3	1.94	0.48
1:O:449:LEU:O	1:O:451:ASP:N	2.45	0.48
1:A:175:LEU:HD21	1:A:229:LEU:HD13	1.95	0.48
1:A:281:GLY:O	1:A:298:ILE:N	2.41	0.48
1:D:449:LEU:O	1:D:451:ASP:N	2.45	0.48
1:E:281:GLY:O	1:E:298:ILE:N	2.41	0.48
1:G:259:ASP:OD2	1:G:411:ASN:HB3	2.13	0.48
1:G:281:GLY:O	1:G:298:ILE:N	2.41	0.48
1:Q:114:GLU:OE2	1:Q:119:HIS:ND1	2.45	0.48
1:Q:464:ASN:CB	1:Q:465:PRO:HD3	2.43	0.48
1:T:114:GLU:OE2	1:T:119:HIS:ND1	2.45	0.48
1:V:464:ASN:CB	1:V:465:PRO:HD3	2.43	0.48
1:W:281:GLY:O	1:W:298:ILE:N	2.41	0.48
1:Y:94:LYS:H	1:S:241:LEU:CD1	2.27	0.48
1:a:449:LEU:O	1:a:451:ASP:N	2.45	0.48
1:b:259:ASP:OD2	1:b:411:ASN:HB3	2.13	0.48
1:c:259:ASP:OD2	1:c:411:ASN:HB3	2.13	0.48
1:K:312:TRP:HZ3	1:K:326:PHE:HB2	1.78	0.48
1:k:236:ILE:HG21	1:m:529:THR:CG2	2.43	0.48
1:n:281:GLY:O	1:n:298:ILE:N	2.41	0.48
1:q:259:ASP:OD2	1:q:411:ASN:HB3	2.13	0.48
1:r:259:ASP:OD2	1:r:411:ASN:HB3	2.13	0.48
1:u:468:THR:HB	1:u:469:PRO:HD3	1.93	0.48
1:v:236:ILE:HG21	1:x:529:THR:CG2	2.43	0.48
1:x:230:THR:HG22	1:x:233:ASN:H	1.77	0.48
1:x:449:LEU:O	1:x:451:ASP:N	2.45	0.48
1:O:259:ASP:OD2	1:O:411:ASN:HB3	2.13	0.48
1:B:464:ASN:CB	1:B:465:PRO:HD3	2.43	0.48
1:D:259:ASP:OD2	1:D:411:ASN:HB3	2.13	0.48
1:F:312:TRP:HZ3	1:F:326:PHE:HB2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:300:LEU:HB2	1:H:334:PRO:HD3	1.94	0.48
1:P:449:LEU:O	1:P:451:ASP:N	2.45	0.48
1:Q:312:TRP:HZ3	1:Q:326:PHE:HB2	1.78	0.48
1:U:300:LEU:HB2	1:U:334:PRO:HD3	1.94	0.48
1:W:259:ASP:OD2	1:W:411:ASN:HB3	2.13	0.48
1:S:312:TRP:HZ3	1:S:326:PHE:HB2	1.78	0.48
1:S:449:LEU:O	1:S:451:ASP:N	2.45	0.48
1:S:464:ASN:CB	1:S:465:PRO:HD3	2.43	0.48
1:d:464:ASN:CB	1:d:465:PRO:HD3	2.43	0.48
1:3:259:ASP:OD2	1:3:411:ASN:HB3	2.13	0.48
1:4:114:GLU:OE2	1:4:119:HIS:ND1	2.45	0.48
1:J:114:GLU:OE2	1:J:119:HIS:ND1	2.45	0.48
1:e:259:ASP:OD2	1:e:411:ASN:HB3	2.13	0.48
1:k:114:GLU:OE2	1:k:119:HIS:ND1	2.45	0.48
1:l:175:LEU:HD21	1:l:229:LEU:HD13	1.95	0.48
1:m:300:LEU:HB2	1:m:334:PRO:HD3	1.94	0.48
1:m:464:ASN:CB	1:m:465:PRO:HD3	2.43	0.48
1:n:259:ASP:OD2	1:n:411:ASN:HB3	2.13	0.48
1:o:259:ASP:OD2	1:o:411:ASN:HB3	2.13	0.48
1:p:449:LEU:O	1:p:451:ASP:N	2.45	0.48
1:s:464:ASN:CB	1:s:465:PRO:HD3	2.43	0.48
1:u:312:TRP:HZ3	1:u:326:PHE:HB2	1.78	0.48
1:v:94:LYS:H	1:y:241:LEU:CD1	2.27	0.48
1:2:281:GLY:O	1:2:298:ILE:N	2.41	0.48
1:O:230:THR:HG22	1:O:233:ASN:H	1.77	0.48
1:A:312:TRP:HZ3	1:A:326:PHE:HB2	1.78	0.48
1:B:94:LYS:H	1:F:241:LEU:CD1	2.27	0.48
1:B:175:LEU:HD21	1:B:229:LEU:HD13	1.95	0.48
1:E:175:LEU:HD21	1:E:229:LEU:HD13	1.95	0.48
1:E:230:THR:HG22	1:E:233:ASN:H	1.77	0.48
1:F:449:LEU:O	1:F:451:ASP:N	2.45	0.48
1:H:464:ASN:CB	1:H:465:PRO:HD3	2.43	0.48
1:Q:449:LEU:O	1:Q:451:ASP:N	2.45	0.48
1:R:449:LEU:O	1:R:451:ASP:N	2.45	0.48
1:U:312:TRP:HZ3	1:U:326:PHE:HB2	1.78	0.48
1:Y:175:LEU:HD21	1:Y:229:LEU:HD13	1.95	0.48
1:Z:259:ASP:OD2	1:Z:411:ASN:HB3	2.13	0.48
1:Z:449:LEU:O	1:Z:451:ASP:N	2.45	0.48
1:C:175:LEU:HD21	1:C:229:LEU:HD13	1.95	0.48
1:c:312:TRP:HZ3	1:c:326:PHE:HB2	1.78	0.48
1:4:94:LYS:H	1:7:241:LEU:CD1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:236:ILE:HG21	1:L:529:THR:CG2	2.43	0.48
1:g:94:LYS:CA	1:h:241:LEU:HD13	2.44	0.48
1:h:449:LEU:O	1:h:451:ASP:N	2.45	0.48
1:i:175:LEU:HD21	1:i:229:LEU:HD13	1.95	0.48
1:i:449:LEU:O	1:i:451:ASP:N	2.45	0.48
1:k:449:LEU:O	1:k:451:ASP:N	2.45	0.48
1:l:464:ASN:CB	1:l:465:PRO:HD3	2.43	0.48
1:o:94:LYS:CA	1:q:241:LEU:HD13	2.42	0.48
1:o:241:LEU:CD1	1:s:94:LYS:H	2.27	0.48
1:r:281:GLY:O	1:r:298:ILE:N	2.41	0.48
1:r:312:TRP:HZ3	1:r:326:PHE:HB2	1.78	0.48
1:t:92:PRO:CB	1:D:390:ARG:NH1	2.76	0.48
1:t:259:ASP:OD2	1:t:411:ASN:HB3	2.13	0.48
1:u:281:GLY:O	1:u:298:ILE:N	2.41	0.48
1:x:464:ASN:CB	1:x:465:PRO:HD3	2.43	0.48
1:O:464:ASN:CB	1:O:465:PRO:HD3	2.43	0.48
1:D:312:TRP:HZ3	1:D:326:PHE:HB2	1.78	0.48
1:F:281:GLY:O	1:F:298:ILE:N	2.41	0.48
1:F:464:ASN:CB	1:F:465:PRO:HD3	2.43	0.48
1:H:114:GLU:OE2	1:H:119:HIS:ND1	2.45	0.48
1:N:209:GLN:HB2	1:U:207:LYS:HE3	1.95	0.48
1:V:114:GLU:OE2	1:V:119:HIS:ND1	2.45	0.48
1:V:175:LEU:HD21	1:V:229:LEU:HD13	1.95	0.48
1:Z:464:ASN:CB	1:Z:465:PRO:HD3	2.43	0.48
1:0:94:LYS:CA	1:b:241:LEU:HD13	2.42	0.48
1:0:241:LEU:CD1	1:d:94:LYS:H	2.27	0.48
1:0:259:ASP:OD2	1:0:411:ASN:HB3	2.13	0.48
1:4:94:LYS:H	1:7:241:LEU:HD13	1.77	0.48
1:7:114:GLU:OE2	1:7:119:HIS:ND1	2.45	0.48
1:I:92:PRO:CB	1:K:390:ARG:NH1	2.76	0.48
1:M:259:ASP:OD2	1:M:411:ASN:HB3	2.13	0.48
1:e:230:THR:HG22	1:e:233:ASN:H	1.77	0.48
1:f:114:GLU:OE2	1:f:119:HIS:ND1	2.45	0.48
1:f:464:ASN:CB	1:f:465:PRO:HD3	2.43	0.48
1:k:94:LYS:H	1:n:241:LEU:CD1	2.27	0.48
1:k:312:TRP:HZ3	1:k:326:PHE:HB2	1.78	0.48
1:l:94:LYS:CA	1:m:241:LEU:HD13	2.44	0.48
1:l:259:ASP:OD2	1:l:411:ASN:HB3	2.13	0.48
1:q:312:TRP:HZ3	1:q:326:PHE:HB2	1.78	0.48
1:r:114:GLU:OE2	1:r:119:HIS:ND1	2.45	0.48
1:u:175:LEU:HD21	1:u:229:LEU:HD13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:175:LEU:HD21	1:1:229:LEU:HD13	1.95	0.48
1:O:175:LEU:HD21	1:O:229:LEU:HD13	1.95	0.48
1:z:312:TRP:HZ3	1:z:326:PHE:HB2	1.78	0.48
1:A:449:LEU:O	1:A:451:ASP:N	2.45	0.48
1:D:464:ASN:CB	1:D:465:PRO:HD3	2.43	0.48
1:G:241:LEU:CD1	1:Q:94:LYS:H	2.27	0.48
1:P:175:LEU:HD21	1:P:229:LEU:HD13	1.95	0.48
1:P:259:ASP:OD2	1:P:411:ASN:HB3	2.13	0.48
1:Q:300:LEU:HB2	1:Q:334:PRO:HD3	1.94	0.48
1:T:259:ASP:OD2	1:T:411:ASN:HB3	2.13	0.48
1:W:312:TRP:HZ3	1:W:326:PHE:HB2	1.78	0.48
1:X:259:ASP:OD2	1:X:411:ASN:HB3	2.13	0.48
1:X:281:GLY:O	1:X:298:ILE:N	2.41	0.48
1:Z:312:TRP:HZ3	1:Z:326:PHE:HB2	1.78	0.48
1:C:230:THR:HG22	1:C:233:ASN:H	1.77	0.48
1:b:312:TRP:HZ3	1:b:326:PHE:HB2	1.78	0.48
1:d:175:LEU:HD21	1:d:229:LEU:HD13	1.95	0.48
1:3:175:LEU:HD21	1:3:229:LEU:HD13	1.95	0.48
1:I:312:TRP:HZ3	1:I:326:PHE:HB2	1.78	0.48
1:L:114:GLU:OE2	1:L:119:HIS:ND1	2.45	0.48
1:e:241:LEU:CD1	1:i:94:LYS:H	2.27	0.48
1:e:312:TRP:HZ3	1:e:326:PHE:HB2	1.78	0.48
1:f:236:ILE:HG21	1:h:529:THR:CG2	2.43	0.48
1:h:464:ASN:CB	1:h:465:PRO:HD3	2.43	0.48
1:m:114:GLU:OE2	1:m:119:HIS:ND1	2.45	0.48
1:w:94:LYS:CA	1:x:241:LEU:HD13	2.44	0.48
1:x:175:LEU:HD21	1:x:229:LEU:HD13	1.95	0.48
1:D:55:TRP:O	1:V:204:THR:OG1	2.15	0.48
1:P:464:ASN:CB	1:P:465:PRO:HD3	2.43	0.48
1:R:259:ASP:OD2	1:R:411:ASN:HB3	2.13	0.48
1:T:94:LYS:H	1:W:241:LEU:CD1	2.27	0.48
1:U:94:LYS:CA	1:V:241:LEU:HD13	2.44	0.48
1:U:449:LEU:O	1:U:451:ASP:N	2.45	0.48
1:X:92:PRO:CB	1:Z:390:ARG:NH1	2.76	0.48
1:X:241:LEU:CD1	1:S:94:LYS:H	2.27	0.48
1:a:312:TRP:HZ3	1:a:326:PHE:HB2	1.78	0.48
1:c:114:GLU:OE2	1:c:119:HIS:ND1	2.45	0.48
1:3:82:ASN:N	1:3:439:ASP:OD2	2.35	0.48
1:5:259:ASP:OD2	1:5:411:ASN:HB3	2.13	0.48
1:5:312:TRP:HZ3	1:5:326:PHE:HB2	1.78	0.48
1:6:204:THR:HG21	1:w:57:PRO:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:175:LEU:HD21	1:M:229:LEU:HD13	1.95	0.48
1:g:259:ASP:OD2	1:g:411:ASN:HB3	2.13	0.48
1:h:259:ASP:OD2	1:h:411:ASN:HB3	2.13	0.48
1:i:259:ASP:OD2	1:i:411:ASN:HB3	2.13	0.48
1:j:259:ASP:OD2	1:j:411:ASN:HB3	2.13	0.48
1:m:281:GLY:O	1:m:298:ILE:N	2.41	0.48
1:q:114:GLU:OE2	1:q:119:HIS:ND1	2.45	0.48
1:s:175:LEU:HD21	1:s:229:LEU:HD13	1.95	0.48
1:u:259:ASP:OD2	1:u:411:ASN:HB3	2.13	0.48
1:v:312:TRP:HZ3	1:v:326:PHE:HB2	1.78	0.48
1:F:75:THR:HA	1:F:524:ILE:HD11	1.96	0.48
1:P:312:TRP:HZ3	1:P:326:PHE:HB2	1.78	0.48
1:S:75:THR:HA	1:S:524:ILE:HD11	1.96	0.48
1:3:114:GLU:OE2	1:3:119:HIS:ND1	2.45	0.48
1:6:75:THR:HA	1:6:524:ILE:HD11	1.96	0.48
1:I:241:LEU:CD1	1:M:94:LYS:H	2.27	0.48
1:I:259:ASP:OD2	1:I:411:ASN:HB3	2.13	0.48
1:K:94:LYS:CA	1:L:241:LEU:HD13	2.44	0.48
1:g:312:TRP:HZ3	1:g:326:PHE:HB2	1.78	0.48
1:i:312:TRP:HZ3	1:i:326:PHE:HB2	1.78	0.48
1:m:75:THR:HA	1:m:524:ILE:HD11	1.96	0.48
1:t:241:LEU:CD1	1:F:94:LYS:H	2.27	0.48
1:t:281:GLY:O	1:t:298:ILE:N	2.41	0.48
1:u:114:GLU:OE2	1:u:119:HIS:ND1	2.45	0.48
1:w:175:LEU:HD21	1:w:229:LEU:HD13	1.95	0.48
1:w:312:TRP:HZ3	1:w:326:PHE:HB2	1.78	0.48
1:y:259:ASP:OD2	1:y:411:ASN:HB3	2.13	0.48
1:1:312:TRP:HZ3	1:1:326:PHE:HB2	1.78	0.48
1:E:312:TRP:HZ3	1:E:326:PHE:HB2	1.78	0.48
1:N:259:ASP:OD2	1:N:411:ASN:HB3	2.13	0.48
1:T:175:LEU:HD21	1:T:229:LEU:HD13	1.95	0.48
1:U:75:THR:HA	1:U:524:ILE:HD11	1.96	0.48
1:Y:259:ASP:OD2	1:Y:411:ASN:HB3	2.13	0.48
1:C:449:LEU:O	1:C:451:ASP:N	2.45	0.48
1:a:75:THR:HA	1:a:524:ILE:HD11	1.96	0.48
1:b:114:GLU:OE2	1:b:119:HIS:ND1	2.45	0.48
1:c:75:THR:HA	1:c:524:ILE:HD11	1.96	0.48
1:3:75:THR:HA	1:3:524:ILE:HD11	1.96	0.48
1:5:175:LEU:HD21	1:5:229:LEU:HD13	1.95	0.48
1:I:175:LEU:HD21	1:I:229:LEU:HD13	1.95	0.48
1:f:449:LEU:O	1:f:451:ASP:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:175:LEU:HD21	1:j:229:LEU:HD13	1.95	0.48
1:k:300:LEU:HB2	1:k:334:PRO:HD3	1.94	0.48
1:n:464:ASN:CB	1:n:465:PRO:HD3	2.43	0.48
1:p:75:THR:HA	1:p:524:ILE:HD11	1.96	0.48
1:p:312:TRP:HZ3	1:p:326:PHE:HB2	1.78	0.48
1:u:449:LEU:O	1:u:451:ASP:N	2.45	0.48
1:w:114:GLU:OE2	1:w:119:HIS:ND1	2.45	0.48
1:2:236:ILE:HG21	1:z:529:THR:CG2	2.44	0.48
1:2:259:ASP:OD2	1:2:411:ASN:HB3	2.13	0.48
1:A:259:ASP:OD2	1:A:411:ASN:HB3	2.13	0.48
1:G:464:ASN:CB	1:G:465:PRO:HD3	2.43	0.48
1:H:75:THR:HA	1:H:524:ILE:HD11	1.96	0.48
1:H:312:TRP:HZ3	1:H:326:PHE:HB2	1.78	0.48
1:T:94:LYS:H	1:W:241:LEU:HD13	1.77	0.48
1:U:259:ASP:OD2	1:U:411:ASN:HB3	2.13	0.48
1:C:312:TRP:HZ3	1:C:326:PHE:HB2	1.78	0.48
1:b:175:LEU:HD21	1:b:229:LEU:HD13	1.95	0.47
1:6:114:GLU:OE2	1:6:119:HIS:ND1	2.45	0.47
1:K:75:THR:HA	1:K:524:ILE:HD11	1.96	0.47
1:L:449:LEU:O	1:L:451:ASP:N	2.45	0.47
1:e:175:LEU:HD21	1:e:229:LEU:HD13	1.95	0.47
1:f:75:THR:HA	1:f:524:ILE:HD11	1.96	0.47
1:f:312:TRP:HZ3	1:f:326:PHE:HB2	1.78	0.47
1:h:75:THR:HA	1:h:524:ILE:HD11	1.96	0.47
1:j:241:LEU:CD1	1:n:94:LYS:H	2.27	0.47
1:l:312:TRP:HZ3	1:l:326:PHE:HB2	1.78	0.47
1:p:114:GLU:OE2	1:p:119:HIS:ND1	2.45	0.47
1:q:175:LEU:HD21	1:q:229:LEU:HD13	1.95	0.47
1:r:75:THR:HA	1:r:524:ILE:HD11	1.96	0.47
1:1:114:GLU:OE2	1:1:119:HIS:ND1	2.45	0.47
1:B:259:ASP:OD2	1:B:411:ASN:HB3	2.13	0.47
1:E:259:ASP:OD2	1:E:411:ASN:HB3	2.13	0.47
1:H:94:LYS:H	1:Q:241:LEU:HD13	1.77	0.47
1:N:94:LYS:CA	1:P:241:LEU:HD13	2.44	0.47
1:R:312:TRP:HZ3	1:R:326:PHE:HB2	1.78	0.47
1:U:114:GLU:OE2	1:U:119:HIS:ND1	2.45	0.47
1:U:464:ASN:CB	1:U:465:PRO:HD3	2.43	0.47
1:W:230:THR:HG22	1:W:233:ASN:H	1.77	0.47
1:d:75:THR:HA	1:d:524:ILE:HD11	1.96	0.47
1:I:94:LYS:CA	1:K:241:LEU:HD13	2.42	0.47
1:L:142:TYR:O	1:L:149:TYR:OH	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:75:THR:HA	1:M:524:ILE:HD11	1.96	0.47
1:M:82:ASN:N	1:M:439:ASP:OD2	2.35	0.47
1:k:259:ASP:OD2	1:k:411:ASN:HB3	2.13	0.47
1:l:75:THR:HA	1:l:524:ILE:HD11	1.96	0.47
1:m:259:ASP:OD2	1:m:411:ASN:HB3	2.13	0.47
1:t:312:TRP:HZ3	1:t:326:PHE:HB2	1.78	0.47
1:O:94:LYS:CA	1:z:241:LEU:HD13	2.44	0.47
1:E:449:LEU:O	1:E:451:ASP:N	2.45	0.47
1:H:281:GLY:O	1:H:298:ILE:N	2.41	0.47
1:N:175:LEU:HD21	1:N:229:LEU:HD13	1.95	0.47
1:Q:259:ASP:OD2	1:Q:411:ASN:HB3	2.13	0.47
1:T:82:ASN:N	1:T:439:ASP:OD2	2.35	0.47
1:T:312:TRP:HZ3	1:T:326:PHE:HB2	1.78	0.47
1:T:449:LEU:O	1:T:451:ASP:N	2.45	0.47
1:V:75:THR:HA	1:V:524:ILE:HD11	1.96	0.47
1:V:312:TRP:HZ3	1:V:326:PHE:HB2	1.78	0.47
1:V:449:LEU:O	1:V:451:ASP:N	2.45	0.47
1:a:94:LYS:H	1:d:241:LEU:HD13	1.77	0.47
1:b:75:THR:HA	1:b:524:ILE:HD11	1.96	0.47
1:7:259:ASP:OD2	1:7:411:ASN:HB3	2.13	0.47
1:M:114:GLU:OE2	1:M:119:HIS:ND1	2.45	0.47
1:m:312:TRP:HZ3	1:m:326:PHE:HB2	1.78	0.47
1:p:94:LYS:H	1:s:241:LEU:HD13	1.77	0.47
1:q:75:THR:HA	1:q:524:ILE:HD11	1.96	0.47
1:s:75:THR:HA	1:s:524:ILE:HD11	1.96	0.47
1:t:175:LEU:HD21	1:t:229:LEU:HD13	1.95	0.47
1:y:175:LEU:HD21	1:y:229:LEU:HD13	1.95	0.47
1:2:175:LEU:HD21	1:2:229:LEU:HD13	1.95	0.47
1:A:114:GLU:OE2	1:A:119:HIS:ND1	2.45	0.47
1:H:259:ASP:OD2	1:H:411:ASN:HB3	2.13	0.47
1:P:75:THR:HA	1:P:524:ILE:HD11	1.96	0.47
1:U:175:LEU:HD21	1:U:229:LEU:HD13	1.95	0.47
1:X:175:LEU:HD21	1:X:229:LEU:HD13	1.95	0.47
1:a:94:LYS:H	1:d:241:LEU:CD1	2.27	0.47
1:a:114:GLU:OE2	1:a:119:HIS:ND1	2.45	0.47
1:4:312:TRP:HZ3	1:4:326:PHE:HB2	1.78	0.47
1:K:114:GLU:OE2	1:K:119:HIS:ND1	2.45	0.47
1:g:209:GLN:HB2	1:l:207:LYS:HE3	1.96	0.47
1:l:114:GLU:OE2	1:l:119:HIS:ND1	2.45	0.47
1:l:281:GLY:O	1:l:298:ILE:N	2.41	0.47
1:D:75:THR:HA	1:D:524:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:312:TRP:HZ3	1:X:326:PHE:HB2	1.78	0.47
1:Y:352:SER:O	1:Y:354:THR:N	2.48	0.47
1:a:94:LYS:CA	1:d:241:LEU:HD13	2.45	0.47
1:4:449:LEU:O	1:4:451:ASP:N	2.45	0.47
1:7:75:THR:HA	1:7:524:ILE:HD11	1.96	0.47
1:J:259:ASP:OD2	1:J:411:ASN:HB3	2.13	0.47
1:L:312:TRP:HZ3	1:L:326:PHE:HB2	1.78	0.47
1:p:94:LYS:CA	1:s:241:LEU:HD13	2.45	0.47
1:B:75:THR:HA	1:B:524:ILE:HD11	1.96	0.47
1:H:94:LYS:CA	1:Q:241:LEU:HD13	2.45	0.47
1:P:114:GLU:OE2	1:P:119:HIS:ND1	2.45	0.47
1:T:236:ILE:HG21	1:V:529:THR:CG2	2.43	0.47
1:U:352:SER:O	1:U:354:THR:N	2.48	0.47
1:W:82:ASN:N	1:W:439:ASP:OD2	2.35	0.47
1:Y:236:ILE:HG21	1:C:529:THR:CG2	2.43	0.47
1:Z:75:THR:HA	1:Z:524:ILE:HD11	1.96	0.47
1:C:259:ASP:OD2	1:C:411:ASN:HB3	2.13	0.47
1:J:75:THR:HA	1:J:524:ILE:HD11	1.96	0.47
1:J:312:TRP:HZ3	1:J:326:PHE:HB2	1.78	0.47
1:h:175:LEU:HD21	1:h:229:LEU:HD13	1.95	0.47
1:h:352:SER:O	1:h:354:THR:N	2.48	0.47
1:k:75:THR:HA	1:k:524:ILE:HD11	1.96	0.47
1:p:94:LYS:H	1:s:241:LEU:CD1	2.27	0.47
1:r:352:SER:O	1:r:354:THR:N	2.48	0.47
1:u:241:LEU:CD1	1:y:94:LYS:H	2.27	0.47
1:y:75:THR:HA	1:y:524:ILE:HD11	1.96	0.47
1:1:241:LEU:CD1	1:A:94:LYS:H	2.27	0.47
1:2:94:LYS:H	1:A:241:LEU:CD1	2.27	0.47
1:B:352:SER:O	1:B:354:THR:N	2.48	0.47
1:N:312:TRP:HZ3	1:N:326:PHE:HB2	1.78	0.47
1:P:281:GLY:O	1:P:298:ILE:N	2.41	0.47
1:Q:75:THR:HA	1:Q:524:ILE:HD11	1.96	0.47
1:W:175:LEU:HD21	1:W:229:LEU:HD13	1.95	0.47
1:X:352:SER:O	1:X:354:THR:N	2.48	0.47
1:a:281:GLY:O	1:a:298:ILE:N	2.41	0.47
1:b:94:LYS:CA	1:c:241:LEU:HD13	2.44	0.47
1:c:352:SER:O	1:c:354:THR:N	2.48	0.47
1:5:75:THR:HA	1:5:524:ILE:HD11	1.96	0.47
1:5:352:SER:O	1:5:354:THR:N	2.48	0.47
1:7:312:TRP:HZ3	1:7:326:PHE:HB2	1.78	0.47
1:I:82:ASN:N	1:I:439:ASP:OD2	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:352:SER:O	1:I:354:THR:N	2.48	0.47
1:e:75:THR:HA	1:e:524:ILE:HD11	1.96	0.47
1:f:94:LYS:CA	1:i:241:LEU:HD13	2.45	0.47
1:f:352:SER:O	1:f:354:THR:N	2.48	0.47
1:h:114:GLU:OE2	1:h:119:HIS:ND1	2.45	0.47
1:i:82:ASN:N	1:i:439:ASP:OD2	2.35	0.47
1:j:312:TRP:HZ3	1:j:326:PHE:HB2	1.78	0.47
1:j:352:SER:O	1:j:354:THR:N	2.48	0.47
1:k:352:SER:O	1:k:354:THR:N	2.48	0.47
1:l:352:SER:O	1:l:354:THR:N	2.48	0.47
1:s:259:ASP:OD2	1:s:411:ASN:HB3	2.13	0.47
1:t:352:SER:O	1:t:354:THR:N	2.48	0.47
1:x:75:THR:HA	1:x:524:ILE:HD11	1.96	0.47
1:2:75:THR:HA	1:2:524:ILE:HD11	1.96	0.47
1:O:312:TRP:HZ3	1:O:326:PHE:HB2	1.78	0.47
1:B:94:LYS:CA	1:F:241:LEU:HD13	2.45	0.47
1:B:236:ILE:HG21	1:E:529:THR:CG2	2.44	0.47
1:E:75:THR:HA	1:E:524:ILE:HD11	1.96	0.47
1:F:142:TYR:O	1:F:149:TYR:OH	2.26	0.47
1:H:94:LYS:H	1:Q:241:LEU:CD1	2.27	0.47
1:N:352:SER:O	1:N:354:THR:N	2.48	0.47
1:P:352:SER:O	1:P:354:THR:N	2.48	0.47
1:Q:352:SER:O	1:Q:354:THR:N	2.48	0.47
1:R:75:THR:HA	1:R:524:ILE:HD11	1.96	0.47
1:V:352:SER:O	1:V:354:THR:N	2.48	0.47
1:Y:75:THR:HA	1:Y:524:ILE:HD11	1.96	0.47
1:Y:94:LYS:CA	1:S:241:LEU:HD13	2.45	0.47
1:C:75:THR:HA	1:C:524:ILE:HD11	1.96	0.47
1:3:352:SER:O	1:3:354:THR:N	2.48	0.47
1:M:209:GLN:CD	1:W:207:LYS:HZ3	2.16	0.47
1:f:94:LYS:H	1:i:241:LEU:CD1	2.27	0.47
1:i:352:SER:O	1:i:354:THR:N	2.48	0.47
1:q:94:LYS:CA	1:r:241:LEU:HD13	2.44	0.47
1:u:55:TRP:O	1:G:204:THR:OG1	2.25	0.47
1:v:82:ASN:N	1:v:439:ASP:OD2	2.35	0.47
1:w:352:SER:O	1:w:354:THR:N	2.48	0.47
1:x:312:TRP:HZ3	1:x:326:PHE:HB2	1.78	0.47
1:1:281:GLY:O	1:1:298:ILE:N	2.41	0.47
1:O:352:SER:O	1:O:354:THR:N	2.48	0.47
1:R:241:LEU:CD1	1:W:94:LYS:H	2.27	0.47
1:U:79:LEU:HD11	1:U:522:PRO:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:114:GLU:OE2	1:W:119:HIS:ND1	2.45	0.47
1:C:352:SER:O	1:C:354:THR:N	2.48	0.47
1:d:259:ASP:OD2	1:d:411:ASN:HB3	2.13	0.47
1:I:114:GLU:OE2	1:I:119:HIS:ND1	2.45	0.47
1:M:79:LEU:HD11	1:M:522:PRO:HD2	1.97	0.47
1:M:352:SER:O	1:M:354:THR:N	2.48	0.47
1:e:352:SER:O	1:e:354:THR:N	2.48	0.47
1:q:79:LEU:HD11	1:q:522:PRO:HD2	1.97	0.47
1:s:79:LEU:HD11	1:s:522:PRO:HD2	1.97	0.47
1:t:79:LEU:HD11	1:t:522:PRO:HD2	1.97	0.47
1:x:82:ASN:N	1:x:439:ASP:OD2	2.35	0.47
1:x:352:SER:O	1:x:354:THR:N	2.48	0.47
1:l:352:SER:O	1:l:354:THR:N	2.48	0.47
1:2:79:LEU:HD11	1:2:522:PRO:HD2	1.97	0.47
1:2:94:LYS:CA	1:A:241:LEU:HD13	2.45	0.47
1:O:75:THR:HA	1:O:524:ILE:HD11	1.96	0.47
1:E:79:LEU:HD11	1:E:522:PRO:HD2	1.97	0.47
1:E:352:SER:O	1:E:354:THR:N	2.48	0.47
1:F:114:GLU:OE2	1:F:119:HIS:ND1	2.45	0.47
1:G:114:GLU:OE2	1:G:119:HIS:ND1	2.45	0.47
1:W:75:THR:HA	1:W:524:ILE:HD11	1.96	0.47
1:Y:312:TRP:HZ3	1:Y:326:PHE:HB2	1.78	0.47
1:C:79:LEU:HD11	1:C:522:PRO:HD2	1.97	0.47
1:b:79:LEU:HD11	1:b:522:PRO:HD2	1.97	0.47
1:d:79:LEU:HD11	1:d:522:PRO:HD2	1.97	0.47
1:4:94:LYS:CA	1:7:241:LEU:HD13	2.45	0.47
1:5:82:ASN:N	1:5:439:ASP:OD2	2.35	0.47
1:5:114:GLU:OE2	1:5:119:HIS:ND1	2.45	0.47
1:I:75:THR:HA	1:I:524:ILE:HD11	1.96	0.47
1:J:352:SER:O	1:J:354:THR:N	2.48	0.47
1:g:281:GLY:O	1:g:298:ILE:N	2.41	0.47
1:h:79:LEU:HD11	1:h:522:PRO:HD2	1.97	0.47
1:n:114:GLU:OE2	1:n:119:HIS:ND1	2.45	0.47
1:p:281:GLY:O	1:p:298:ILE:N	2.41	0.47
1:y:79:LEU:HD11	1:y:522:PRO:HD2	1.97	0.47
1:E:204:THR:OG1	1:U:55:TRP:O	2.30	0.47
1:T:352:SER:O	1:T:354:THR:N	2.48	0.47
1:X:79:LEU:HD11	1:X:522:PRO:HD2	1.97	0.47
1:Z:94:LYS:CA	1:C:241:LEU:HD13	2.44	0.47
1:O:75:THR:HA	1:O:524:ILE:HD11	1.96	0.46
1:a:352:SER:O	1:a:354:THR:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:79:LEU:HD11	1:3:522:PRO:HD2	1.97	0.46
1:3:280:TYR:CE2	1:3:299:PRO:HB3	2.51	0.46
1:3:456:LEU:HD21	1:3:511:ILE:HD13	1.98	0.46
1:4:280:TYR:CE2	1:4:299:PRO:HB3	2.51	0.46
1:7:352:SER:O	1:7:354:THR:N	2.48	0.46
1:J:280:TYR:CE2	1:J:299:PRO:HB3	2.50	0.46
1:L:79:LEU:HD11	1:L:522:PRO:HD2	1.97	0.46
1:L:280:TYR:CE2	1:L:299:PRO:HB3	2.51	0.46
1:g:75:THR:HA	1:g:524:ILE:HD11	1.96	0.46
1:j:280:TYR:CE2	1:j:299:PRO:HB3	2.50	0.46
1:p:79:LEU:HD11	1:p:522:PRO:HD2	1.97	0.46
1:p:352:SER:O	1:p:354:THR:N	2.48	0.46
1:q:456:LEU:HD21	1:q:511:ILE:HD13	1.97	0.46
1:r:280:TYR:CE2	1:r:299:PRO:HB3	2.50	0.46
1:u:85:MET:HG3	1:u:86:TYR:HD1	1.81	0.46
1:1:75:THR:HA	1:1:524:ILE:HD11	1.96	0.46
1:D:352:SER:O	1:D:354:THR:N	2.48	0.46
1:F:352:SER:O	1:F:354:THR:N	2.48	0.46
1:H:280:TYR:CE2	1:H:299:PRO:HB3	2.50	0.46
1:N:280:TYR:CE2	1:N:299:PRO:HB3	2.51	0.46
1:Q:175:LEU:HD21	1:Q:229:LEU:HD13	1.95	0.46
1:Q:456:LEU:HD21	1:Q:511:ILE:HD13	1.97	0.46
1:T:94:LYS:CA	1:W:241:LEU:HD13	2.45	0.46
1:W:280:TYR:CE2	1:W:299:PRO:HB3	2.51	0.46
1:X:280:TYR:CE2	1:X:299:PRO:HB3	2.50	0.46
1:b:456:LEU:HD21	1:b:511:ILE:HD13	1.98	0.46
1:4:79:LEU:HD11	1:4:522:PRO:HD2	1.97	0.46
1:5:456:LEU:HD21	1:5:511:ILE:HD13	1.98	0.46
1:6:280:TYR:CE2	1:6:299:PRO:HB3	2.51	0.46
1:7:280:TYR:CE2	1:7:299:PRO:HB3	2.51	0.46
1:J:529:THR:CG2	1:M:236:ILE:HG21	2.46	0.46
1:M:280:TYR:CE2	1:M:299:PRO:HB3	2.51	0.46
1:M:456:LEU:HD21	1:M:511:ILE:HD13	1.98	0.46
1:e:336:HIS:HB3	1:e:339:TRP:CD1	2.51	0.46
1:f:142:TYR:O	1:f:149:TYR:OH	2.26	0.46
1:f:241:LEU:HD13	1:h:94:LYS:N	2.31	0.46
1:g:352:SER:O	1:g:354:THR:N	2.48	0.46
1:i:75:THR:HA	1:i:524:ILE:HD11	1.96	0.46
1:i:79:LEU:HD11	1:i:522:PRO:HD2	1.97	0.46
1:i:121:ILE:HG13	1:i:122:PHE:N	2.31	0.46
1:j:79:LEU:HD11	1:j:522:PRO:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:280:TYR:CE2	1:k:299:PRO:HB3	2.50	0.46
1:s:352:SER:O	1:s:354:THR:N	2.48	0.46
1:w:75:THR:HA	1:w:524:ILE:HD11	1.96	0.46
1:w:85:MET:HG3	1:w:86:TYR:HD1	1.81	0.46
1:x:121:ILE:HG13	1:x:122:PHE:N	2.31	0.46
1:1:85:MET:HG3	1:1:86:TYR:HD1	1.81	0.46
1:1:280:TYR:CE2	1:1:299:PRO:HB3	2.50	0.46
1:O:79:LEU:HD11	1:O:522:PRO:HD2	1.97	0.46
1:B:312:TRP:HZ3	1:B:326:PHE:HB2	1.78	0.46
1:F:79:LEU:HD11	1:F:522:PRO:HD2	1.97	0.46
1:Q:280:TYR:CE2	1:Q:299:PRO:HB3	2.50	0.46
1:R:114:GLU:OE2	1:R:119:HIS:ND1	2.45	0.46
1:T:79:LEU:HD11	1:T:522:PRO:HD2	1.97	0.46
1:W:352:SER:O	1:W:354:THR:N	2.48	0.46
1:Z:352:SER:O	1:Z:354:THR:N	2.48	0.46
1:C:280:TYR:CE2	1:C:299:PRO:HB3	2.50	0.46
1:S:280:TYR:CE2	1:S:299:PRO:HB3	2.50	0.46
1:S:352:SER:O	1:S:354:THR:N	2.48	0.46
1:a:461:PRO:HA	1:a:466:GLU:CG	2.45	0.46
1:c:280:TYR:CE2	1:c:299:PRO:HB3	2.51	0.46
1:c:336:HIS:HB3	1:c:339:TRP:CD1	2.51	0.46
1:c:456:LEU:HD21	1:c:511:ILE:HD13	1.98	0.46
1:4:121:ILE:HG13	1:4:122:PHE:N	2.31	0.46
1:4:529:THR:CG2	1:7:236:ILE:HG21	2.46	0.46
1:5:121:ILE:HG13	1:5:122:PHE:N	2.31	0.46
1:7:121:ILE:HG13	1:7:122:PHE:N	2.31	0.46
1:I:121:ILE:HG13	1:I:122:PHE:N	2.31	0.46
1:I:456:LEU:HD21	1:I:511:ILE:HD13	1.98	0.46
1:J:94:LYS:H	1:M:241:LEU:CD1	2.27	0.46
1:K:280:TYR:CE2	1:K:299:PRO:HB3	2.51	0.46
1:e:280:TYR:CE2	1:e:299:PRO:HB3	2.50	0.46
1:g:85:MET:HG3	1:g:86:TYR:HD1	1.81	0.46
1:g:114:GLU:OE2	1:g:119:HIS:ND1	2.45	0.46
1:i:204:THR:OG1	1:x:55:TRP:O	2.14	0.46
1:k:456:LEU:HD21	1:k:511:ILE:HD13	1.98	0.46
1:l:82:ASN:N	1:l:439:ASP:OD2	2.35	0.46
1:m:280:TYR:CE2	1:m:299:PRO:HB3	2.51	0.46
1:m:352:SER:O	1:m:354:THR:N	2.48	0.46
1:n:352:SER:O	1:n:354:THR:N	2.48	0.46
1:o:352:SER:O	1:o:354:THR:N	2.48	0.46
1:r:456:LEU:HD21	1:r:511:ILE:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:280:TYR:CE2	1:t:299:PRO:HB3	2.51	0.46
1:u:456:LEU:HD21	1:u:511:ILE:HD13	1.97	0.46
1:v:280:TYR:CE2	1:v:299:PRO:HB3	2.51	0.46
1:w:280:TYR:CE2	1:w:299:PRO:HB3	2.51	0.46
1:w:461:PRO:HA	1:w:466:GLU:CG	2.46	0.46
1:l:461:PRO:HA	1:l:466:GLU:CG	2.46	0.46
1:B:241:LEU:HD13	1:E:94:LYS:N	2.31	0.46
1:D:121:ILE:HG13	1:D:122:PHE:N	2.31	0.46
1:E:280:TYR:CE2	1:E:299:PRO:HB3	2.51	0.46
1:F:280:TYR:CE2	1:F:299:PRO:HB3	2.51	0.46
1:G:352:SER:O	1:G:354:THR:N	2.48	0.46
1:R:85:MET:HG3	1:R:86:TYR:HD1	1.81	0.46
1:T:75:THR:HA	1:T:524:ILE:HD11	1.96	0.46
1:X:75:THR:HA	1:X:524:ILE:HD11	1.96	0.46
1:C:82:ASN:N	1:C:439:ASP:OD2	2.35	0.46
1:S:79:LEU:HD11	1:S:522:PRO:HD2	1.97	0.46
1:S:114:GLU:OE2	1:S:119:HIS:ND1	2.45	0.46
1:O:352:SER:O	1:O:354:THR:N	2.48	0.46
1:a:79:LEU:HD11	1:a:522:PRO:HD2	1.97	0.46
1:a:529:THR:CG2	1:d:236:ILE:HG21	2.46	0.46
1:b:142:TYR:O	1:b:149:TYR:OH	2.26	0.46
1:d:352:SER:O	1:d:354:THR:N	2.48	0.46
1:3:121:ILE:HG13	1:3:122:PHE:N	2.31	0.46
1:4:461:PRO:HA	1:4:466:GLU:CG	2.46	0.46
1:J:121:ILE:HG13	1:J:122:PHE:N	2.31	0.46
1:L:121:ILE:HG13	1:L:122:PHE:N	2.31	0.46
1:L:461:PRO:HA	1:L:466:GLU:CG	2.46	0.46
1:M:121:ILE:HG13	1:M:122:PHE:N	2.31	0.46
1:e:82:ASN:N	1:e:439:ASP:OD2	2.35	0.46
1:e:114:GLU:OE2	1:e:119:HIS:ND1	2.45	0.46
1:f:456:LEU:HD21	1:f:511:ILE:HD13	1.98	0.46
1:k:241:LEU:HD13	1:m:94:LYS:N	2.31	0.46
1:l:456:LEU:HD21	1:l:511:ILE:HD13	1.98	0.46
1:m:79:LEU:HD11	1:m:522:PRO:HD2	1.97	0.46
1:n:75:THR:HA	1:n:524:ILE:HD11	1.96	0.46
1:o:75:THR:HA	1:o:524:ILE:HD11	1.96	0.46
1:p:529:THR:CG2	1:s:236:ILE:HG21	2.46	0.46
1:r:336:HIS:HB3	1:r:339:TRP:CD1	2.51	0.46
1:y:121:ILE:HG13	1:y:122:PHE:N	2.31	0.46
1:y:352:SER:O	1:y:354:THR:N	2.48	0.46
1:O:336:HIS:HB3	1:O:339:TRP:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:75:THR:HA	1:z:524:ILE:HD11	1.96	0.46
1:z:79:LEU:HD11	1:z:522:PRO:HD2	1.97	0.46
1:A:85:MET:HG3	1:A:86:TYR:HD1	1.81	0.46
1:A:456:LEU:HD21	1:A:511:ILE:HD13	1.98	0.46
1:D:94:LYS:CA	1:E:241:LEU:HD13	2.44	0.46
1:D:280:TYR:CE2	1:D:299:PRO:HB3	2.51	0.46
1:G:121:ILE:HG13	1:G:122:PHE:N	2.31	0.46
1:H:79:LEU:HD11	1:H:522:PRO:HD2	1.97	0.46
1:N:79:LEU:HD11	1:N:522:PRO:HD2	1.97	0.46
1:P:82:ASN:N	1:P:439:ASP:OD2	2.35	0.46
1:P:456:LEU:HD21	1:P:511:ILE:HD13	1.98	0.46
1:T:121:ILE:HG13	1:T:122:PHE:N	2.31	0.46
1:V:456:LEU:HD21	1:V:511:ILE:HD13	1.98	0.46
1:Y:456:LEU:HD21	1:Y:511:ILE:HD13	1.98	0.46
1:S:456:LEU:HD21	1:S:511:ILE:HD13	1.98	0.46
1:0:114:GLU:OE2	1:0:119:HIS:ND1	2.45	0.46
1:J:94:LYS:CA	1:M:241:LEU:HD13	2.45	0.46
1:g:280:TYR:CE2	1:g:299:PRO:HB3	2.50	0.46
1:j:121:ILE:HG13	1:j:122:PHE:N	2.31	0.46
1:k:79:LEU:HD11	1:k:522:PRO:HD2	1.97	0.46
1:n:121:ILE:HG13	1:n:122:PHE:N	2.31	0.46
1:o:114:GLU:OE2	1:o:119:HIS:ND1	2.45	0.46
1:r:79:LEU:HD11	1:r:522:PRO:HD2	1.97	0.46
1:t:75:THR:HA	1:t:524:ILE:HD11	1.96	0.46
1:u:280:TYR:CE2	1:u:299:PRO:HB3	2.51	0.46
1:w:281:GLY:O	1:w:298:ILE:N	2.41	0.46
1:x:79:LEU:HD11	1:x:522:PRO:HD2	1.97	0.46
1:2:352:SER:O	1:2:354:THR:N	2.48	0.46
1:O:121:ILE:HG13	1:O:122:PHE:N	2.31	0.46
1:z:280:TYR:CE2	1:z:299:PRO:HB3	2.51	0.46
1:B:121:ILE:HG13	1:B:122:PHE:N	2.31	0.46
1:B:280:TYR:CE2	1:B:299:PRO:HB3	2.50	0.46
1:F:456:LEU:HD21	1:F:511:ILE:HD13	1.98	0.46
1:H:241:LEU:HD13	1:P:94:LYS:N	2.31	0.46
1:H:456:LEU:HD21	1:H:511:ILE:HD13	1.98	0.46
1:N:456:LEU:HD21	1:N:511:ILE:HD13	1.98	0.46
1:P:280:TYR:CE2	1:P:299:PRO:HB3	2.50	0.46
1:R:121:ILE:HG13	1:R:122:PHE:N	2.31	0.46
1:T:241:LEU:HD13	1:V:94:LYS:N	2.31	0.46
1:Y:121:ILE:HG13	1:Y:122:PHE:N	2.31	0.46
1:Y:241:LEU:HD13	1:C:94:LYS:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:121:ILE:HG13	1:Z:122:PHE:N	2.31	0.46
1:Z:280:TYR:CE2	1:Z:299:PRO:HB3	2.51	0.46
1:0:121:ILE:HG13	1:0:122:PHE:N	2.31	0.46
1:c:79:LEU:HD11	1:c:522:PRO:HD2	1.97	0.46
1:3:241:LEU:CD1	1:7:94:LYS:H	2.27	0.46
1:6:85:MET:HG3	1:6:86:TYR:HD1	1.81	0.46
1:6:352:SER:O	1:6:354:THR:N	2.48	0.46
1:6:456:LEU:HD21	1:6:511:ILE:HD13	1.98	0.46
1:7:79:LEU:HD11	1:7:522:PRO:HD2	1.97	0.46
1:J:79:LEU:HD11	1:J:522:PRO:HD2	1.97	0.46
1:K:85:MET:HG3	1:K:86:TYR:HD1	1.81	0.46
1:g:121:ILE:HG13	1:g:122:PHE:N	2.31	0.46
1:j:75:THR:HA	1:j:524:ILE:HD11	1.96	0.46
1:j:456:LEU:HD21	1:j:511:ILE:HD13	1.98	0.46
1:k:85:MET:HG3	1:k:86:TYR:HD1	1.81	0.46
1:k:175:LEU:HD21	1:k:229:LEU:HD13	1.95	0.46
1:k:461:PRO:HA	1:k:466:GLU:CG	2.46	0.46
1:n:456:LEU:HD21	1:n:511:ILE:HD13	1.98	0.46
1:o:121:ILE:HG13	1:o:122:PHE:N	2.31	0.46
1:v:79:LEU:HD11	1:v:522:PRO:HD2	1.97	0.46
1:x:114:GLU:OE2	1:x:119:HIS:ND1	2.45	0.46
1:1:79:LEU:HD11	1:1:522:PRO:HD2	1.97	0.46
1:O:114:GLU:OE2	1:O:119:HIS:ND1	2.45	0.46
1:z:82:ASN:N	1:z:439:ASP:OD2	2.35	0.46
1:A:280:TYR:CE2	1:A:299:PRO:HB3	2.51	0.46
1:B:456:LEU:HD21	1:B:511:ILE:HD13	1.98	0.46
1:E:461:PRO:HA	1:E:466:GLU:CG	2.46	0.46
1:N:75:THR:HA	1:N:524:ILE:HD11	1.96	0.46
1:Q:79:LEU:HD11	1:Q:522:PRO:HD2	1.97	0.46
1:Y:280:TYR:CE2	1:Y:299:PRO:HB3	2.50	0.46
1:b:352:SER:O	1:b:354:THR:N	2.48	0.46
1:c:461:PRO:HA	1:c:466:GLU:CG	2.46	0.46
1:4:352:SER:O	1:4:354:THR:N	2.48	0.46
1:5:280:TYR:CE2	1:5:299:PRO:HB3	2.50	0.46
1:I:76:GLU:OE2	1:I:524:ILE:N	2.49	0.46
1:J:241:LEU:HD13	1:L:94:LYS:N	2.31	0.46
1:K:352:SER:O	1:K:354:THR:N	2.48	0.46
1:K:456:LEU:HD21	1:K:511:ILE:HD13	1.98	0.46
1:e:79:LEU:HD11	1:e:522:PRO:HD2	1.97	0.46
1:h:456:LEU:HD21	1:h:511:ILE:HD13	1.98	0.46
1:j:85:MET:HG3	1:j:86:TYR:HD1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:280:TYR:CE2	1:l:299:PRO:HB3	2.51	0.46
1:m:456:LEU:HD21	1:m:511:ILE:HD13	1.98	0.46
1:o:280:TYR:CE2	1:o:299:PRO:HB3	2.50	0.46
1:q:142:TYR:O	1:q:149:TYR:OH	2.26	0.46
1:q:280:TYR:CE2	1:q:299:PRO:HB3	2.51	0.46
1:q:352:SER:O	1:q:354:THR:N	2.48	0.46
1:r:461:PRO:HA	1:r:466:GLU:CG	2.46	0.46
1:u:79:LEU:HD11	1:u:522:PRO:HD2	1.97	0.46
1:u:121:ILE:HG13	1:u:122:PHE:N	2.31	0.46
1:v:352:SER:O	1:v:354:THR:N	2.48	0.46
1:x:336:HIS:HB3	1:x:339:TRP:CD1	2.51	0.46
1:2:121:ILE:HG13	1:2:122:PHE:N	2.31	0.46
1:A:352:SER:O	1:A:354:THR:N	2.48	0.46
1:G:75:THR:HA	1:G:524:ILE:HD11	1.96	0.46
1:H:352:SER:O	1:H:354:THR:N	2.48	0.46
1:N:121:ILE:HG13	1:N:122:PHE:N	2.31	0.46
1:Q:85:MET:HG3	1:Q:86:TYR:HD1	1.81	0.46
1:Q:461:PRO:HA	1:Q:466:GLU:CG	2.46	0.46
1:R:280:TYR:CE2	1:R:299:PRO:HB3	2.51	0.46
1:R:352:SER:O	1:R:354:THR:N	2.48	0.46
1:T:85:MET:HG3	1:T:86:TYR:HD1	1.81	0.46
1:T:280:TYR:CE2	1:T:299:PRO:HB3	2.50	0.46
1:Z:76:GLU:OE2	1:Z:524:ILE:N	2.49	0.46
1:0:280:TYR:CE2	1:0:299:PRO:HB3	2.50	0.46
1:b:280:TYR:CE2	1:b:299:PRO:HB3	2.51	0.46
1:4:75:THR:HA	1:4:524:ILE:HD11	1.96	0.46
1:e:85:MET:HG3	1:e:86:TYR:CD1	2.51	0.46
1:h:121:ILE:HG13	1:h:122:PHE:N	2.31	0.46
1:j:85:MET:HG3	1:j:86:TYR:CD1	2.51	0.46
1:k:529:THR:CG2	1:n:236:ILE:HG21	2.46	0.46
1:m:85:MET:HG3	1:m:86:TYR:HD1	1.81	0.46
1:s:280:TYR:CE2	1:s:299:PRO:HB3	2.50	0.46
1:t:461:PRO:HA	1:t:466:GLU:CG	2.46	0.46
1:u:352:SER:O	1:u:354:THR:N	2.48	0.46
1:v:75:THR:HA	1:v:524:ILE:HD11	1.96	0.46
1:v:76:GLU:OE2	1:v:524:ILE:N	2.49	0.46
1:v:121:ILE:HG13	1:v:122:PHE:N	2.31	0.46
1:y:85:MET:HG3	1:y:86:TYR:HD1	1.81	0.46
1:2:85:MET:HG3	1:2:86:TYR:HD1	1.81	0.46
1:z:76:GLU:OE2	1:z:524:ILE:N	2.49	0.46
1:z:121:ILE:HG13	1:z:122:PHE:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:352:SER:O	1:z:354:THR:N	2.48	0.46
1:A:79:LEU:HD11	1:A:522:PRO:HD2	1.97	0.46
1:A:82:ASN:N	1:A:439:ASP:OD2	2.35	0.46
1:B:79:LEU:HD11	1:B:522:PRO:HD2	1.97	0.46
1:D:76:GLU:OE2	1:D:524:ILE:N	2.49	0.46
1:E:82:ASN:N	1:E:439:ASP:OD2	2.35	0.46
1:G:456:LEU:HD21	1:G:511:ILE:HD13	1.98	0.46
1:N:85:MET:HG3	1:N:86:TYR:HD1	1.81	0.46
1:Q:85:MET:HG3	1:Q:86:TYR:CD1	2.51	0.46
1:R:461:PRO:HA	1:R:466:GLU:CG	2.46	0.46
1:U:456:LEU:HD21	1:U:511:ILE:HD13	1.98	0.46
1:X:461:PRO:HA	1:X:466:GLU:CG	2.46	0.46
1:Y:79:LEU:HD11	1:Y:522:PRO:HD2	1.97	0.46
1:Y:529:THR:CG2	1:S:236:ILE:HG21	2.46	0.46
1:C:85:MET:HG3	1:C:86:TYR:CD1	2.51	0.46
1:C:461:PRO:HA	1:C:466:GLU:CG	2.46	0.46
1:d:280:TYR:CE2	1:d:299:PRO:HB3	2.50	0.46
1:3:76:GLU:OE2	1:3:524:ILE:N	2.49	0.46
1:4:241:LEU:HD13	1:6:94:LYS:N	2.31	0.46
1:5:76:GLU:OE2	1:5:524:ILE:N	2.49	0.46
1:6:85:MET:HG3	1:6:86:TYR:CD1	2.51	0.46
1:I:280:TYR:CE2	1:I:299:PRO:HB3	2.51	0.46
1:K:85:MET:HG3	1:K:86:TYR:CD1	2.51	0.46
1:L:297:LEU:HD12	1:L:299:PRO:HD3	1.98	0.46
1:L:352:SER:O	1:L:354:THR:N	2.48	0.46
1:M:297:LEU:HD12	1:M:299:PRO:HD3	1.98	0.46
1:e:76:GLU:OE2	1:e:524:ILE:N	2.49	0.46
1:e:456:LEU:HD21	1:e:511:ILE:HD13	1.98	0.46
1:f:121:ILE:HG13	1:f:122:PHE:N	2.31	0.46
1:g:461:PRO:HA	1:g:466:GLU:CG	2.46	0.46
1:i:85:MET:HG3	1:i:86:TYR:HD1	1.81	0.46
1:i:456:LEU:HD21	1:i:511:ILE:HD13	1.98	0.46
1:k:85:MET:HG3	1:k:86:TYR:CD1	2.51	0.46
1:l:121:ILE:HG13	1:l:122:PHE:N	2.31	0.46
1:x:76:GLU:OE2	1:x:524:ILE:N	2.49	0.46
1:1:336:HIS:HB3	1:1:339:TRP:CD1	2.51	0.46
1:2:280:TYR:CE2	1:2:299:PRO:HB3	2.50	0.46
1:O:82:ASN:N	1:O:439:ASP:OD2	2.35	0.46
1:A:121:ILE:HG13	1:A:122:PHE:N	2.31	0.46
1:E:85:MET:HG3	1:E:86:TYR:CD1	2.51	0.46
1:E:85:MET:HG3	1:E:86:TYR:HD1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:456:LEU:HD21	1:E:511:ILE:HD13	1.98	0.46
1:F:82:ASN:N	1:F:439:ASP:OD2	2.35	0.46
1:H:85:MET:HG3	1:H:86:TYR:HD1	1.81	0.46
1:N:85:MET:HG3	1:N:86:TYR:CD1	2.51	0.46
1:P:121:ILE:HG13	1:P:122:PHE:N	2.31	0.46
1:U:85:MET:HG3	1:U:86:TYR:HD1	1.81	0.46
1:U:121:ILE:HG13	1:U:122:PHE:N	2.31	0.46
1:V:121:ILE:HG13	1:V:122:PHE:N	2.31	0.46
1:W:85:MET:HG3	1:W:86:TYR:CD1	2.51	0.46
1:W:456:LEU:HD21	1:W:511:ILE:HD13	1.98	0.46
1:C:85:MET:HG3	1:C:86:TYR:HD1	1.81	0.46
1:C:297:LEU:HD12	1:C:299:PRO:HD3	1.98	0.46
1:C:456:LEU:HD21	1:C:511:ILE:HD13	1.98	0.46
1:3:297:LEU:HD12	1:3:299:PRO:HD3	1.98	0.46
1:4:85:MET:HG3	1:4:86:TYR:CD1	2.51	0.46
1:4:297:LEU:HD12	1:4:299:PRO:HD3	1.99	0.46
1:6:468:THR:HB	1:6:469:PRO:CD	2.46	0.46
1:J:336:HIS:HB3	1:J:339:TRP:CD1	2.51	0.46
1:K:121:ILE:HG13	1:K:122:PHE:N	2.31	0.46
1:L:75:THR:HA	1:L:524:ILE:HD11	1.96	0.46
1:L:85:MET:HG3	1:L:86:TYR:CD1	2.51	0.46
1:M:76:GLU:OE2	1:M:524:ILE:N	2.49	0.46
1:f:280:TYR:CE2	1:f:299:PRO:HB3	2.50	0.46
1:i:76:GLU:OE2	1:i:524:ILE:N	2.49	0.46
1:i:280:TYR:CE2	1:i:299:PRO:HB3	2.50	0.46
1:i:297:LEU:HD12	1:i:299:PRO:HD3	1.98	0.46
1:j:76:GLU:OE2	1:j:524:ILE:N	2.49	0.46
1:u:76:GLU:OE2	1:u:524:ILE:N	2.49	0.46
1:u:85:MET:HG3	1:u:86:TYR:CD1	2.51	0.46
1:w:336:HIS:HB3	1:w:339:TRP:CD1	2.51	0.46
1:z:456:LEU:HD21	1:z:511:ILE:HD13	1.98	0.46
1:A:85:MET:HG3	1:A:86:TYR:CD1	2.51	0.46
1:B:529:THR:CG2	1:F:236:ILE:HG21	2.46	0.46
1:D:336:HIS:HB3	1:D:339:TRP:CD1	2.50	0.46
1:D:456:LEU:HD21	1:D:511:ILE:HD13	1.98	0.46
1:E:297:LEU:HD12	1:E:299:PRO:HD3	1.98	0.46
1:F:468:THR:HB	1:F:469:PRO:CD	2.47	0.46
1:H:529:THR:CG2	1:Q:236:ILE:HG21	2.46	0.46
1:N:76:GLU:OE2	1:N:524:ILE:N	2.49	0.46
1:R:456:LEU:HD21	1:R:511:ILE:HD13	1.98	0.46
1:T:76:GLU:OE2	1:T:524:ILE:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:79:LEU:HD11	1:W:522:PRO:HD2	1.97	0.46
1:Y:85:MET:HG3	1:Y:86:TYR:CD1	2.51	0.46
1:S:76:GLU:OE2	1:S:524:ILE:N	2.49	0.46
1:a:297:LEU:HD12	1:a:299:PRO:HD3	1.98	0.45
1:4:456:LEU:HD21	1:4:511:ILE:HD13	1.98	0.45
1:5:142:TYR:O	1:5:149:TYR:OH	2.26	0.45
1:6:121:ILE:HG13	1:6:122:PHE:N	2.31	0.45
1:6:297:LEU:HD12	1:6:299:PRO:HD3	1.99	0.45
1:I:94:LYS:N	1:K:241:LEU:HD13	2.31	0.45
1:K:297:LEU:HD12	1:K:299:PRO:HD3	1.98	0.45
1:f:85:MET:HG3	1:f:86:TYR:HD1	1.81	0.45
1:g:456:LEU:HD21	1:g:511:ILE:HD13	1.98	0.45
1:h:85:MET:HG3	1:h:86:TYR:HD1	1.81	0.45
1:h:468:THR:HB	1:h:469:PRO:CD	2.47	0.45
1:j:82:ASN:N	1:j:439:ASP:OD2	2.35	0.45
1:k:121:ILE:HG13	1:k:122:PHE:N	2.31	0.45
1:l:76:GLU:OE2	1:l:524:ILE:N	2.49	0.45
1:o:79:LEU:HD11	1:o:522:PRO:HD2	1.97	0.45
1:p:297:LEU:HD12	1:p:299:PRO:HD3	1.99	0.45
1:s:82:ASN:N	1:s:439:ASP:OD2	2.35	0.45
1:v:85:MET:HG3	1:v:86:TYR:HD1	1.81	0.45
1:v:529:THR:CG2	1:y:236:ILE:HG21	2.46	0.45
1:y:280:TYR:CE2	1:y:299:PRO:HB3	2.51	0.45
1:2:85:MET:HG3	1:2:86:TYR:CD1	2.51	0.45
1:O:55:TRP:O	1:T:204:THR:OG1	2.24	0.45
1:O:461:PRO:HA	1:O:466:GLU:CG	2.46	0.45
1:z:85:MET:HG3	1:z:86:TYR:HD1	1.81	0.45
1:F:85:MET:HG3	1:F:86:TYR:CD1	2.51	0.45
1:G:468:THR:HB	1:G:469:PRO:CD	2.47	0.45
1:N:297:LEU:HD12	1:N:299:PRO:HD3	1.98	0.45
1:P:76:GLU:OE2	1:P:524:ILE:N	2.49	0.45
1:R:82:ASN:N	1:R:439:ASP:OD2	2.35	0.45
1:T:297:LEU:HD12	1:T:299:PRO:HD3	1.99	0.45
1:V:85:MET:HG3	1:V:86:TYR:HD1	1.81	0.45
1:W:76:GLU:OE2	1:W:524:ILE:N	2.49	0.45
1:X:468:THR:HB	1:X:469:PRO:CD	2.47	0.45
1:Z:456:LEU:HD21	1:Z:511:ILE:HD13	1.98	0.45
1:S:85:MET:HG3	1:S:86:TYR:CD1	2.51	0.45
1:S:468:THR:HB	1:S:469:PRO:CD	2.47	0.45
1:O:336:HIS:HB3	1:O:339:TRP:CD1	2.51	0.45
1:O:456:LEU:C	1:O:456:LEU:HD12	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:336:HIS:HB3	1:b:339:TRP:CD1	2.51	0.45
1:c:85:MET:HG3	1:c:86:TYR:CD1	2.51	0.45
1:c:456:LEU:C	1:c:456:LEU:HD12	2.42	0.45
1:3:85:MET:HG3	1:3:86:TYR:CD1	2.51	0.45
1:7:85:MET:HG3	1:7:86:TYR:CD1	2.51	0.45
1:7:336:HIS:HB3	1:7:339:TRP:CD1	2.51	0.45
1:J:85:MET:HG3	1:J:86:TYR:CD1	2.51	0.45
1:K:468:THR:HB	1:K:469:PRO:CD	2.47	0.45
1:L:456:LEU:HD21	1:L:511:ILE:HD13	1.98	0.45
1:M:85:MET:HG3	1:M:86:TYR:CD1	2.51	0.45
1:e:468:THR:HB	1:e:469:PRO:CD	2.47	0.45
1:f:297:LEU:HD12	1:f:299:PRO:HD3	1.98	0.45
1:j:94:LYS:N	1:l:241:LEU:HD13	2.31	0.45
1:j:297:LEU:HD12	1:j:299:PRO:HD3	1.98	0.45
1:l:79:LEU:HD11	1:l:522:PRO:HD2	1.97	0.45
1:m:121:ILE:HG13	1:m:122:PHE:N	2.31	0.45
1:m:461:PRO:HA	1:m:466:GLU:CG	2.46	0.45
1:n:468:THR:HB	1:n:469:PRO:CD	2.47	0.45
1:o:456:LEU:HD12	1:o:456:LEU:C	2.42	0.45
1:p:280:TYR:CE2	1:p:299:PRO:HB3	2.50	0.45
1:q:121:ILE:HG13	1:q:122:PHE:N	2.31	0.45
1:r:85:MET:HG3	1:r:86:TYR:CD1	2.51	0.45
1:t:468:THR:HB	1:t:469:PRO:CD	2.47	0.45
1:w:79:LEU:HD11	1:w:522:PRO:HD2	1.98	0.45
1:w:456:LEU:HD12	1:w:456:LEU:C	2.42	0.45
1:x:468:THR:HB	1:x:469:PRO:CD	2.47	0.45
1:y:85:MET:HG3	1:y:86:TYR:CD1	2.51	0.45
1:y:456:LEU:HD21	1:y:511:ILE:HD13	1.98	0.45
1:y:468:THR:HB	1:y:469:PRO:CD	2.47	0.45
1:2:529:THR:CG2	1:A:236:ILE:HG21	2.46	0.45
1:O:76:GLU:OE2	1:O:524:ILE:N	2.49	0.45
1:A:76:GLU:OE2	1:A:524:ILE:N	2.49	0.45
1:B:85:MET:HG3	1:B:86:TYR:CD1	2.51	0.45
1:F:76:GLU:OE2	1:F:524:ILE:N	2.49	0.45
1:G:85:MET:HG3	1:G:86:TYR:CD1	2.51	0.45
1:G:297:LEU:HD12	1:G:299:PRO:HD3	1.98	0.45
1:H:121:ILE:HG13	1:H:122:PHE:N	2.31	0.45
1:H:461:PRO:HA	1:H:466:GLU:CG	2.46	0.45
1:P:85:MET:HG3	1:P:86:TYR:HD1	1.81	0.45
1:R:456:LEU:C	1:R:456:LEU:HD12	2.42	0.45
1:T:456:LEU:HD21	1:T:511:ILE:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:529:THR:CG2	1:W:236:ILE:HG21	2.46	0.45
1:U:456:LEU:C	1:U:456:LEU:HD12	2.42	0.45
1:V:79:LEU:HD11	1:V:522:PRO:HD2	1.97	0.45
1:Z:336:HIS:HB3	1:Z:339:TRP:CD1	2.51	0.45
1:C:121:ILE:HG13	1:C:122:PHE:N	2.31	0.45
1:O:79:LEU:HD11	1:O:522:PRO:HD2	1.97	0.45
1:a:280:TYR:CE2	1:a:299:PRO:HB3	2.50	0.45
1:c:121:ILE:HG13	1:c:122:PHE:N	2.31	0.45
1:c:468:THR:HB	1:c:469:PRO:CD	2.47	0.45
1:d:85:MET:HG3	1:d:86:TYR:HD1	1.81	0.45
1:3:468:THR:HB	1:3:469:PRO:CD	2.47	0.45
1:5:94:LYS:CA	1:6:241:LEU:HD13	2.44	0.45
1:7:85:MET:HG3	1:7:86:TYR:HD1	1.81	0.45
1:I:79:LEU:HD11	1:I:522:PRO:HD2	1.97	0.45
1:M:468:THR:HB	1:M:469:PRO:CD	2.47	0.45
1:e:121:ILE:HG13	1:e:122:PHE:N	2.31	0.45
1:f:456:LEU:C	1:f:456:LEU:HD12	2.42	0.45
1:g:456:LEU:C	1:g:456:LEU:HD12	2.42	0.45
1:n:297:LEU:HD12	1:n:299:PRO:HD3	1.98	0.45
1:r:456:LEU:C	1:r:456:LEU:HD12	2.42	0.45
1:r:468:THR:HB	1:r:469:PRO:CD	2.47	0.45
1:s:85:MET:HG3	1:s:86:TYR:HD1	1.81	0.45
1:t:297:LEU:HD12	1:t:299:PRO:HD3	1.98	0.45
1:u:75:THR:HA	1:u:524:ILE:HD11	1.96	0.45
1:u:336:HIS:HB3	1:u:339:TRP:CD1	2.51	0.45
1:w:85:MET:HG3	1:w:86:TYR:CD1	2.51	0.45
1:x:461:PRO:HA	1:x:466:GLU:CG	2.46	0.45
1:y:297:LEU:HD12	1:y:299:PRO:HD3	1.98	0.45
1:1:85:MET:HG3	1:1:86:TYR:CD1	2.51	0.45
1:1:94:LYS:N	1:O:241:LEU:HD13	2.31	0.45
1:1:456:LEU:HD12	1:1:456:LEU:C	2.42	0.45
1:1:468:THR:HB	1:1:469:PRO:CD	2.47	0.45
1:2:297:LEU:HD12	1:2:299:PRO:HD3	1.99	0.45
1:2:456:LEU:HD21	1:2:511:ILE:HD13	1.98	0.45
1:2:468:THR:HB	1:2:469:PRO:CD	2.47	0.45
1:O:468:THR:HB	1:O:469:PRO:CD	2.47	0.45
1:z:456:LEU:C	1:z:456:LEU:HD12	2.42	0.45
1:A:75:THR:HA	1:A:524:ILE:HD11	1.96	0.45
1:A:297:LEU:HD12	1:A:299:PRO:HD3	1.99	0.45
1:A:336:HIS:HB3	1:A:339:TRP:CD1	2.51	0.45
1:D:85:MET:HG3	1:D:86:TYR:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:468:THR:HB	1:E:469:PRO:CD	2.47	0.45
1:F:121:ILE:HG13	1:F:122:PHE:N	2.31	0.45
1:P:79:LEU:HD11	1:P:522:PRO:HD2	1.97	0.45
1:Q:121:ILE:HG13	1:Q:122:PHE:N	2.31	0.45
1:U:468:THR:HB	1:U:469:PRO:CD	2.47	0.45
1:V:280:TYR:CE2	1:V:299:PRO:HB3	2.51	0.45
1:X:297:LEU:HD12	1:X:299:PRO:HD3	1.98	0.45
1:Z:85:MET:HG3	1:Z:86:TYR:CD1	2.51	0.45
1:0:85:MET:HG3	1:0:86:TYR:CD1	2.51	0.45
1:0:85:MET:HG3	1:0:86:TYR:HD1	1.81	0.45
1:b:468:THR:HB	1:b:469:PRO:CD	2.47	0.45
1:d:121:ILE:HG13	1:d:122:PHE:N	2.31	0.45
1:5:79:LEU:HD11	1:5:522:PRO:HD2	1.97	0.45
1:I:142:TYR:O	1:I:149:TYR:OH	2.26	0.45
1:J:85:MET:HG3	1:J:86:TYR:HD1	1.81	0.45
1:f:529:THR:CG2	1:i:236:ILE:HG21	2.46	0.45
1:h:280:TYR:CE2	1:h:299:PRO:HB3	2.51	0.45
1:i:468:THR:HB	1:i:469:PRO:CD	2.47	0.45
1:j:529:THR:CG2	1:l:236:ILE:HG21	2.47	0.45
1:l:85:MET:HG3	1:l:86:TYR:HD1	1.81	0.45
1:n:280:TYR:CE2	1:n:299:PRO:HB3	2.50	0.45
1:o:336:HIS:HB3	1:o:339:TRP:CD1	2.51	0.45
1:q:85:MET:HG3	1:q:86:TYR:HD1	1.81	0.45
1:q:468:THR:HB	1:q:469:PRO:CD	2.47	0.45
1:r:121:ILE:HG13	1:r:122:PHE:N	2.31	0.45
1:s:121:ILE:HG13	1:s:122:PHE:N	2.31	0.45
1:u:94:LYS:N	1:w:241:LEU:HD13	2.31	0.45
1:u:297:LEU:HD12	1:u:299:PRO:HD3	1.98	0.45
1:x:85:MET:HG3	1:x:86:TYR:HD1	1.81	0.45
1:O:280:TYR:CE2	1:O:299:PRO:HB3	2.51	0.45
1:B:468:THR:HB	1:B:469:PRO:CD	2.47	0.45
1:E:121:ILE:HG13	1:E:122:PHE:N	2.31	0.45
1:T:456:LEU:HD12	1:T:456:LEU:C	2.42	0.45
1:V:297:LEU:HD12	1:V:299:PRO:HD3	1.98	0.45
1:V:456:LEU:C	1:V:456:LEU:HD12	2.42	0.45
1:0:461:PRO:HA	1:0:466:GLU:CG	2.46	0.45
1:a:85:MET:HG3	1:a:86:TYR:HD1	1.81	0.45
1:a:336:HIS:HB3	1:a:339:TRP:CD1	2.51	0.45
1:a:456:LEU:C	1:a:456:LEU:HD12	2.42	0.45
1:b:85:MET:HG3	1:b:86:TYR:HD1	1.81	0.45
1:b:121:ILE:HG13	1:b:122:PHE:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:82:ASN:N	1:d:439:ASP:OD2	2.35	0.45
1:d:85:MET:HG3	1:d:86:TYR:CD1	2.51	0.45
1:d:456:LEU:HD21	1:d:511:ILE:HD13	1.98	0.45
1:3:85:MET:HG3	1:3:86:TYR:HD1	1.81	0.45
1:3:94:LYS:N	1:5:241:LEU:HD13	2.31	0.45
1:3:236:ILE:HG21	1:7:529:THR:CG2	2.47	0.45
1:3:461:PRO:HA	1:3:466:GLU:CG	2.46	0.45
1:4:336:HIS:HB3	1:4:339:TRP:CD1	2.50	0.45
1:e:456:LEU:C	1:e:456:LEU:HD12	2.42	0.45
1:e:529:THR:CG2	1:g:236:ILE:HG21	2.47	0.45
1:f:79:LEU:HD11	1:f:522:PRO:HD2	1.97	0.45
1:i:456:LEU:C	1:i:456:LEU:HD12	2.42	0.45
1:l:85:MET:HG3	1:l:86:TYR:CD1	2.51	0.45
1:n:85:MET:HG3	1:n:86:TYR:CD1	2.51	0.45
1:n:142:TYR:O	1:n:149:TYR:OH	2.26	0.45
1:o:85:MET:HG3	1:o:86:TYR:HD1	1.81	0.45
1:p:76:GLU:OE2	1:p:524:ILE:N	2.49	0.45
1:p:85:MET:HG3	1:p:86:TYR:HD1	1.81	0.45
1:p:336:HIS:HB3	1:p:339:TRP:CD1	2.50	0.45
1:s:85:MET:HG3	1:s:86:TYR:CD1	2.51	0.45
1:s:456:LEU:HD21	1:s:511:ILE:HD13	1.98	0.45
1:u:82:ASN:N	1:u:439:ASP:OD2	2.35	0.45
1:u:207:LYS:HE3	1:B:209:GLN:HB2	1.99	0.45
1:O:85:MET:HG3	1:O:86:TYR:HD1	1.81	0.45
1:D:85:MET:HG3	1:D:86:TYR:HD1	1.81	0.45
1:G:280:TYR:CE2	1:G:299:PRO:HB3	2.50	0.45
1:P:85:MET:HG3	1:P:86:TYR:CD1	2.51	0.45
1:V:336:HIS:HB3	1:V:339:TRP:CD1	2.51	0.45
1:W:456:LEU:C	1:W:456:LEU:HD12	2.42	0.45
1:W:468:THR:HB	1:W:469:PRO:CD	2.47	0.45
1:X:121:ILE:HG13	1:X:122:PHE:N	2.31	0.45
1:X:456:LEU:HD21	1:X:511:ILE:HD13	1.98	0.45
1:Z:79:LEU:HD11	1:Z:522:PRO:HD2	1.97	0.45
1:C:468:THR:HB	1:C:469:PRO:CD	2.47	0.45
1:a:241:LEU:HD13	1:c:94:LYS:N	2.31	0.45
1:a:468:THR:HB	1:a:469:PRO:CD	2.47	0.45
1:d:297:LEU:HD12	1:d:299:PRO:HD3	1.98	0.45
1:d:336:HIS:HB3	1:d:339:TRP:CD1	2.50	0.45
1:d:461:PRO:HA	1:d:466:GLU:CG	2.46	0.45
1:5:85:MET:HG3	1:5:86:TYR:CD1	2.51	0.45
1:5:297:LEU:HD12	1:5:299:PRO:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:336:HIS:HB3	1:L:339:TRP:CD1	2.51	0.45
1:L:468:THR:HB	1:L:469:PRO:CD	2.46	0.45
1:M:461:PRO:HA	1:M:466:GLU:CG	2.45	0.45
1:f:336:HIS:HB3	1:f:339:TRP:CD1	2.50	0.45
1:g:82:ASN:N	1:g:439:ASP:OD2	2.35	0.45
1:h:456:LEU:C	1:h:456:LEU:HD12	2.42	0.45
1:o:85:MET:HG3	1:o:86:TYR:CD1	2.51	0.45
1:o:236:ILE:HG21	1:s:529:THR:CG2	2.47	0.45
1:o:461:PRO:HA	1:o:466:GLU:CG	2.46	0.45
1:p:456:LEU:C	1:p:456:LEU:HD12	2.42	0.45
1:p:468:THR:HB	1:p:469:PRO:CD	2.47	0.45
1:s:461:PRO:HA	1:s:466:GLU:CG	2.46	0.45
1:t:85:MET:HG3	1:t:86:TYR:CD1	2.51	0.45
1:t:121:ILE:HG13	1:t:122:PHE:N	2.31	0.45
1:t:456:LEU:HD21	1:t:511:ILE:HD13	1.98	0.45
1:v:456:LEU:C	1:v:456:LEU:HD12	2.42	0.45
1:v:456:LEU:HD21	1:v:511:ILE:HD13	1.98	0.45
1:w:121:ILE:HG13	1:w:122:PHE:N	2.31	0.45
1:x:85:MET:HG3	1:x:86:TYR:CD1	2.51	0.45
1:1:456:LEU:HD21	1:1:511:ILE:HD13	1.98	0.45
1:O:85:MET:HG3	1:O:86:TYR:CD1	2.51	0.45
1:B:76:GLU:OE2	1:B:524:ILE:N	2.49	0.45
1:D:405:PHE:CD1	1:D:456:LEU:HB3	2.52	0.45
1:G:142:TYR:O	1:G:149:TYR:OH	2.26	0.45
1:N:82:ASN:N	1:N:439:ASP:OD2	2.35	0.45
1:R:85:MET:HG3	1:R:86:TYR:CD1	2.51	0.45
1:R:468:THR:HB	1:R:469:PRO:CD	2.47	0.45
1:R:529:THR:CG2	1:U:236:ILE:HG21	2.47	0.45
1:T:468:THR:HB	1:T:469:PRO:CD	2.47	0.45
1:X:94:LYS:N	1:Z:241:LEU:HD13	2.31	0.45
1:X:529:THR:CG2	1:Z:236:ILE:HG21	2.47	0.45
1:Y:76:GLU:OE2	1:Y:524:ILE:N	2.49	0.45
1:S:121:ILE:HG13	1:S:122:PHE:N	2.31	0.45
1:0:236:ILE:HG21	1:d:529:THR:CG2	2.47	0.45
1:0:468:THR:HB	1:0:469:PRO:CD	2.47	0.45
1:a:76:GLU:OE2	1:a:524:ILE:N	2.49	0.45
1:I:85:MET:HG3	1:I:86:TYR:CD1	2.51	0.45
1:I:297:LEU:HD12	1:I:299:PRO:HD3	1.98	0.45
1:J:456:LEU:HD21	1:J:511:ILE:HD13	1.98	0.45
1:L:85:MET:HG3	1:L:86:TYR:HD1	1.81	0.45
1:M:85:MET:HG3	1:M:86:TYR:HD1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:76:GLU:OE2	1:f:524:ILE:N	2.49	0.45
1:g:85:MET:HG3	1:g:86:TYR:CD1	2.51	0.45
1:h:76:GLU:OE2	1:h:524:ILE:N	2.49	0.45
1:i:336:HIS:HB3	1:i:339:TRP:CD1	2.51	0.45
1:j:456:LEU:C	1:j:456:LEU:HD12	2.42	0.45
1:n:336:HIS:HB3	1:n:339:TRP:CD1	2.50	0.45
1:p:241:LEU:HD13	1:r:94:LYS:N	2.31	0.45
1:s:297:LEU:HD12	1:s:299:PRO:HD3	1.98	0.45
1:s:336:HIS:HB3	1:s:339:TRP:CD1	2.50	0.45
1:t:94:LYS:N	1:D:241:LEU:HD13	2.31	0.45
1:t:456:LEU:C	1:t:456:LEU:HD12	2.42	0.45
1:v:85:MET:HG3	1:v:86:TYR:CD1	2.51	0.45
1:w:456:LEU:HD21	1:w:511:ILE:HD13	1.98	0.45
1:1:121:ILE:HG13	1:1:122:PHE:N	2.31	0.45
1:O:456:LEU:C	1:O:456:LEU:HD12	2.42	0.45
1:O:456:LEU:HD21	1:O:511:ILE:HD13	1.98	0.45
1:z:468:THR:HB	1:z:469:PRO:CD	2.46	0.45
1:D:79:LEU:HD11	1:D:522:PRO:HD2	1.97	0.45
1:E:449:LEU:HB2	1:E:453:ASN:HB2	1.99	0.45
1:G:76:GLU:OE2	1:G:524:ILE:N	2.49	0.45
1:P:468:THR:HB	1:P:469:PRO:CD	2.47	0.45
1:R:236:ILE:HG21	1:W:529:THR:CG2	2.47	0.45
1:U:280:TYR:CE2	1:U:299:PRO:HB3	2.51	0.45
1:V:468:THR:HB	1:V:469:PRO:CD	2.47	0.45
1:X:76:GLU:OE2	1:X:524:ILE:N	2.49	0.45
1:Y:468:THR:HB	1:Y:469:PRO:CD	2.47	0.45
1:C:449:LEU:HB2	1:C:453:ASN:HB2	1.99	0.45
1:O:297:LEU:HD12	1:O:299:PRO:HD3	1.98	0.45
1:a:121:ILE:HG13	1:a:122:PHE:N	2.31	0.45
1:d:102:SER:OG	1:d:226:THR:OG1	2.35	0.45
1:4:468:THR:HB	1:4:469:PRO:CD	2.47	0.45
1:6:76:GLU:OE2	1:6:524:ILE:N	2.49	0.45
1:7:456:LEU:HD21	1:7:511:ILE:HD13	1.98	0.45
1:J:76:GLU:OE2	1:J:524:ILE:N	2.49	0.45
1:J:456:LEU:C	1:J:456:LEU:HD12	2.42	0.45
1:e:85:MET:HG3	1:e:86:TYR:HD1	1.81	0.45
1:f:85:MET:HG3	1:f:86:TYR:CD1	2.51	0.45
1:g:336:HIS:HB3	1:g:339:TRP:CD1	2.51	0.45
1:g:468:THR:HB	1:g:469:PRO:CD	2.47	0.45
1:h:523:LYS:HB3	1:h:523:LYS:HE3	1.85	0.45
1:n:449:LEU:HB2	1:n:453:ASN:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:468:THR:HB	1:o:469:PRO:CD	2.47	0.45
1:t:76:GLU:OE2	1:t:524:ILE:N	2.49	0.45
1:t:529:THR:CG2	1:D:236:ILE:HG21	2.47	0.45
1:v:241:LEU:HD13	1:x:94:LYS:N	2.31	0.45
1:w:468:THR:HB	1:w:469:PRO:CD	2.47	0.45
1:2:241:LEU:HD13	1:z:94:LYS:N	2.31	0.45
1:O:281:GLY:O	1:O:298:ILE:N	2.41	0.45
1:z:85:MET:HG3	1:z:86:TYR:CD1	2.51	0.45
1:E:336:HIS:HB3	1:E:339:TRP:CD1	2.51	0.45
1:G:336:HIS:HB3	1:G:339:TRP:CD1	2.50	0.45
1:G:449:LEU:HB2	1:G:453:ASN:HB2	1.99	0.45
1:R:336:HIS:HB3	1:R:339:TRP:CD1	2.51	0.45
1:W:121:ILE:HG13	1:W:122:PHE:N	2.31	0.45
1:X:456:LEU:C	1:X:456:LEU:HD12	2.42	0.45
1:Y:85:MET:HG3	1:Y:86:TYR:HD1	1.81	0.45
1:Z:297:LEU:HD12	1:Z:299:PRO:HD3	1.98	0.45
1:Z:405:PHE:CD1	1:Z:456:LEU:HB3	2.52	0.45
1:C:336:HIS:HB3	1:C:339:TRP:CD1	2.51	0.45
1:O:102:SER:OG	1:O:226:THR:OG1	2.35	0.45
1:c:297:LEU:HD12	1:c:299:PRO:HD3	1.98	0.45
1:3:336:HIS:HB3	1:3:339:TRP:CD1	2.51	0.45
1:5:85:MET:HG3	1:5:86:TYR:HD1	1.81	0.45
1:5:102:SER:OG	1:5:226:THR:OG1	2.35	0.45
1:5:468:THR:HB	1:5:469:PRO:CD	2.47	0.45
1:6:79:LEU:HD11	1:6:522:PRO:HD2	1.97	0.45
1:7:405:PHE:CD1	1:7:456:LEU:HB3	2.52	0.45
1:I:102:SER:OG	1:I:226:THR:OG1	2.35	0.45
1:I:468:THR:HB	1:I:469:PRO:CD	2.47	0.45
1:K:76:GLU:OE2	1:K:524:ILE:N	2.49	0.45
1:L:102:SER:OG	1:L:226:THR:OG1	2.35	0.45
1:M:336:HIS:HB3	1:M:339:TRP:CD1	2.51	0.45
1:e:405:PHE:CD1	1:e:456:LEU:HB3	2.52	0.45
1:g:297:LEU:HD12	1:g:299:PRO:HD3	1.98	0.45
1:j:468:THR:HB	1:j:469:PRO:CD	2.47	0.45
1:k:142:TYR:O	1:k:149:TYR:OH	2.26	0.45
1:l:468:THR:HB	1:l:469:PRO:CD	2.47	0.45
1:n:76:GLU:OE2	1:n:524:ILE:N	2.49	0.45
1:o:297:LEU:HD12	1:o:299:PRO:HD3	1.98	0.45
1:p:121:ILE:HG13	1:p:122:PHE:N	2.31	0.45
1:q:85:MET:HG3	1:q:86:TYR:CD1	2.51	0.45
1:r:297:LEU:HD12	1:r:299:PRO:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:102:SER:OG	1:s:226:THR:OG1	2.35	0.45
1:x:280:TYR:CE2	1:x:299:PRO:HB3	2.51	0.45
1:x:456:LEU:C	1:x:456:LEU:HD12	2.42	0.45
1:x:456:LEU:HD21	1:x:511:ILE:HD13	1.98	0.45
1:2:456:LEU:C	1:2:456:LEU:HD12	2.42	0.45
1:O:102:SER:OG	1:O:226:THR:OG1	2.35	0.45
1:z:405:PHE:CD1	1:z:456:LEU:HB3	2.52	0.45
1:D:297:LEU:HD12	1:D:299:PRO:HD3	1.98	0.45
1:D:456:LEU:C	1:D:456:LEU:HD12	2.42	0.45
1:E:76:GLU:OE2	1:E:524:ILE:N	2.49	0.45
1:F:456:LEU:C	1:F:456:LEU:HD12	2.42	0.45
1:G:85:MET:HG3	1:G:86:TYR:HD1	1.81	0.45
1:Q:297:LEU:HD12	1:Q:299:PRO:HD3	1.98	0.45
1:U:405:PHE:CD1	1:U:456:LEU:HB3	2.52	0.45
1:U:449:LEU:HB2	1:U:453:ASN:HB2	1.99	0.45
1:U:461:PRO:HA	1:U:466:GLU:CG	2.46	0.45
1:V:85:MET:HG3	1:V:86:TYR:CD1	2.51	0.45
1:W:405:PHE:CD1	1:W:456:LEU:HB3	2.52	0.45
1:X:85:MET:HG3	1:X:86:TYR:CD1	2.51	0.45
1:X:85:MET:HG3	1:X:86:TYR:HD1	1.81	0.45
1:Z:85:MET:HG3	1:Z:86:TYR:HD1	1.81	0.45
1:Z:456:LEU:C	1:Z:456:LEU:HD12	2.42	0.45
1:C:76:GLU:OE2	1:C:524:ILE:N	2.49	0.45
1:0:456:LEU:HD21	1:0:511:ILE:HD13	1.98	0.45
1:b:85:MET:HG3	1:b:86:TYR:CD1	2.51	0.45
1:4:102:SER:OG	1:4:226:THR:OG1	2.35	0.45
1:7:76:GLU:OE2	1:7:524:ILE:N	2.49	0.45
1:7:456:LEU:C	1:7:456:LEU:HD12	2.42	0.45
1:7:468:THR:HB	1:7:469:PRO:CD	2.47	0.45
1:I:85:MET:HG3	1:I:86:TYR:HD1	1.81	0.45
1:J:405:PHE:CD1	1:J:456:LEU:HB3	2.52	0.45
1:J:468:THR:HB	1:J:469:PRO:CD	2.47	0.45
1:e:461:PRO:HA	1:e:466:GLU:CG	2.46	0.45
1:h:405:PHE:CD1	1:h:456:LEU:HB3	2.52	0.45
1:h:449:LEU:HB2	1:h:453:ASN:HB2	1.99	0.45
1:k:297:LEU:HD12	1:k:299:PRO:HD3	1.98	0.45
1:k:336:HIS:HB3	1:k:339:TRP:CD1	2.50	0.45
1:l:456:LEU:C	1:l:456:LEU:HD12	2.42	0.45
1:m:85:MET:HG3	1:m:86:TYR:CD1	2.51	0.45
1:n:405:PHE:CD1	1:n:456:LEU:HB3	2.52	0.45
1:n:456:LEU:C	1:n:456:LEU:HD12	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:76:GLU:OE2	1:o:524:ILE:N	2.49	0.45
1:u:468:THR:HB	1:u:469:PRO:CD	2.47	0.45
1:y:456:LEU:C	1:y:456:LEU:HD12	2.42	0.45
1:E:456:LEU:C	1:E:456:LEU:HD12	2.42	0.45
1:G:236:ILE:HG21	1:Q:529:THR:CG2	2.47	0.45
1:G:456:LEU:C	1:G:456:LEU:HD12	2.42	0.45
1:H:85:MET:HG3	1:H:86:TYR:CD1	2.51	0.45
1:H:336:HIS:HB3	1:H:339:TRP:CD1	2.50	0.45
1:N:456:LEU:C	1:N:456:LEU:HD12	2.42	0.45
1:N:468:THR:HB	1:N:469:PRO:CD	2.47	0.45
1:Q:76:GLU:OE2	1:Q:524:ILE:N	2.49	0.45
1:Q:142:TYR:O	1:Q:149:TYR:OH	2.26	0.45
1:R:94:LYS:N	1:U:241:LEU:HD13	2.31	0.45
1:T:405:PHE:CD1	1:T:456:LEU:HB3	2.52	0.45
1:S:82:ASN:N	1:S:439:ASP:OD2	2.35	0.45
1:S:456:LEU:C	1:S:456:LEU:HD12	2.42	0.45
1:b:461:PRO:HA	1:b:466:GLU:CG	2.46	0.44
1:d:76:GLU:OE2	1:d:524:ILE:N	2.49	0.44
1:d:456:LEU:HD12	1:d:456:LEU:C	2.42	0.44
1:4:85:MET:HG3	1:4:86:TYR:HD1	1.81	0.44
1:7:297:LEU:HD12	1:7:299:PRO:HD3	1.99	0.44
1:I:405:PHE:CD1	1:I:456:LEU:HB3	2.52	0.44
1:J:297:LEU:HD12	1:J:299:PRO:HD3	1.99	0.44
1:K:79:LEU:HD11	1:K:522:PRO:HD2	1.97	0.44
1:L:456:LEU:HD12	1:L:456:LEU:C	2.42	0.44
1:f:468:THR:HB	1:f:469:PRO:CD	2.47	0.44
1:o:102:SER:OG	1:o:226:THR:OG1	2.35	0.44
1:o:456:LEU:HD21	1:o:511:ILE:HD13	1.98	0.44
1:p:102:SER:OG	1:p:226:THR:OG1	2.35	0.44
1:s:76:GLU:OE2	1:s:524:ILE:N	2.49	0.44
1:s:456:LEU:C	1:s:456:LEU:HD12	2.42	0.44
1:u:529:THR:CG2	1:w:236:ILE:HG21	2.47	0.44
1:w:405:PHE:CD1	1:w:456:LEU:HB3	2.52	0.44
1:x:102:SER:OG	1:x:226:THR:OG1	2.35	0.44
1:1:405:PHE:CD1	1:1:456:LEU:HB3	2.52	0.44
1:1:525:PRO:O	1:1:528:ILE:HG22	2.18	0.44
1:A:456:LEU:HD12	1:A:456:LEU:C	2.42	0.44
1:B:85:MET:HG3	1:B:86:TYR:HD1	1.81	0.44
1:B:336:HIS:HB3	1:B:339:TRP:CD1	2.50	0.44
1:D:449:LEU:HB2	1:D:453:ASN:HB2	1.99	0.44
1:G:405:PHE:CD1	1:G:456:LEU:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:456:LEU:C	1:P:456:LEU:HD12	2.42	0.44
1:U:76:GLU:OE2	1:U:524:ILE:N	2.49	0.44
1:V:76:GLU:OE2	1:V:524:ILE:N	2.49	0.44
1:W:461:PRO:HA	1:W:466:GLU:CG	2.46	0.44
1:Y:336:HIS:HB3	1:Y:339:TRP:CD1	2.50	0.44
1:Z:449:LEU:HB2	1:Z:453:ASN:HB2	1.99	0.44
1:S:449:LEU:HB2	1:S:453:ASN:HB2	1.99	0.44
1:O:76:GLU:OE2	1:O:524:ILE:N	2.49	0.44
1:O:523:LYS:HB3	1:O:523:LYS:HE3	1.85	0.44
1:O:529:THR:CG2	1:b:236:ILE:HG21	2.47	0.44
1:a:102:SER:OG	1:a:226:THR:OG1	2.35	0.44
1:b:297:LEU:HD12	1:b:299:PRO:HD3	1.98	0.44
1:d:405:PHE:CD1	1:d:456:LEU:HB3	2.52	0.44
1:5:405:PHE:CD1	1:5:456:LEU:HB3	2.52	0.44
1:6:336:HIS:HB3	1:6:339:TRP:CD1	2.51	0.44
1:6:449:LEU:HB2	1:6:453:ASN:HB2	1.99	0.44
1:I:529:THR:CG2	1:K:236:ILE:HG21	2.47	0.44
1:h:85:MET:HG3	1:h:86:TYR:CD1	2.51	0.44
1:h:461:PRO:HA	1:h:466:GLU:CG	2.46	0.44
1:i:85:MET:HG3	1:i:86:TYR:CD1	2.51	0.44
1:k:456:LEU:C	1:k:456:LEU:HD12	2.42	0.44
1:l:102:SER:OG	1:l:226:THR:OG1	2.35	0.44
1:m:297:LEU:HD12	1:m:299:PRO:HD3	1.98	0.44
1:m:336:HIS:HB3	1:m:339:TRP:CD1	2.51	0.44
1:n:79:LEU:HD11	1:n:522:PRO:HD2	1.97	0.44
1:n:85:MET:HG3	1:n:86:TYR:HD1	1.81	0.44
1:o:529:THR:CG2	1:q:236:ILE:HG21	2.47	0.44
1:q:461:PRO:HA	1:q:466:GLU:CG	2.46	0.44
1:s:405:PHE:CD1	1:s:456:LEU:HB3	2.52	0.44
1:t:236:ILE:HG21	1:F:529:THR:CG2	2.47	0.44
1:t:525:PRO:O	1:t:528:ILE:HG22	2.18	0.44
1:u:405:PHE:CD1	1:u:456:LEU:HB3	2.52	0.44
1:v:405:PHE:CD1	1:v:456:LEU:HB3	2.52	0.44
1:v:468:THR:HB	1:v:469:PRO:CD	2.47	0.44
1:w:525:PRO:O	1:w:528:ILE:HG22	2.18	0.44
1:y:525:PRO:O	1:y:528:ILE:HG22	2.17	0.44
1:2:76:GLU:OE2	1:2:524:ILE:N	2.49	0.44
1:F:449:LEU:HB2	1:F:453:ASN:HB2	1.99	0.44
1:F:525:PRO:O	1:F:528:ILE:HG22	2.18	0.44
1:G:79:LEU:HD11	1:G:522:PRO:HD2	1.97	0.44
1:P:102:SER:OG	1:P:226:THR:OG1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:297:LEU:HD12	1:R:299:PRO:HD3	1.98	0.44
1:U:85:MET:HG3	1:U:86:TYR:CD1	2.51	0.44
1:X:525:PRO:O	1:X:528:ILE:HG22	2.18	0.44
1:C:456:LEU:C	1:C:456:LEU:HD12	2.42	0.44
1:S:525:PRO:O	1:S:528:ILE:HG22	2.18	0.44
1:3:529:THR:CG2	1:5:236:ILE:HG21	2.47	0.44
1:4:456:LEU:C	1:4:456:LEU:HD12	2.42	0.44
1:5:456:LEU:C	1:5:456:LEU:HD12	2.42	0.44
1:I:241:LEU:HD13	1:M:94:LYS:CA	2.47	0.44
1:g:405:PHE:CD1	1:g:456:LEU:HB3	2.52	0.44
1:g:525:PRO:O	1:g:528:ILE:HG22	2.18	0.44
1:j:241:LEU:HD13	1:n:94:LYS:CA	2.47	0.44
1:m:102:SER:OG	1:m:226:THR:OG1	2.35	0.44
1:m:142:TYR:O	1:m:149:TYR:OH	2.26	0.44
1:m:449:LEU:HB2	1:m:453:ASN:HB2	1.99	0.44
1:m:525:PRO:O	1:m:528:ILE:HG22	2.18	0.44
1:q:297:LEU:HD12	1:q:299:PRO:HD3	1.98	0.44
1:q:456:LEU:C	1:q:456:LEU:HD12	2.42	0.44
1:t:204:THR:HG21	1:S:57:PRO:HB3	2.00	0.44
1:t:336:HIS:HB3	1:t:339:TRP:CD1	2.50	0.44
1:w:297:LEU:HD12	1:w:299:PRO:HD3	1.98	0.44
1:O:405:PHE:CD1	1:O:456:LEU:HB3	2.52	0.44
1:A:468:THR:HB	1:A:469:PRO:CD	2.47	0.44
1:B:82:ASN:N	1:B:439:ASP:OD2	2.35	0.44
1:B:456:LEU:C	1:B:456:LEU:HD12	2.42	0.44
1:E:102:SER:OG	1:E:226:THR:OG1	2.35	0.44
1:E:525:PRO:O	1:E:528:ILE:HG22	2.18	0.44
1:H:449:LEU:HB2	1:H:453:ASN:HB2	1.99	0.44
1:Q:456:LEU:C	1:Q:456:LEU:HD12	2.42	0.44
1:Q:468:THR:HB	1:Q:469:PRO:CD	2.47	0.44
1:U:336:HIS:HB3	1:U:339:TRP:CD1	2.50	0.44
1:W:85:MET:HG3	1:W:86:TYR:HD1	1.81	0.44
1:X:236:ILE:HG21	1:S:529:THR:CG2	2.47	0.44
1:Z:525:PRO:O	1:Z:528:ILE:HG22	2.17	0.44
1:b:456:LEU:C	1:b:456:LEU:HD12	2.42	0.44
1:c:76:GLU:OE2	1:c:524:ILE:N	2.49	0.44
1:c:85:MET:HG3	1:c:86:TYR:HD1	1.81	0.44
1:c:525:PRO:O	1:c:528:ILE:HG22	2.18	0.44
1:d:468:THR:HB	1:d:469:PRO:CD	2.47	0.44
1:I:456:LEU:C	1:I:456:LEU:HD12	2.42	0.44
1:K:336:HIS:HB3	1:K:339:TRP:CD1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:449:LEU:HB2	1:K:453:ASN:HB2	1.99	0.44
1:L:76:GLU:OE2	1:L:524:ILE:N	2.49	0.44
1:M:456:LEU:C	1:M:456:LEU:HD12	2.42	0.44
1:g:79:LEU:HD11	1:g:522:PRO:HD2	1.97	0.44
1:j:236:ILE:HG21	1:n:529:THR:CG2	2.47	0.44
1:k:102:SER:OG	1:k:226:THR:OG1	2.35	0.44
1:k:405:PHE:CD1	1:k:456:LEU:HB3	2.52	0.44
1:o:94:LYS:N	1:q:241:LEU:HD13	2.31	0.44
1:r:85:MET:HG3	1:r:86:TYR:HD1	1.81	0.44
1:r:525:PRO:O	1:r:528:ILE:HG22	2.18	0.44
1:t:85:MET:HG3	1:t:86:TYR:HD1	1.81	0.44
1:u:236:ILE:HG21	1:y:529:THR:CG2	2.47	0.44
1:u:456:LEU:C	1:u:456:LEU:HD12	2.42	0.44
1:u:525:PRO:O	1:u:528:ILE:HG22	2.18	0.44
1:v:94:LYS:CA	1:y:241:LEU:HD13	2.45	0.44
1:v:297:LEU:HD12	1:v:299:PRO:HD3	1.99	0.44
1:x:80:SER:C	1:x:81:TYR:HD1	2.26	0.44
1:x:297:LEU:HD12	1:x:299:PRO:HD3	1.98	0.44
1:x:405:PHE:CD1	1:x:456:LEU:HB3	2.52	0.44
1:y:336:HIS:HB3	1:y:339:TRP:CD1	2.51	0.44
1:1:297:LEU:HD12	1:1:299:PRO:HD3	1.99	0.44
1:O:297:LEU:HD12	1:O:299:PRO:HD3	1.98	0.44
1:A:405:PHE:CD1	1:A:456:LEU:HB3	2.52	0.44
1:A:525:PRO:O	1:A:528:ILE:HG22	2.18	0.44
1:D:468:THR:HB	1:D:469:PRO:CD	2.47	0.44
1:F:85:MET:HG3	1:F:86:TYR:HD1	1.81	0.44
1:H:102:SER:OG	1:H:226:THR:OG1	2.35	0.44
1:H:297:LEU:HD12	1:H:299:PRO:HD3	1.98	0.44
1:H:525:PRO:O	1:H:528:ILE:HG22	2.18	0.44
1:N:80:SER:C	1:N:81:TYR:HD1	2.26	0.44
1:P:297:LEU:HD12	1:P:299:PRO:HD3	1.98	0.44
1:Q:336:HIS:HB3	1:Q:339:TRP:CD1	2.50	0.44
1:R:405:PHE:CD1	1:R:456:LEU:HB3	2.52	0.44
1:T:85:MET:HG3	1:T:86:TYR:CD1	2.51	0.44
1:C:80:SER:C	1:C:81:TYR:HD1	2.26	0.44
1:C:525:PRO:O	1:C:528:ILE:HG22	2.18	0.44
1:S:405:PHE:CD1	1:S:456:LEU:HB3	2.52	0.44
1:0:94:LYS:N	1:b:241:LEU:HD13	2.31	0.44
1:a:85:MET:HG3	1:a:86:TYR:CD1	2.51	0.44
1:a:405:PHE:CD1	1:a:456:LEU:HB3	2.52	0.44
1:a:456:LEU:HD21	1:a:511:ILE:HD13	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:456:LEU:C	1:3:456:LEU:HD12	2.42	0.44
1:4:76:GLU:OE2	1:4:524:ILE:N	2.49	0.44
1:4:525:PRO:O	1:4:528:ILE:HG22	2.18	0.44
1:5:525:PRO:O	1:5:528:ILE:HG22	2.18	0.44
1:7:525:PRO:O	1:7:528:ILE:HG22	2.17	0.44
1:I:525:PRO:O	1:I:528:ILE:HG22	2.18	0.44
1:L:405:PHE:CD1	1:L:456:LEU:HB3	2.52	0.44
1:L:525:PRO:O	1:L:528:ILE:HG22	2.18	0.44
1:f:523:LYS:HE3	1:f:523:LYS:HB3	1.85	0.44
1:g:102:SER:OG	1:g:226:THR:OG1	2.35	0.44
1:i:80:SER:C	1:i:81:TYR:HD1	2.26	0.44
1:j:405:PHE:CD1	1:j:456:LEU:HB3	2.52	0.44
1:l:80:SER:C	1:l:81:TYR:HD1	2.26	0.44
1:l:405:PHE:CD1	1:l:456:LEU:HB3	2.52	0.44
1:n:80:SER:C	1:n:81:TYR:HD1	2.26	0.44
1:p:456:LEU:HD21	1:p:511:ILE:HD13	1.98	0.44
1:s:468:THR:HB	1:s:469:PRO:CD	2.47	0.44
1:t:241:LEU:HD13	1:F:94:LYS:CA	2.47	0.44
1:y:76:GLU:OE2	1:y:524:ILE:N	2.49	0.44
1:2:525:PRO:O	1:2:528:ILE:HG22	2.18	0.44
1:z:297:LEU:HD12	1:z:299:PRO:HD3	1.98	0.44
1:B:80:SER:C	1:B:81:TYR:HD1	2.26	0.44
1:D:80:SER:C	1:D:81:TYR:HD1	2.26	0.44
1:D:525:PRO:O	1:D:528:ILE:HG22	2.18	0.44
1:F:80:SER:C	1:F:81:TYR:HD1	2.26	0.44
1:F:405:PHE:CD1	1:F:456:LEU:HB3	2.52	0.44
1:G:80:SER:C	1:G:81:TYR:HD1	2.26	0.44
1:H:456:LEU:C	1:H:456:LEU:HD12	2.42	0.44
1:Q:405:PHE:CD1	1:Q:456:LEU:HB3	2.52	0.44
1:R:525:PRO:O	1:R:528:ILE:HG22	2.18	0.44
1:Y:80:SER:C	1:Y:81:TYR:HD1	2.26	0.44
1:Y:456:LEU:C	1:Y:456:LEU:HD12	2.42	0.44
1:Z:80:SER:C	1:Z:81:TYR:HD1	2.26	0.44
1:C:102:SER:OG	1:C:226:THR:OG1	2.35	0.44
1:S:80:SER:C	1:S:81:TYR:HD1	2.26	0.44
1:S:102:SER:OG	1:S:226:THR:OG1	2.35	0.44
1:b:76:GLU:OE2	1:b:524:ILE:N	2.49	0.44
1:5:336:HIS:HB3	1:5:339:TRP:CD1	2.51	0.44
1:5:449:LEU:HB2	1:5:453:ASN:HB2	1.99	0.44
1:I:449:LEU:HB2	1:I:453:ASN:HB2	1.99	0.44
1:J:525:PRO:O	1:J:528:ILE:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:525:PRO:O	1:K:528:ILE:HG22	2.18	0.44
1:e:236:ILE:HG21	1:i:529:THR:CG2	2.47	0.44
1:h:336:HIS:HB3	1:h:339:TRP:CD1	2.50	0.44
1:i:405:PHE:CD1	1:i:456:LEU:HB3	2.52	0.44
1:k:94:LYS:CA	1:n:241:LEU:HD13	2.45	0.44
1:k:468:THR:HB	1:k:469:PRO:CD	2.47	0.44
1:l:297:LEU:HD12	1:l:299:PRO:HD3	1.98	0.44
1:p:405:PHE:CD1	1:p:456:LEU:HB3	2.52	0.44
1:q:449:LEU:HB2	1:q:453:ASN:HB2	1.99	0.44
1:r:76:GLU:OE2	1:r:524:ILE:N	2.49	0.44
1:y:80:SER:C	1:y:81:TYR:HD1	2.26	0.44
1:1:236:ILE:HG21	1:A:529:THR:CG2	2.47	0.44
1:2:80:SER:C	1:2:81:TYR:HD1	2.26	0.44
1:2:336:HIS:HB3	1:2:339:TRP:CD1	2.50	0.44
1:B:297:LEU:HD12	1:B:299:PRO:HD3	1.98	0.44
1:G:94:LYS:N	1:N:241:LEU:HD13	2.31	0.44
1:G:525:PRO:O	1:G:528:ILE:HG22	2.18	0.44
1:Q:102:SER:OG	1:Q:226:THR:OG1	2.35	0.44
1:Q:525:PRO:O	1:Q:528:ILE:HG22	2.18	0.44
1:R:79:LEU:HD11	1:R:522:PRO:HD2	1.97	0.44
1:T:80:SER:C	1:T:81:TYR:HD1	2.26	0.44
1:X:336:HIS:HB3	1:X:339:TRP:CD1	2.51	0.44
1:Z:468:THR:HB	1:Z:469:PRO:CD	2.47	0.44
1:b:449:LEU:HB2	1:b:453:ASN:HB2	1.99	0.44
1:d:80:SER:C	1:d:81:TYR:HD1	2.26	0.44
1:3:525:PRO:O	1:3:528:ILE:HG22	2.18	0.44
1:4:80:SER:C	1:4:81:TYR:HD1	2.26	0.44
1:5:80:SER:C	1:5:81:TYR:HD1	2.26	0.44
1:6:525:PRO:O	1:6:528:ILE:HG22	2.18	0.44
1:I:80:SER:C	1:I:81:TYR:HD1	2.26	0.44
1:K:456:LEU:C	1:K:456:LEU:HD12	2.42	0.44
1:L:80:SER:C	1:L:81:TYR:HD1	2.26	0.44
1:M:525:PRO:O	1:M:528:ILE:HG22	2.18	0.44
1:e:80:SER:C	1:e:81:TYR:HD1	2.26	0.44
1:e:94:LYS:N	1:g:241:LEU:HD13	2.31	0.44
1:e:241:LEU:HD13	1:i:94:LYS:CA	2.47	0.44
1:j:80:SER:C	1:j:81:TYR:HD1	2.26	0.44
1:k:525:PRO:O	1:k:528:ILE:HG22	2.18	0.44
1:m:405:PHE:CD1	1:m:456:LEU:HB3	2.52	0.44
1:m:456:LEU:C	1:m:456:LEU:HD12	2.42	0.44
1:m:468:THR:HB	1:m:469:PRO:CD	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:405:PHE:CD1	1:o:456:LEU:HB3	2.52	0.44
1:o:523:LYS:HB3	1:o:523:LYS:HE3	1.85	0.44
1:p:85:MET:HG3	1:p:86:TYR:CD1	2.51	0.44
1:q:76:GLU:OE2	1:q:524:ILE:N	2.49	0.44
1:s:80:SER:C	1:s:81:TYR:HD1	2.26	0.44
1:u:80:SER:C	1:u:81:TYR:HD1	2.26	0.44
1:v:80:SER:C	1:v:81:TYR:HD1	2.26	0.44
1:w:449:LEU:HB2	1:w:453:ASN:HB2	1.99	0.44
1:w:523:LYS:HB3	1:w:523:LYS:HE3	1.85	0.44
1:x:449:LEU:HB2	1:x:453:ASN:HB2	1.99	0.44
1:1:80:SER:C	1:1:81:TYR:HD1	2.26	0.44
1:1:241:LEU:HD13	1:A:94:LYS:CA	2.47	0.44
1:1:529:THR:CG2	1:O:236:ILE:HG21	2.47	0.44
1:O:80:SER:C	1:O:81:TYR:HD1	2.26	0.44
1:O:449:LEU:HB2	1:O:453:ASN:HB2	1.99	0.44
1:A:80:SER:C	1:A:81:TYR:HD1	2.26	0.44
1:E:80:SER:C	1:E:81:TYR:HD1	2.26	0.44
1:F:102:SER:OG	1:F:226:THR:OG1	2.35	0.44
1:N:405:PHE:CD1	1:N:456:LEU:HB3	2.52	0.44
1:P:80:SER:C	1:P:81:TYR:HD1	2.26	0.44
1:P:405:PHE:CD1	1:P:456:LEU:HB3	2.52	0.44
1:T:449:LEU:HB2	1:T:453:ASN:HB2	1.99	0.44
1:X:241:LEU:HD13	1:S:94:LYS:CA	2.47	0.44
1:Y:297:LEU:HD12	1:Y:299:PRO:HD3	1.99	0.44
1:Z:102:SER:OG	1:Z:226:THR:OG1	2.35	0.44
1:S:297:LEU:HD12	1:S:299:PRO:HD3	1.98	0.44
1:O:204:THR:HG21	1:s:57:PRO:HB3	2.00	0.44
1:O:405:PHE:CD1	1:O:456:LEU:HB3	2.52	0.44
1:b:405:PHE:CD1	1:b:456:LEU:HB3	2.52	0.44
1:b:525:PRO:O	1:b:528:ILE:HG22	2.18	0.44
1:d:449:LEU:HB2	1:d:453:ASN:HB2	1.99	0.44
1:6:80:SER:C	1:6:81:TYR:HD1	2.26	0.44
1:6:405:PHE:CD1	1:6:456:LEU:HB3	2.52	0.44
1:I:236:ILE:HG21	1:M:529:THR:CG2	2.47	0.44
1:I:336:HIS:HB3	1:I:339:TRP:CD1	2.51	0.44
1:K:80:SER:C	1:K:81:TYR:HD1	2.26	0.44
1:K:405:PHE:CD1	1:K:456:LEU:HB3	2.52	0.44
1:f:405:PHE:CD1	1:f:456:LEU:HB3	2.52	0.44
1:f:525:PRO:O	1:f:528:ILE:HG22	2.18	0.44
1:i:449:LEU:HB2	1:i:453:ASN:HB2	1.99	0.44
1:n:525:PRO:O	1:n:528:ILE:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:525:PRO:O	1:q:528:ILE:HG22	2.18	0.44
1:t:80:SER:C	1:t:81:TYR:HD1	2.26	0.44
1:y:405:PHE:CD1	1:y:456:LEU:HB3	2.52	0.44
1:2:405:PHE:CD1	1:2:456:LEU:HB3	2.52	0.44
1:z:80:SER:C	1:z:81:TYR:HD1	2.26	0.44
1:D:102:SER:OG	1:D:226:THR:OG1	2.35	0.44
1:F:297:LEU:HD12	1:F:299:PRO:HD3	1.98	0.44
1:H:405:PHE:CD1	1:H:456:LEU:HB3	2.52	0.44
1:R:102:SER:OG	1:R:226:THR:OG1	2.35	0.44
1:R:241:LEU:HD13	1:W:94:LYS:CA	2.47	0.44
1:T:336:HIS:HB3	1:T:339:TRP:CD1	2.50	0.44
1:T:461:PRO:HA	1:T:466:GLU:CG	2.46	0.44
1:W:284:SER:CA	1:W:296:GLU:OE2	2.66	0.44
1:W:297:LEU:HD12	1:W:299:PRO:HD3	1.98	0.44
1:3:449:LEU:HB2	1:3:453:ASN:HB2	1.99	0.44
1:7:80:SER:C	1:7:81:TYR:HD1	2.26	0.44
1:J:80:SER:C	1:J:81:TYR:HD1	2.26	0.44
1:K:102:SER:OG	1:K:226:THR:OG1	2.35	0.44
1:M:449:LEU:HB2	1:M:453:ASN:HB2	1.99	0.44
1:e:284:SER:CA	1:e:296:GLU:OE2	2.66	0.44
1:i:461:PRO:HA	1:i:466:GLU:CG	2.46	0.44
1:l:449:LEU:HB2	1:l:453:ASN:HB2	1.99	0.44
1:l:525:PRO:O	1:l:528:ILE:HG22	2.18	0.44
1:s:449:LEU:HB2	1:s:453:ASN:HB2	1.99	0.44
1:u:461:PRO:HA	1:u:466:GLU:CG	2.45	0.44
1:w:80:SER:C	1:w:81:TYR:HD1	2.26	0.44
1:1:449:LEU:HB2	1:1:453:ASN:HB2	1.99	0.44
1:O:529:THR:CG2	1:z:236:ILE:HG21	2.48	0.44
1:z:102:SER:OG	1:z:226:THR:OG1	2.35	0.44
1:A:351:ASN:HD21	1:A:356:ILE:HD11	1.83	0.44
1:G:529:THR:CG2	1:N:236:ILE:HG21	2.47	0.44
1:H:468:THR:HB	1:H:469:PRO:CD	2.47	0.44
1:V:449:LEU:HB2	1:V:453:ASN:HB2	1.99	0.44
1:V:525:PRO:O	1:V:528:ILE:HG22	2.18	0.44
1:W:80:SER:C	1:W:81:TYR:HD1	2.26	0.44
1:X:80:SER:C	1:X:81:TYR:HD1	2.26	0.44
1:S:85:MET:HG3	1:S:86:TYR:HD1	1.81	0.44
1:a:209:GLN:HB2	1:3:207:LYS:HE3	1.99	0.43
1:c:351:ASN:HD21	1:c:356:ILE:HD11	1.83	0.43
1:c:449:LEU:HB2	1:c:453:ASN:HB2	1.99	0.43
1:d:351:ASN:HD21	1:d:356:ILE:HD11	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:525:PRO:O	1:d:528:ILE:HG22	2.18	0.43
1:4:284:SER:CA	1:4:296:GLU:OE2	2.66	0.43
1:4:405:PHE:CD1	1:4:456:LEU:HB3	2.52	0.43
1:6:456:LEU:C	1:6:456:LEU:HD12	2.42	0.43
1:e:297:LEU:HD12	1:e:299:PRO:HD3	1.98	0.43
1:e:525:PRO:O	1:e:528:ILE:HG22	2.18	0.43
1:g:76:GLU:OE2	1:g:524:ILE:N	2.49	0.43
1:g:449:LEU:HB2	1:g:453:ASN:HB2	1.99	0.43
1:h:80:SER:C	1:h:81:TYR:HD1	2.26	0.43
1:j:132:ALA:HB2	1:j:213:GLN:OE1	2.19	0.43
1:l:529:THR:CG2	1:m:236:ILE:HG21	2.48	0.43
1:m:284:SER:CA	1:m:296:GLU:OE2	2.66	0.43
1:q:405:PHE:CD1	1:q:456:LEU:HB3	2.52	0.43
1:r:351:ASN:HD21	1:r:356:ILE:HD11	1.83	0.43
1:r:449:LEU:HB2	1:r:453:ASN:HB2	1.99	0.43
1:s:351:ASN:HD21	1:s:356:ILE:HD11	1.83	0.43
1:w:351:ASN:HD21	1:w:356:ILE:HD11	1.84	0.43
1:z:351:ASN:HD21	1:z:356:ILE:HD11	1.83	0.43
1:z:525:PRO:O	1:z:528:ILE:HG22	2.18	0.43
1:A:449:LEU:HB2	1:A:453:ASN:HB2	1.99	0.43
1:N:525:PRO:O	1:N:528:ILE:HG22	2.18	0.43
1:N:529:THR:CG2	1:P:236:ILE:HG21	2.48	0.43
1:P:351:ASN:HD21	1:P:356:ILE:HD11	1.83	0.43
1:P:525:PRO:O	1:P:528:ILE:HG22	2.18	0.43
1:U:80:SER:C	1:U:81:TYR:HD1	2.26	0.43
1:U:94:LYS:N	1:V:241:LEU:HD13	2.33	0.43
1:Y:82:ASN:N	1:Y:439:ASP:OD2	2.35	0.43
1:Y:405:PHE:CD1	1:Y:456:LEU:HB3	2.52	0.43
1:d:284:SER:CA	1:d:296:GLU:OE2	2.66	0.43
1:3:80:SER:C	1:3:81:TYR:HD1	2.26	0.43
1:5:132:ALA:HB2	1:5:213:GLN:OE1	2.18	0.43
1:6:102:SER:OG	1:6:226:THR:OG1	2.35	0.43
1:K:529:THR:CG2	1:L:236:ILE:HG21	2.48	0.43
1:L:284:SER:CA	1:L:296:GLU:OE2	2.66	0.43
1:M:80:SER:C	1:M:81:TYR:HD1	2.26	0.43
1:f:449:LEU:HB2	1:f:453:ASN:HB2	1.99	0.43
1:h:284:SER:CA	1:h:296:GLU:OE2	2.66	0.43
1:j:525:PRO:O	1:j:528:ILE:HG22	2.18	0.43
1:k:76:GLU:OE2	1:k:524:ILE:N	2.49	0.43
1:u:449:LEU:HB2	1:u:453:ASN:HB2	1.99	0.43
1:w:76:GLU:OE2	1:w:524:ILE:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:351:ASN:HD21	1:1:356:ILE:HD11	1.84	0.43
1:z:449:LEU:HB2	1:z:453:ASN:HB2	1.99	0.43
1:E:405:PHE:CD1	1:E:456:LEU:HB3	2.52	0.43
1:G:284:SER:CA	1:G:296:GLU:OE2	2.66	0.43
1:H:76:GLU:OE2	1:H:524:ILE:N	2.49	0.43
1:H:284:SER:CA	1:H:296:GLU:OE2	2.66	0.43
1:N:132:ALA:HB2	1:N:213:GLN:OE1	2.19	0.43
1:P:449:LEU:HB2	1:P:453:ASN:HB2	1.99	0.43
1:Q:449:LEU:HB2	1:Q:453:ASN:HB2	1.99	0.43
1:U:529:THR:CG2	1:V:236:ILE:HG21	2.48	0.43
1:V:405:PHE:CD1	1:V:456:LEU:HB3	2.52	0.43
1:V:461:PRO:HA	1:V:466:GLU:CG	2.45	0.43
1:V:523:LYS:HE3	1:V:523:LYS:HB3	1.85	0.43
1:Z:94:LYS:N	1:C:241:LEU:HD13	2.34	0.43
1:0:449:LEU:HB2	1:0:453:ASN:HB2	1.99	0.43
1:b:102:SER:OG	1:b:226:THR:OG1	2.35	0.43
1:b:284:SER:CA	1:b:296:GLU:OE2	2.66	0.43
1:3:241:LEU:HD13	1:7:94:LYS:CA	2.47	0.43
1:7:461:PRO:HA	1:7:466:GLU:CG	2.46	0.43
1:M:284:SER:CA	1:M:296:GLU:OE2	2.66	0.43
1:h:297:LEU:HD12	1:h:299:PRO:HD3	1.98	0.43
1:j:351:ASN:HD21	1:j:356:ILE:HD11	1.83	0.43
1:k:80:SER:C	1:k:81:TYR:HD1	2.26	0.43
1:m:351:ASN:HD21	1:m:356:ILE:HD11	1.83	0.43
1:n:284:SER:CA	1:n:296:GLU:OE2	2.66	0.43
1:o:241:LEU:HD13	1:s:94:LYS:CA	2.47	0.43
1:q:284:SER:CA	1:q:296:GLU:OE2	2.66	0.43
1:u:241:LEU:HD13	1:y:94:LYS:CA	2.47	0.43
1:u:351:ASN:HD21	1:u:356:ILE:HD11	1.84	0.43
1:v:351:ASN:HD21	1:v:356:ILE:HD11	1.84	0.43
1:1:76:GLU:OE2	1:1:524:ILE:N	2.49	0.43
1:1:523:LYS:HB3	1:1:523:LYS:HE3	1.85	0.43
1:A:461:PRO:HA	1:A:466:GLU:CG	2.46	0.43
1:B:405:PHE:CD1	1:B:456:LEU:HB3	2.52	0.43
1:D:94:LYS:N	1:E:241:LEU:HD13	2.33	0.43
1:E:132:ALA:HB2	1:E:213:GLN:OE1	2.19	0.43
1:H:132:ALA:HB2	1:H:213:GLN:OE1	2.19	0.43
1:N:523:LYS:HB3	1:N:523:LYS:HE3	1.85	0.43
1:U:297:LEU:HD12	1:U:299:PRO:HD3	1.98	0.43
1:W:449:LEU:HB2	1:W:453:ASN:HB2	1.99	0.43
1:X:449:LEU:HB2	1:X:453:ASN:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:132:ALA:HB2	1:C:213:GLN:OE1	2.19	0.43
1:O:241:LEU:HD13	1:d:94:LYS:CA	2.47	0.43
1:a:132:ALA:HB2	1:a:213:GLN:OE1	2.19	0.43
1:3:284:SER:CA	1:3:296:GLU:OE2	2.66	0.43
1:4:132:ALA:HB2	1:4:213:GLN:OE1	2.19	0.43
1:6:284:SER:CA	1:6:296:GLU:OE2	2.66	0.43
1:I:132:ALA:HB2	1:I:213:GLN:OE1	2.19	0.43
1:J:351:ASN:HD21	1:J:356:ILE:HD11	1.83	0.43
1:L:132:ALA:HB2	1:L:213:GLN:OE1	2.19	0.43
1:M:102:SER:OG	1:M:226:THR:OG1	2.35	0.43
1:M:405:PHE:CD1	1:M:456:LEU:HB3	2.52	0.43
1:e:351:ASN:HD21	1:e:356:ILE:HD11	1.84	0.43
1:g:529:THR:CG2	1:h:236:ILE:HG21	2.48	0.43
1:h:132:ALA:HB2	1:h:213:GLN:OE1	2.19	0.43
1:i:351:ASN:HD21	1:i:356:ILE:HD11	1.84	0.43
1:l:94:LYS:N	1:m:241:LEU:HD13	2.33	0.43
1:l:351:ASN:HD21	1:l:356:ILE:HD11	1.84	0.43
1:m:80:SER:C	1:m:81:TYR:HD1	2.26	0.43
1:q:102:SER:OG	1:q:226:THR:OG1	2.35	0.43
1:q:336:HIS:HB3	1:q:339:TRP:CD1	2.50	0.43
1:s:284:SER:CA	1:s:296:GLU:OE2	2.66	0.43
1:s:525:PRO:O	1:s:528:ILE:HG22	2.18	0.43
1:t:132:ALA:HB2	1:t:213:GLN:OE1	2.19	0.43
1:t:405:PHE:CD1	1:t:456:LEU:HB3	2.52	0.43
1:v:102:SER:OG	1:v:226:THR:OG1	2.35	0.43
1:v:525:PRO:O	1:v:528:ILE:HG22	2.18	0.43
1:2:449:LEU:HB2	1:2:453:ASN:HB2	1.99	0.43
1:B:132:ALA:HB2	1:B:213:GLN:OE1	2.19	0.43
1:E:284:SER:CA	1:E:296:GLU:OE2	2.66	0.43
1:F:351:ASN:HD21	1:F:356:ILE:HD11	1.83	0.43
1:F:461:PRO:HA	1:F:466:GLU:CG	2.46	0.43
1:H:80:SER:C	1:H:81:TYR:HD1	2.26	0.43
1:N:94:LYS:N	1:P:241:LEU:HD13	2.34	0.43
1:N:449:LEU:HB2	1:N:453:ASN:HB2	1.99	0.43
1:P:461:PRO:HA	1:P:466:GLU:CG	2.45	0.43
1:Q:80:SER:C	1:Q:81:TYR:HD1	2.26	0.43
1:R:351:ASN:HD21	1:R:356:ILE:HD11	1.83	0.43
1:R:449:LEU:HB2	1:R:453:ASN:HB2	1.99	0.43
1:T:351:ASN:HD21	1:T:356:ILE:HD11	1.83	0.43
1:U:102:SER:OG	1:U:226:THR:OG1	2.35	0.43
1:U:132:ALA:HB2	1:U:213:GLN:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:284:SER:CA	1:U:296:GLU:OE2	2.66	0.43
1:U:351:ASN:HD21	1:U:356:ILE:HD11	1.83	0.43
1:V:80:SER:C	1:V:81:TYR:HD1	2.26	0.43
1:W:132:ALA:HB2	1:W:213:GLN:OE1	2.19	0.43
1:W:351:ASN:HD21	1:W:356:ILE:HD11	1.84	0.43
1:Y:132:ALA:HB2	1:Y:213:GLN:OE1	2.19	0.43
1:Y:449:LEU:HB2	1:Y:453:ASN:HB2	1.99	0.43
1:C:284:SER:CA	1:C:296:GLU:OE2	2.66	0.43
1:C:405:PHE:CD1	1:C:456:LEU:HB3	2.52	0.43
1:S:351:ASN:HD21	1:S:356:ILE:HD11	1.83	0.43
1:O:281:GLY:O	1:O:298:ILE:N	2.41	0.43
1:3:102:SER:OG	1:3:226:THR:OG1	2.35	0.43
1:J:102:SER:OG	1:J:226:THR:OG1	2.35	0.43
1:J:461:PRO:HA	1:J:466:GLU:CG	2.45	0.43
1:K:284:SER:CA	1:K:296:GLU:OE2	2.66	0.43
1:L:351:ASN:HD21	1:L:356:ILE:HD11	1.83	0.43
1:f:80:SER:C	1:f:81:TYR:HD1	2.26	0.43
1:g:284:SER:CA	1:g:296:GLU:OE2	2.66	0.43
1:i:525:PRO:O	1:i:528:ILE:HG22	2.18	0.43
1:k:449:LEU:HB2	1:k:453:ASN:HB2	1.99	0.43
1:m:76:GLU:OE2	1:m:524:ILE:N	2.49	0.43
1:m:132:ALA:HB2	1:m:213:GLN:OE1	2.19	0.43
1:o:281:GLY:O	1:o:298:ILE:N	2.41	0.43
1:o:449:LEU:HB2	1:o:453:ASN:HB2	1.99	0.43
1:p:132:ALA:HB2	1:p:213:GLN:OE1	2.19	0.43
1:p:525:PRO:O	1:p:528:ILE:HG22	2.18	0.43
1:t:284:SER:CA	1:t:296:GLU:OE2	2.66	0.43
1:t:449:LEU:HB2	1:t:453:ASN:HB2	1.99	0.43
1:u:284:SER:CA	1:u:296:GLU:OE2	2.66	0.43
1:v:132:ALA:HB2	1:v:213:GLN:OE1	2.19	0.43
1:v:449:LEU:HB2	1:v:453:ASN:HB2	1.99	0.43
1:y:449:LEU:HB2	1:y:453:ASN:HB2	1.99	0.43
1:B:449:LEU:HB2	1:B:453:ASN:HB2	1.99	0.43
1:P:336:HIS:HB3	1:P:339:TRP:CD1	2.51	0.43
1:T:132:ALA:HB2	1:T:213:GLN:OE1	2.19	0.43
1:U:525:PRO:O	1:U:528:ILE:HG22	2.18	0.43
1:V:132:ALA:HB2	1:V:213:GLN:OE1	2.18	0.43
1:V:284:SER:CA	1:V:296:GLU:OE2	2.66	0.43
1:W:525:PRO:O	1:W:528:ILE:HG22	2.18	0.43
1:C:351:ASN:HD21	1:C:356:ILE:HD11	1.83	0.43
1:S:461:PRO:HA	1:S:466:GLU:CG	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:449:LEU:HB2	1:a:453:ASN:HB2	1.99	0.43
1:a:525:PRO:O	1:a:528:ILE:HG22	2.18	0.43
1:3:132:ALA:HB2	1:3:213:GLN:OE1	2.19	0.43
1:3:405:PHE:CD1	1:3:456:LEU:HB3	2.52	0.43
1:7:102:SER:OG	1:7:226:THR:OG1	2.35	0.43
1:7:351:ASN:HD21	1:7:356:ILE:HD11	1.83	0.43
1:J:132:ALA:HB2	1:J:213:GLN:OE1	2.19	0.43
1:L:449:LEU:HB2	1:L:453:ASN:HB2	1.99	0.43
1:M:132:ALA:HB2	1:M:213:GLN:OE1	2.19	0.43
1:e:132:ALA:HB2	1:e:213:GLN:OE1	2.19	0.43
1:e:449:LEU:HB2	1:e:453:ASN:HB2	1.99	0.43
1:f:132:ALA:HB2	1:f:213:GLN:OE1	2.19	0.43
1:f:461:PRO:HA	1:f:466:GLU:CG	2.46	0.43
1:g:132:ALA:HB2	1:g:213:GLN:OE1	2.19	0.43
1:h:102:SER:OG	1:h:226:THR:OG1	2.35	0.43
1:h:351:ASN:HD21	1:h:356:ILE:HD11	1.83	0.43
1:j:449:LEU:HB2	1:j:453:ASN:HB2	1.99	0.43
1:j:523:LYS:HB3	1:j:523:LYS:HE3	1.85	0.43
1:l:461:PRO:HA	1:l:466:GLU:CG	2.46	0.43
1:p:284:SER:CA	1:p:296:GLU:OE2	2.66	0.43
1:q:351:ASN:HD21	1:q:356:ILE:HD11	1.83	0.43
1:r:80:SER:C	1:r:81:TYR:HD1	2.26	0.43
1:y:132:ALA:HB2	1:y:213:GLN:OE1	2.19	0.43
1:2:132:ALA:HB2	1:2:213:GLN:OE1	2.19	0.43
1:B:523:LYS:HB3	1:B:523:LYS:HE3	1.85	0.43
1:E:351:ASN:HD21	1:E:356:ILE:HD11	1.83	0.43
1:G:132:ALA:HB2	1:G:213:GLN:OE1	2.19	0.43
1:H:351:ASN:HD21	1:H:356:ILE:HD11	1.84	0.43
1:N:142:TYR:O	1:N:149:TYR:OH	2.26	0.43
1:N:351:ASN:HD21	1:N:356:ILE:HD11	1.84	0.43
1:R:76:GLU:OE2	1:R:524:ILE:N	2.49	0.43
1:X:132:ALA:HB2	1:X:213:GLN:OE1	2.19	0.43
1:Y:525:PRO:O	1:Y:528:ILE:HG22	2.18	0.43
1:Z:461:PRO:HA	1:Z:466:GLU:CG	2.46	0.43
1:c:405:PHE:CD1	1:c:456:LEU:HB3	2.52	0.43
1:3:55:TRP:O	1:e:204:THR:OG1	2.25	0.43
1:4:449:LEU:HB2	1:4:453:ASN:HB2	1.99	0.43
1:g:351:ASN:HD21	1:g:356:ILE:HD11	1.84	0.43
1:h:525:PRO:O	1:h:528:ILE:HG22	2.18	0.43
1:i:132:ALA:HB2	1:i:213:GLN:OE1	2.19	0.43
1:l:132:ALA:HB2	1:l:213:GLN:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:284:SER:CA	1:l:296:GLU:OE2	2.66	0.43
1:p:449:LEU:HB2	1:p:453:ASN:HB2	1.99	0.43
1:w:132:ALA:HB2	1:w:213:GLN:OE1	2.19	0.43
1:1:132:ALA:HB2	1:1:213:GLN:OE1	2.19	0.43
1:O:525:PRO:O	1:O:528:ILE:HG22	2.18	0.43
1:z:132:ALA:HB2	1:z:213:GLN:OE1	2.19	0.43
1:A:101:PHE:CD2	1:A:169:MET:HG2	2.54	0.43
1:B:351:ASN:HD21	1:B:356:ILE:HD11	1.83	0.43
1:B:525:PRO:O	1:B:528:ILE:HG22	2.18	0.43
1:P:284:SER:CA	1:P:296:GLU:OE2	2.66	0.43
1:T:525:PRO:O	1:T:528:ILE:HG22	2.18	0.43
1:X:284:SER:CA	1:X:296:GLU:OE2	2.66	0.43
1:X:405:PHE:CD1	1:X:456:LEU:HB3	2.52	0.43
1:a:80:SER:C	1:a:81:TYR:HD1	2.26	0.43
1:a:284:SER:CA	1:a:296:GLU:OE2	2.66	0.43
1:b:351:ASN:HD21	1:b:356:ILE:HD11	1.84	0.43
1:b:529:THR:CG2	1:c:236:ILE:HG21	2.48	0.43
1:d:101:PHE:CD2	1:d:169:MET:HG2	2.54	0.43
1:3:142:TYR:O	1:3:149:TYR:OH	2.26	0.43
1:4:351:ASN:HD21	1:4:356:ILE:HD11	1.83	0.43
1:5:529:THR:CG2	1:6:236:ILE:HG21	2.48	0.43
1:7:132:ALA:HB2	1:7:213:GLN:OE1	2.19	0.43
1:7:300:LEU:HG	1:7:301:THR:N	2.34	0.43
1:7:449:LEU:HB2	1:7:453:ASN:HB2	1.99	0.43
1:K:461:PRO:HA	1:K:466:GLU:CG	2.46	0.43
1:e:300:LEU:HG	1:e:301:THR:N	2.34	0.43
1:f:284:SER:CA	1:f:296:GLU:OE2	2.66	0.43
1:l:336:HIS:HB3	1:l:339:TRP:CD1	2.50	0.43
1:n:132:ALA:HB2	1:n:213:GLN:OE1	2.19	0.43
1:p:80:SER:C	1:p:81:TYR:HD1	2.26	0.43
1:q:529:THR:CG2	1:r:236:ILE:HG21	2.48	0.43
1:w:94:LYS:N	1:x:241:LEU:HD13	2.33	0.43
1:x:101:PHE:CD2	1:x:169:MET:HG2	2.54	0.43
1:x:525:PRO:O	1:x:528:ILE:HG22	2.18	0.43
1:O:284:SER:CA	1:O:296:GLU:OE2	2.66	0.43
1:A:284:SER:CA	1:A:296:GLU:OE2	2.66	0.43
1:R:284:SER:CA	1:R:296:GLU:OE2	2.66	0.43
1:R:300:LEU:HG	1:R:301:THR:N	2.34	0.43
1:W:300:LEU:HG	1:W:301:THR:N	2.34	0.43
1:6:101:PHE:CD2	1:6:169:MET:HG2	2.54	0.43
1:6:132:ALA:HB2	1:6:213:GLN:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:94:LYS:N	1:L:241:LEU:HD13	2.33	0.43
1:K:132:ALA:HB2	1:K:213:GLN:OE1	2.19	0.43
1:e:101:PHE:CD2	1:e:169:MET:HG2	2.54	0.43
1:f:102:SER:OG	1:f:226:THR:OG1	2.35	0.43
1:g:80:SER:C	1:g:81:TYR:HD1	2.26	0.43
1:j:284:SER:CA	1:j:296:GLU:OE2	2.66	0.43
1:m:101:PHE:CD2	1:m:169:MET:HG2	2.54	0.43
1:o:351:ASN:HD21	1:o:356:ILE:HD11	1.84	0.43
1:p:351:ASN:HD21	1:p:356:ILE:HD11	1.84	0.43
1:r:284:SER:CA	1:r:296:GLU:OE2	2.66	0.43
1:r:405:PHE:CD1	1:r:456:LEU:HB3	2.52	0.43
1:s:101:PHE:CD2	1:s:169:MET:HG2	2.54	0.43
1:u:101:PHE:CD2	1:u:169:MET:HG2	2.54	0.43
1:x:284:SER:CA	1:x:296:GLU:OE2	2.66	0.43
1:y:351:ASN:HD21	1:y:356:ILE:HD11	1.84	0.43
1:2:351:ASN:HD21	1:2:356:ILE:HD11	1.84	0.43
1:O:101:PHE:CD2	1:O:169:MET:HG2	2.54	0.43
1:B:101:PHE:CD2	1:B:169:MET:HG2	2.54	0.43
1:D:461:PRO:HA	1:D:466:GLU:CG	2.46	0.43
1:H:101:PHE:CD2	1:H:169:MET:HG2	2.54	0.43
1:P:132:ALA:HB2	1:P:213:GLN:OE1	2.19	0.43
1:R:132:ALA:HB2	1:R:213:GLN:OE1	2.19	0.43
1:Y:101:PHE:CD2	1:Y:169:MET:HG2	2.54	0.43
1:Y:351:ASN:HD21	1:Y:356:ILE:HD11	1.84	0.43
1:0:132:ALA:HB2	1:0:213:GLN:OE1	2.19	0.43
1:0:284:SER:CA	1:0:296:GLU:OE2	2.66	0.43
1:0:351:ASN:HD21	1:0:356:ILE:HD11	1.83	0.43
1:0:525:PRO:O	1:0:528:ILE:HG22	2.18	0.43
1:a:300:LEU:HG	1:a:301:THR:N	2.34	0.43
1:a:351:ASN:HD21	1:a:356:ILE:HD11	1.84	0.43
1:b:101:PHE:CD2	1:b:169:MET:HG2	2.54	0.43
1:c:80:SER:C	1:c:81:TYR:HD1	2.26	0.43
1:d:300:LEU:HG	1:d:301:THR:N	2.34	0.43
1:4:523:LYS:HE3	1:4:523:LYS:HB3	1.85	0.43
1:5:284:SER:CA	1:5:296:GLU:OE2	2.66	0.43
1:6:461:PRO:HA	1:6:466:GLU:CG	2.46	0.43
1:I:284:SER:CA	1:I:296:GLU:OE2	2.66	0.43
1:J:300:LEU:HG	1:J:301:THR:N	2.34	0.43
1:K:55:TRP:O	1:k:204:THR:OG1	2.24	0.43
1:K:101:PHE:CD2	1:K:169:MET:HG2	2.54	0.43
1:K:300:LEU:HG	1:K:301:THR:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:300:LEU:HG	1:g:301:THR:N	2.34	0.43
1:i:101:PHE:CD2	1:i:169:MET:HG2	2.54	0.43
1:i:300:LEU:HG	1:i:301:THR:N	2.34	0.43
1:k:351:ASN:HD21	1:k:356:ILE:HD11	1.84	0.43
1:n:101:PHE:CD2	1:n:169:MET:HG2	2.54	0.43
1:o:284:SER:CA	1:o:296:GLU:OE2	2.66	0.43
1:o:525:PRO:O	1:o:528:ILE:HG22	2.18	0.43
1:r:523:LYS:HB3	1:r:523:LYS:HE3	1.85	0.43
1:u:132:ALA:HB2	1:u:213:GLN:OE1	2.19	0.43
1:v:101:PHE:CD2	1:v:169:MET:HG2	2.54	0.43
1:w:529:THR:CG2	1:x:236:ILE:HG21	2.49	0.43
1:y:284:SER:CA	1:y:296:GLU:OE2	2.66	0.43
1:z:101:PHE:CD2	1:z:169:MET:HG2	2.54	0.43
1:D:132:ALA:HB2	1:D:213:GLN:OE1	2.19	0.43
1:D:300:LEU:HG	1:D:301:THR:N	2.34	0.43
1:E:300:LEU:HG	1:E:301:THR:N	2.34	0.43
1:N:284:SER:CA	1:N:296:GLU:OE2	2.66	0.43
1:R:80:SER:C	1:R:81:TYR:HD1	2.26	0.43
1:T:101:PHE:CD2	1:T:169:MET:HG2	2.54	0.43
1:W:101:PHE:CD2	1:W:169:MET:HG2	2.54	0.43
1:W:336:HIS:HB3	1:W:339:TRP:CD1	2.50	0.43
1:Z:300:LEU:HG	1:Z:301:THR:N	2.34	0.43
1:b:94:LYS:N	1:c:241:LEU:HD13	2.33	0.42
1:b:132:ALA:HB2	1:b:213:GLN:OE1	2.19	0.42
1:c:284:SER:CA	1:c:296:GLU:OE2	2.66	0.42
1:4:101:PHE:CD2	1:4:169:MET:HG2	2.54	0.42
1:5:94:LYS:N	1:6:241:LEU:HD13	2.33	0.42
1:6:300:LEU:HG	1:6:301:THR:N	2.34	0.42
1:7:284:SER:CA	1:7:296:GLU:OE2	2.66	0.42
1:J:284:SER:CA	1:J:296:GLU:OE2	2.66	0.42
1:J:449:LEU:HB2	1:J:453:ASN:HB2	1.99	0.42
1:L:101:PHE:CD2	1:L:169:MET:HG2	2.54	0.42
1:M:300:LEU:HG	1:M:301:THR:N	2.34	0.42
1:h:111:LEU:HD23	1:h:111:LEU:HA	1.91	0.42
1:h:300:LEU:HG	1:h:301:THR:N	2.34	0.42
1:i:102:SER:OG	1:i:226:THR:OG1	2.35	0.42
1:j:142:TYR:O	1:j:149:TYR:OH	2.26	0.42
1:o:132:ALA:HB2	1:o:213:GLN:OE1	2.19	0.42
1:p:300:LEU:HG	1:p:301:THR:N	2.34	0.42
1:q:101:PHE:CD2	1:q:169:MET:HG2	2.54	0.42
1:s:300:LEU:HG	1:s:301:THR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:101:PHE:CD2	1:y:169:MET:HG2	2.54	0.42
1:y:461:PRO:HA	1:y:466:GLU:CG	2.46	0.42
1:y:523:LYS:HB3	1:y:523:LYS:HE3	1.85	0.42
1:2:284:SER:CA	1:2:296:GLU:OE2	2.66	0.42
1:2:461:PRO:HA	1:2:466:GLU:CG	2.45	0.42
1:2:523:LYS:HB3	1:2:523:LYS:HE3	1.85	0.42
1:O:142:TYR:O	1:O:149:TYR:OH	2.26	0.42
1:G:101:PHE:CD2	1:G:169:MET:HG2	2.54	0.42
1:Q:101:PHE:CD2	1:Q:169:MET:HG2	2.54	0.42
1:T:284:SER:CA	1:T:296:GLU:OE2	2.66	0.42
1:T:300:LEU:HG	1:T:301:THR:N	2.34	0.42
1:Y:461:PRO:HA	1:Y:466:GLU:CG	2.46	0.42
1:Y:523:LYS:HB3	1:Y:523:LYS:HE3	1.85	0.42
1:C:300:LEU:HG	1:C:301:THR:N	2.34	0.42
1:d:132:ALA:HB2	1:d:213:GLN:OE1	2.19	0.42
1:3:300:LEU:HG	1:3:301:THR:N	2.34	0.42
1:i:284:SER:CA	1:i:296:GLU:OE2	2.66	0.42
1:k:101:PHE:CD2	1:k:169:MET:HG2	2.54	0.42
1:l:101:PHE:CD2	1:l:169:MET:HG2	2.54	0.42
1:n:461:PRO:HA	1:n:466:GLU:CG	2.46	0.42
1:n:523:LYS:HE3	1:n:523:LYS:HB3	1.85	0.42
1:o:80:SER:C	1:o:81:TYR:HD1	2.26	0.42
1:q:80:SER:C	1:q:81:TYR:HD1	2.26	0.42
1:q:132:ALA:HB2	1:q:213:GLN:OE1	2.19	0.42
1:q:300:LEU:HG	1:q:301:THR:N	2.34	0.42
1:v:336:HIS:HB3	1:v:339:TRP:CD1	2.51	0.42
1:w:101:PHE:CD2	1:w:169:MET:HG2	2.54	0.42
1:2:101:PHE:CD2	1:2:169:MET:HG2	2.54	0.42
1:z:284:SER:CA	1:z:296:GLU:OE2	2.66	0.42
1:A:132:ALA:HB2	1:A:213:GLN:OE1	2.19	0.42
1:B:284:SER:CA	1:B:296:GLU:OE2	2.66	0.42
1:E:101:PHE:CD2	1:E:169:MET:HG2	2.54	0.42
1:E:204:THR:HG21	1:U:57:PRO:HB3	2.01	0.42
1:N:336:HIS:HB3	1:N:339:TRP:CD1	2.50	0.42
1:Q:351:ASN:HD21	1:Q:356:ILE:HD11	1.83	0.42
1:U:300:LEU:HG	1:U:301:THR:N	2.34	0.42
1:V:101:PHE:CD2	1:V:169:MET:HG2	2.54	0.42
1:X:101:PHE:CD2	1:X:169:MET:HG2	2.54	0.42
1:C:101:PHE:CD2	1:C:169:MET:HG2	2.54	0.42
1:0:80:SER:C	1:0:81:TYR:HD1	2.26	0.42
1:b:80:SER:C	1:b:81:TYR:HD1	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:300:LEU:HG	1:b:301:THR:N	2.34	0.42
1:I:300:LEU:HG	1:I:301:THR:N	2.34	0.42
1:K:351:ASN:HD21	1:K:356:ILE:HD11	1.83	0.42
1:q:94:LYS:N	1:r:241:LEU:HD13	2.34	0.42
1:r:101:PHE:CD2	1:r:169:MET:HG2	2.54	0.42
1:r:132:ALA:HB2	1:r:213:GLN:OE1	2.19	0.42
1:s:132:ALA:HB2	1:s:213:GLN:OE1	2.19	0.42
1:t:101:PHE:CD2	1:t:169:MET:HG2	2.54	0.42
1:v:284:SER:CA	1:v:296:GLU:OE2	2.66	0.42
1:y:300:LEU:HG	1:y:301:THR:N	2.34	0.42
1:1:101:PHE:CD2	1:1:169:MET:HG2	2.54	0.42
1:O:351:ASN:HD21	1:O:356:ILE:HD11	1.83	0.42
1:G:461:PRO:HA	1:G:466:GLU:CG	2.46	0.42
1:G:523:LYS:HE3	1:G:523:LYS:HB3	1.85	0.42
1:P:101:PHE:CD2	1:P:169:MET:HG2	2.54	0.42
1:V:102:SER:OG	1:V:226:THR:OG1	2.35	0.42
1:V:300:LEU:HG	1:V:301:THR:N	2.34	0.42
1:Z:132:ALA:HB2	1:Z:213:GLN:OE1	2.19	0.42
1:c:101:PHE:CD2	1:c:169:MET:HG2	2.54	0.42
1:5:101:PHE:CD2	1:5:169:MET:HG2	2.54	0.42
1:5:300:LEU:HG	1:5:301:THR:N	2.34	0.42
1:6:351:ASN:HD21	1:6:356:ILE:HD11	1.83	0.42
1:I:101:PHE:CD2	1:I:169:MET:HG2	2.54	0.42
1:f:101:PHE:CD2	1:f:169:MET:HG2	2.54	0.42
1:f:351:ASN:HD21	1:f:356:ILE:HD11	1.84	0.42
1:1:300:LEU:HG	1:1:301:THR:N	2.34	0.42
1:O:132:ALA:HB2	1:O:213:GLN:OE1	2.19	0.42
1:O:300:LEU:HG	1:O:301:THR:N	2.34	0.42
1:z:336:HIS:HB3	1:z:339:TRP:CD1	2.51	0.42
1:A:300:LEU:HG	1:A:301:THR:N	2.34	0.42
1:N:461:PRO:HA	1:N:466:GLU:CG	2.46	0.42
1:T:102:SER:OG	1:T:226:THR:OG1	2.35	0.42
1:Y:284:SER:CA	1:Y:296:GLU:OE2	2.66	0.42
1:c:132:ALA:HB2	1:c:213:GLN:OE1	2.19	0.42
1:c:204:THR:HG21	1:l:57:PRO:HB3	2.01	0.42
1:g:101:PHE:CD2	1:g:169:MET:HG2	2.54	0.42
1:h:101:PHE:CD2	1:h:169:MET:HG2	2.54	0.42
1:j:336:HIS:HB3	1:j:339:TRP:CD1	2.51	0.42
1:j:461:PRO:HA	1:j:466:GLU:CG	2.45	0.42
1:u:300:LEU:HG	1:u:301:THR:N	2.34	0.42
1:w:300:LEU:HG	1:w:301:THR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:132:ALA:HB2	1:x:213:GLN:OE1	2.19	0.42
1:x:351:ASN:HD21	1:x:356:ILE:HD11	1.84	0.42
1:2:300:LEU:HG	1:2:301:THR:N	2.34	0.42
1:O:94:LYS:N	1:z:241:LEU:HD13	2.34	0.42
1:G:351:ASN:HD21	1:G:356:ILE:HD11	1.83	0.42
1:Q:132:ALA:HB2	1:Q:213:GLN:OE1	2.19	0.42
1:Q:300:LEU:HG	1:Q:301:THR:N	2.34	0.42
1:U:101:PHE:CD2	1:U:169:MET:HG2	2.54	0.42
1:V:351:ASN:HD21	1:V:356:ILE:HD11	1.83	0.42
1:c:102:SER:OG	1:c:226:THR:OG1	2.35	0.42
1:c:523:LYS:HB3	1:c:523:LYS:HE3	1.85	0.42
1:I:461:PRO:HA	1:I:466:GLU:CG	2.45	0.42
1:m:300:LEU:HG	1:m:301:THR:N	2.34	0.42
1:n:102:SER:OG	1:n:226:THR:OG1	2.35	0.42
1:r:102:SER:OG	1:r:226:THR:OG1	2.35	0.42
1:x:300:LEU:HG	1:x:301:THR:N	2.34	0.42
1:l:284:SER:CA	1:l:296:GLU:OE2	2.66	0.42
1:2:261:GLY:HA2	1:2:304:GLN:HB2	2.02	0.42
1:D:351:ASN:HD21	1:D:356:ILE:HD11	1.84	0.42
1:D:529:THR:CG2	1:E:236:ILE:HG21	2.48	0.42
1:F:101:PHE:CD2	1:F:169:MET:HG2	2.54	0.42
1:F:300:LEU:HG	1:F:301:THR:N	2.34	0.42
1:F:336:HIS:HB3	1:F:339:TRP:CD1	2.50	0.42
1:R:101:PHE:CD2	1:R:169:MET:HG2	2.54	0.42
1:Y:261:GLY:HA2	1:Y:304:GLN:HB2	2.02	0.42
1:5:351:ASN:HD21	1:5:356:ILE:HD11	1.84	0.42
1:5:461:PRO:HA	1:5:466:GLU:CG	2.45	0.42
1:J:261:GLY:HA2	1:J:304:GLN:HB2	2.02	0.42
1:f:300:LEU:HG	1:f:301:THR:N	2.34	0.42
1:k:132:ALA:HB2	1:k:213:GLN:OE1	2.19	0.42
1:n:351:ASN:HD21	1:n:356:ILE:HD11	1.83	0.42
1:u:102:SER:OG	1:u:226:THR:OG1	2.35	0.42
1:v:300:LEU:HG	1:v:301:THR:N	2.34	0.42
1:w:261:GLY:HA2	1:w:304:GLN:HB2	2.02	0.42
1:w:284:SER:CA	1:w:296:GLU:OE2	2.66	0.42
1:z:300:LEU:HG	1:z:301:THR:N	2.34	0.42
1:B:261:GLY:HA2	1:B:304:GLN:HB2	2.02	0.42
1:D:101:PHE:CD2	1:D:169:MET:HG2	2.54	0.42
1:F:132:ALA:HB2	1:F:213:GLN:OE1	2.19	0.42
1:F:284:SER:CA	1:F:296:GLU:OE2	2.66	0.42
1:Z:529:THR:CG2	1:C:236:ILE:HG21	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:261:GLY:HA2	1:6:304:GLN:HB2	2.02	0.42
1:7:471:ILE:O	1:7:472:PRO:O	2.38	0.42
1:I:351:ASN:HD21	1:I:356:ILE:HD11	1.84	0.42
1:M:351:ASN:HD21	1:M:356:ILE:HD11	1.83	0.42
1:h:304:GLN:HE21	1:h:498:ASN:HA	1.85	0.42
1:m:261:GLY:HA2	1:m:304:GLN:HB2	2.02	0.42
1:t:351:ASN:HD21	1:t:356:ILE:HD11	1.83	0.42
1:w:104:LYS:HB2	1:w:224:ILE:HB	2.02	0.42
1:x:142:TYR:O	1:x:149:TYR:OH	2.27	0.42
1:x:261:GLY:HA2	1:x:304:GLN:HB2	2.02	0.42
1:y:261:GLY:HA2	1:y:304:GLN:HB2	2.02	0.42
1:B:461:PRO:HA	1:B:466:GLU:CG	2.45	0.42
1:F:57:PRO:HB3	1:X:204:THR:HG21	2.02	0.42
1:G:300:LEU:HG	1:G:301:THR:N	2.34	0.42
1:H:300:LEU:HG	1:H:301:THR:N	2.35	0.42
1:P:261:GLY:HA2	1:P:304:GLN:HB2	2.02	0.42
1:V:261:GLY:HA2	1:V:304:GLN:HB2	2.02	0.42
1:X:102:SER:OG	1:X:226:THR:OG1	2.35	0.42
1:X:351:ASN:HD21	1:X:356:ILE:HD11	1.84	0.42
1:Z:101:PHE:CD2	1:Z:169:MET:HG2	2.54	0.42
1:Z:351:ASN:HD21	1:Z:356:ILE:HD11	1.83	0.42
1:S:284:SER:CA	1:S:296:GLU:OE2	2.66	0.42
1:a:101:PHE:CD2	1:a:169:MET:HG2	2.54	0.42
1:a:304:GLN:HE21	1:a:498:ASN:HA	1.85	0.42
1:4:236:ILE:HG21	1:6:529:THR:HG21	2.02	0.42
1:5:261:GLY:HA2	1:5:304:GLN:HB2	2.02	0.42
1:7:304:GLN:HE21	1:7:498:ASN:HA	1.85	0.42
1:I:261:GLY:HA2	1:I:304:GLN:HB2	2.02	0.42
1:J:304:GLN:HE21	1:J:498:ASN:HA	1.85	0.42
1:J:471:ILE:O	1:J:472:PRO:O	2.38	0.42
1:M:261:GLY:HA2	1:M:304:GLN:HB2	2.02	0.42
1:f:261:GLY:HA2	1:f:304:GLN:HB2	2.02	0.42
1:j:101:PHE:CD2	1:j:169:MET:HG2	2.54	0.42
1:j:111:LEU:HD23	1:j:111:LEU:HA	1.91	0.42
1:k:300:LEU:HG	1:k:301:THR:N	2.34	0.42
1:l:300:LEU:HG	1:l:301:THR:N	2.34	0.42
1:n:300:LEU:HG	1:n:301:THR:N	2.34	0.42
1:p:304:GLN:HE21	1:p:498:ASN:HA	1.85	0.42
1:p:461:PRO:HA	1:p:466:GLU:CG	2.46	0.42
1:v:304:GLN:HE21	1:v:498:ASN:HA	1.85	0.42
1:1:261:GLY:HA2	1:1:304:GLN:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:461:PRO:HA	1:z:466:GLU:CG	2.46	0.42
1:A:111:LEU:HD23	1:A:111:LEU:HA	1.91	0.42
1:G:102:SER:OG	1:G:226:THR:OG1	2.35	0.42
1:N:101:PHE:CD2	1:N:169:MET:HG2	2.54	0.42
1:N:111:LEU:HD23	1:N:111:LEU:HA	1.91	0.42
1:P:300:LEU:HG	1:P:301:THR:N	2.34	0.42
1:X:261:GLY:HA2	1:X:304:GLN:HB2	2.02	0.42
1:S:132:ALA:HB2	1:S:213:GLN:OE1	2.19	0.42
1:S:336:HIS:HB3	1:S:339:TRP:CD1	2.51	0.42
1:O:300:LEU:HG	1:O:301:THR:N	2.34	0.42
1:d:57:PRO:HB3	1:o:204:THR:HG21	2.02	0.42
1:3:241:LEU:HD13	1:7:94:LYS:N	2.35	0.42
1:3:261:GLY:HA2	1:3:304:GLN:HB2	2.02	0.42
1:3:351:ASN:HD21	1:3:356:ILE:HD11	1.84	0.42
1:7:101:PHE:CD2	1:7:169:MET:HG2	2.54	0.42
1:7:261:GLY:HA2	1:7:304:GLN:HB2	2.02	0.42
1:K:261:GLY:HA2	1:K:304:GLN:HB2	2.02	0.42
1:M:101:PHE:CD2	1:M:169:MET:HG2	2.54	0.42
1:i:471:ILE:O	1:i:472:PRO:O	2.38	0.42
1:l:261:GLY:HA2	1:l:304:GLN:HB2	2.02	0.42
1:n:304:GLN:HE21	1:n:498:ASN:HA	1.85	0.42
1:o:300:LEU:HG	1:o:301:THR:N	2.34	0.42
1:q:261:GLY:HA2	1:q:304:GLN:HB2	2.02	0.42
1:t:261:GLY:HA2	1:t:304:GLN:HB2	2.02	0.42
1:u:261:GLY:HA2	1:u:304:GLN:HB2	2.02	0.42
1:v:461:PRO:HA	1:v:466:GLU:CG	2.45	0.42
1:x:304:GLN:HE21	1:x:498:ASN:HA	1.85	0.42
1:1:104:LYS:HB2	1:1:224:ILE:HB	2.02	0.42
1:z:304:GLN:HE21	1:z:498:ASN:HA	1.85	0.42
1:B:236:ILE:HG21	1:E:529:THR:HG21	2.02	0.42
1:G:304:GLN:HE21	1:G:498:ASN:HA	1.85	0.42
1:Q:471:ILE:O	1:Q:472:PRO:O	2.38	0.42
1:S:101:PHE:CD2	1:S:169:MET:HG2	2.54	0.42
1:O:57:PRO:HB3	1:J:204:THR:HG21	2.02	0.41
1:O:104:LYS:HB2	1:O:224:ILE:HB	2.02	0.41
1:b:261:GLY:HA2	1:b:304:GLN:HB2	2.02	0.41
1:d:304:GLN:HE21	1:d:498:ASN:HA	1.85	0.41
1:4:261:GLY:HA2	1:4:304:GLN:HB2	2.02	0.41
1:4:304:GLN:HE21	1:4:498:ASN:HA	1.85	0.41
1:K:57:PRO:HB3	1:k:204:THR:HG21	2.02	0.41
1:K:104:LYS:HB2	1:K:224:ILE:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:261:GLY:HA2	1:L:304:GLN:HB2	2.02	0.41
1:M:471:ILE:O	1:M:472:PRO:O	2.38	0.41
1:f:104:LYS:HB2	1:f:224:ILE:HB	2.02	0.41
1:f:293:LYS:NZ	1:f:367:PHE:O	2.53	0.41
1:f:471:ILE:O	1:f:472:PRO:O	2.38	0.41
1:h:293:LYS:NZ	1:h:367:PHE:O	2.53	0.41
1:k:471:ILE:O	1:k:472:PRO:O	2.38	0.41
1:l:471:ILE:O	1:l:472:PRO:O	2.38	0.41
1:m:405:PHE:CE2	1:m:441:ILE:HG13	2.55	0.41
1:o:104:LYS:HB2	1:o:224:ILE:HB	2.02	0.41
1:p:101:PHE:CD2	1:p:169:MET:HG2	2.54	0.41
1:q:293:LYS:NZ	1:q:367:PHE:O	2.53	0.41
1:s:304:GLN:HE21	1:s:498:ASN:HA	1.85	0.41
1:t:102:SER:OG	1:t:226:THR:OG1	2.35	0.41
1:u:111:LEU:HD23	1:u:111:LEU:HA	1.91	0.41
1:x:405:PHE:CE2	1:x:441:ILE:HG13	2.55	0.41
1:y:304:GLN:HE21	1:y:498:ASN:HA	1.85	0.41
1:O:261:GLY:HA2	1:O:304:GLN:HB2	2.02	0.41
1:O:304:GLN:HE21	1:O:498:ASN:HA	1.85	0.41
1:A:102:SER:OG	1:A:226:THR:OG1	2.35	0.41
1:A:261:GLY:HA2	1:A:304:GLN:HB2	2.02	0.41
1:F:304:GLN:HE21	1:F:498:ASN:HA	1.85	0.41
1:G:405:PHE:CE2	1:G:441:ILE:HG21	2.56	0.41
1:H:261:GLY:HA2	1:H:304:GLN:HB2	2.02	0.41
1:N:323:TYR:HB3	1:N:360:TYR:CE2	2.55	0.41
1:P:304:GLN:HE21	1:P:498:ASN:HA	1.85	0.41
1:P:471:ILE:O	1:P:472:PRO:O	2.38	0.41
1:T:471:ILE:O	1:T:472:PRO:O	2.38	0.41
1:U:304:GLN:HE21	1:U:498:ASN:HA	1.85	0.41
1:V:471:ILE:O	1:V:472:PRO:O	2.38	0.41
1:Y:236:ILE:HG21	1:C:529:THR:HG21	2.02	0.41
1:Z:284:SER:CA	1:Z:296:GLU:OE2	2.66	0.41
1:Z:293:LYS:NZ	1:Z:367:PHE:O	2.53	0.41
1:S:300:LEU:HG	1:S:301:THR:N	2.34	0.41
1:S:471:ILE:O	1:S:472:PRO:O	2.38	0.41
1:a:405:PHE:CE2	1:a:441:ILE:HG13	2.56	0.41
1:b:293:LYS:NZ	1:b:367:PHE:O	2.54	0.41
1:c:293:LYS:NZ	1:c:367:PHE:O	2.53	0.41
1:d:323:TYR:HB3	1:d:360:TYR:CE2	2.56	0.41
1:4:55:TRP:O	1:q:204:THR:OG1	2.20	0.41
1:6:405:PHE:CE2	1:6:441:ILE:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:304:GLN:HE21	1:L:498:ASN:HA	1.85	0.41
1:M:209:GLN:CD	1:W:207:LYS:HZ1	2.23	0.41
1:M:405:PHE:CE2	1:M:441:ILE:HG13	2.56	0.41
1:g:94:LYS:N	1:h:241:LEU:HD13	2.33	0.41
1:g:405:PHE:CE2	1:g:441:ILE:HG21	2.55	0.41
1:h:405:PHE:CE2	1:h:441:ILE:HG21	2.56	0.41
1:h:471:ILE:O	1:h:472:PRO:O	2.38	0.41
1:i:261:GLY:HA2	1:i:304:GLN:HB2	2.02	0.41
1:j:300:LEU:HG	1:j:301:THR:N	2.34	0.41
1:k:293:LYS:NZ	1:k:367:PHE:O	2.54	0.41
1:l:304:GLN:HE21	1:l:498:ASN:HA	1.85	0.41
1:n:104:LYS:HB2	1:n:224:ILE:HB	2.02	0.41
1:n:471:ILE:O	1:n:472:PRO:O	2.38	0.41
1:o:304:GLN:HE21	1:o:498:ASN:HA	1.85	0.41
1:r:293:LYS:NZ	1:r:367:PHE:O	2.54	0.41
1:t:300:LEU:HG	1:t:301:THR:N	2.34	0.41
1:u:293:LYS:NZ	1:u:367:PHE:O	2.54	0.41
1:u:471:ILE:O	1:u:472:PRO:O	2.38	0.41
1:x:405:PHE:CE2	1:x:441:ILE:HG21	2.56	0.41
1:y:102:SER:OG	1:y:226:THR:OG1	2.35	0.41
1:O:104:LYS:HB2	1:O:224:ILE:HB	2.02	0.41
1:O:405:PHE:CE2	1:O:441:ILE:HG21	2.56	0.41
1:A:293:LYS:NZ	1:A:367:PHE:O	2.54	0.41
1:A:323:TYR:HB3	1:A:360:TYR:CE2	2.55	0.41
1:A:471:ILE:O	1:A:472:PRO:O	2.38	0.41
1:B:304:GLN:HE21	1:B:498:ASN:HA	1.85	0.41
1:D:293:LYS:NZ	1:D:367:PHE:O	2.54	0.41
1:D:304:GLN:HE21	1:D:498:ASN:HA	1.85	0.41
1:D:405:PHE:CE2	1:D:441:ILE:HG21	2.56	0.41
1:F:471:ILE:O	1:F:472:PRO:O	2.38	0.41
1:G:241:LEU:HD13	1:Q:94:LYS:CA	2.47	0.41
1:G:405:PHE:CE2	1:G:441:ILE:HG13	2.56	0.41
1:G:471:ILE:O	1:G:472:PRO:O	2.38	0.41
1:H:405:PHE:CE2	1:H:441:ILE:HG21	2.56	0.41
1:H:405:PHE:CE2	1:H:441:ILE:HG13	2.56	0.41
1:N:102:SER:OG	1:N:226:THR:OG1	2.35	0.41
1:Q:293:LYS:NZ	1:Q:367:PHE:O	2.54	0.41
1:R:471:ILE:O	1:R:472:PRO:O	2.38	0.41
1:T:261:GLY:HA2	1:T:304:GLN:HB2	2.02	0.41
1:U:293:LYS:NZ	1:U:367:PHE:O	2.54	0.41
1:U:471:ILE:O	1:U:472:PRO:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:104:LYS:HB2	1:V:224:ILE:HB	2.02	0.41
1:V:323:TYR:HB3	1:V:360:TYR:CE2	2.56	0.41
1:X:300:LEU:HG	1:X:301:THR:N	2.34	0.41
1:X:471:ILE:O	1:X:472:PRO:O	2.38	0.41
1:Y:102:SER:OG	1:Y:226:THR:OG1	2.35	0.41
1:Y:304:GLN:HE21	1:Y:498:ASN:HA	1.85	0.41
1:Z:304:GLN:HE21	1:Z:498:ASN:HA	1.85	0.41
1:Z:405:PHE:CE2	1:Z:441:ILE:HG21	2.55	0.41
1:S:405:PHE:CE2	1:S:441:ILE:HG21	2.55	0.41
1:O:293:LYS:NZ	1:O:367:PHE:O	2.54	0.41
1:b:405:PHE:CE2	1:b:441:ILE:HG21	2.56	0.41
1:c:300:LEU:HG	1:c:301:THR:N	2.34	0.41
1:c:405:PHE:CE2	1:c:441:ILE:HG13	2.56	0.41
1:3:101:PHE:CD2	1:3:169:MET:HG2	2.54	0.41
1:3:405:PHE:CE2	1:3:441:ILE:HG13	2.56	0.41
1:3:471:ILE:O	1:3:472:PRO:O	2.38	0.41
1:4:471:ILE:O	1:4:472:PRO:O	2.38	0.41
1:5:293:LYS:NZ	1:5:367:PHE:O	2.54	0.41
1:6:104:LYS:HB2	1:6:224:ILE:HB	2.02	0.41
1:6:523:LYS:HE3	1:6:523:LYS:HB3	1.85	0.41
1:7:405:PHE:CE2	1:7:441:ILE:HG21	2.56	0.41
1:I:293:LYS:NZ	1:I:367:PHE:O	2.54	0.41
1:J:94:LYS:N	1:M:241:LEU:HD13	2.36	0.41
1:K:405:PHE:CE2	1:K:441:ILE:HG21	2.56	0.41
1:L:471:ILE:O	1:L:472:PRO:O	2.38	0.41
1:M:405:PHE:CE2	1:M:441:ILE:HG21	2.56	0.41
1:e:405:PHE:CE2	1:e:441:ILE:HG13	2.56	0.41
1:h:261:GLY:HA2	1:h:304:GLN:HB2	2.02	0.41
1:h:405:PHE:CE2	1:h:441:ILE:HG13	2.55	0.41
1:j:102:SER:OG	1:j:226:THR:OG1	2.35	0.41
1:j:323:TYR:HB3	1:j:360:TYR:CE2	2.56	0.41
1:k:284:SER:CA	1:k:296:GLU:OE2	2.66	0.41
1:m:405:PHE:CE2	1:m:441:ILE:HG21	2.56	0.41
1:n:405:PHE:CE2	1:n:441:ILE:HG13	2.56	0.41
1:n:405:PHE:CE2	1:n:441:ILE:HG21	2.56	0.41
1:o:293:LYS:NZ	1:o:367:PHE:O	2.54	0.41
1:q:405:PHE:CE2	1:q:441:ILE:HG21	2.56	0.41
1:r:104:LYS:HB2	1:r:224:ILE:HB	2.02	0.41
1:s:323:TYR:HB3	1:s:360:TYR:CE2	2.56	0.41
1:t:241:LEU:HD13	1:F:94:LYS:N	2.36	0.41
1:t:471:ILE:O	1:t:472:PRO:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:323:TYR:HB3	1:u:360:TYR:CE2	2.56	0.41
1:w:293:LYS:NZ	1:w:367:PHE:O	2.54	0.41
1:w:323:TYR:HB3	1:w:360:TYR:CE2	2.55	0.41
1:x:104:LYS:HB2	1:x:224:ILE:HB	2.02	0.41
1:x:323:TYR:HB3	1:x:360:TYR:CE2	2.56	0.41
1:y:293:LYS:NZ	1:y:367:PHE:O	2.54	0.41
1:2:102:SER:OG	1:2:226:THR:OG1	2.35	0.41
1:2:111:LEU:HD23	1:2:111:LEU:HA	1.91	0.41
1:O:57:PRO:HB3	1:T:204:THR:HG21	2.02	0.41
1:O:405:PHE:CE2	1:O:441:ILE:HG13	2.56	0.41
1:z:104:LYS:HB2	1:z:224:ILE:HB	2.02	0.41
1:A:304:GLN:HE21	1:A:498:ASN:HA	1.85	0.41
1:B:300:LEU:HG	1:B:301:THR:N	2.34	0.41
1:D:284:SER:CA	1:D:296:GLU:OE2	2.66	0.41
1:E:293:LYS:NZ	1:E:367:PHE:O	2.53	0.41
1:F:405:PHE:CE2	1:F:441:ILE:HG21	2.56	0.41
1:G:104:LYS:HB2	1:G:224:ILE:HB	2.02	0.41
1:Q:104:LYS:HB2	1:Q:224:ILE:HB	2.02	0.41
1:Q:284:SER:CA	1:Q:296:GLU:OE2	2.66	0.41
1:U:405:PHE:CE2	1:U:441:ILE:HG21	2.56	0.41
1:V:293:LYS:NZ	1:V:367:PHE:O	2.54	0.41
1:X:241:LEU:HD13	1:S:94:LYS:N	2.35	0.41
1:C:293:LYS:NZ	1:C:367:PHE:O	2.54	0.41
1:S:104:LYS:HB2	1:S:224:ILE:HB	2.02	0.41
1:S:304:GLN:HE21	1:S:498:ASN:HA	1.85	0.41
1:O:101:PHE:CD2	1:O:169:MET:HG2	2.54	0.41
1:O:304:GLN:HE21	1:O:498:ASN:HA	1.85	0.41
1:O:405:PHE:CE2	1:O:441:ILE:HG13	2.56	0.41
1:c:104:LYS:HB2	1:c:224:ILE:HB	2.02	0.41
1:c:471:ILE:O	1:c:472:PRO:O	2.38	0.41
1:3:405:PHE:CE2	1:3:441:ILE:HG21	2.56	0.41
1:4:293:LYS:NZ	1:4:367:PHE:O	2.54	0.41
1:5:323:TYR:HB3	1:5:360:TYR:CE2	2.56	0.41
1:7:323:TYR:HB3	1:7:360:TYR:CE2	2.55	0.41
1:J:101:PHE:CD2	1:J:169:MET:HG2	2.54	0.41
1:J:405:PHE:CE2	1:J:441:ILE:HG21	2.56	0.41
1:L:293:LYS:NZ	1:L:367:PHE:O	2.53	0.41
1:M:323:TYR:HB3	1:M:360:TYR:CE2	2.56	0.41
1:e:102:SER:OG	1:e:226:THR:OG1	2.35	0.41
1:e:405:PHE:CE2	1:e:441:ILE:HG21	2.56	0.41
1:f:405:PHE:CE2	1:f:441:ILE:HG13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:471:ILE:O	1:g:472:PRO:O	2.38	0.41
1:h:482:SER:OG	1:h:493:ASP:N	2.52	0.41
1:k:104:LYS:HB2	1:k:224:ILE:HB	2.02	0.41
1:k:261:GLY:HA2	1:k:304:GLN:HB2	2.02	0.41
1:m:471:ILE:O	1:m:472:PRO:O	2.38	0.41
1:p:405:PHE:CE2	1:p:441:ILE:HG13	2.56	0.41
1:p:471:ILE:O	1:p:472:PRO:O	2.38	0.41
1:r:405:PHE:CE2	1:r:441:ILE:HG13	2.56	0.41
1:r:471:ILE:O	1:r:472:PRO:O	2.38	0.41
1:u:304:GLN:HE21	1:u:498:ASN:HA	1.85	0.41
1:v:104:LYS:HB2	1:v:224:ILE:HB	2.02	0.41
1:v:323:TYR:HB3	1:v:360:TYR:CE2	2.56	0.41
1:w:102:SER:OG	1:w:226:THR:OG1	2.35	0.41
1:1:293:LYS:NZ	1:1:367:PHE:O	2.54	0.41
1:2:293:LYS:NZ	1:2:367:PHE:O	2.54	0.41
1:O:323:TYR:HB3	1:O:360:TYR:CE2	2.56	0.41
1:O:471:ILE:O	1:O:472:PRO:O	2.38	0.41
1:D:405:PHE:CE2	1:D:441:ILE:HG13	2.56	0.41
1:F:293:LYS:NZ	1:F:367:PHE:O	2.54	0.41
1:G:241:LEU:HD13	1:Q:94:LYS:N	2.35	0.41
1:H:94:LYS:N	1:Q:241:LEU:HD13	2.36	0.41
1:N:104:LYS:HB2	1:N:224:ILE:HB	2.02	0.41
1:P:523:LYS:HB3	1:P:523:LYS:HE3	1.85	0.41
1:Q:405:PHE:CE2	1:Q:441:ILE:HG21	2.56	0.41
1:R:304:GLN:HE21	1:R:498:ASN:HA	1.85	0.41
1:U:111:LEU:HD23	1:U:111:LEU:HA	1.91	0.41
1:U:261:GLY:HA2	1:U:304:GLN:HB2	2.02	0.41
1:U:405:PHE:CE2	1:U:441:ILE:HG13	2.56	0.41
1:V:405:PHE:CE2	1:V:441:ILE:HG13	2.56	0.41
1:W:323:TYR:HB3	1:W:360:TYR:CE2	2.56	0.41
1:W:405:PHE:CE2	1:W:441:ILE:HG21	2.56	0.41
1:Z:323:TYR:HB3	1:Z:360:TYR:CE2	2.56	0.41
1:C:471:ILE:O	1:C:472:PRO:O	2.38	0.41
1:a:471:ILE:O	1:a:472:PRO:O	2.38	0.41
1:b:304:GLN:HE21	1:b:498:ASN:HA	1.85	0.41
1:c:304:GLN:HE21	1:c:498:ASN:HA	1.85	0.41
1:c:323:TYR:HB3	1:c:360:TYR:CE2	2.56	0.41
1:L:405:PHE:CE2	1:L:441:ILE:HG21	2.56	0.41
1:M:304:GLN:HE21	1:M:498:ASN:HA	1.85	0.41
1:f:323:TYR:HB3	1:f:360:TYR:CE2	2.56	0.41
1:j:104:LYS:HB2	1:j:224:ILE:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:104:LYS:HB2	1:m:224:ILE:HB	2.02	0.41
1:o:405:PHE:CE2	1:o:441:ILE:HG13	2.56	0.41
1:r:261:GLY:HA2	1:r:304:GLN:HB2	2.02	0.41
1:r:300:LEU:HG	1:r:301:THR:N	2.34	0.41
1:r:304:GLN:HE21	1:r:498:ASN:HA	1.85	0.41
1:s:405:PHE:CE2	1:s:441:ILE:HG13	2.56	0.41
1:t:57:PRO:HB3	1:2:204:THR:HG21	2.02	0.41
1:y:323:TYR:HB3	1:y:360:TYR:CE2	2.56	0.41
1:1:102:SER:OG	1:1:226:THR:OG1	2.35	0.41
1:1:323:TYR:HB3	1:1:360:TYR:CE2	2.56	0.41
1:1:405:PHE:CE2	1:1:441:ILE:HG13	2.56	0.41
1:1:471:ILE:O	1:1:472:PRO:O	2.38	0.41
1:2:304:GLN:HE21	1:2:498:ASN:HA	1.85	0.41
1:z:323:TYR:HB3	1:z:360:TYR:CE2	2.56	0.41
1:B:293:LYS:NZ	1:B:367:PHE:O	2.54	0.41
1:D:323:TYR:HB3	1:D:360:TYR:CE2	2.56	0.41
1:E:471:ILE:O	1:E:472:PRO:O	2.38	0.41
1:G:293:LYS:NZ	1:G:367:PHE:O	2.53	0.41
1:H:104:LYS:HB2	1:H:224:ILE:HB	2.02	0.41
1:H:471:ILE:O	1:H:472:PRO:O	2.38	0.41
1:N:300:LEU:HG	1:N:301:THR:N	2.34	0.41
1:P:104:LYS:HB2	1:P:224:ILE:HB	2.02	0.41
1:Q:261:GLY:HA2	1:Q:304:GLN:HB2	2.02	0.41
1:R:405:PHE:CE2	1:R:441:ILE:HG21	2.56	0.41
1:W:304:GLN:HE21	1:W:498:ASN:HA	1.85	0.41
1:W:405:PHE:CE2	1:W:441:ILE:HG13	2.56	0.41
1:W:471:ILE:O	1:W:472:PRO:O	2.38	0.41
1:X:405:PHE:CE2	1:X:441:ILE:HG13	2.55	0.41
1:Z:405:PHE:CE2	1:Z:441:ILE:HG13	2.56	0.41
1:S:293:LYS:NZ	1:S:367:PHE:O	2.54	0.41
1:0:241:LEU:HD13	1:d:94:LYS:N	2.35	0.41
1:0:471:ILE:O	1:0:472:PRO:O	2.38	0.41
1:a:405:PHE:CE2	1:a:441:ILE:HG21	2.56	0.41
1:b:471:ILE:O	1:b:472:PRO:O	2.38	0.41
1:d:104:LYS:HB2	1:d:224:ILE:HB	2.02	0.41
1:d:405:PHE:CE2	1:d:441:ILE:HG13	2.56	0.41
1:d:471:ILE:O	1:d:472:PRO:O	2.38	0.41
1:3:293:LYS:NZ	1:3:367:PHE:O	2.54	0.41
1:3:323:TYR:HB3	1:3:360:TYR:CE2	2.56	0.41
1:I:323:TYR:HB3	1:I:360:TYR:CE2	2.56	0.41
1:J:323:TYR:HB3	1:J:360:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:523:LYS:HB3	1:K:523:LYS:HE3	1.85	0.41
1:e:104:LYS:HB2	1:e:224:ILE:HB	2.02	0.41
1:f:94:LYS:N	1:i:241:LEU:HD13	2.36	0.41
1:f:405:PHE:CE2	1:f:441:ILE:HG21	2.56	0.41
1:g:304:GLN:HE21	1:g:498:ASN:HA	1.85	0.41
1:i:323:TYR:HB3	1:i:360:TYR:CE2	2.56	0.41
1:k:405:PHE:CE2	1:k:441:ILE:HG21	2.56	0.41
1:m:323:TYR:HB3	1:m:360:TYR:CE2	2.56	0.41
1:n:293:LYS:NZ	1:n:367:PHE:O	2.54	0.41
1:o:101:PHE:CD2	1:o:169:MET:HG2	2.54	0.41
1:o:241:LEU:HD13	1:s:94:LYS:N	2.35	0.41
1:p:405:PHE:CE2	1:p:441:ILE:HG21	2.56	0.41
1:r:323:TYR:HB3	1:r:360:TYR:CE2	2.56	0.41
1:s:471:ILE:O	1:s:472:PRO:O	2.38	0.41
1:t:293:LYS:NZ	1:t:367:PHE:O	2.54	0.41
1:t:405:PHE:CE2	1:t:441:ILE:HG13	2.56	0.41
1:v:405:PHE:CD2	1:v:454:TYR:CE1	3.09	0.41
1:x:471:ILE:O	1:x:472:PRO:O	2.38	0.41
1:y:111:LEU:HD23	1:y:111:LEU:HA	1.91	0.41
1:y:405:PHE:CE2	1:y:441:ILE:HG21	2.56	0.41
1:1:304:GLN:HE21	1:1:498:ASN:HA	1.85	0.41
1:2:323:TYR:HB3	1:2:360:TYR:CE2	2.56	0.41
1:2:405:PHE:CE2	1:2:441:ILE:HG21	2.56	0.41
1:z:261:GLY:HA2	1:z:304:GLN:HB2	2.02	0.41
1:B:102:SER:OG	1:B:226:THR:OG1	2.35	0.41
1:F:104:LYS:HB2	1:F:224:ILE:HB	2.02	0.41
1:N:304:GLN:HE21	1:N:498:ASN:HA	1.85	0.41
1:Q:405:PHE:CE2	1:Q:441:ILE:HG13	2.56	0.41
1:W:104:LYS:HB2	1:W:224:ILE:HB	2.02	0.41
1:X:104:LYS:HB2	1:X:224:ILE:HB	2.02	0.41
1:X:111:LEU:HD23	1:X:111:LEU:HA	1.91	0.41
1:X:293:LYS:NZ	1:X:367:PHE:O	2.54	0.41
1:Y:300:LEU:HG	1:Y:301:THR:N	2.34	0.41
1:C:523:LYS:HE3	1:C:523:LYS:HB3	1.85	0.41
1:0:405:PHE:CE2	1:0:441:ILE:HG21	2.56	0.41
1:a:323:TYR:HB3	1:a:360:TYR:CE2	2.56	0.41
1:b:323:TYR:HB3	1:b:360:TYR:CE2	2.56	0.41
1:b:405:PHE:CE2	1:b:441:ILE:HG13	2.56	0.41
1:d:405:PHE:CE2	1:d:441:ILE:HG21	2.56	0.41
1:d:405:PHE:HD2	1:d:441:ILE:HG21	1.86	0.41
1:3:304:GLN:HE21	1:3:498:ASN:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:94:LYS:N	1:7:241:LEU:HD13	2.36	0.41
1:4:104:LYS:HB2	1:4:224:ILE:HB	2.02	0.41
1:4:405:PHE:CE2	1:4:441:ILE:HG13	2.56	0.41
1:4:405:PHE:CE2	1:4:441:ILE:HG21	2.56	0.41
1:7:348:HIS:HB3	1:7:383:ILE:HD12	2.03	0.41
1:L:405:PHE:CE2	1:L:441:ILE:HG13	2.56	0.41
1:M:293:LYS:NZ	1:M:367:PHE:O	2.54	0.41
1:e:323:TYR:HB3	1:e:360:TYR:CE2	2.56	0.41
1:f:236:ILE:HG21	1:h:529:THR:HG21	2.02	0.41
1:h:208:SER:O	1:h:208:SER:OG	2.38	0.41
1:h:323:TYR:HB3	1:h:360:TYR:CE2	2.56	0.41
1:i:405:PHE:CE2	1:i:441:ILE:HG21	2.55	0.41
1:k:304:GLN:HE21	1:k:498:ASN:HA	1.85	0.41
1:o:405:PHE:CE2	1:o:441:ILE:HG21	2.56	0.41
1:o:471:ILE:O	1:o:472:PRO:O	2.38	0.41
1:p:94:LYS:N	1:s:241:LEU:HD13	2.36	0.41
1:q:304:GLN:HE21	1:q:498:ASN:HA	1.85	0.41
1:q:405:PHE:CE2	1:q:441:ILE:HG13	2.56	0.41
1:q:471:ILE:O	1:q:472:PRO:O	2.38	0.41
1:s:104:LYS:HB2	1:s:224:ILE:HB	2.02	0.41
1:s:293:LYS:NZ	1:s:367:PHE:O	2.54	0.41
1:t:104:LYS:HB2	1:t:224:ILE:HB	2.02	0.41
1:t:111:LEU:HD23	1:t:111:LEU:HA	1.91	0.41
1:u:405:PHE:CE2	1:u:441:ILE:HG21	2.56	0.41
1:w:471:ILE:O	1:w:472:PRO:O	2.38	0.41
1:y:405:PHE:CD2	1:y:454:TYR:CE1	3.09	0.41
1:2:405:PHE:CE2	1:2:441:ILE:HG13	2.55	0.41
1:A:405:PHE:CE2	1:A:441:ILE:HG21	2.56	0.41
1:N:261:GLY:HA2	1:N:304:GLN:HB2	2.02	0.41
1:T:415:TRP:CH2	1:T:471:ILE:HD13	2.56	0.41
1:U:323:TYR:HB3	1:U:360:TYR:CE2	2.56	0.41
1:W:261:GLY:HA2	1:W:304:GLN:HB2	2.02	0.41
1:Y:293:LYS:NZ	1:Y:367:PHE:O	2.54	0.41
1:Y:482:SER:OG	1:Y:493:ASP:N	2.52	0.41
1:Z:104:LYS:HB2	1:Z:224:ILE:HB	2.02	0.41
1:C:104:LYS:HB2	1:C:224:ILE:HB	2.02	0.41
1:C:405:PHE:CE2	1:C:441:ILE:HG13	2.56	0.41
1:a:94:LYS:N	1:d:241:LEU:HD13	2.36	0.41
1:c:261:GLY:HA2	1:c:304:GLN:HB2	2.02	0.41
1:d:293:LYS:NZ	1:d:367:PHE:O	2.54	0.41
1:7:293:LYS:NZ	1:7:367:PHE:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:415:TRP:CH2	1:7:471:ILE:HD13	2.56	0.41
1:J:293:LYS:NZ	1:J:367:PHE:O	2.54	0.41
1:J:415:TRP:CH2	1:J:471:ILE:HD13	2.56	0.41
1:K:405:PHE:CD2	1:K:454:TYR:CE1	3.09	0.41
1:L:104:LYS:HB2	1:L:224:ILE:HB	2.02	0.41
1:e:471:ILE:O	1:e:472:PRO:O	2.38	0.41
1:i:415:TRP:CH2	1:i:471:ILE:HD13	2.56	0.41
1:j:261:GLY:HA2	1:j:304:GLN:HB2	2.02	0.41
1:k:236:ILE:HG21	1:m:529:THR:HG21	2.02	0.41
1:l:104:LYS:HB2	1:l:224:ILE:HB	2.02	0.41
1:l:323:TYR:HB3	1:l:360:TYR:CE2	2.56	0.41
1:o:405:PHE:CD2	1:o:454:TYR:CE1	3.09	0.41
1:p:323:TYR:HB3	1:p:360:TYR:CE2	2.56	0.41
1:s:405:PHE:CE2	1:s:441:ILE:HG21	2.56	0.41
1:s:405:PHE:HD2	1:s:441:ILE:HG21	1.86	0.41
1:u:348:HIS:HB3	1:u:383:ILE:HD12	2.03	0.41
1:v:236:ILE:HG21	1:x:529:THR:HG21	2.02	0.41
1:v:261:GLY:HA2	1:v:304:GLN:HB2	2.02	0.41
1:w:405:PHE:CE2	1:w:441:ILE:HG13	2.56	0.41
1:y:405:PHE:CE2	1:y:441:ILE:HG13	2.56	0.41
1:1:405:PHE:CE2	1:1:441:ILE:HG21	2.56	0.41
1:O:293:LYS:NZ	1:O:367:PHE:O	2.54	0.41
1:z:348:HIS:HB3	1:z:383:ILE:HD12	2.03	0.41
1:B:405:PHE:CE2	1:B:441:ILE:HG13	2.56	0.41
1:D:104:LYS:HB2	1:D:224:ILE:HB	2.02	0.41
1:E:104:LYS:HB2	1:E:224:ILE:HB	2.02	0.41
1:F:405:PHE:CE2	1:F:441:ILE:HG13	2.56	0.41
1:H:293:LYS:NZ	1:H:367:PHE:O	2.53	0.41
1:H:323:TYR:HB3	1:H:360:TYR:CE2	2.56	0.41
1:P:323:TYR:HB3	1:P:360:TYR:CE2	2.56	0.41
1:Q:323:TYR:HB3	1:Q:360:TYR:CE2	2.56	0.41
1:R:293:LYS:NZ	1:R:367:PHE:O	2.54	0.41
1:T:293:LYS:NZ	1:T:367:PHE:O	2.54	0.41
1:W:102:SER:OG	1:W:226:THR:OG1	2.35	0.41
1:X:405:PHE:CE2	1:X:441:ILE:HG21	2.56	0.41
1:S:405:PHE:CE2	1:S:441:ILE:HG13	2.56	0.41
1:S:523:LYS:HB3	1:S:523:LYS:HE3	1.85	0.41
1:0:348:HIS:HB3	1:0:383:ILE:HD12	2.03	0.41
1:a:293:LYS:NZ	1:a:367:PHE:O	2.54	0.41
1:b:104:LYS:HB2	1:b:224:ILE:HB	2.02	0.41
1:c:405:PHE:CE2	1:c:441:ILE:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:415:TRP:CH2	1:c:471:ILE:HD13	2.56	0.41
1:d:415:TRP:CH2	1:d:471:ILE:HD13	2.56	0.41
1:5:471:ILE:O	1:5:472:PRO:O	2.38	0.41
1:6:405:PHE:CD2	1:6:454:TYR:CE1	3.09	0.41
1:6:415:TRP:CH2	1:6:471:ILE:HD13	2.56	0.41
1:I:471:ILE:O	1:I:472:PRO:O	2.38	0.41
1:J:348:HIS:HB3	1:J:383:ILE:HD12	2.03	0.41
1:J:405:PHE:CE2	1:J:441:ILE:HG13	2.55	0.41
1:K:415:TRP:CH2	1:K:471:ILE:HD13	2.56	0.41
1:e:261:GLY:HA2	1:e:304:GLN:HB2	2.02	0.41
1:e:304:GLN:HE21	1:e:498:ASN:HA	1.85	0.41
1:e:415:TRP:CH2	1:e:471:ILE:HD13	2.56	0.41
1:f:304:GLN:HE21	1:f:498:ASN:HA	1.85	0.41
1:f:415:TRP:CH2	1:f:471:ILE:HD13	2.56	0.41
1:g:104:LYS:HB2	1:g:224:ILE:HB	2.02	0.41
1:g:293:LYS:NZ	1:g:367:PHE:O	2.54	0.41
1:g:405:PHE:HD2	1:g:441:ILE:HG21	1.86	0.41
1:i:293:LYS:NZ	1:i:367:PHE:O	2.54	0.41
1:j:293:LYS:NZ	1:j:367:PHE:O	2.54	0.41
1:j:304:GLN:HE21	1:j:498:ASN:HA	1.85	0.41
1:j:405:PHE:CD2	1:j:454:TYR:CE1	3.09	0.41
1:k:94:LYS:N	1:n:241:LEU:HD13	2.36	0.41
1:k:323:TYR:HB3	1:k:360:TYR:CE2	2.56	0.41
1:k:405:PHE:CE2	1:k:441:ILE:HG13	2.56	0.41
1:l:293:LYS:NZ	1:l:367:PHE:O	2.54	0.41
1:l:523:LYS:HB3	1:l:523:LYS:HE3	1.85	0.41
1:m:293:LYS:NZ	1:m:367:PHE:O	2.54	0.41
1:m:348:HIS:HB3	1:m:383:ILE:HD12	2.03	0.41
1:n:323:TYR:HB3	1:n:360:TYR:CE2	2.56	0.41
1:o:261:GLY:HA2	1:o:304:GLN:HB2	2.02	0.41
1:o:348:HIS:HB3	1:o:383:ILE:HD12	2.03	0.41
1:p:293:LYS:NZ	1:p:367:PHE:O	2.54	0.41
1:p:405:PHE:HD2	1:p:441:ILE:HG21	1.86	0.41
1:q:104:LYS:HB2	1:q:224:ILE:HB	2.02	0.41
1:q:323:TYR:HB3	1:q:360:TYR:CE2	2.56	0.41
1:q:523:LYS:HB3	1:q:523:LYS:HE3	1.85	0.41
1:r:415:TRP:CH2	1:r:471:ILE:HD13	2.56	0.41
1:s:415:TRP:CH2	1:s:471:ILE:HD13	2.56	0.41
1:t:323:TYR:HB3	1:t:360:TYR:CE2	2.56	0.41
1:t:405:PHE:CE2	1:t:441:ILE:HG21	2.56	0.41
1:v:293:LYS:NZ	1:v:367:PHE:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:405:PHE:CE2	1:v:441:ILE:HG13	2.56	0.41
1:v:471:ILE:O	1:v:472:PRO:O	2.38	0.41
1:w:304:GLN:HE21	1:w:498:ASN:HA	1.85	0.41
1:w:405:PHE:CE2	1:w:441:ILE:HG21	2.56	0.41
1:x:293:LYS:NZ	1:x:367:PHE:O	2.54	0.41
1:z:293:LYS:NZ	1:z:367:PHE:O	2.53	0.41
1:z:405:PHE:CE2	1:z:441:ILE:HG13	2.56	0.41
1:A:104:LYS:HB2	1:A:224:ILE:HB	2.02	0.41
1:A:348:HIS:HB3	1:A:383:ILE:HD12	2.03	0.41
1:B:104:LYS:HB2	1:B:224:ILE:HB	2.02	0.41
1:B:482:SER:OG	1:B:493:ASP:N	2.52	0.41
1:D:415:TRP:CH2	1:D:471:ILE:HD13	2.56	0.41
1:D:471:ILE:O	1:D:472:PRO:O	2.38	0.41
1:E:261:GLY:HA2	1:E:304:GLN:HB2	2.02	0.41
1:E:405:PHE:CE2	1:E:441:ILE:HG13	2.56	0.41
1:E:482:SER:OG	1:E:493:ASP:N	2.52	0.41
1:G:323:TYR:HB3	1:G:360:TYR:CE2	2.56	0.41
1:N:405:PHE:CD2	1:N:454:TYR:CE1	3.09	0.41
1:P:293:LYS:NZ	1:P:367:PHE:O	2.54	0.41
1:P:415:TRP:CH2	1:P:471:ILE:HD13	2.56	0.41
1:Q:304:GLN:HE21	1:Q:498:ASN:HA	1.85	0.41
1:R:261:GLY:HA2	1:R:304:GLN:HB2	2.02	0.41
1:T:323:TYR:HB3	1:T:360:TYR:CE2	2.56	0.41
1:T:405:PHE:CE2	1:T:441:ILE:HG21	2.56	0.41
1:V:405:PHE:CE2	1:V:441:ILE:HG21	2.56	0.41
1:V:415:TRP:CH2	1:V:471:ILE:HD13	2.56	0.41
1:W:415:TRP:CH2	1:W:471:ILE:HD13	2.56	0.41
1:X:323:TYR:HB3	1:X:360:TYR:CE2	2.56	0.41
1:Y:104:LYS:HB2	1:Y:224:ILE:HB	2.02	0.41
1:Z:405:PHE:CD2	1:Z:454:TYR:CE1	3.09	0.41
1:Z:415:TRP:CH2	1:Z:471:ILE:HD13	2.56	0.41
1:Z:471:ILE:O	1:Z:472:PRO:O	2.38	0.41
1:C:261:GLY:HA2	1:C:304:GLN:HB2	2.02	0.41
1:C:482:SER:OG	1:C:493:ASP:N	2.52	0.41
1:O:261:GLY:HA2	1:O:304:GLN:HB2	2.02	0.41
1:a:236:ILE:HG21	1:c:529:THR:HG21	2.02	0.41
1:a:405:PHE:HD2	1:a:441:ILE:HG21	1.86	0.41
1:b:523:LYS:HB3	1:b:523:LYS:HE3	1.85	0.41
1:4:323:TYR:HB3	1:4:360:TYR:CE2	2.56	0.41
1:L:300:LEU:HG	1:L:301:THR:H	1.86	0.41
1:L:300:LEU:HG	1:L:301:THR:N	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:348:HIS:HB3	1:f:383:ILE:HD12	2.03	0.41
1:n:415:TRP:CH2	1:n:471:ILE:HD13	2.56	0.41
1:r:405:PHE:CE2	1:r:441:ILE:HG21	2.56	0.41
1:u:234:TYR:CE2	1:y:68:MET:CB	3.04	0.41
1:u:405:PHE:CE2	1:u:441:ILE:HG13	2.56	0.41
1:v:348:HIS:HB3	1:v:383:ILE:HD12	2.03	0.41
1:x:523:LYS:HB3	1:x:523:LYS:HE3	1.85	0.41
1:2:57:PRO:HB3	1:S:204:THR:HG21	2.03	0.41
1:z:471:ILE:O	1:z:472:PRO:O	2.38	0.41
1:A:300:LEU:HG	1:A:301:THR:H	1.86	0.41
1:A:405:PHE:CE2	1:A:441:ILE:HG13	2.56	0.41
1:D:300:LEU:HG	1:D:301:THR:H	1.86	0.41
1:D:405:PHE:CD2	1:D:454:TYR:CE1	3.09	0.41
1:E:415:TRP:CH2	1:E:471:ILE:HD13	2.56	0.41
1:F:261:GLY:HA2	1:F:304:GLN:HB2	2.02	0.41
1:N:293:LYS:NZ	1:N:367:PHE:O	2.54	0.41
1:R:104:LYS:HB2	1:R:224:ILE:HB	2.02	0.41
1:R:405:PHE:HD2	1:R:441:ILE:HG21	1.86	0.41
1:T:104:LYS:HB2	1:T:224:ILE:HB	2.03	0.41
1:U:482:SER:OG	1:U:493:ASP:N	2.52	0.41
1:V:304:GLN:HE21	1:V:498:ASN:HA	1.85	0.41
1:X:304:GLN:HE21	1:X:498:ASN:HA	1.85	0.41
1:X:415:TRP:CH2	1:X:471:ILE:HD13	2.56	0.41
1:C:415:TRP:CH2	1:C:471:ILE:HD13	2.56	0.41
1:a:261:GLY:HA2	1:a:304:GLN:HB2	2.02	0.40
1:a:348:HIS:HB3	1:a:383:ILE:HD12	2.03	0.40
1:c:348:HIS:HB3	1:c:383:ILE:HD12	2.03	0.40
1:3:523:LYS:HE3	1:3:523:LYS:HB3	1.85	0.40
1:5:405:PHE:CE2	1:5:441:ILE:HG21	2.55	0.40
1:6:323:TYR:HB3	1:6:360:TYR:CE2	2.56	0.40
1:6:471:ILE:O	1:6:472:PRO:O	2.38	0.40
1:I:348:HIS:HB3	1:I:383:ILE:HD12	2.03	0.40
1:I:415:TRP:CH2	1:I:471:ILE:HD13	2.56	0.40
1:K:300:LEU:HG	1:K:301:THR:H	1.87	0.40
1:K:304:GLN:HE21	1:K:498:ASN:HA	1.85	0.40
1:L:323:TYR:HB3	1:L:360:TYR:CE2	2.56	0.40
1:M:300:LEU:HG	1:M:301:THR:H	1.86	0.40
1:e:405:PHE:HD2	1:e:441:ILE:HG21	1.86	0.40
1:g:348:HIS:HB3	1:g:383:ILE:HD12	2.03	0.40
1:h:104:LYS:HB2	1:h:224:ILE:HB	2.02	0.40
1:i:104:LYS:HB2	1:i:224:ILE:HB	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:405:PHE:CE2	1:i:441:ILE:HG13	2.56	0.40
1:j:405:PHE:CE2	1:j:441:ILE:HG13	2.56	0.40
1:j:405:PHE:CE2	1:j:441:ILE:HG21	2.56	0.40
1:j:471:ILE:O	1:j:472:PRO:O	2.38	0.40
1:l:415:TRP:CH2	1:l:471:ILE:HD13	2.56	0.40
1:p:236:ILE:HG21	1:r:529:THR:HG21	2.02	0.40
1:p:405:PHE:CD2	1:p:454:TYR:CE1	3.09	0.40
1:r:348:HIS:HB3	1:r:383:ILE:HD12	2.03	0.40
1:r:398:ALA:HB2	1:r:428:LEU:C	2.47	0.40
1:t:304:GLN:HE21	1:t:498:ASN:HA	1.85	0.40
1:t:415:TRP:CH2	1:t:471:ILE:HD13	2.56	0.40
1:x:415:TRP:CH2	1:x:471:ILE:HD13	2.56	0.40
1:y:104:LYS:HB2	1:y:224:ILE:HB	2.02	0.40
1:y:398:ALA:HB2	1:y:428:LEU:C	2.47	0.40
1:1:241:LEU:HD13	1:A:94:LYS:N	2.36	0.40
1:z:405:PHE:CE2	1:z:441:ILE:HG21	2.56	0.40
1:A:405:PHE:HD2	1:A:441:ILE:HG21	1.86	0.40
1:A:482:SER:OG	1:A:493:ASP:N	2.52	0.40
1:H:348:HIS:HB3	1:H:383:ILE:HD12	2.03	0.40
1:N:405:PHE:CE2	1:N:441:ILE:HG13	2.56	0.40
1:R:241:LEU:HD13	1:W:94:LYS:N	2.35	0.40
1:R:323:TYR:HB3	1:R:360:TYR:CE2	2.56	0.40
1:T:94:LYS:N	1:W:241:LEU:HD13	2.36	0.40
1:V:348:HIS:HB3	1:V:383:ILE:HD12	2.03	0.40
1:Y:405:PHE:CE2	1:Y:441:ILE:HG13	2.56	0.40
1:Y:471:ILE:O	1:Y:472:PRO:O	2.38	0.40
1:Z:348:HIS:HB3	1:Z:383:ILE:HD12	2.03	0.40
1:0:323:TYR:HB3	1:0:360:TYR:CE2	2.56	0.40
1:d:398:ALA:HB2	1:d:428:LEU:C	2.47	0.40
1:4:300:LEU:HG	1:4:301:THR:N	2.34	0.40
1:4:300:LEU:HG	1:4:301:THR:H	1.86	0.40
1:4:398:ALA:HB2	1:4:428:LEU:C	2.47	0.40
1:5:348:HIS:HB3	1:5:383:ILE:HD12	2.03	0.40
1:5:415:TRP:CH2	1:5:471:ILE:HD13	2.56	0.40
1:6:300:LEU:HG	1:6:301:THR:H	1.87	0.40
1:6:348:HIS:HB3	1:6:383:ILE:HD12	2.03	0.40
1:6:405:PHE:CE2	1:6:441:ILE:HG13	2.56	0.40
1:6:482:SER:OG	1:6:493:ASP:N	2.52	0.40
1:7:405:PHE:CE2	1:7:441:ILE:HG13	2.56	0.40
1:I:304:GLN:HE21	1:I:498:ASN:HA	1.85	0.40
1:J:104:LYS:HB2	1:J:224:ILE:HB	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:323:TYR:HB3	1:K:360:TYR:CE2	2.56	0.40
1:K:471:ILE:O	1:K:472:PRO:O	2.38	0.40
1:L:398:ALA:HB2	1:L:428:LEU:C	2.47	0.40
1:M:104:LYS:HB2	1:M:224:ILE:HB	2.02	0.40
1:f:405:PHE:HD2	1:f:441:ILE:HG21	1.86	0.40
1:l:300:LEU:HG	1:l:301:THR:H	1.87	0.40
1:l:405:PHE:CE2	1:l:441:ILE:HG21	2.56	0.40
1:m:482:SER:OG	1:m:493:ASP:N	2.52	0.40
1:o:323:TYR:HB3	1:o:360:TYR:CE2	2.56	0.40
1:p:261:GLY:HA2	1:p:304:GLN:HB2	2.02	0.40
1:p:348:HIS:HB3	1:p:383:ILE:HD12	2.03	0.40
1:u:104:LYS:HB2	1:u:224:ILE:HB	2.02	0.40
1:u:415:TRP:CH2	1:u:471:ILE:HD13	2.56	0.40
1:v:405:PHE:CE2	1:v:441:ILE:HG21	2.56	0.40
1:y:415:TRP:CH2	1:y:471:ILE:HD13	2.56	0.40
1:1:234:TYR:CE2	1:A:68:MET:CB	3.05	0.40
1:2:94:LYS:N	1:A:241:LEU:HD13	2.36	0.40
1:2:104:LYS:HB2	1:2:224:ILE:HB	2.02	0.40
1:O:300:LEU:HG	1:O:301:THR:H	1.86	0.40
1:O:415:TRP:CH2	1:O:471:ILE:HD13	2.56	0.40
1:z:142:TYR:O	1:z:149:TYR:OH	2.26	0.40
1:A:415:TRP:CH2	1:A:471:ILE:HD13	2.56	0.40
1:B:405:PHE:CE2	1:B:441:ILE:HG21	2.56	0.40
1:E:405:PHE:CE2	1:E:441:ILE:HG21	2.56	0.40
1:E:523:LYS:HB3	1:E:523:LYS:HE3	1.85	0.40
1:G:415:TRP:CH2	1:G:471:ILE:HD13	2.56	0.40
1:N:405:PHE:CE2	1:N:441:ILE:HG21	2.55	0.40
1:R:348:HIS:HB3	1:R:383:ILE:HD12	2.03	0.40
1:T:405:PHE:CE2	1:T:441:ILE:HG13	2.56	0.40
1:U:104:LYS:HB2	1:U:224:ILE:HB	2.02	0.40
1:U:415:TRP:CH2	1:U:471:ILE:HD13	2.56	0.40
1:W:348:HIS:HB3	1:W:383:ILE:HD12	2.03	0.40
1:Y:348:HIS:HB3	1:Y:383:ILE:HD12	2.03	0.40
1:C:304:GLN:HE21	1:C:498:ASN:HA	1.85	0.40
1:C:405:PHE:CE2	1:C:441:ILE:HG21	2.56	0.40
1:a:405:PHE:CD2	1:a:454:TYR:CE1	3.09	0.40
1:b:300:LEU:HG	1:b:301:THR:H	1.87	0.40
1:c:398:ALA:HB2	1:c:428:LEU:C	2.47	0.40
1:d:386:THR:OG1	1:d:473:LEU:HD12	2.22	0.40
1:3:104:LYS:HB2	1:3:224:ILE:HB	2.02	0.40
1:3:208:SER:O	1:3:208:SER:OG	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:386:THR:OG1	1:4:473:LEU:HD12	2.22	0.40
1:4:415:TRP:CH2	1:4:471:ILE:HD13	2.56	0.40
1:5:104:LYS:HB2	1:5:224:ILE:HB	2.02	0.40
1:5:398:ALA:HB2	1:5:428:LEU:C	2.47	0.40
1:5:405:PHE:CE2	1:5:441:ILE:HG13	2.56	0.40
1:6:293:LYS:NZ	1:6:367:PHE:O	2.54	0.40
1:6:398:ALA:HB2	1:6:428:LEU:C	2.47	0.40
1:I:241:LEU:HD13	1:M:94:LYS:N	2.35	0.40
1:I:398:ALA:HB2	1:I:428:LEU:C	2.47	0.40
1:I:405:PHE:CE2	1:I:441:ILE:HG21	2.56	0.40
1:K:348:HIS:HB3	1:K:383:ILE:HD12	2.03	0.40
1:K:398:ALA:HB2	1:K:428:LEU:C	2.47	0.40
1:K:405:PHE:CE2	1:K:441:ILE:HG13	2.56	0.40
1:K:482:SER:OG	1:K:493:ASP:N	2.52	0.40
1:M:398:ALA:HB2	1:M:428:LEU:C	2.47	0.40
1:e:386:THR:OG1	1:e:473:LEU:HD12	2.22	0.40
1:e:398:ALA:HB2	1:e:428:LEU:C	2.47	0.40
1:g:323:TYR:HB3	1:g:360:TYR:CE2	2.56	0.40
1:i:348:HIS:HB3	1:i:383:ILE:HD12	2.03	0.40
1:i:386:THR:OG1	1:i:473:LEU:HD12	2.22	0.40
1:j:398:ALA:HB2	1:j:428:LEU:C	2.47	0.40
1:l:386:THR:OG1	1:l:473:LEU:HD12	2.22	0.40
1:m:111:LEU:HD23	1:m:111:LEU:HA	1.91	0.40
1:n:348:HIS:HB3	1:n:383:ILE:HD12	2.03	0.40
1:n:405:PHE:CD2	1:n:454:TYR:CE1	3.09	0.40
1:o:386:THR:OG1	1:o:473:LEU:HD12	2.22	0.40
1:s:398:ALA:HB2	1:s:428:LEU:C	2.47	0.40
1:u:241:LEU:HD13	1:y:94:LYS:N	2.35	0.40
1:v:398:ALA:HB2	1:v:428:LEU:C	2.47	0.40
1:v:415:TRP:CH2	1:v:471:ILE:HD13	2.56	0.40
1:v:482:SER:OG	1:v:493:ASP:N	2.52	0.40
1:y:386:THR:OG1	1:y:473:LEU:HD12	2.22	0.40
1:1:398:ALA:HB2	1:1:428:LEU:C	2.47	0.40
1:2:236:ILE:HG21	1:z:529:THR:HG21	2.02	0.40
1:2:276:ARG:HE	1:2:276:ARG:HB2	1.79	0.40
1:2:348:HIS:HB3	1:2:383:ILE:HD12	2.03	0.40
1:z:398:ALA:HB2	1:z:428:LEU:C	2.47	0.40
1:z:482:SER:OG	1:z:493:ASP:N	2.52	0.40
1:B:348:HIS:HB3	1:B:383:ILE:HD12	2.03	0.40
1:D:348:HIS:HB3	1:D:383:ILE:HD12	2.03	0.40
1:D:398:ALA:HB2	1:D:428:LEU:C	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:386:THR:OG1	1:E:473:LEU:HD12	2.22	0.40
1:F:398:ALA:HB2	1:F:428:LEU:C	2.47	0.40
1:G:234:TYR:CE2	1:Q:68:MET:CB	3.05	0.40
1:G:398:ALA:HB2	1:G:428:LEU:C	2.47	0.40
1:N:398:ALA:HB2	1:N:428:LEU:C	2.47	0.40
1:N:471:ILE:O	1:N:472:PRO:O	2.38	0.40
1:P:300:LEU:HG	1:P:301:THR:H	1.87	0.40
1:P:405:PHE:CE2	1:P:441:ILE:HG21	2.56	0.40
1:Q:415:TRP:CH2	1:Q:471:ILE:HD13	2.56	0.40
1:R:405:PHE:CE2	1:R:441:ILE:HG13	2.56	0.40
1:R:473:LEU:HD13	1:R:478:ILE:HD11	2.04	0.40
1:T:386:THR:OG1	1:T:473:LEU:HD12	2.22	0.40
1:V:405:PHE:HD2	1:V:441:ILE:HG21	1.86	0.40
1:W:293:LYS:NZ	1:W:367:PHE:O	2.53	0.40
1:Z:300:LEU:HG	1:Z:301:THR:H	1.87	0.40
1:Z:398:ALA:HB2	1:Z:428:LEU:C	2.47	0.40
1:C:386:THR:OG1	1:C:473:LEU:HD12	2.22	0.40
1:S:398:ALA:HB2	1:S:428:LEU:C	2.47	0.40
1:O:415:TRP:CH2	1:O:471:ILE:HD13	2.56	0.40
1:a:473:LEU:HD13	1:a:478:ILE:HD11	2.04	0.40
1:a:482:SER:OG	1:a:493:ASP:N	2.52	0.40
1:d:261:GLY:HA2	1:d:304:GLN:HB2	2.02	0.40
1:d:405:PHE:CD2	1:d:454:TYR:CE1	3.09	0.40
1:3:398:ALA:HB2	1:3:428:LEU:C	2.47	0.40
1:6:304:GLN:HE21	1:6:498:ASN:HA	1.85	0.40
1:7:104:LYS:HB2	1:7:224:ILE:HB	2.02	0.40
1:7:405:PHE:HD2	1:7:441:ILE:HG21	1.86	0.40
1:I:104:LYS:HB2	1:I:224:ILE:HB	2.02	0.40
1:I:405:PHE:CE2	1:I:441:ILE:HG13	2.56	0.40
1:K:293:LYS:NZ	1:K:367:PHE:O	2.54	0.40
1:K:472:PRO:O	1:K:473:LEU:HG	2.22	0.40
1:L:386:THR:OG1	1:L:473:LEU:HD12	2.22	0.40
1:M:523:LYS:HE3	1:M:523:LYS:HB3	1.85	0.40
1:e:348:HIS:HB3	1:e:383:ILE:HD12	2.03	0.40
1:g:261:GLY:HA2	1:g:304:GLN:HB2	2.02	0.40
1:g:386:THR:OG1	1:g:473:LEU:HD12	2.22	0.40
1:g:405:PHE:CE2	1:g:441:ILE:HG13	2.56	0.40
1:g:473:LEU:HD13	1:g:478:ILE:HD11	2.04	0.40
1:h:398:ALA:HB2	1:h:428:LEU:C	2.47	0.40
1:i:142:TYR:O	1:i:149:TYR:OH	2.26	0.40
1:j:405:PHE:HD2	1:j:441:ILE:HG21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:473:LEU:HD13	1:j:478:ILE:HD11	2.04	0.40
1:k:415:TRP:CH2	1:k:471:ILE:HD13	2.56	0.40
1:k:473:LEU:HD13	1:k:478:ILE:HD11	2.04	0.40
1:l:473:LEU:HD13	1:l:478:ILE:HD11	2.04	0.40
1:n:398:ALA:HB2	1:n:428:LEU:C	2.47	0.40
1:n:473:LEU:HD13	1:n:478:ILE:HD11	2.04	0.40
1:p:473:LEU:HD13	1:p:478:ILE:HD11	2.04	0.40
1:s:386:THR:OG1	1:s:473:LEU:HD12	2.22	0.40
1:t:348:HIS:HB3	1:t:383:ILE:HD12	2.03	0.40
1:x:300:LEU:HG	1:x:301:THR:H	1.86	0.40
1:y:471:ILE:O	1:y:472:PRO:O	2.38	0.40
1:1:111:LEU:HD23	1:1:111:LEU:HA	1.91	0.40
1:1:142:TYR:O	1:1:149:TYR:OH	2.26	0.40
1:2:142:TYR:O	1:2:149:TYR:OH	2.26	0.40
1:2:386:THR:OG1	1:2:473:LEU:HD12	2.22	0.40
1:2:398:ALA:HB2	1:2:428:LEU:C	2.47	0.40
1:2:415:TRP:CH2	1:2:471:ILE:HD13	2.56	0.40
1:2:471:ILE:O	1:2:472:PRO:O	2.38	0.40
1:B:398:ALA:HB2	1:B:428:LEU:C	2.47	0.40
1:B:471:ILE:O	1:B:472:PRO:O	2.38	0.40
1:D:294:LEU:O	1:D:297:LEU:HG	2.22	0.40
1:E:304:GLN:HE21	1:E:498:ASN:HA	1.85	0.40
1:F:323:TYR:HB3	1:F:360:TYR:CE2	2.56	0.40
1:F:415:TRP:CH2	1:F:471:ILE:HD13	2.56	0.40
1:F:523:LYS:HB3	1:F:523:LYS:HE3	1.85	0.40
1:G:348:HIS:HB3	1:G:383:ILE:HD12	2.03	0.40
1:G:405:PHE:CD2	1:G:454:TYR:CE1	3.09	0.40
1:G:473:LEU:HD13	1:G:478:ILE:HD11	2.04	0.40
1:P:386:THR:OG1	1:P:473:LEU:HD12	2.22	0.40
1:P:405:PHE:CE2	1:P:441:ILE:HG13	2.56	0.40
1:P:473:LEU:HD13	1:P:478:ILE:HD11	2.04	0.40
1:T:348:HIS:HB3	1:T:383:ILE:HD12	2.03	0.40
1:T:398:ALA:HB2	1:T:428:LEU:C	2.47	0.40
1:W:300:LEU:HG	1:W:301:THR:H	1.86	0.40
1:W:386:THR:OG1	1:W:473:LEU:HD12	2.22	0.40
1:X:523:LYS:HB3	1:X:523:LYS:HE3	1.85	0.40
1:Y:398:ALA:HB2	1:Y:428:LEU:C	2.47	0.40
1:S:261:GLY:HA2	1:S:304:GLN:HB2	2.02	0.40
1:S:348:HIS:HB3	1:S:383:ILE:HD12	2.03	0.40
1:O:386:THR:OG1	1:O:473:LEU:HD12	2.22	0.40
1:b:415:TRP:CH2	1:b:471:ILE:HD13	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:234:TYR:CE2	1:7:68:MET:CB	3.04	0.40
1:3:300:LEU:HG	1:3:301:THR:H	1.87	0.40
1:5:304:GLN:HE21	1:5:498:ASN:HA	1.85	0.40
1:7:405:PHE:CD2	1:7:454:TYR:CE1	3.09	0.40
1:7:523:LYS:HE3	1:7:523:LYS:HB3	1.85	0.40
1:I:405:PHE:CD2	1:I:454:TYR:CE1	3.09	0.40
1:J:57:PRO:HB3	1:s:204:THR:HG21	2.03	0.40
1:L:348:HIS:HB3	1:L:383:ILE:HD12	2.03	0.40
1:L:405:PHE:CD2	1:L:454:TYR:CE1	3.09	0.40
1:L:415:TRP:CH2	1:L:471:ILE:HD13	2.56	0.40
1:M:208:SER:O	1:M:208:SER:OG	2.38	0.40
1:e:482:SER:OG	1:e:493:ASP:N	2.52	0.40
1:h:415:TRP:CH2	1:h:471:ILE:HD13	2.56	0.40
1:i:472:PRO:O	1:i:473:LEU:HG	2.22	0.40
1:i:473:LEU:HD13	1:i:478:ILE:HD11	2.04	0.40
1:i:523:LYS:HB3	1:i:523:LYS:HE3	1.85	0.40
1:j:234:TYR:CE2	1:n:68:MET:CB	3.05	0.40
1:o:415:TRP:CH2	1:o:471:ILE:HD13	2.56	0.40
1:p:104:LYS:HB2	1:p:224:ILE:HB	2.02	0.40
1:q:300:LEU:HG	1:q:301:THR:H	1.87	0.40
1:q:405:PHE:CD2	1:q:454:TYR:CE1	3.09	0.40
1:s:261:GLY:HA2	1:s:304:GLN:HB2	2.02	0.40
1:s:405:PHE:CD2	1:s:454:TYR:CE1	3.09	0.40
1:u:405:PHE:HD2	1:u:441:ILE:HG21	1.86	0.40
1:u:482:SER:OG	1:u:493:ASP:N	2.52	0.40
1:v:94:LYS:N	1:y:241:LEU:HD13	2.36	0.40
1:v:472:PRO:O	1:v:473:LEU:HG	2.22	0.40
1:w:398:ALA:HB2	1:w:428:LEU:C	2.47	0.40
1:y:142:TYR:O	1:y:149:TYR:OH	2.26	0.40
1:y:348:HIS:HB3	1:y:383:ILE:HD12	2.03	0.40
1:y:482:SER:OG	1:y:493:ASP:N	2.52	0.40
1:O:386:THR:OG1	1:O:473:LEU:HD12	2.22	0.40
1:z:415:TRP:CH2	1:z:471:ILE:HD13	2.56	0.40
1:B:415:TRP:CH2	1:B:471:ILE:HD13	2.56	0.40
1:F:348:HIS:HB3	1:F:383:ILE:HD12	2.03	0.40
1:H:236:ILE:HG21	1:P:529:THR:HG21	2.02	0.40
1:H:304:GLN:HE21	1:H:498:ASN:HA	1.85	0.40
1:H:473:LEU:HD13	1:H:478:ILE:HD11	2.04	0.40
1:N:405:PHE:HD2	1:N:441:ILE:HG21	1.86	0.40
1:N:473:LEU:HD13	1:N:478:ILE:HD11	2.04	0.40
1:Q:386:THR:OG1	1:Q:473:LEU:HD12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:386:THR:OG1	1:R:473:LEU:HD12	2.22	0.40
1:T:472:PRO:O	1:T:473:LEU:HG	2.22	0.40
1:W:398:ALA:HB2	1:W:428:LEU:C	2.47	0.40
1:W:482:SER:OG	1:W:493:ASP:N	2.52	0.40
1:X:348:HIS:HB3	1:X:383:ILE:HD12	2.03	0.40
1:S:323:TYR:HB3	1:S:360:TYR:CE2	2.56	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	0	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	1	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	2	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	3	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	4	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	5	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	6	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	7	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	A	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	B	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	C	488/672 (73%)	451 (92%)	33 (7%)	4 (1%)	16	51
1	D	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	E	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	F	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	G	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	I	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	J	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	K	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	L	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	M	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	N	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	O	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	P	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	Q	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	R	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	S	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	T	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	U	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	V	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	W	488/672 (73%)	451 (92%)	33 (7%)	4 (1%)	16	51
1	X	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	Y	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	Z	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	a	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	b	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	c	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	d	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	e	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	f	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	g	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	h	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	i	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	j	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	k	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	l	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	m	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	n	488/672 (73%)	451 (92%)	33 (7%)	4 (1%)	16	51
1	o	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	p	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	q	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	r	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	s	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	t	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	u	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	v	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	w	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	x	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	y	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
1	z	488/672 (73%)	450 (92%)	34 (7%)	4 (1%)	16	51
All	All	29280/40320 (73%)	27003 (92%)	2037 (7%)	240 (1%)	18	51

All (240) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	0	240	GLN
1	0	450	VAL
1	a	240	GLN
1	a	450	VAL
1	b	240	GLN
1	b	450	VAL
1	c	240	GLN
1	c	450	VAL
1	d	240	GLN
1	d	450	VAL
1	3	240	GLN
1	3	450	VAL
1	4	240	GLN
1	4	450	VAL
1	5	240	GLN
1	5	450	VAL
1	6	240	GLN
1	6	450	VAL

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Mol	Chain	Res	Type
1	7	240	GLN
1	7	450	VAL
1	I	240	GLN
1	I	450	VAL
1	J	240	GLN
1	J	450	VAL
1	K	240	GLN
1	K	450	VAL
1	L	240	GLN
1	L	450	VAL
1	M	240	GLN
1	M	450	VAL
1	e	240	GLN
1	e	450	VAL
1	f	240	GLN
1	f	450	VAL
1	g	240	GLN
1	g	450	VAL
1	h	240	GLN
1	h	450	VAL
1	i	240	GLN
1	i	450	VAL
1	j	240	GLN
1	j	450	VAL
1	k	240	GLN
1	k	450	VAL
1	l	240	GLN
1	l	450	VAL
1	m	240	GLN
1	m	450	VAL
1	n	240	GLN
1	n	450	VAL
1	o	240	GLN
1	o	450	VAL
1	p	240	GLN
1	p	450	VAL
1	q	240	GLN
1	q	450	VAL
1	r	240	GLN
1	r	450	VAL
1	s	240	GLN
1	s	450	VAL

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Mol	Chain	Res	Type
1	t	240	GLN
1	t	450	VAL
1	u	240	GLN
1	u	450	VAL
1	v	240	GLN
1	v	450	VAL
1	w	240	GLN
1	w	450	VAL
1	x	240	GLN
1	x	450	VAL
1	y	240	GLN
1	y	450	VAL
1	1	240	GLN
1	1	450	VAL
1	2	240	GLN
1	2	450	VAL
1	O	240	GLN
1	O	450	VAL
1	z	240	GLN
1	z	450	VAL
1	A	240	GLN
1	A	450	VAL
1	B	240	GLN
1	B	450	VAL
1	D	240	GLN
1	D	450	VAL
1	E	240	GLN
1	E	450	VAL
1	F	240	GLN
1	F	450	VAL
1	G	240	GLN
1	G	450	VAL
1	H	240	GLN
1	H	450	VAL
1	N	240	GLN
1	N	450	VAL
1	P	240	GLN
1	P	450	VAL
1	Q	240	GLN
1	Q	450	VAL
1	R	240	GLN
1	R	450	VAL

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Mol	Chain	Res	Type
1	T	240	GLN
1	T	450	VAL
1	U	240	GLN
1	U	450	VAL
1	V	240	GLN
1	V	450	VAL
1	W	240	GLN
1	W	450	VAL
1	X	240	GLN
1	X	450	VAL
1	Y	240	GLN
1	Y	450	VAL
1	Z	240	GLN
1	Z	450	VAL
1	C	240	GLN
1	C	450	VAL
1	S	240	GLN
1	S	450	VAL
1	0	400	ARG
1	a	400	ARG
1	b	400	ARG
1	c	400	ARG
1	d	400	ARG
1	3	400	ARG
1	4	400	ARG
1	5	400	ARG
1	6	400	ARG
1	7	400	ARG
1	I	400	ARG
1	J	400	ARG
1	K	400	ARG
1	L	400	ARG
1	M	400	ARG
1	e	400	ARG
1	f	400	ARG
1	g	400	ARG
1	h	400	ARG
1	i	400	ARG
1	j	400	ARG
1	k	400	ARG
1	l	400	ARG
1	m	400	ARG

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Mol	Chain	Res	Type
1	n	400	ARG
1	o	400	ARG
1	p	400	ARG
1	q	400	ARG
1	r	400	ARG
1	s	400	ARG
1	t	400	ARG
1	u	400	ARG
1	v	400	ARG
1	w	400	ARG
1	x	400	ARG
1	y	400	ARG
1	1	400	ARG
1	2	400	ARG
1	O	400	ARG
1	z	400	ARG
1	A	400	ARG
1	B	400	ARG
1	D	400	ARG
1	E	400	ARG
1	F	400	ARG
1	G	400	ARG
1	H	400	ARG
1	N	400	ARG
1	P	400	ARG
1	Q	400	ARG
1	R	400	ARG
1	T	400	ARG
1	U	400	ARG
1	V	400	ARG
1	W	400	ARG
1	X	400	ARG
1	Y	400	ARG
1	Z	400	ARG
1	C	400	ARG
1	S	400	ARG
1	0	237	GLY
1	a	237	GLY
1	b	237	GLY
1	c	237	GLY
1	d	237	GLY
1	3	237	GLY

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Mol	Chain	Res	Type
1	4	237	GLY
1	5	237	GLY
1	6	237	GLY
1	7	237	GLY
1	I	237	GLY
1	J	237	GLY
1	K	237	GLY
1	L	237	GLY
1	M	237	GLY
1	e	237	GLY
1	f	237	GLY
1	h	237	GLY
1	i	237	GLY
1	j	237	GLY
1	k	237	GLY
1	l	237	GLY
1	m	237	GLY
1	n	237	GLY
1	o	237	GLY
1	p	237	GLY
1	q	237	GLY
1	r	237	GLY
1	s	237	GLY
1	t	237	GLY
1	u	237	GLY
1	v	237	GLY
1	w	237	GLY
1	x	237	GLY
1	y	237	GLY
1	1	237	GLY
1	2	237	GLY
1	O	237	GLY
1	z	237	GLY
1	A	237	GLY
1	B	237	GLY
1	D	237	GLY
1	E	237	GLY
1	F	237	GLY
1	G	237	GLY
1	H	237	GLY
1	P	237	GLY
1	Q	237	GLY

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Mol	Chain	Res	Type
1	R	237	GLY
1	T	237	GLY
1	U	237	GLY
1	V	237	GLY
1	W	237	GLY
1	X	237	GLY
1	Y	237	GLY
1	Z	237	GLY
1	C	237	GLY
1	S	237	GLY
1	g	237	GLY
1	N	237	GLY

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	1	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	2	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	3	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	4	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	5	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	6	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	7	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	A	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	B	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	C	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	D	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	E	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	F	422/629 (67%)	421 (100%)	1 (0%)	87	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	H	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	I	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	J	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	K	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	L	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	M	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	N	421/629 (67%)	420 (100%)	1 (0%)	87	87
1	O	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	P	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	Q	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	R	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	S	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	T	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	U	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	V	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	W	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	X	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	Y	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	Z	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	a	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	b	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	c	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	d	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	e	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	f	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	g	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	h	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	i	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	j	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	k	422/629 (67%)	421 (100%)	1 (0%)	87	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	l	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	m	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	n	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	o	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	p	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	q	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	r	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	s	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	t	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	u	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	v	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	w	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	x	422/629 (67%)	421 (100%)	1 (0%)	87	87
1	y	421/629 (67%)	420 (100%)	1 (0%)	87	87
1	z	422/629 (67%)	421 (100%)	1 (0%)	87	87
All	All	25318/37740 (67%)	25258 (100%)	60 (0%)	85	87

All (60) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0	236	ILE
1	a	236	ILE
1	b	236	ILE
1	c	236	ILE
1	d	236	ILE
1	3	236	ILE
1	4	236	ILE
1	5	236	ILE
1	6	236	ILE
1	7	236	ILE
1	I	236	ILE
1	J	236	ILE
1	K	236	ILE
1	L	236	ILE
1	M	236	ILE
1	e	236	ILE
1	f	236	ILE

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Mol	Chain	Res	Type
1	g	236	ILE
1	h	236	ILE
1	i	236	ILE
1	j	236	ILE
1	k	236	ILE
1	l	236	ILE
1	m	236	ILE
1	n	236	ILE
1	o	236	ILE
1	p	236	ILE
1	q	236	ILE
1	r	236	ILE
1	s	236	ILE
1	t	236	ILE
1	u	236	ILE
1	v	236	ILE
1	w	236	ILE
1	x	236	ILE
1	y	236	ILE
1	1	236	ILE
1	2	236	ILE
1	O	236	ILE
1	z	236	ILE
1	A	236	ILE
1	B	236	ILE
1	D	236	ILE
1	E	236	ILE
1	F	236	ILE
1	G	236	ILE
1	H	236	ILE
1	N	236	ILE
1	P	236	ILE
1	Q	236	ILE
1	R	236	ILE
1	T	236	ILE
1	U	236	ILE
1	V	236	ILE
1	W	236	ILE
1	X	236	ILE
1	Y	236	ILE
1	Z	236	ILE
1	C	236	ILE

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Mol	Chain	Res	Type
1	S	236	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (430) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	215	ASN
1	0	233	ASN
1	0	275	GLN
1	0	351	ASN
1	0	401	ASN
1	0	507	GLN
1	0	512	ASN
1	a	215	ASN
1	a	233	ASN
1	a	275	GLN
1	a	351	ASN
1	a	401	ASN
1	a	507	GLN
1	a	512	ASN
1	b	215	ASN
1	b	233	ASN
1	b	275	GLN
1	b	351	ASN
1	b	401	ASN
1	b	507	GLN
1	b	512	ASN
1	c	215	ASN
1	c	233	ASN
1	c	275	GLN
1	c	351	ASN
1	c	401	ASN
1	c	507	GLN
1	c	512	ASN
1	d	215	ASN
1	d	233	ASN
1	d	275	GLN
1	d	351	ASN
1	d	401	ASN
1	d	512	ASN
1	3	215	ASN
1	3	233	ASN
1	3	275	GLN

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Mol	Chain	Res	Type
1	3	351	ASN
1	3	401	ASN
1	3	507	GLN
1	3	512	ASN
1	4	215	ASN
1	4	233	ASN
1	4	275	GLN
1	4	351	ASN
1	4	401	ASN
1	4	507	GLN
1	4	512	ASN
1	5	215	ASN
1	5	233	ASN
1	5	275	GLN
1	5	351	ASN
1	5	401	ASN
1	5	459	HIS
1	5	507	GLN
1	5	512	ASN
1	6	215	ASN
1	6	233	ASN
1	6	275	GLN
1	6	351	ASN
1	6	459	HIS
1	6	507	GLN
1	6	512	ASN
1	7	215	ASN
1	7	233	ASN
1	7	275	GLN
1	7	351	ASN
1	7	401	ASN
1	7	507	GLN
1	7	512	ASN
1	I	215	ASN
1	I	233	ASN
1	I	275	GLN
1	I	351	ASN
1	I	401	ASN
1	I	459	HIS
1	I	507	GLN
1	I	512	ASN
1	J	215	ASN

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Mol	Chain	Res	Type
1	J	233	ASN
1	J	275	GLN
1	J	351	ASN
1	J	401	ASN
1	J	459	HIS
1	J	507	GLN
1	J	512	ASN
1	K	215	ASN
1	K	233	ASN
1	K	275	GLN
1	K	351	ASN
1	K	459	HIS
1	K	507	GLN
1	K	512	ASN
1	L	215	ASN
1	L	233	ASN
1	L	275	GLN
1	L	351	ASN
1	L	401	ASN
1	L	507	GLN
1	L	512	ASN
1	M	215	ASN
1	M	233	ASN
1	M	275	GLN
1	M	351	ASN
1	M	401	ASN
1	M	507	GLN
1	M	512	ASN
1	e	215	ASN
1	e	233	ASN
1	e	275	GLN
1	e	351	ASN
1	e	401	ASN
1	e	507	GLN
1	e	512	ASN
1	f	215	ASN
1	f	233	ASN
1	f	275	GLN
1	f	351	ASN
1	f	401	ASN
1	f	507	GLN
1	f	512	ASN

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Mol	Chain	Res	Type
1	g	215	ASN
1	g	233	ASN
1	g	275	GLN
1	g	351	ASN
1	g	401	ASN
1	g	507	GLN
1	g	512	ASN
1	h	215	ASN
1	h	233	ASN
1	h	275	GLN
1	h	351	ASN
1	h	401	ASN
1	h	459	HIS
1	h	507	GLN
1	h	512	ASN
1	i	215	ASN
1	i	233	ASN
1	i	275	GLN
1	i	351	ASN
1	i	507	GLN
1	i	512	ASN
1	j	215	ASN
1	j	233	ASN
1	j	275	GLN
1	j	351	ASN
1	j	401	ASN
1	j	507	GLN
1	j	512	ASN
1	k	215	ASN
1	k	233	ASN
1	k	275	GLN
1	k	351	ASN
1	k	401	ASN
1	k	507	GLN
1	k	512	ASN
1	l	215	ASN
1	l	233	ASN
1	l	275	GLN
1	l	351	ASN
1	l	401	ASN
1	l	459	HIS
1	l	507	GLN

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Mol	Chain	Res	Type
1	l	512	ASN
1	m	215	ASN
1	m	233	ASN
1	m	275	GLN
1	m	351	ASN
1	m	401	ASN
1	m	507	GLN
1	m	512	ASN
1	n	215	ASN
1	n	233	ASN
1	n	275	GLN
1	n	351	ASN
1	n	459	HIS
1	n	507	GLN
1	n	512	ASN
1	o	215	ASN
1	o	233	ASN
1	o	275	GLN
1	o	351	ASN
1	o	401	ASN
1	o	507	GLN
1	o	512	ASN
1	p	215	ASN
1	p	233	ASN
1	p	275	GLN
1	p	351	ASN
1	p	401	ASN
1	p	507	GLN
1	p	512	ASN
1	q	215	ASN
1	q	233	ASN
1	q	275	GLN
1	q	351	ASN
1	q	401	ASN
1	q	507	GLN
1	q	512	ASN
1	r	209	GLN
1	r	215	ASN
1	r	233	ASN
1	r	275	GLN
1	r	351	ASN
1	r	401	ASN

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Mol	Chain	Res	Type
1	r	459	HIS
1	r	507	GLN
1	r	512	ASN
1	s	215	ASN
1	s	233	ASN
1	s	275	GLN
1	s	351	ASN
1	s	401	ASN
1	s	512	ASN
1	t	215	ASN
1	t	233	ASN
1	t	275	GLN
1	t	351	ASN
1	t	401	ASN
1	t	459	HIS
1	t	507	GLN
1	t	512	ASN
1	u	215	ASN
1	u	233	ASN
1	u	275	GLN
1	u	351	ASN
1	u	401	ASN
1	u	507	GLN
1	u	512	ASN
1	v	215	ASN
1	v	233	ASN
1	v	275	GLN
1	v	351	ASN
1	v	401	ASN
1	v	459	HIS
1	v	507	GLN
1	v	512	ASN
1	w	215	ASN
1	w	233	ASN
1	w	275	GLN
1	w	351	ASN
1	w	401	ASN
1	w	459	HIS
1	w	507	GLN
1	w	512	ASN
1	x	215	ASN
1	x	233	ASN

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Mol	Chain	Res	Type
1	x	275	GLN
1	x	351	ASN
1	x	401	ASN
1	x	459	HIS
1	x	507	GLN
1	x	512	ASN
1	y	215	ASN
1	y	233	ASN
1	y	275	GLN
1	y	351	ASN
1	y	507	GLN
1	y	512	ASN
1	1	215	ASN
1	1	233	ASN
1	1	275	GLN
1	1	351	ASN
1	1	401	ASN
1	1	459	HIS
1	1	507	GLN
1	1	512	ASN
1	2	215	ASN
1	2	233	ASN
1	2	275	GLN
1	2	351	ASN
1	2	507	GLN
1	2	512	ASN
1	O	215	ASN
1	O	233	ASN
1	O	275	GLN
1	O	351	ASN
1	O	401	ASN
1	O	459	HIS
1	O	507	GLN
1	O	512	ASN
1	z	215	ASN
1	z	233	ASN
1	z	275	GLN
1	z	351	ASN
1	z	401	ASN
1	z	459	HIS
1	z	507	GLN
1	z	512	ASN

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Mol	Chain	Res	Type
1	A	215	ASN
1	A	233	ASN
1	A	275	GLN
1	A	401	ASN
1	A	507	GLN
1	A	512	ASN
1	B	215	ASN
1	B	233	ASN
1	B	275	GLN
1	B	351	ASN
1	B	507	GLN
1	B	512	ASN
1	D	215	ASN
1	D	233	ASN
1	D	275	GLN
1	D	351	ASN
1	D	507	GLN
1	D	512	ASN
1	E	215	ASN
1	E	233	ASN
1	E	275	GLN
1	E	351	ASN
1	E	401	ASN
1	E	507	GLN
1	E	512	ASN
1	F	215	ASN
1	F	233	ASN
1	F	275	GLN
1	F	351	ASN
1	F	401	ASN
1	F	459	HIS
1	F	507	GLN
1	F	512	ASN
1	G	215	ASN
1	G	233	ASN
1	G	275	GLN
1	G	351	ASN
1	G	401	ASN
1	G	459	HIS
1	G	507	GLN
1	G	512	ASN
1	H	215	ASN

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Mol	Chain	Res	Type
1	H	233	ASN
1	H	275	GLN
1	H	351	ASN
1	H	401	ASN
1	H	459	HIS
1	H	507	GLN
1	H	512	ASN
1	N	215	ASN
1	N	233	ASN
1	N	275	GLN
1	N	351	ASN
1	N	401	ASN
1	N	507	GLN
1	N	512	ASN
1	P	215	ASN
1	P	233	ASN
1	P	275	GLN
1	P	351	ASN
1	P	401	ASN
1	P	459	HIS
1	P	507	GLN
1	P	512	ASN
1	Q	215	ASN
1	Q	233	ASN
1	Q	275	GLN
1	Q	351	ASN
1	Q	401	ASN
1	Q	507	GLN
1	Q	512	ASN
1	R	215	ASN
1	R	233	ASN
1	R	275	GLN
1	R	351	ASN
1	R	401	ASN
1	R	507	GLN
1	R	512	ASN
1	T	215	ASN
1	T	233	ASN
1	T	275	GLN
1	T	351	ASN
1	T	507	GLN
1	T	512	ASN

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Mol	Chain	Res	Type
1	U	215	ASN
1	U	233	ASN
1	U	275	GLN
1	U	351	ASN
1	U	401	ASN
1	U	459	HIS
1	U	507	GLN
1	U	512	ASN
1	V	215	ASN
1	V	233	ASN
1	V	275	GLN
1	V	351	ASN
1	V	401	ASN
1	V	507	GLN
1	V	512	ASN
1	W	215	ASN
1	W	233	ASN
1	W	275	GLN
1	W	351	ASN
1	W	401	ASN
1	W	507	GLN
1	W	512	ASN
1	X	215	ASN
1	X	233	ASN
1	X	275	GLN
1	X	351	ASN
1	X	401	ASN
1	X	459	HIS
1	X	507	GLN
1	X	512	ASN
1	Y	215	ASN
1	Y	233	ASN
1	Y	275	GLN
1	Y	351	ASN
1	Y	507	GLN
1	Y	512	ASN
1	Z	215	ASN
1	Z	233	ASN
1	Z	275	GLN
1	Z	351	ASN
1	Z	507	GLN
1	Z	512	ASN

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Mol	Chain	Res	Type
1	C	209	GLN
1	C	215	ASN
1	C	233	ASN
1	C	275	GLN
1	C	401	ASN
1	C	507	GLN
1	C	512	ASN
1	S	215	ASN
1	S	233	ASN
1	S	275	GLN
1	S	351	ASN
1	S	401	ASN
1	S	459	HIS
1	S	507	GLN
1	S	512	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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	0	1
1	a	1
1	b	1
1	c	1
1	d	1
1	3	1
1	4	1
1	5	1
1	6	1
1	7	1
1	I	1
1	J	1
1	K	1
1	L	1
1	M	1
1	e	1
1	f	1
1	g	1
1	h	1
1	i	1
1	j	1
1	k	1
1	l	1
1	m	1
1	n	1
1	o	1
1	p	1
1	q	1
1	r	1
1	s	1
1	t	1
1	u	1
1	v	1
1	w	1
1	x	1
1	y	1
1	1	1
1	2	1
1	O	1
1	z	1
1	A	1
1	B	1
1	D	1

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Mol	Chain	Number of breaks
1	E	1
1	F	1
1	G	1
1	H	1
1	N	1
1	P	1
1	Q	1
1	R	1
1	T	1
1	U	1
1	V	1
1	W	1
1	X	1
1	Y	1
1	Z	1
1	C	1
1	S	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	0	243:THR	C	244:ASN	N	1.08
1	a	243:THR	C	244:ASN	N	1.08
1	b	243:THR	C	244:ASN	N	1.08
1	c	243:THR	C	244:ASN	N	1.08
1	d	243:THR	C	244:ASN	N	1.08
1	3	243:THR	C	244:ASN	N	1.08
1	4	243:THR	C	244:ASN	N	1.08
1	5	243:THR	C	244:ASN	N	1.08
1	6	243:THR	C	244:ASN	N	1.08
1	7	243:THR	C	244:ASN	N	1.08
1	I	243:THR	C	244:ASN	N	1.08
1	J	243:THR	C	244:ASN	N	1.08
1	K	243:THR	C	244:ASN	N	1.08
1	L	243:THR	C	244:ASN	N	1.08
1	M	243:THR	C	244:ASN	N	1.08
1	e	243:THR	C	244:ASN	N	1.08
1	f	243:THR	C	244:ASN	N	1.08
1	g	243:THR	C	244:ASN	N	1.08
1	h	243:THR	C	244:ASN	N	1.08
1	i	243:THR	C	244:ASN	N	1.08
1	j	243:THR	C	244:ASN	N	1.08
1	k	243:THR	C	244:ASN	N	1.08

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	l	243:THR	C	244:ASN	N	1.08
1	m	243:THR	C	244:ASN	N	1.08
1	n	243:THR	C	244:ASN	N	1.08
1	o	243:THR	C	244:ASN	N	1.08
1	p	243:THR	C	244:ASN	N	1.08
1	q	243:THR	C	244:ASN	N	1.08
1	r	243:THR	C	244:ASN	N	1.08
1	s	243:THR	C	244:ASN	N	1.08
1	t	243:THR	C	244:ASN	N	1.08
1	u	243:THR	C	244:ASN	N	1.08
1	v	243:THR	C	244:ASN	N	1.08
1	w	243:THR	C	244:ASN	N	1.08
1	x	243:THR	C	244:ASN	N	1.08
1	y	243:THR	C	244:ASN	N	1.08
1	1	243:THR	C	244:ASN	N	1.08
1	2	243:THR	C	244:ASN	N	1.08
1	O	243:THR	C	244:ASN	N	1.08
1	z	243:THR	C	244:ASN	N	1.08
1	A	243:THR	C	244:ASN	N	1.08
1	B	243:THR	C	244:ASN	N	1.08
1	D	243:THR	C	244:ASN	N	1.08
1	E	243:THR	C	244:ASN	N	1.08
1	F	243:THR	C	244:ASN	N	1.08
1	G	243:THR	C	244:ASN	N	1.08
1	H	243:THR	C	244:ASN	N	1.08
1	N	243:THR	C	244:ASN	N	1.08
1	P	243:THR	C	244:ASN	N	1.08
1	Q	243:THR	C	244:ASN	N	1.08
1	R	243:THR	C	244:ASN	N	1.08
1	T	243:THR	C	244:ASN	N	1.08
1	U	243:THR	C	244:ASN	N	1.08
1	V	243:THR	C	244:ASN	N	1.08
1	W	243:THR	C	244:ASN	N	1.08
1	X	243:THR	C	244:ASN	N	1.08
1	Y	243:THR	C	244:ASN	N	1.08
1	Z	243:THR	C	244:ASN	N	1.08
1	C	243:THR	C	244:ASN	N	1.08
1	S	243:THR	C	244:ASN	N	1.08

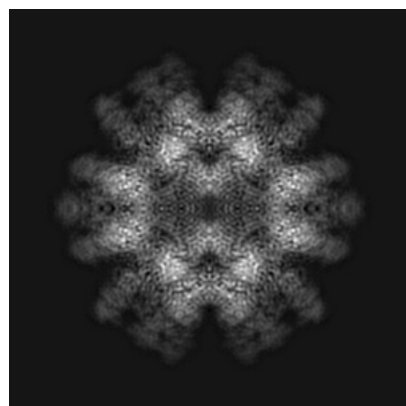
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-27077. These allow visual inspection of the internal detail of the map and identification of artifacts.

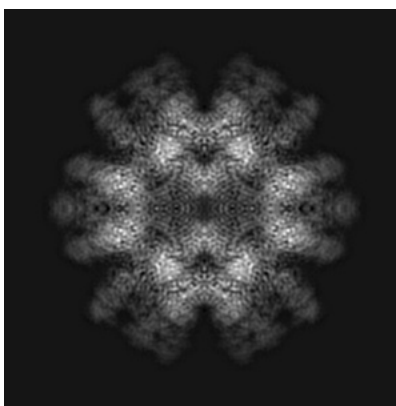
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

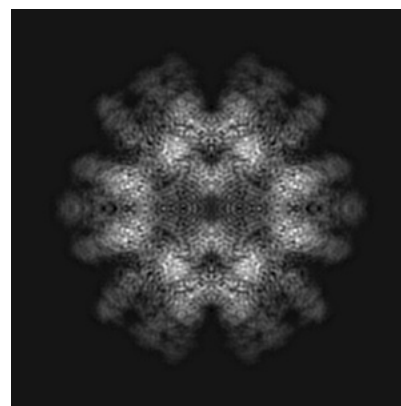
6.1.1 Primary map



X

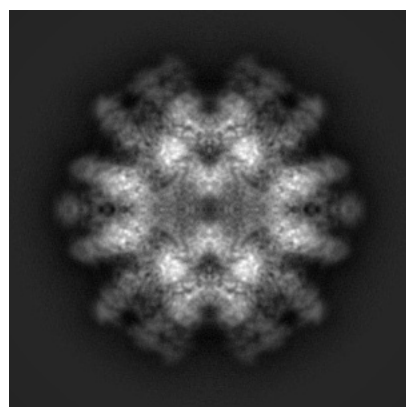


Y

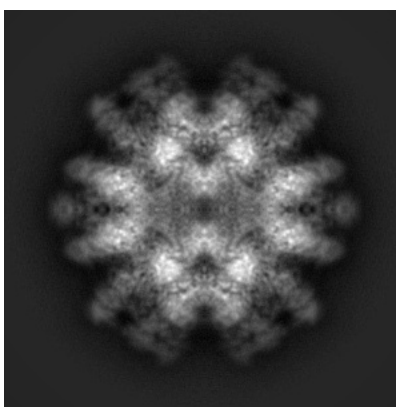


Z

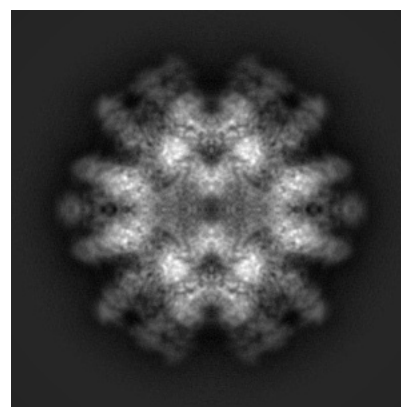
6.1.2 Raw map



X



Y

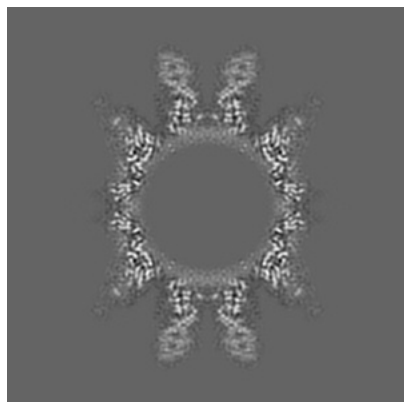


Z

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

6.2 Central slices [i](#)

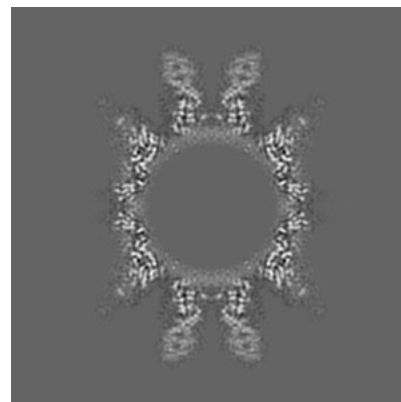
6.2.1 Primary map



X Index: 220

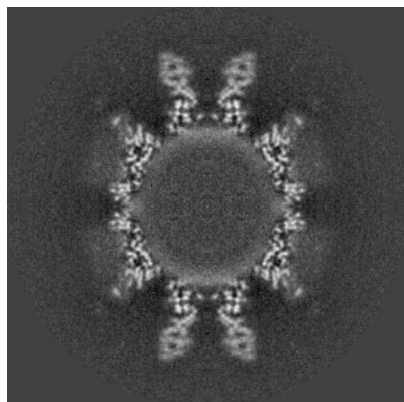


Y Index: 220

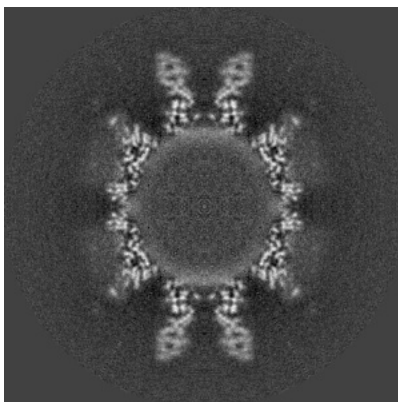


Z Index: 220

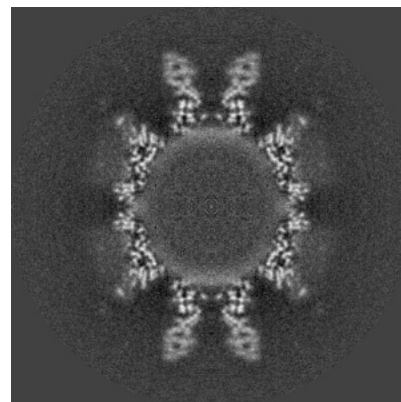
6.2.2 Raw map



X Index: 220



Y Index: 220

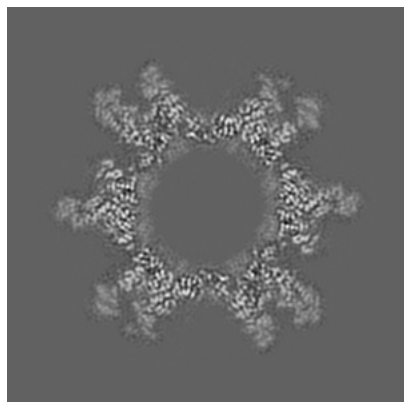


Z Index: 220

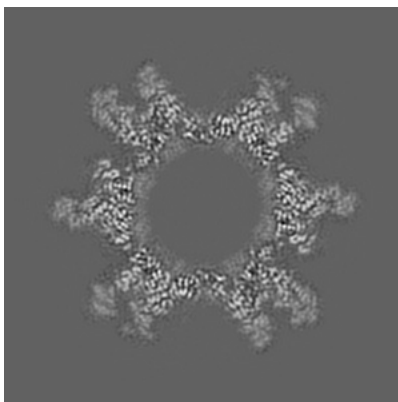
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

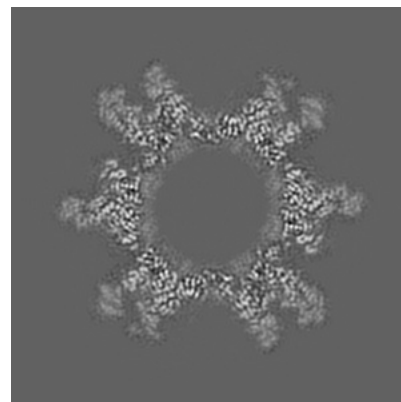
6.3.1 Primary map



X Index: 187

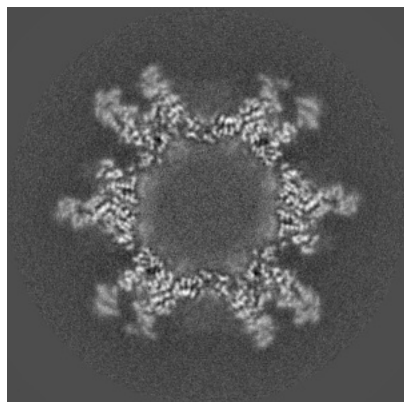


Y Index: 187

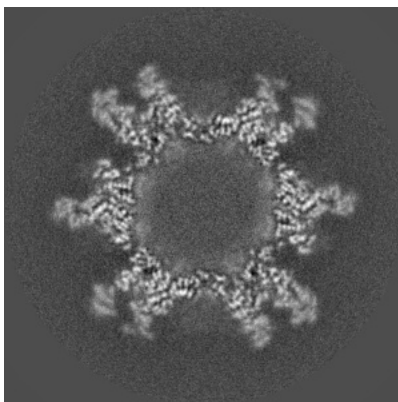


Z Index: 187

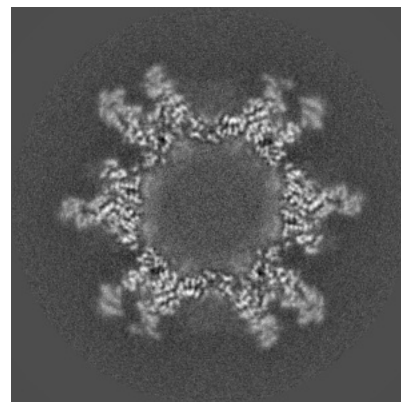
6.3.2 Raw map



X Index: 187



Y Index: 187

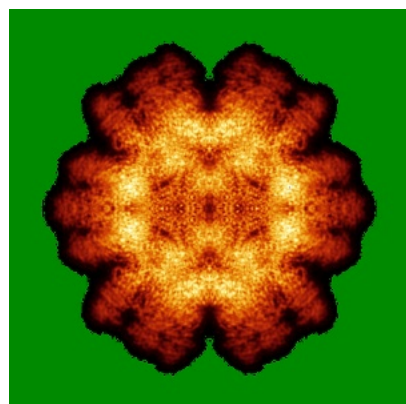


Z Index: 187

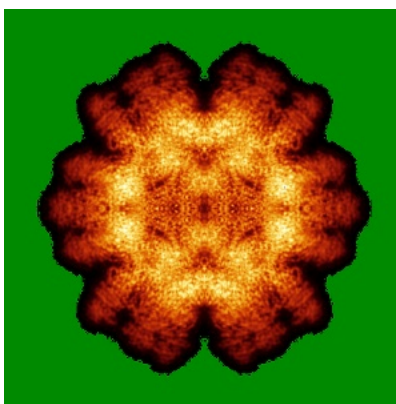
The images above show the largest variance slices of the map in three orthogonal directions.

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

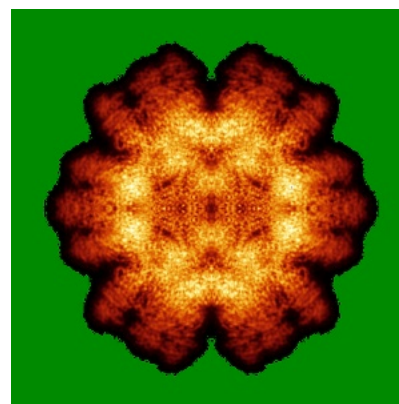
6.4.1 Primary map



X

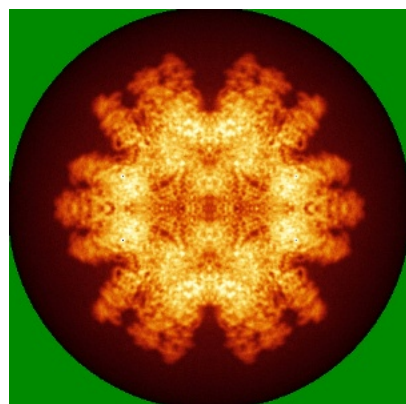


Y

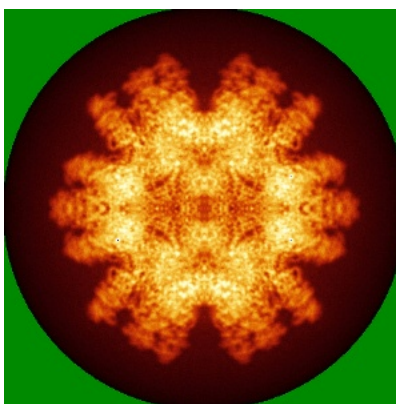


Z

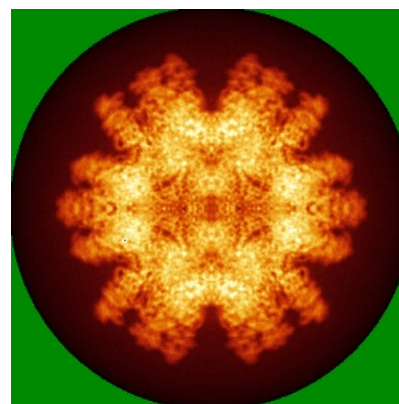
6.4.2 Raw map



X



Y

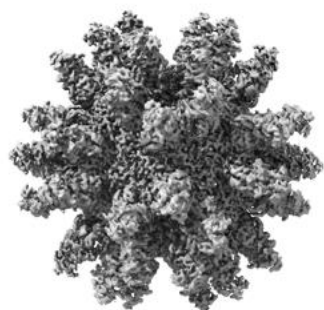


Z

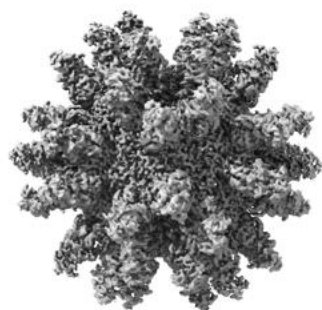
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

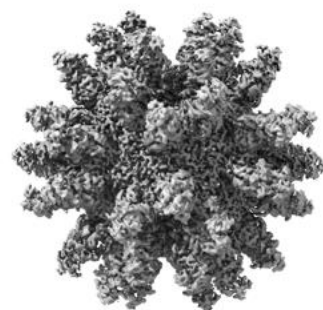
6.5.1 Primary map



X



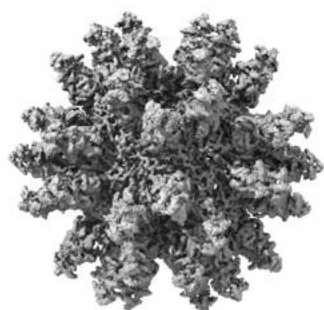
Y



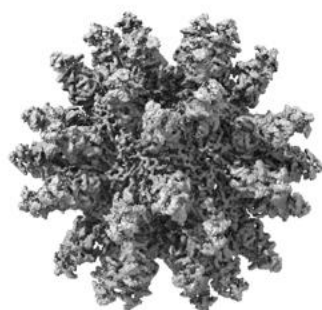
Z

The images above show the 3D surface view of the map at the recommended contour level 2.87. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

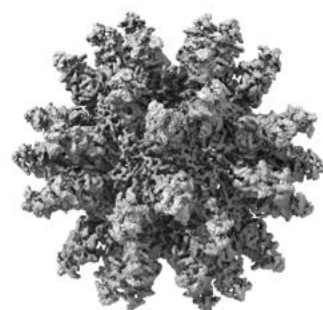
6.5.2 Raw map



X



Y



Z

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

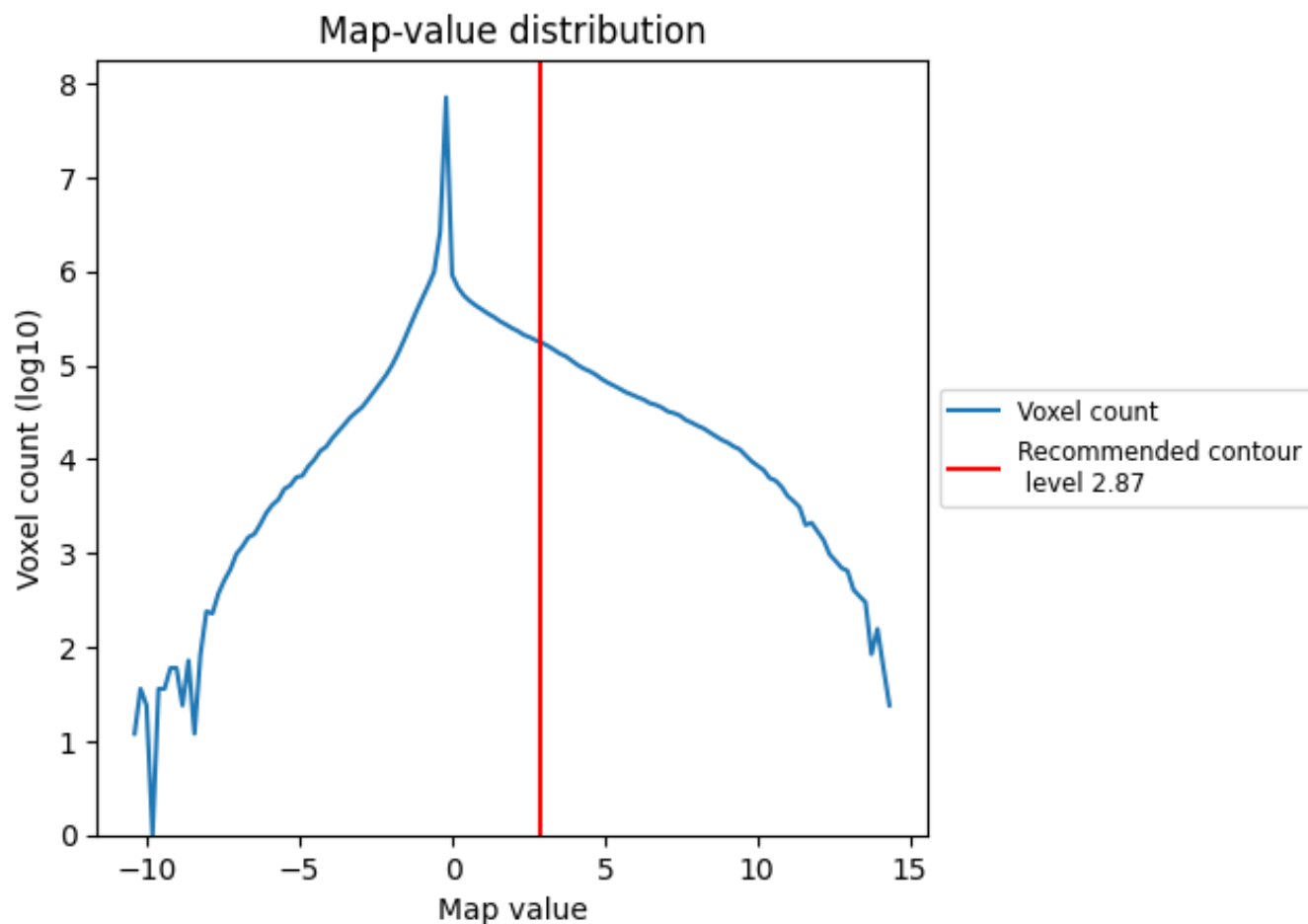
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

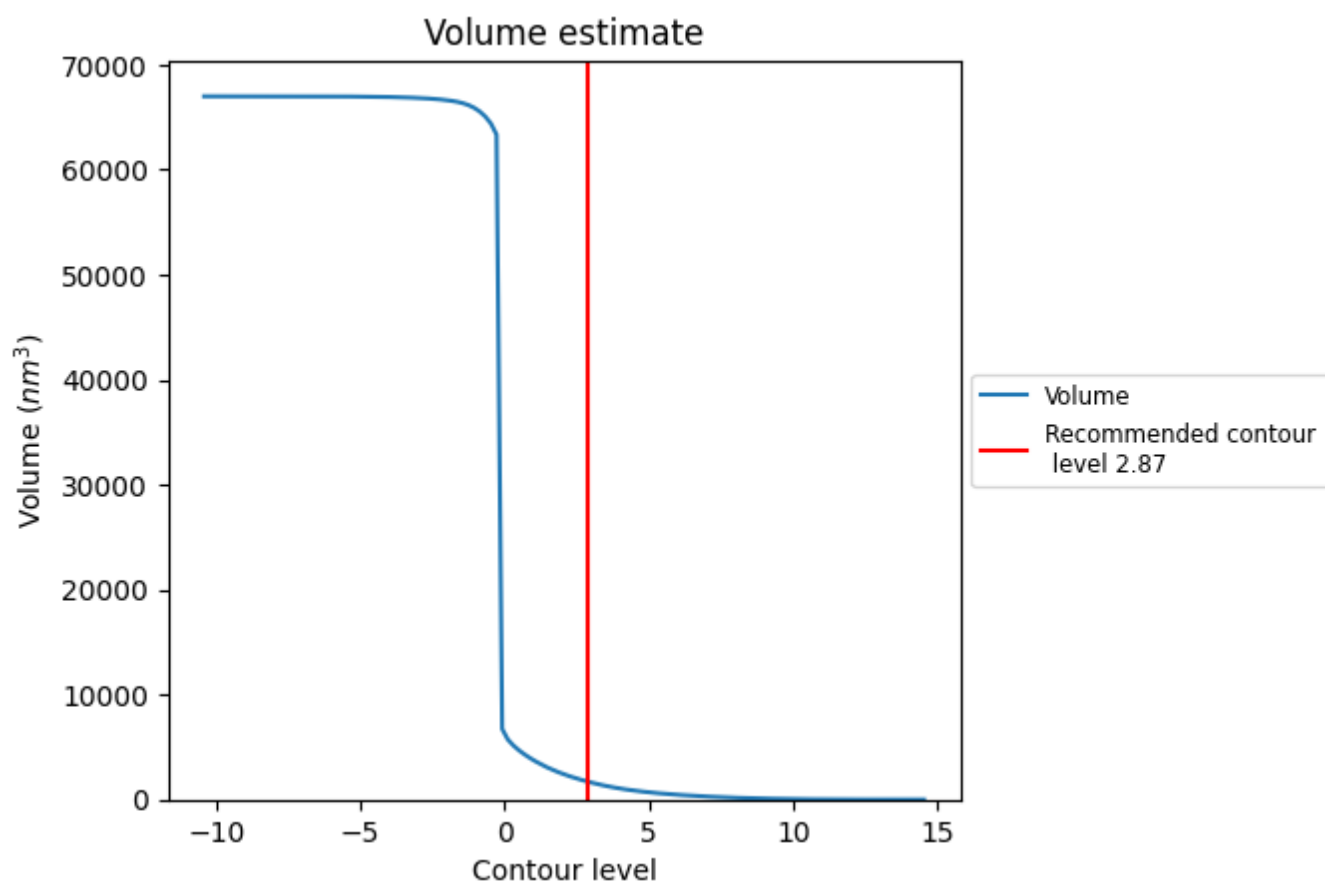
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

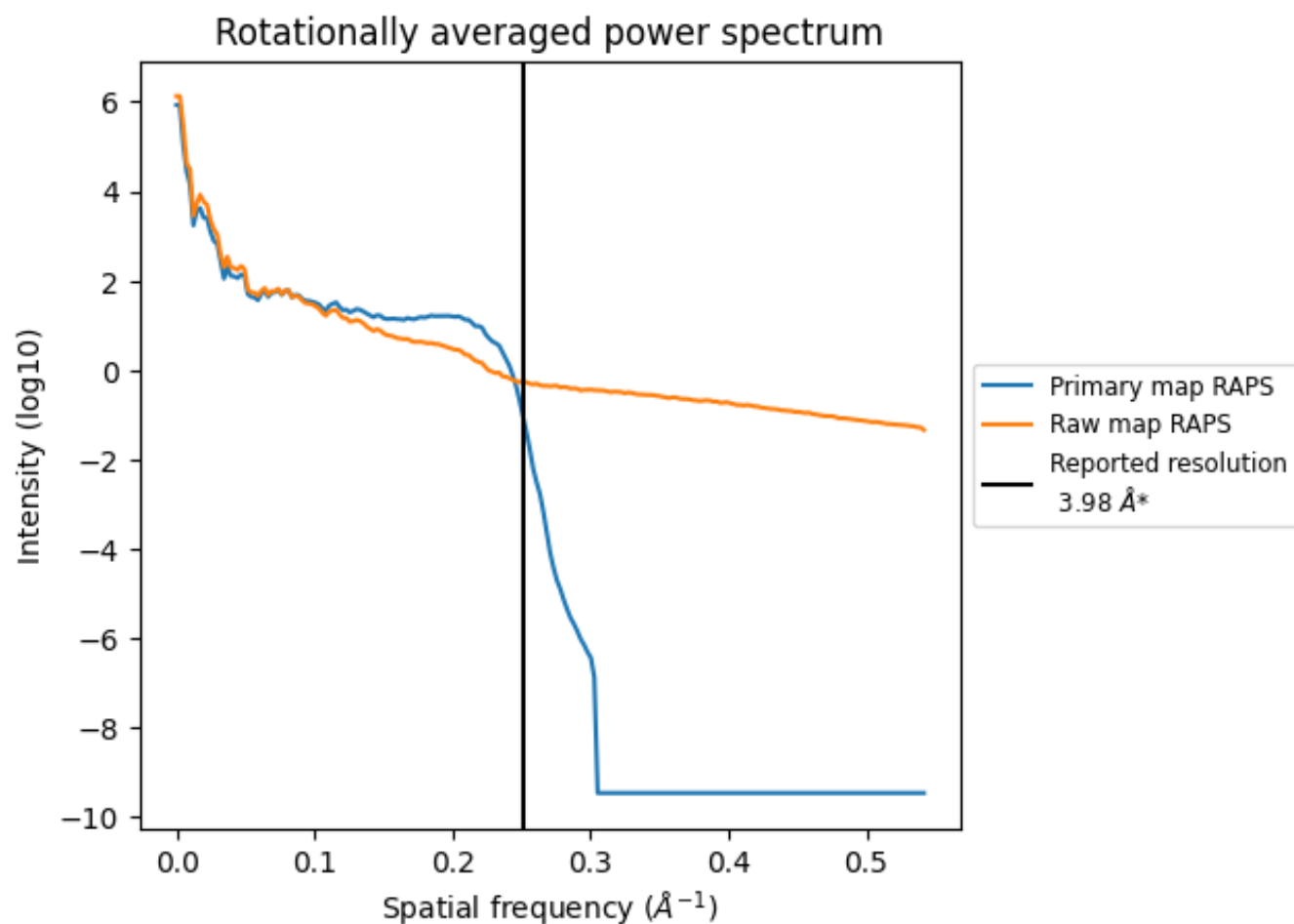
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1715 nm³; this corresponds to an approximate mass of 1550 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

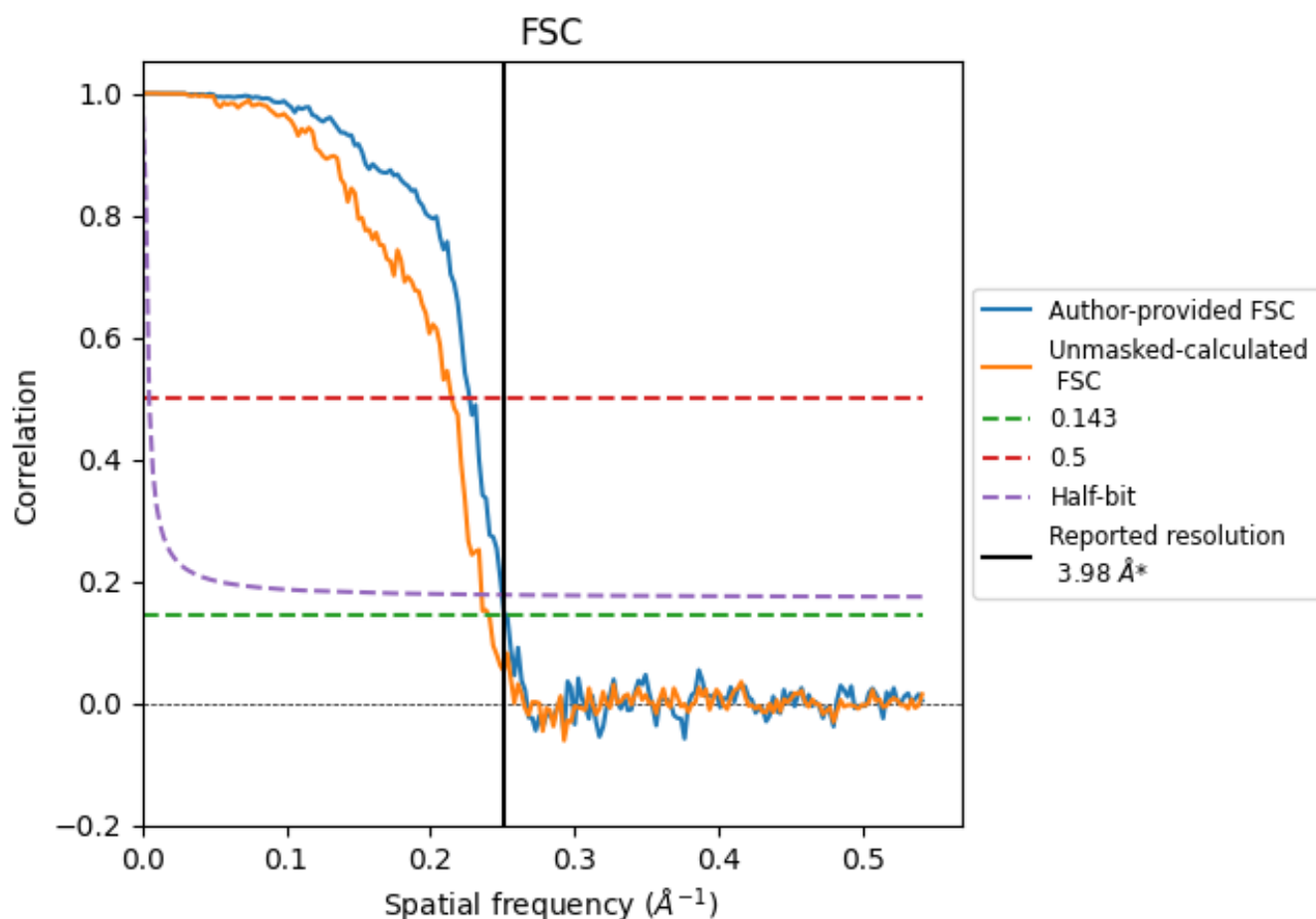


*Reported resolution corresponds to spatial frequency of 0.251 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.251 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

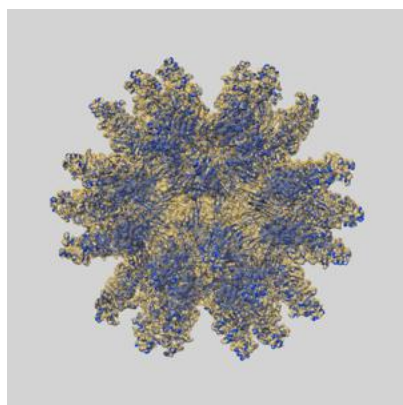
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.98	-	-
Author-provided FSC curve	3.95	4.40	4.00
Unmasked-calculated*	4.15	4.65	4.24

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

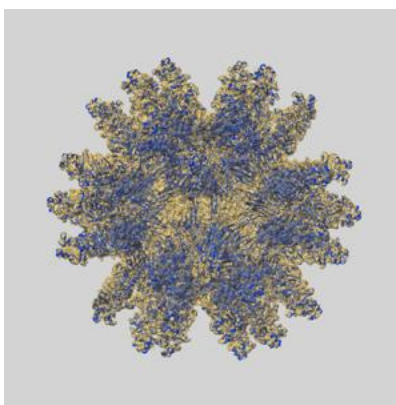
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-27077 and PDB model 8CYG. Per-residue inclusion information can be found in section [3](#) on page [10](#).

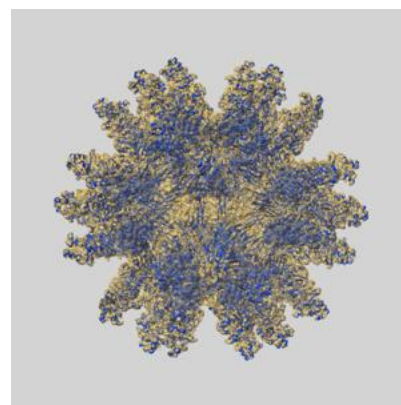
9.1 Map-model overlay [i](#)



X



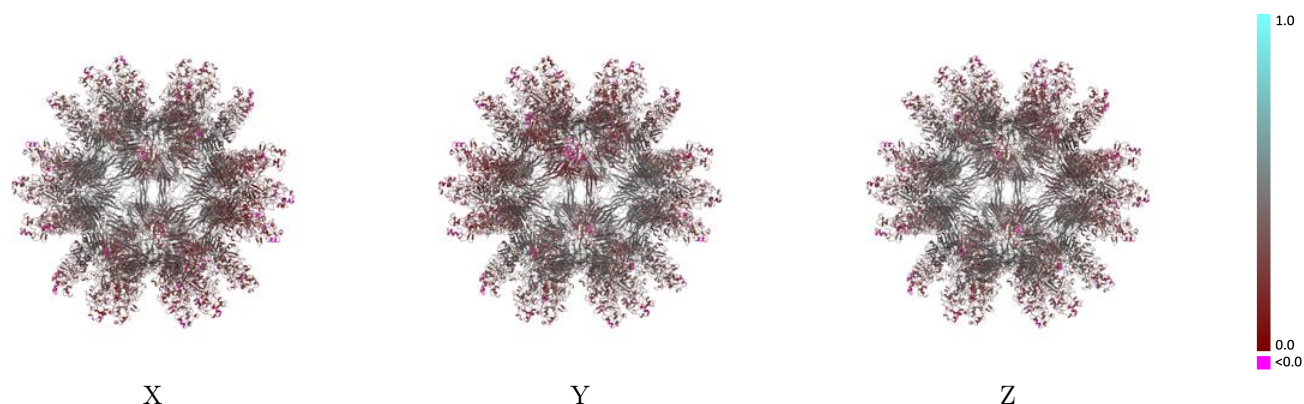
Y



Z

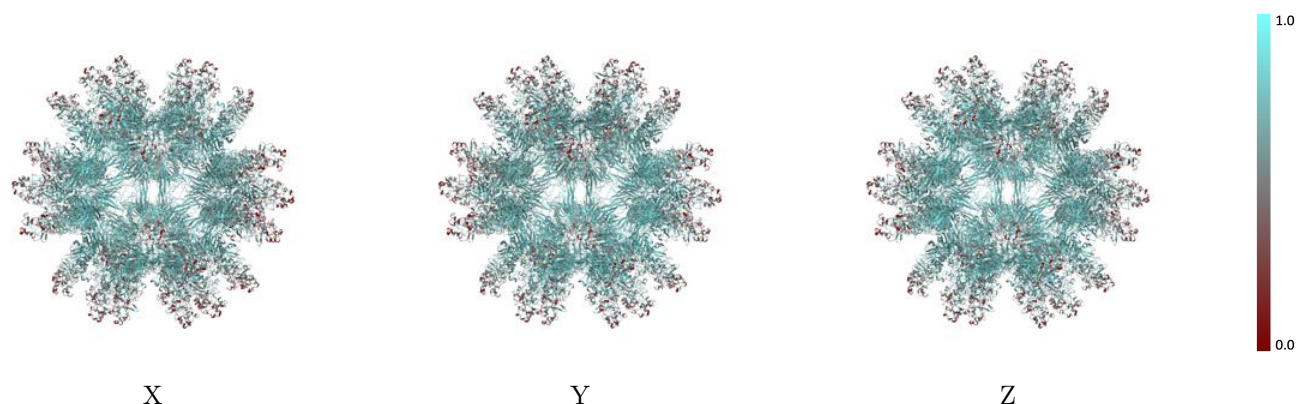
The images above show the 3D surface view of the map at the recommended contour level 2.87 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



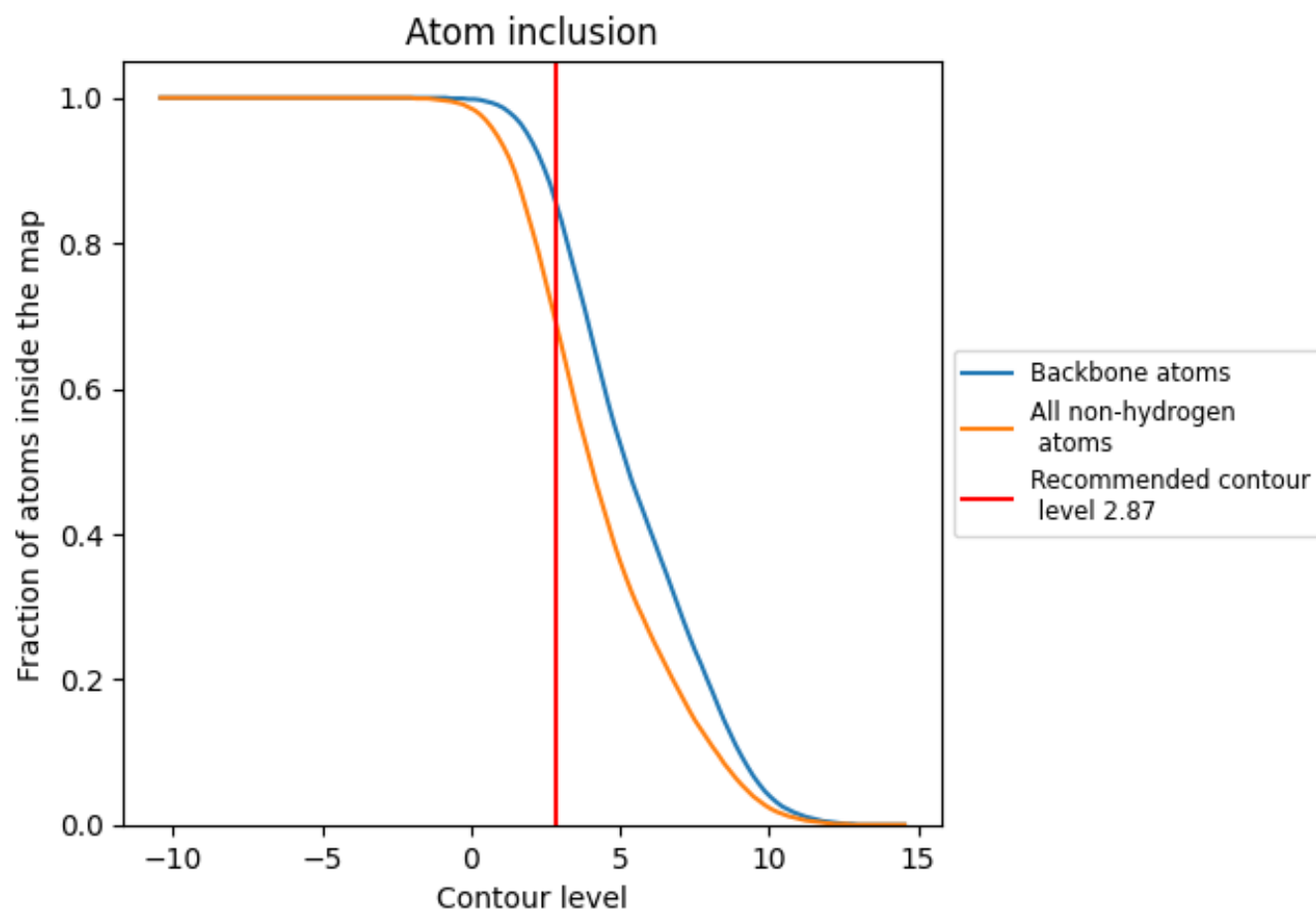
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2.87).

9.4 Atom inclusion [i](#)



At the recommended contour level, 85% of all backbone atoms, 69% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (2.87) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6870	 0.3650
0	 0.7060	 0.3870
1	 0.6280	 0.2950
2	 0.6410	 0.3060
3	 0.7040	 0.3860
4	 0.7080	 0.3860
5	 0.7060	 0.3860
6	 0.7040	 0.3860
7	 0.7050	 0.3870
A	 0.6490	 0.3150
B	 0.6740	 0.3500
C	 0.6740	 0.3520
D	 0.6540	 0.3290
E	 0.6540	 0.3270
F	 0.6820	 0.3570
G	 0.6880	 0.3660
H	 0.6910	 0.3760
I	 0.7040	 0.3880
J	 0.7040	 0.3870
K	 0.7030	 0.3870
L	 0.7010	 0.3860
M	 0.7040	 0.3850
N	 0.6780	 0.3580
O	 0.6120	 0.2580
P	 0.6820	 0.3650
Q	 0.6940	 0.3720
R	 0.6650	 0.3420
S	 0.6680	 0.3380
T	 0.6430	 0.3000
U	 0.6600	 0.3290
V	 0.6410	 0.3010
W	 0.6570	 0.3250
X	 0.6890	 0.3670
Y	 0.6630	 0.3290
Z	 0.6990	 0.3770



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Chain	Atom inclusion	Q-score
a	 0.7060	 0.3900
b	 0.7060	 0.3870
c	 0.7050	 0.3880
d	 0.7040	 0.3860
e	 0.7010	 0.3840
f	 0.7020	 0.3870
g	 0.6970	 0.3820
h	 0.7020	 0.3840
i	 0.7000	 0.3830
j	 0.7060	 0.3820
k	 0.7040	 0.3850
l	 0.7080	 0.3850
m	 0.7050	 0.3880
n	 0.7050	 0.3820
o	 0.7060	 0.3870
p	 0.7030	 0.3880
q	 0.7050	 0.3870
r	 0.7040	 0.3860
s	 0.7050	 0.3850
t	 0.6810	 0.3530
u	 0.7040	 0.3850
v	 0.7050	 0.3880
w	 0.7030	 0.3830
x	 0.7030	 0.3880
y	 0.7020	 0.3840
z	 0.6240	 0.2890