



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 05:03 PM UTC

PDB ID : 9DCC / pdb_00009dcc
EMDB ID : EMD-46749
Title : The Structure of AAV5 at 55 Degrees Celsius
Authors : Bennett, A.B.; McKenna, R.
Deposited on : 2024-08-25
Resolution : 3.12 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

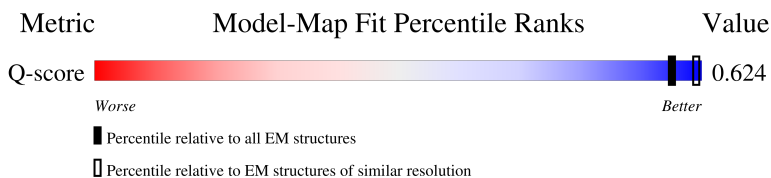
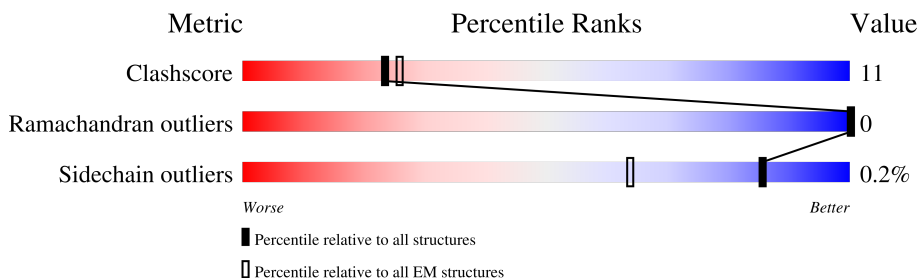
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.12 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.



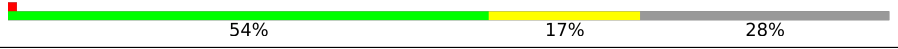
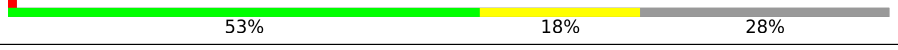
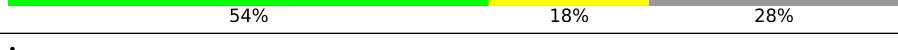
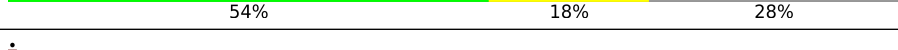
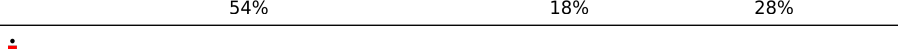
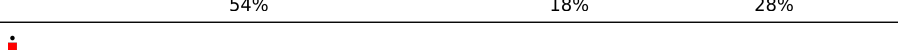
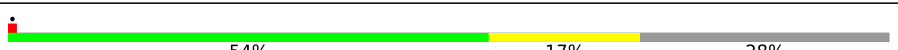
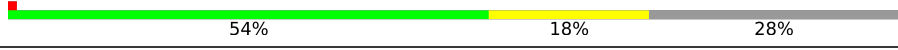
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14478 (2.62 - 3.62)

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	1	724	 53% 18% 28%
1	2	724	 54% 18% 28%
1	3	724	 53% 18% 28%
1	4	724	 54% 18% 28%

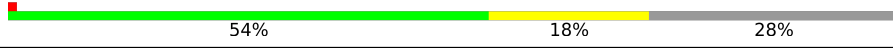
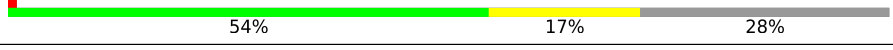
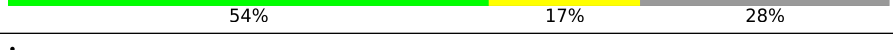
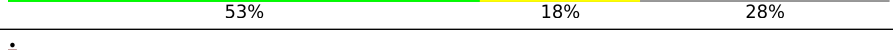
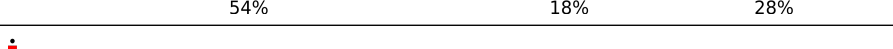
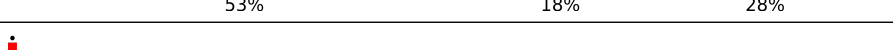
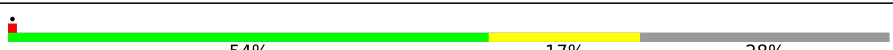
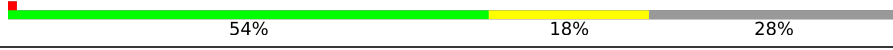
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Mol	Chain	Length	Quality of chain
1	5	724	
1	6	724	
1	7	724	
1	8	724	
1	A	724	
1	B	724	
1	C	724	
1	D	724	
1	E	724	
1	F	724	
1	G	724	
1	H	724	
1	I	724	
1	J	724	
1	K	724	
1	L	724	
1	M	724	
1	N	724	
1	O	724	
1	P	724	
1	Q	724	
1	R	724	
1	S	724	
1	T	724	
1	U	724	

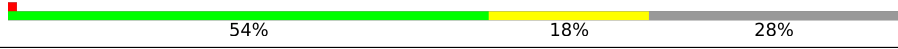
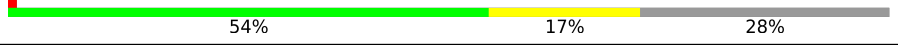
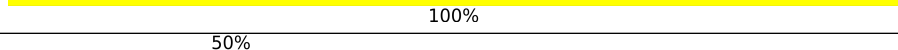
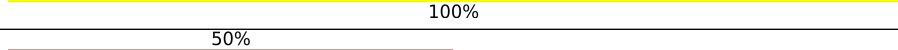
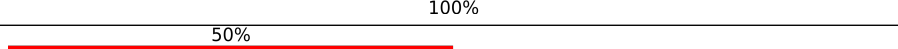
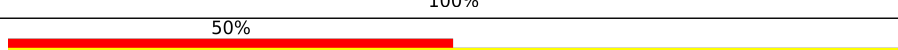
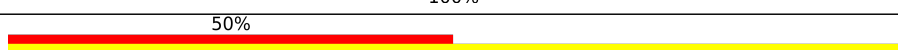
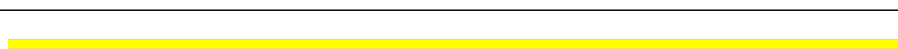
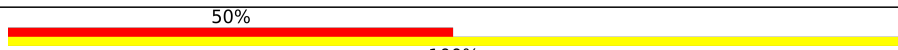
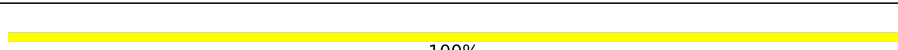
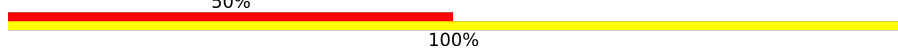
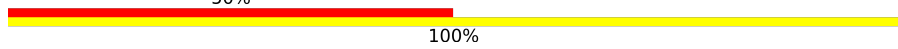
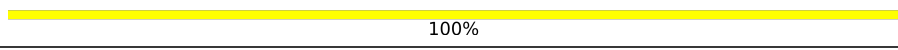
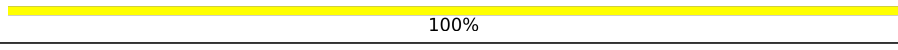
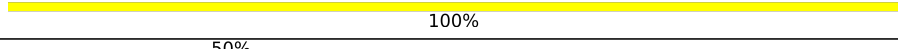
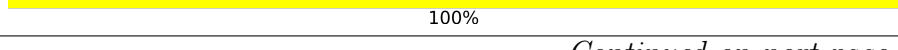
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Mol	Chain	Length	Quality of chain
1	V	724	
1	W	724	
1	X	724	
1	Y	724	
1	Z	724	
1	a	724	
1	b	724	
1	c	724	
1	d	724	
1	e	724	
1	f	724	
1	g	724	
1	h	724	
1	i	724	
1	j	724	
1	k	724	
1	l	724	
1	m	724	
1	n	724	
1	o	724	
1	p	724	
1	q	724	
1	r	724	
1	s	724	
1	t	724	

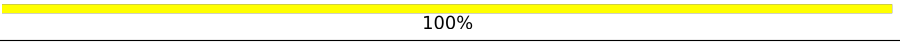
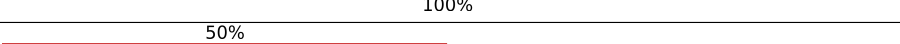
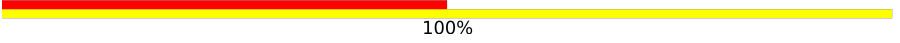
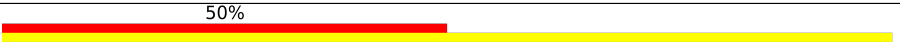
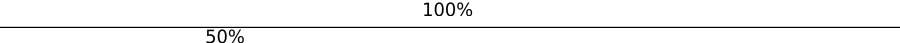
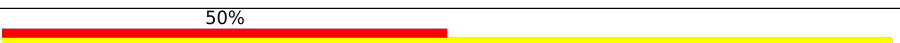
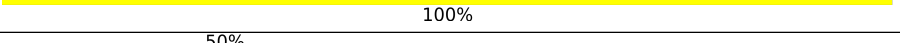
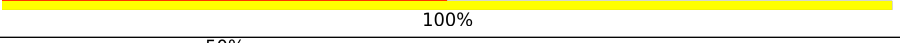
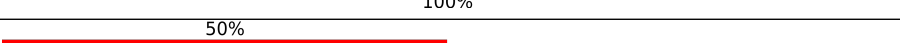
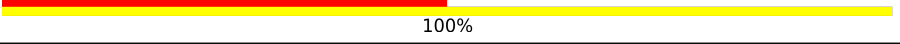
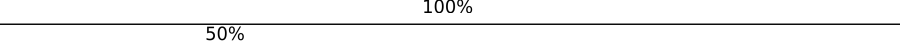
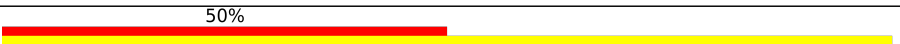
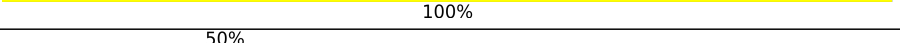
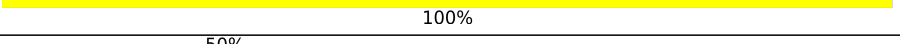
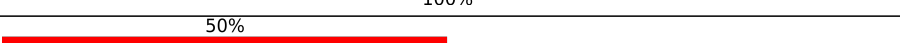
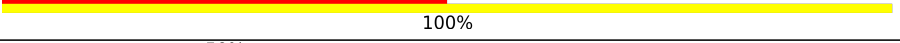
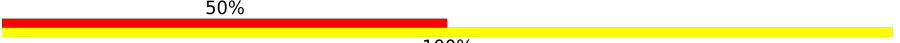
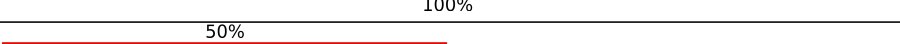
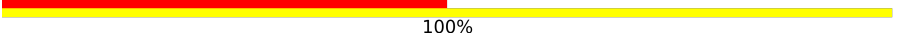
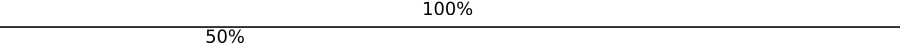
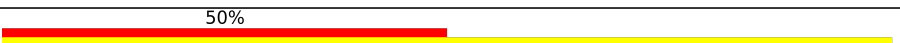
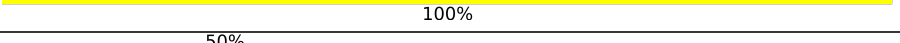
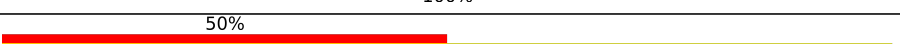
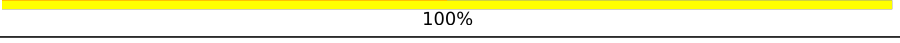
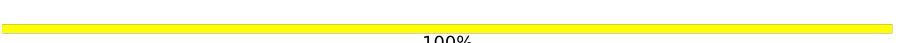
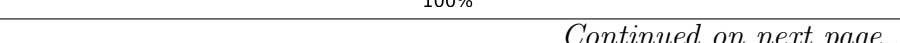
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Mol	Chain	Length	Quality of chain
1	u	724	
1	v	724	
1	w	724	
1	x	724	
1	y	724	
1	z	724	
2	0	2	
2	0A	2	
2	1A	2	
2	2A	2	
2	3A	2	
2	4A	2	
2	5A	2	
2	9	2	
2	AA	2	
2	BA	2	
2	CA	2	
2	DA	2	
2	EA	2	
2	FA	2	
2	GA	2	
2	HA	2	
2	IA	2	
2	JA	2	
2	KA	2	

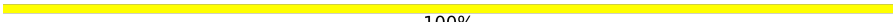
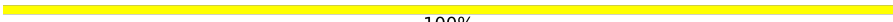
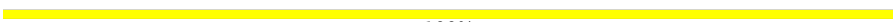
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Mol	Chain	Length	Quality of chain
2	LA	2	 100%
2	MA	2	 50%  100%
2	NA	2	 50%  100%
2	OA	2	 50%  100%
2	PA	2	 50%  100%
2	QA	2	 50%  100%
2	RA	2	 50%  100%
2	SA	2	 50%  100%
2	TA	2	 50%  100%
2	UA	2	 50%  100%
2	VA	2	 50%  100%
2	WA	2	 50%  100%
2	XA	2	 50%  100%
2	YA	2	 50%  100%
2	ZA	2	 50%  100%
2	aA	2	 50%  100%
2	bA	2	 50%  100%
2	cA	2	 50%  100%
2	dA	2	 50%  100%
2	eA	2	 50%  100%
2	fA	2	 50%  100%
2	gA	2	 50%  100%
2	hA	2	 50% 100%
2	iA	2	50% 100%
2	jA	2	100%

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Mol	Chain	Length	Quality of chain
2	kA	2	 100%
2	lA	2	 100%
2	mA	2	 100%
2	nA	2	 100%
2	oA	2	 100%
2	pA	2	 100%
2	qA	2	 100%
2	rA	2	 100%
2	sA	2	 100%
2	tA	2	 100%
2	uA	2	 100%
2	vA	2	 100%
2	wA	2	 100%
2	xA	2	 100%
2	yA	2	 100%
2	zA	2	 100%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 249720 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	A	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	B	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	C	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	D	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	E	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	F	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	G	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	H	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	I	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	J	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	K	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	L	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	M	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	N	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	O	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	P	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		
1	Q	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	S	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	T	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	U	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	V	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	W	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	X	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	Y	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	Z	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	a	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	b	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	c	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	d	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	e	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	f	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	g	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	h	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	i	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	j	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	k	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	l	518	Total 4120	C 2605	N 707	O 792	S 16	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	n	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	o	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	p	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	q	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	r	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	s	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	t	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	u	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	v	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	w	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	x	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	y	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	z	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	1	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	2	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	3	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	4	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	5	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	6	518	Total 4120	C 2605	N 707	O 792	S 16	0	0
1	7	518	Total 4120	C 2605	N 707	O 792	S 16	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	518	Total	C	N	O	S	0	0
			4120	2605	707	792	16		

- Molecule 2 is a DNA chain called DNA (5'-D(P*AP*A)-3').

Mol	Chain	Residues	Atoms					AltConf	Trace
2	0	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	JA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	UA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	fA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	qA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	1A	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	3A	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	4A	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	5A	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	9	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	AA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	BA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	CA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	DA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	EA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	FA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	GA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		
2	HA	2	Total	C	N	O	P	0	0
			42	20	10	10	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	IA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	KA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	LA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	MA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	NA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	OA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	PA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	QA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	RA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	SA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	TA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	VA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	WA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	XA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	YA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	ZA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	aA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	bA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	cA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	dA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	eA	2	Total 42	C 20	N 10	O 10	P 2	0	0

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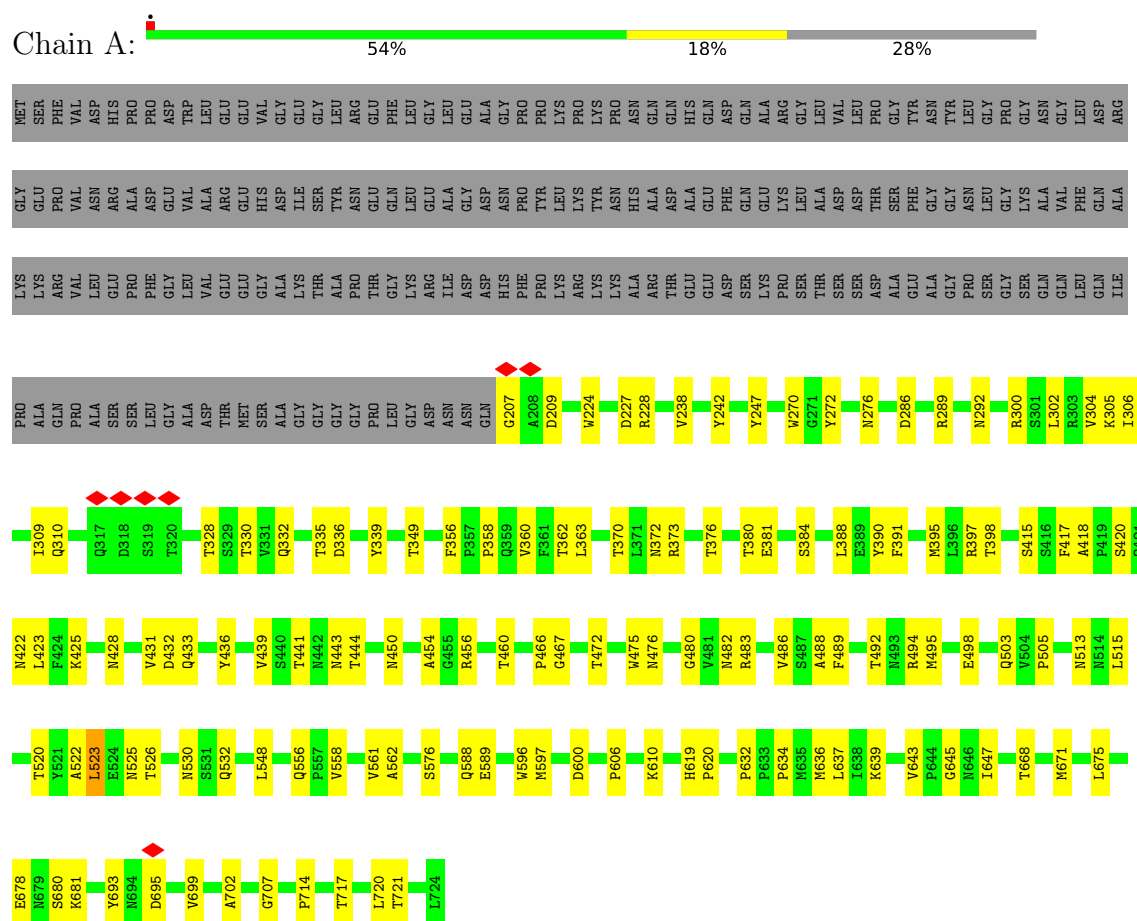
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Mol	Chain	Residues	Atoms					AltConf	Trace
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2	hA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	iA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	jA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	kA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	lA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	mA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	nA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	oA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	pA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	rA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	sA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	tA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	uA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	vA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	wA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	xA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	yA	2	Total 42	C 20	N 10	O 10	P 2	0	0
2	zA	2	Total 42	C 20	N 10	O 10	P 2	0	0
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2	2A	2	Total 42	C 20	N 10	O 10	P 2	0	0

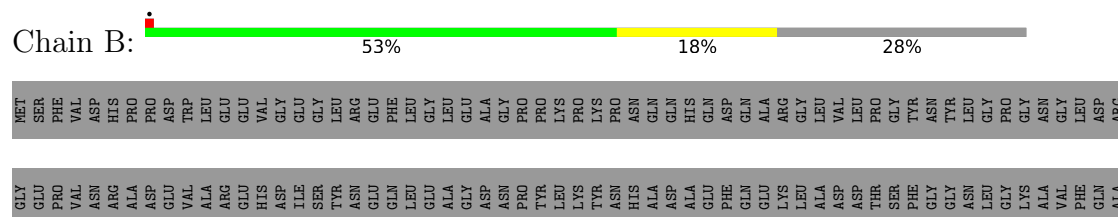
3 Residue-property plots

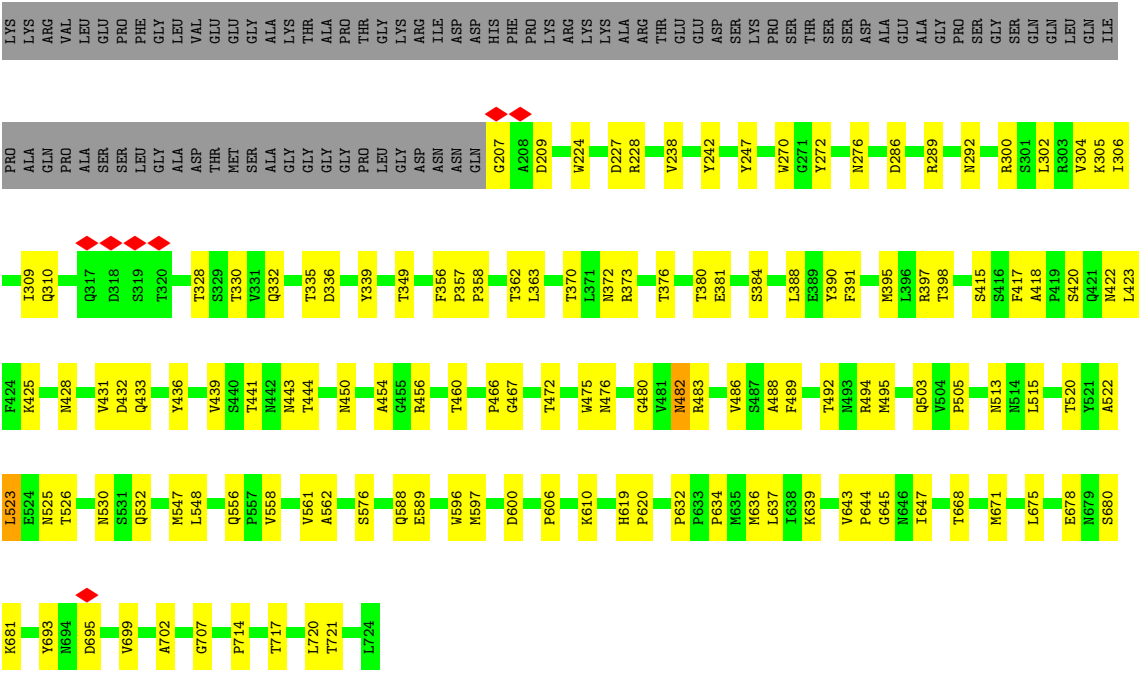
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: Capsid protein

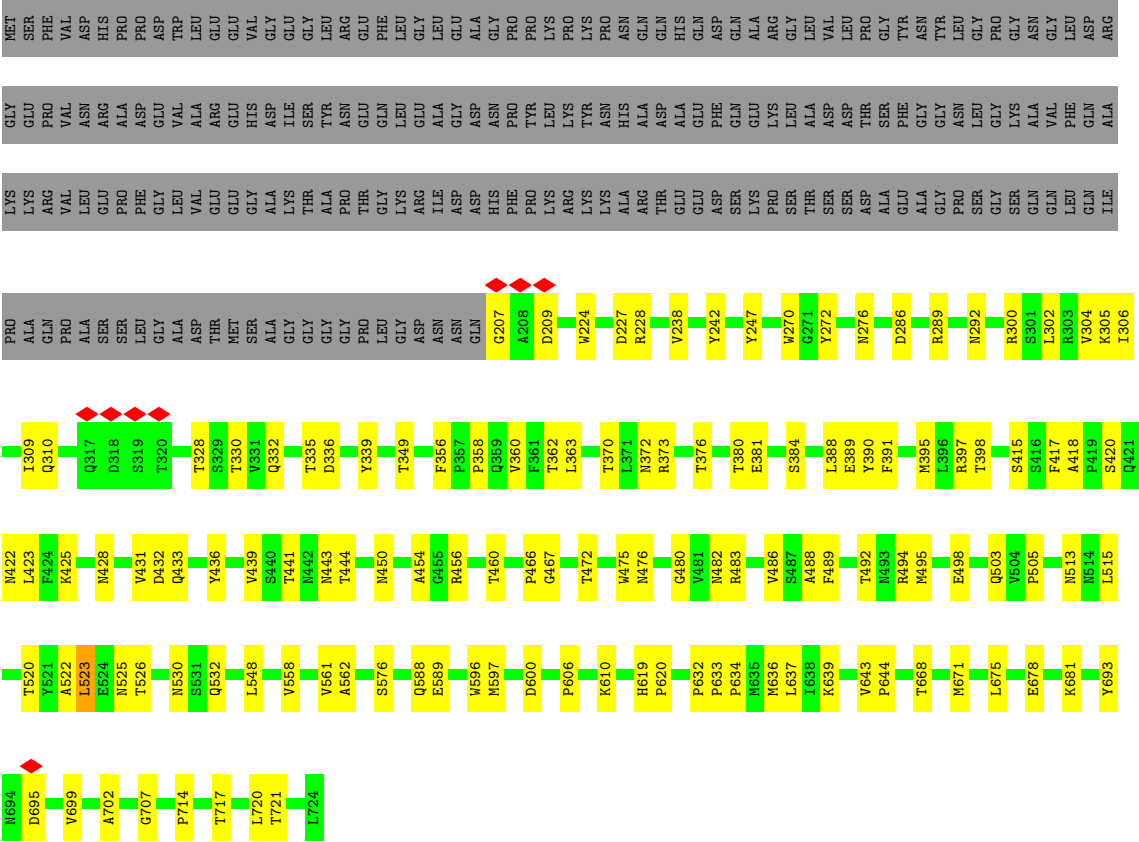


• Molecule 1: Capsid protein

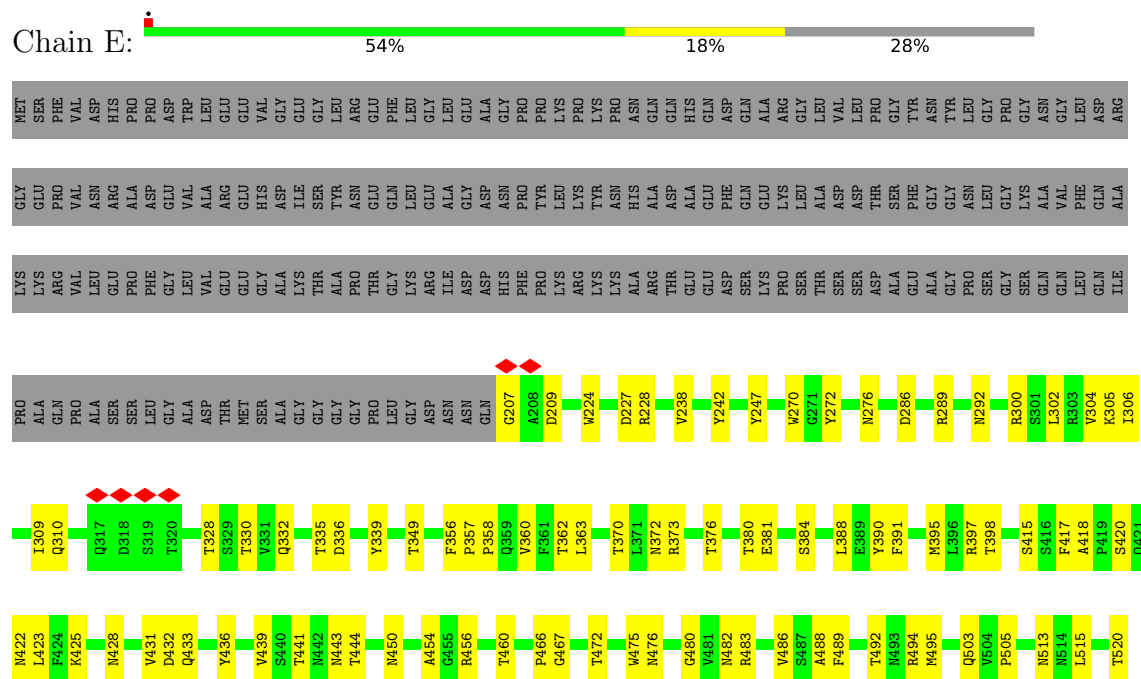


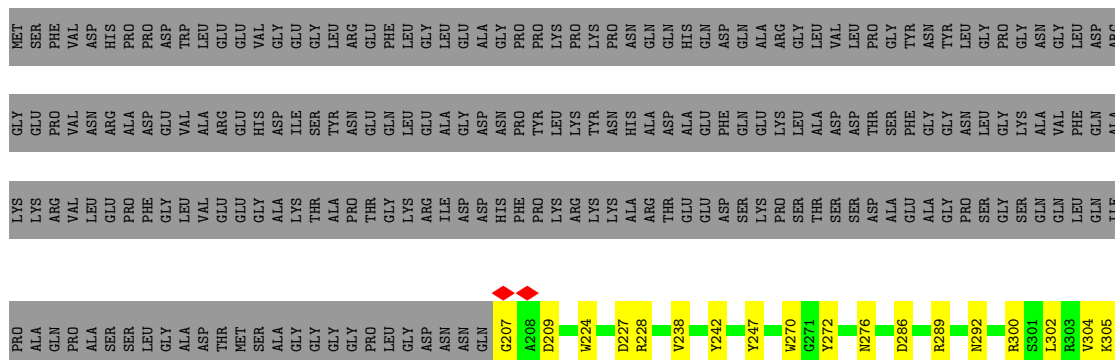
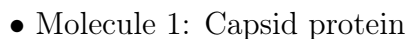
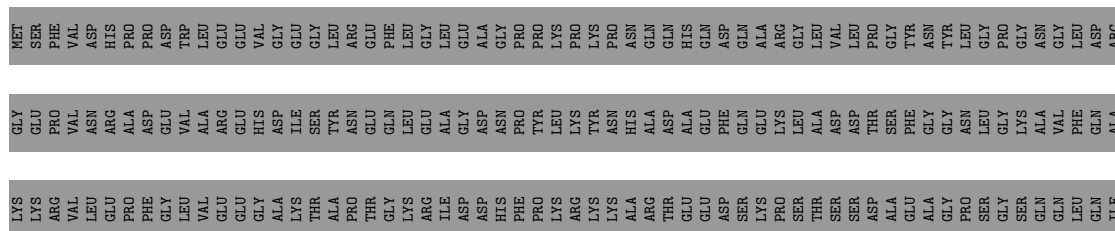
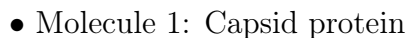


● Molecule 1: Capsid protein



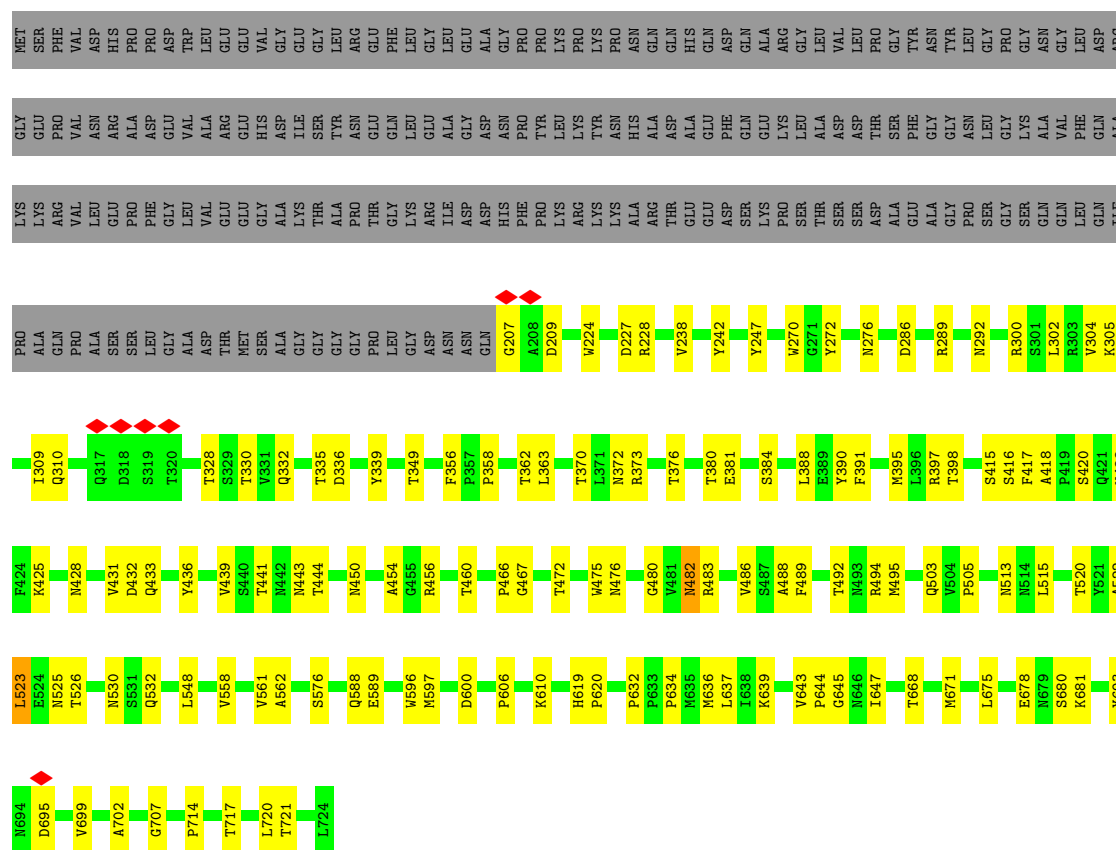
● Molecule 1: Capsid protein



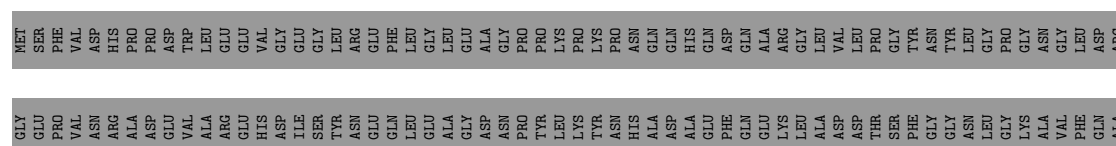


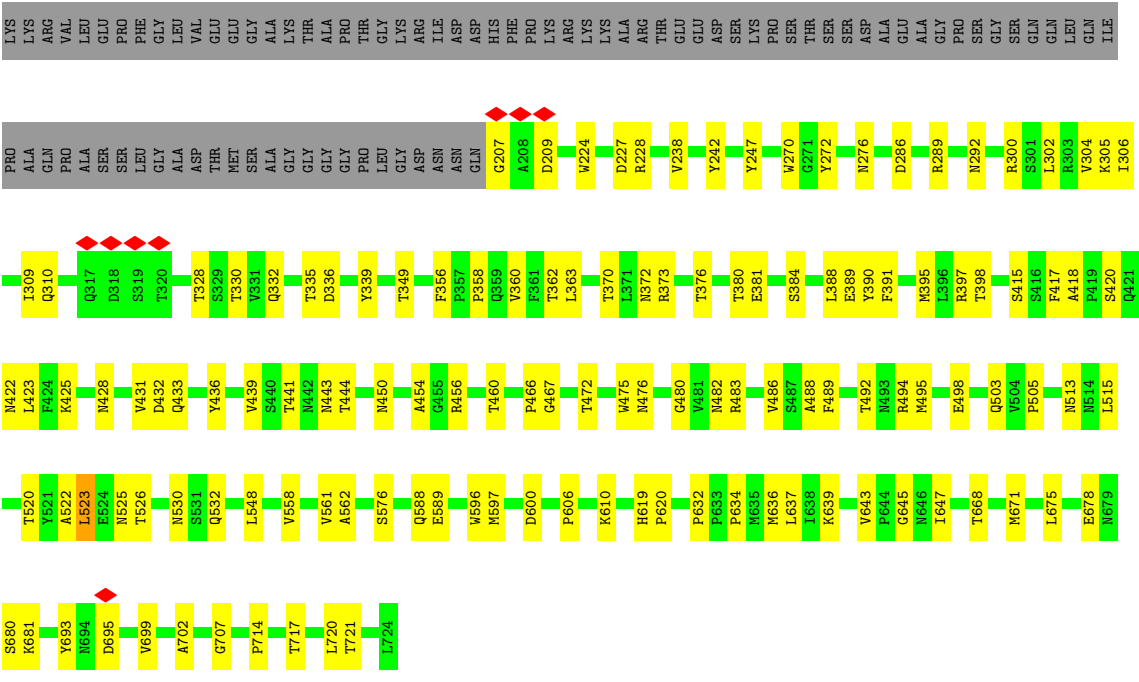


• Molecule 1: Capsid protein

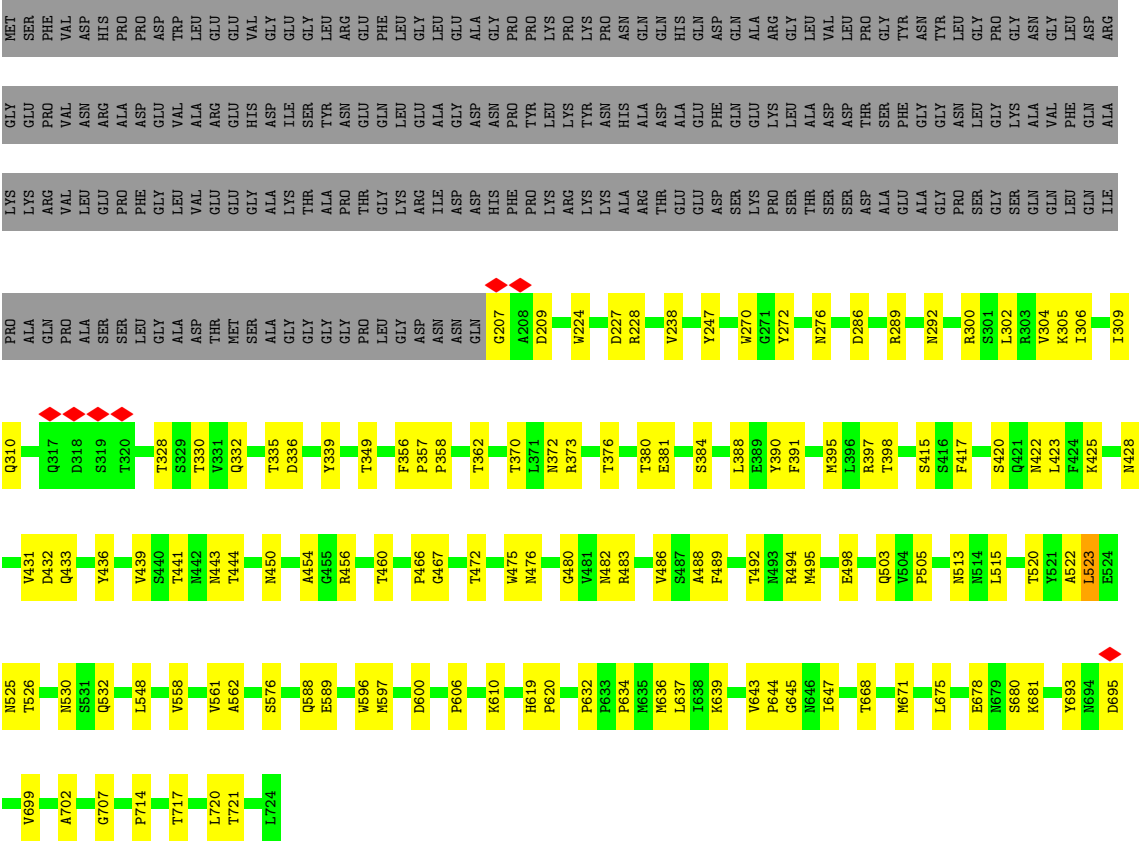


• Molecule 1: Capsid protein



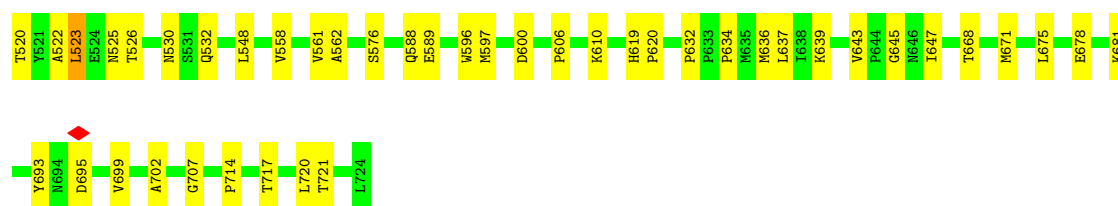


● Molecule 1: Capsid protein

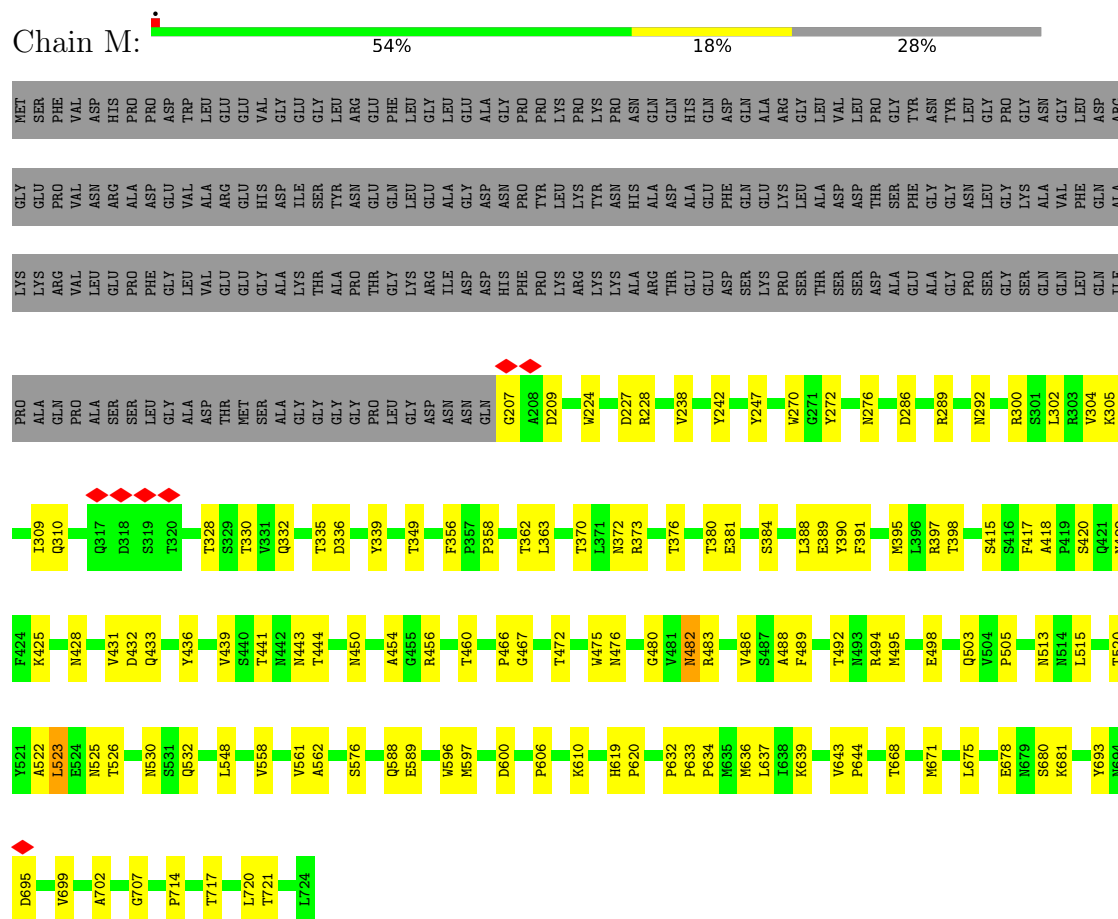


● Molecule 1: Capsid protein

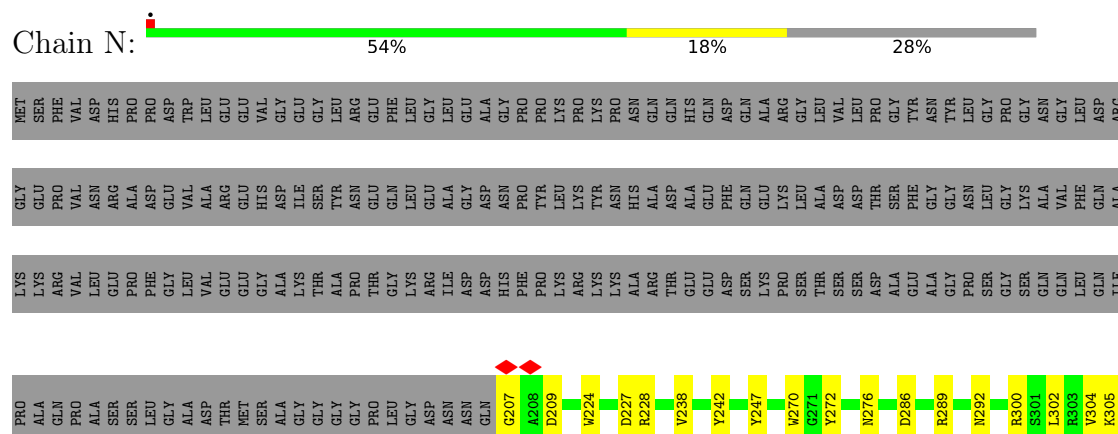




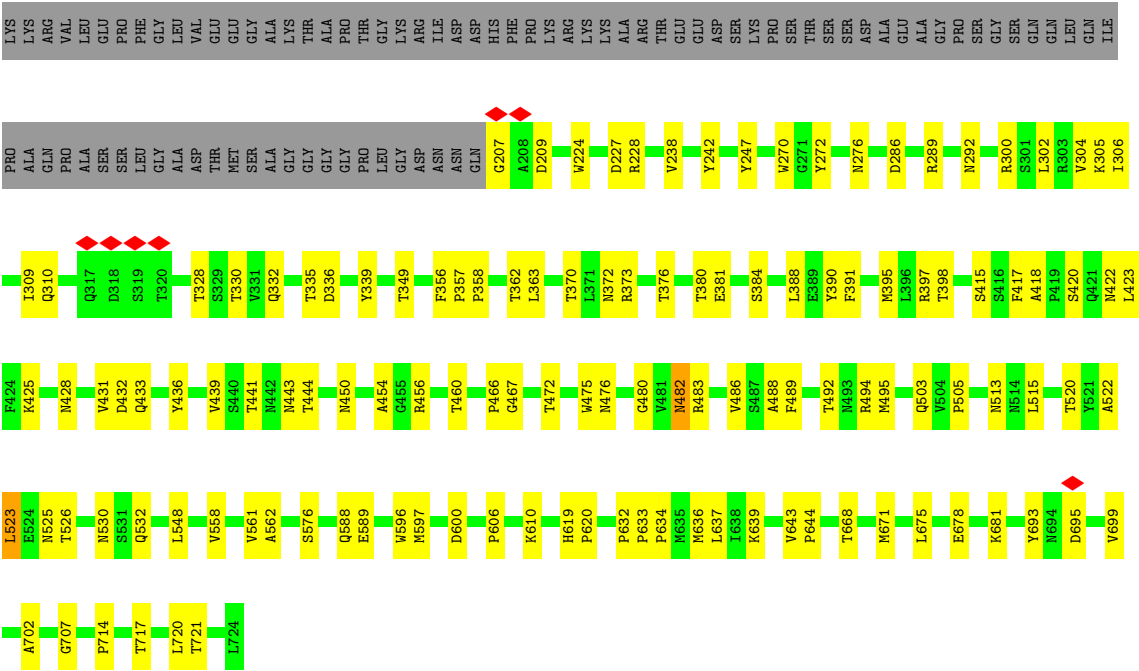
• Molecule 1: Capsid protein



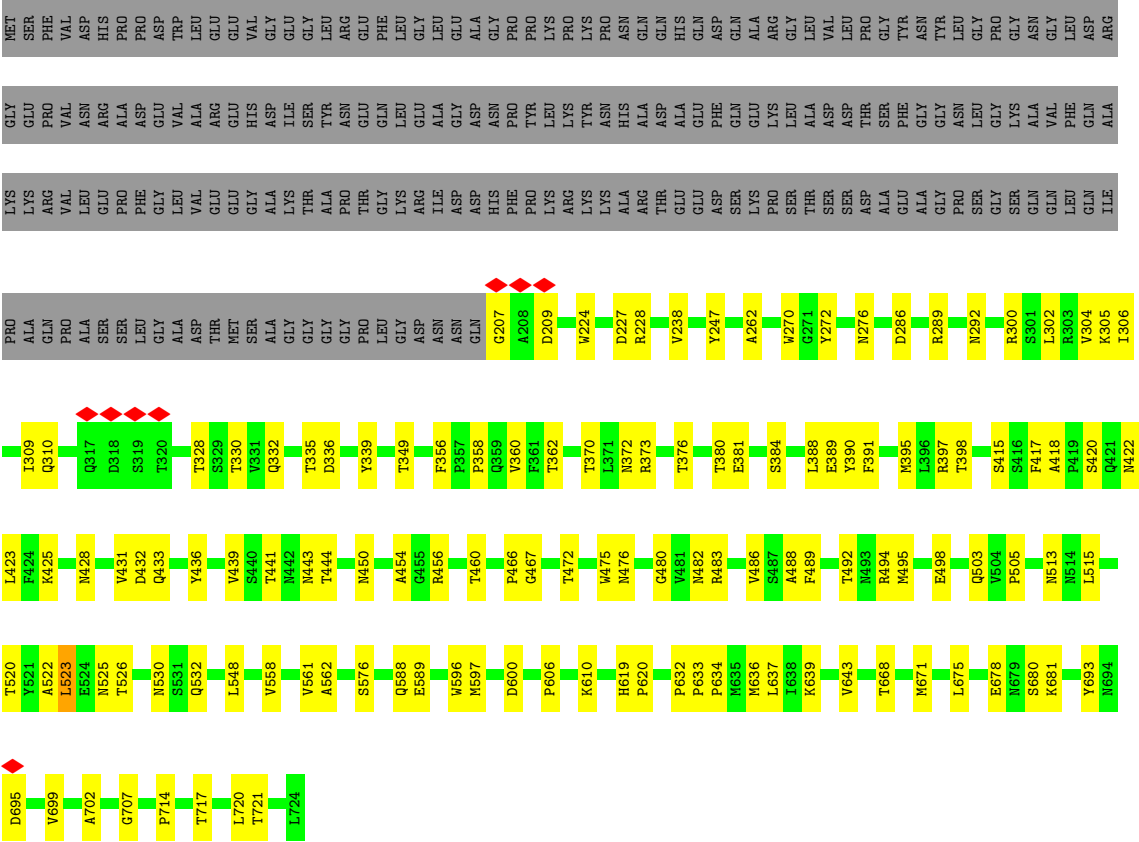
• Molecule 1: Capsid protein



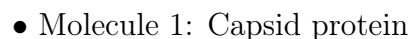


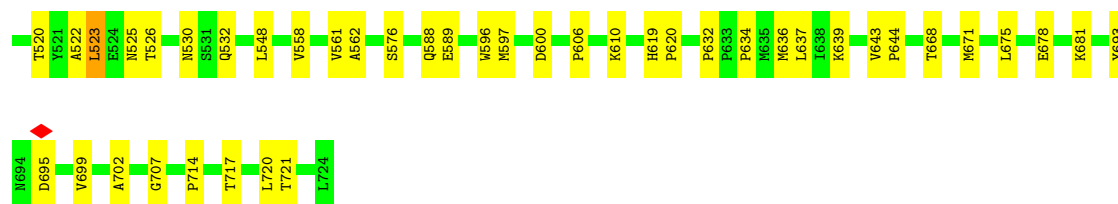


• Molecule 1: Capsid protein

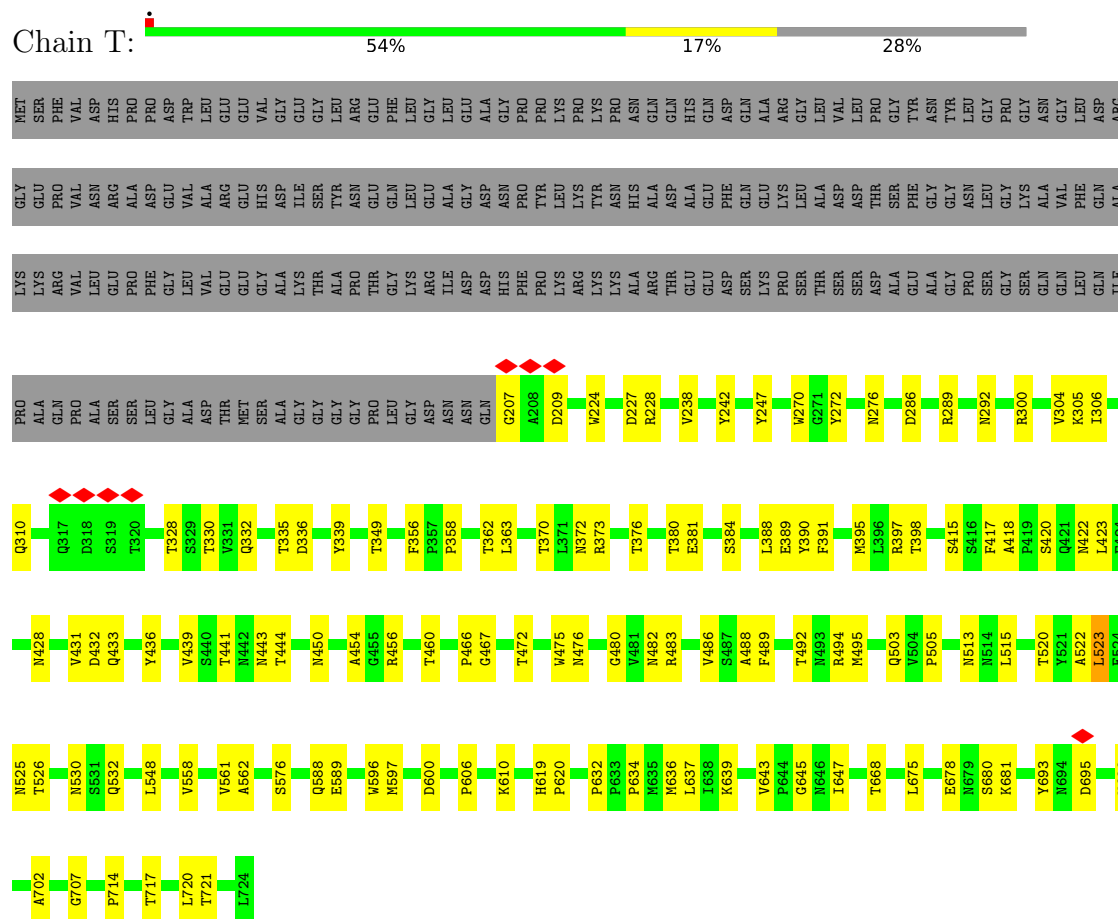


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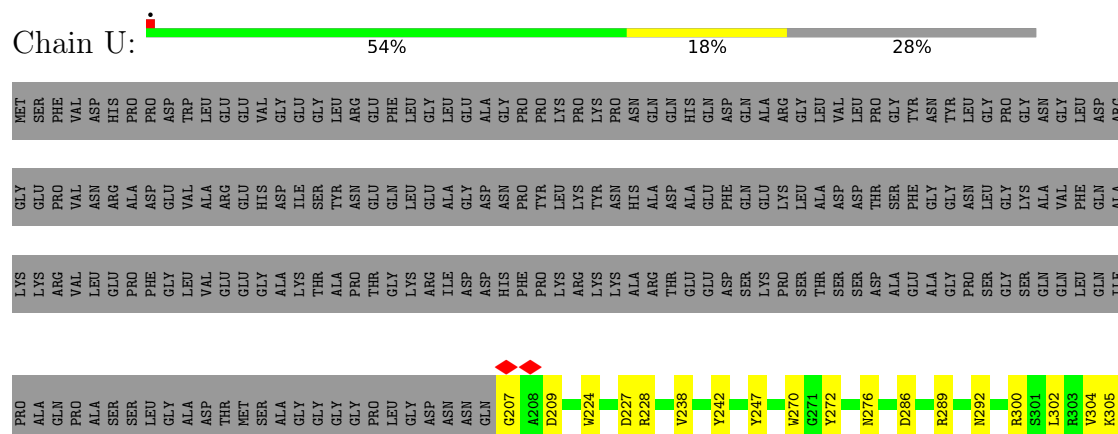


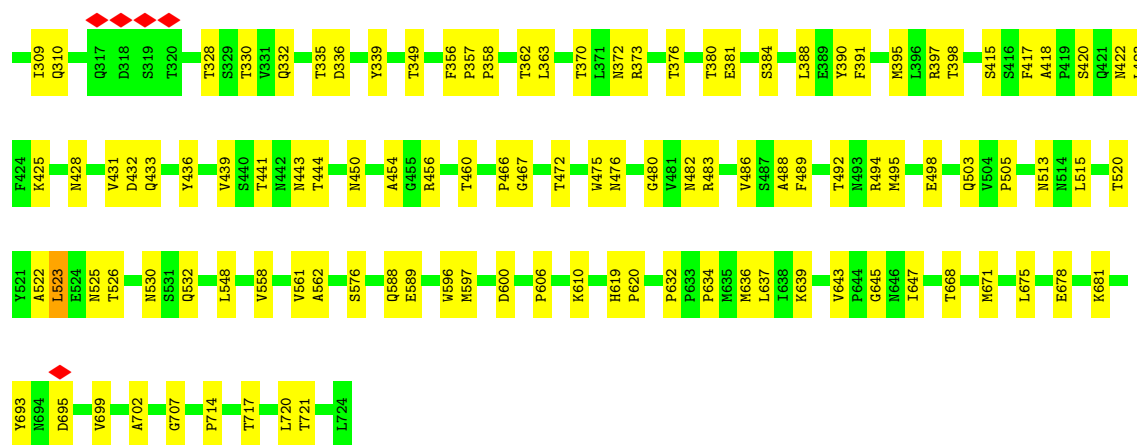


• Molecule 1: Capsid protein

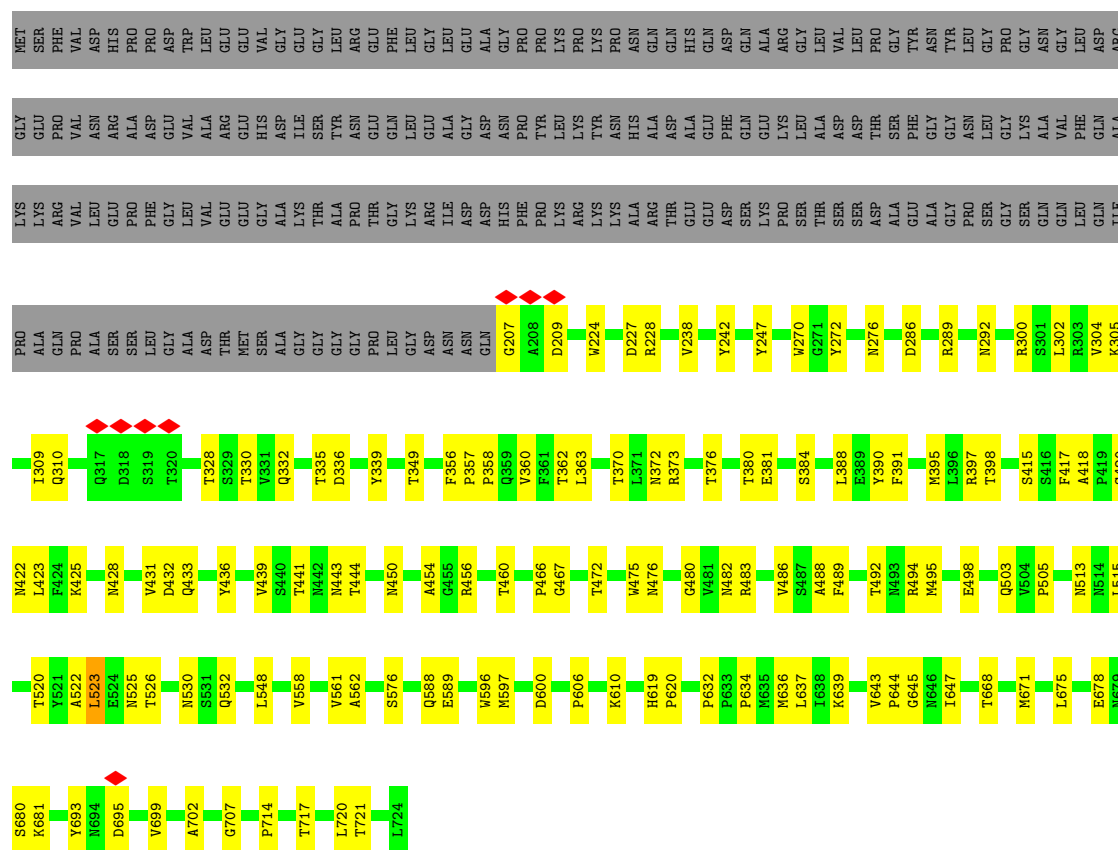


• Molecule 1: Capsid protein

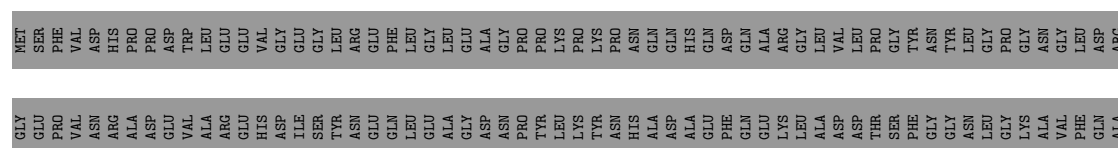


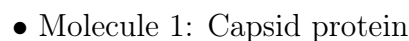


• Molecule 1: Capsid protein

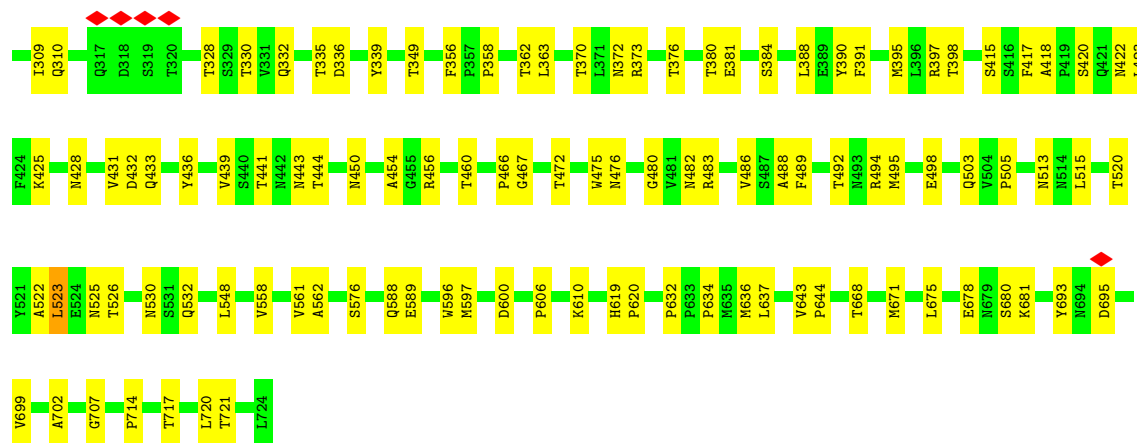


• Molecule 1: Capsid protein

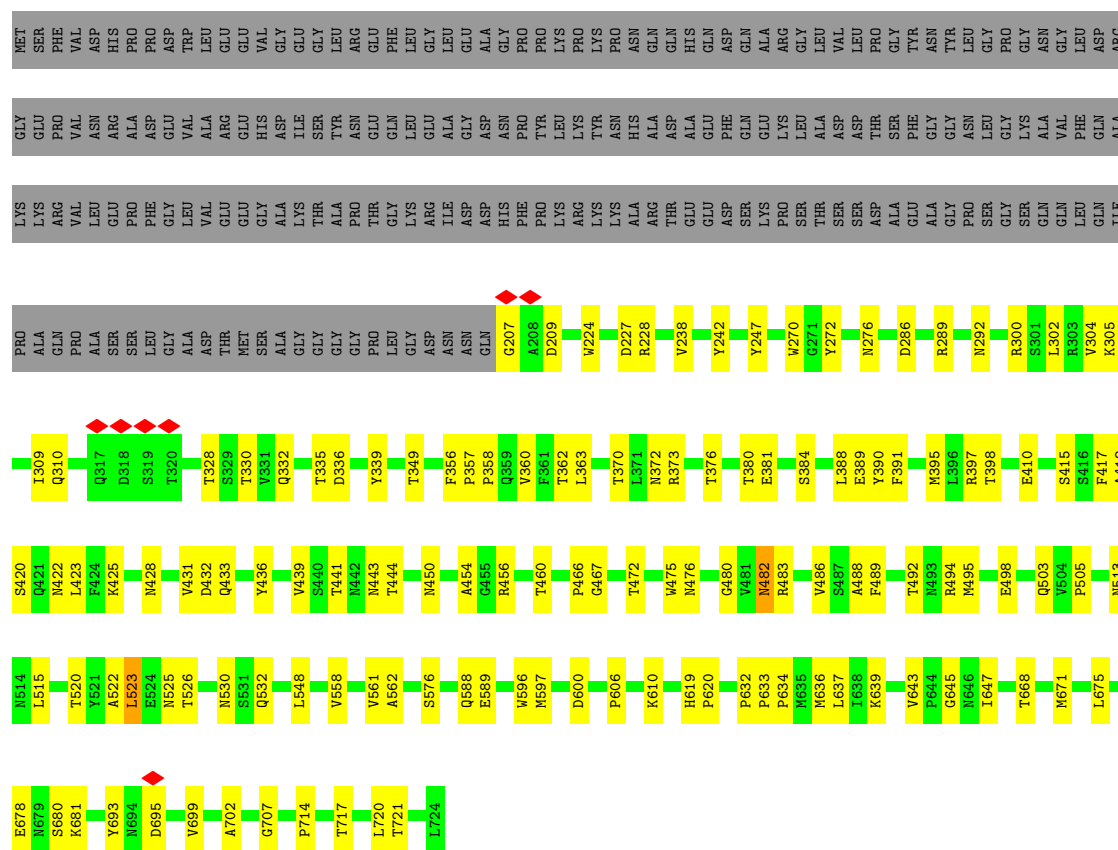




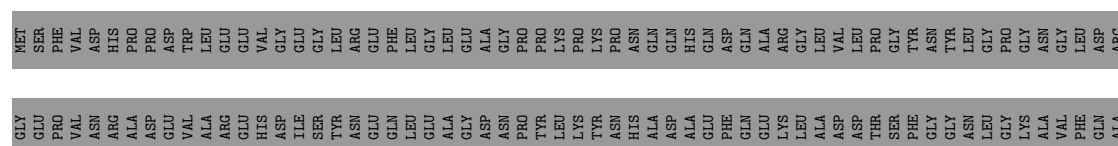


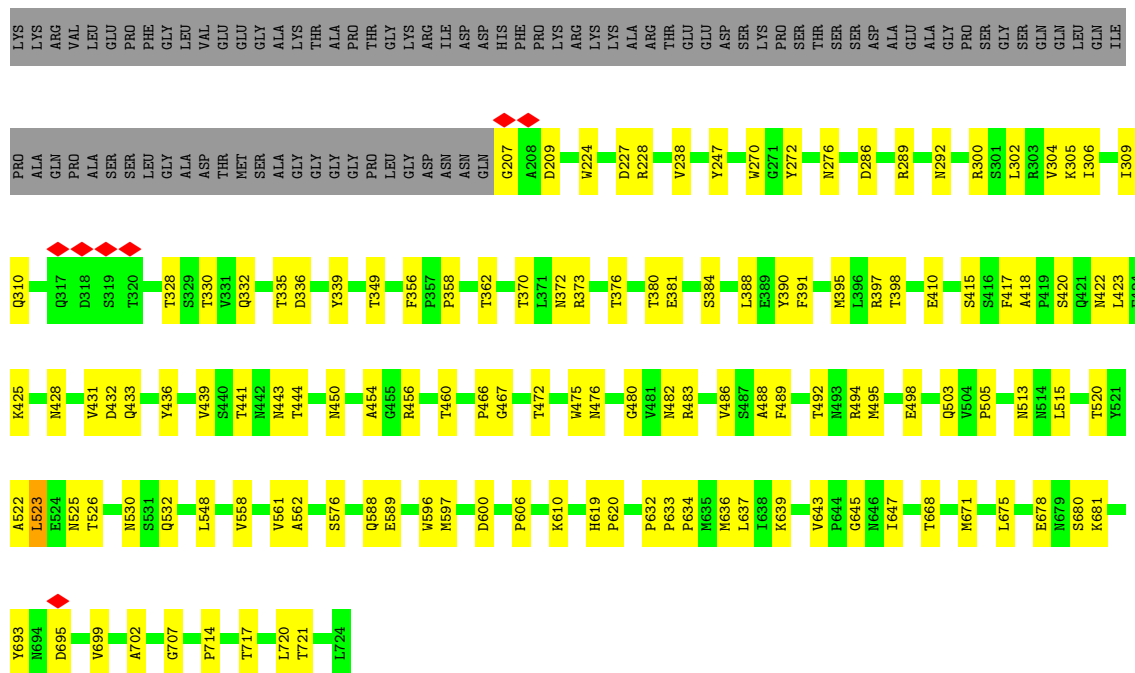


• Molecule 1: Capsid protein

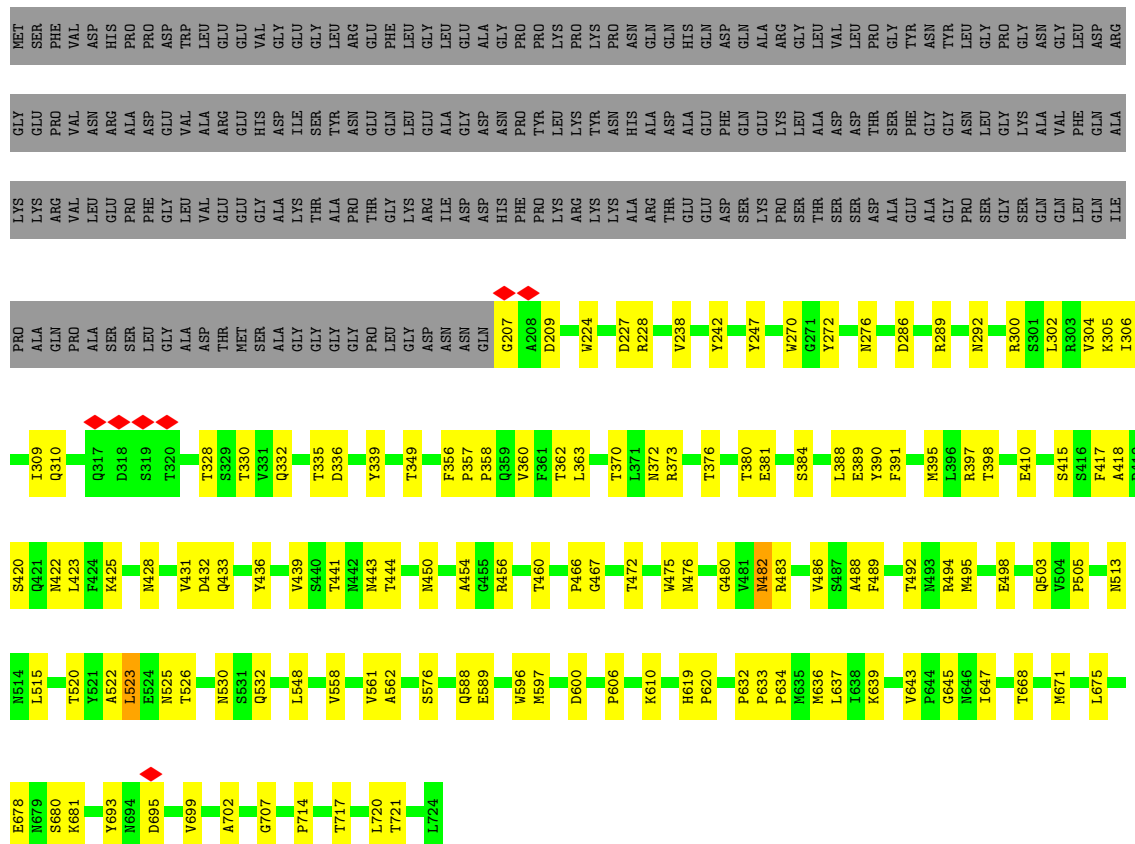


• Molecule 1: Capsid protein



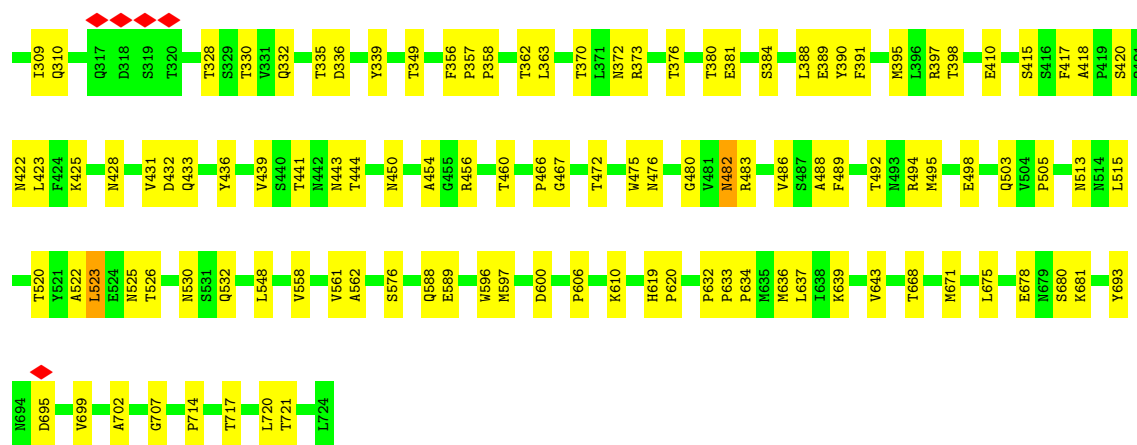


• Molecule 1: Capsid protein

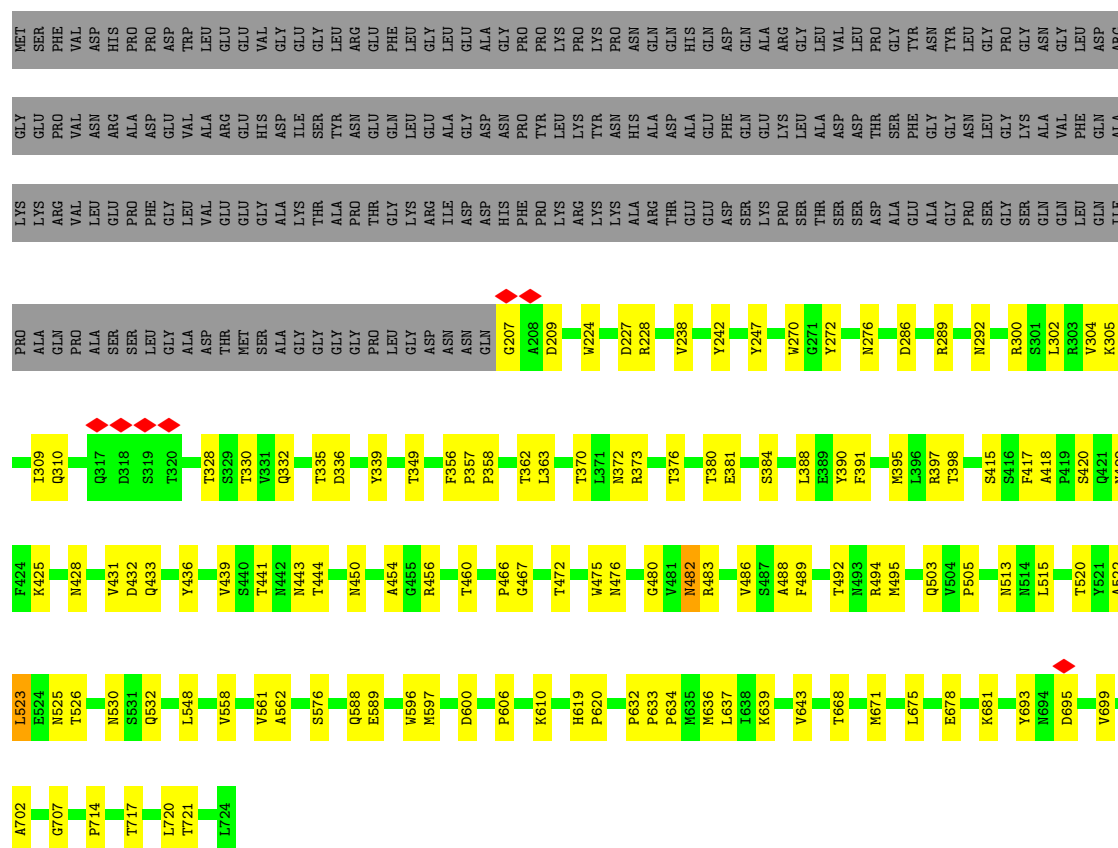


• Molecule 1: Capsid protein

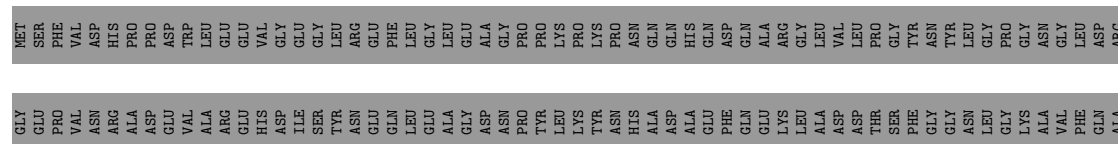


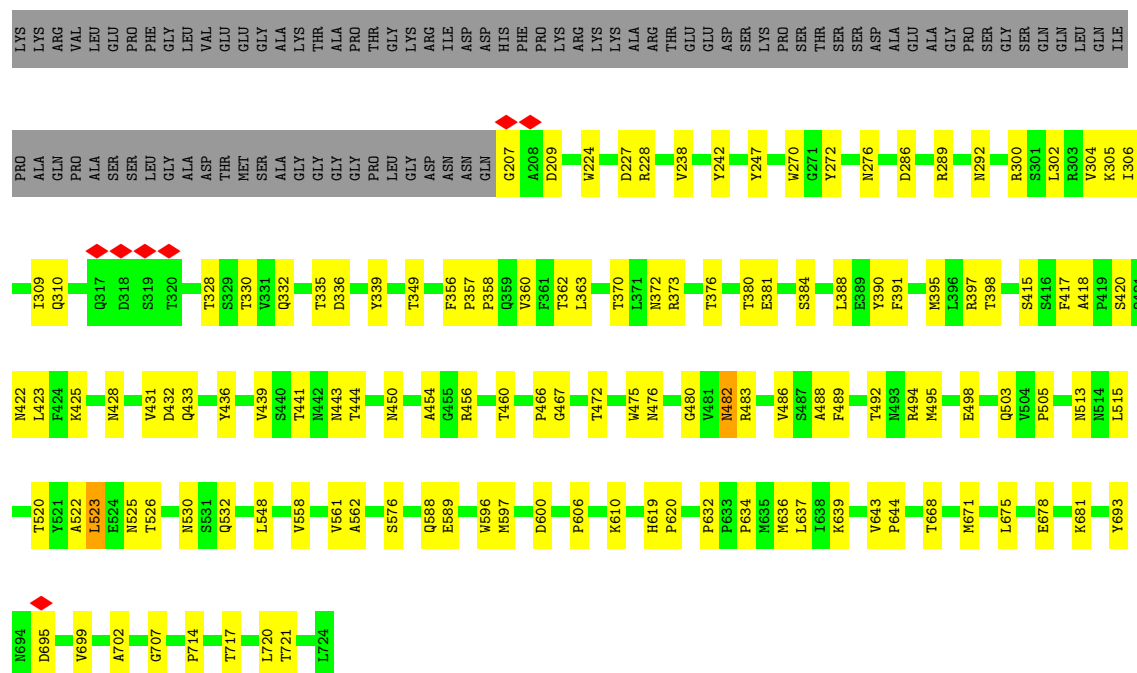


• Molecule 1: Capsid protein



• Molecule 1: Capsid protein



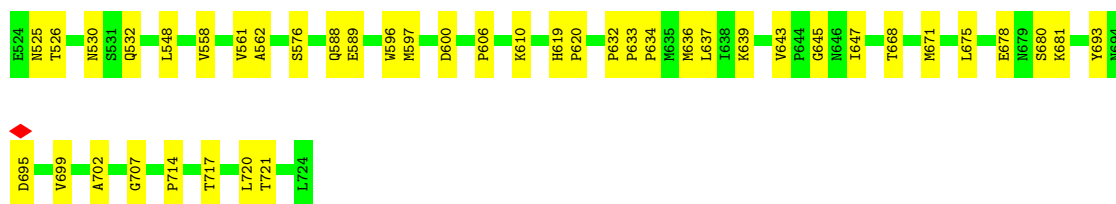


• Molecule 1: Capsid protein

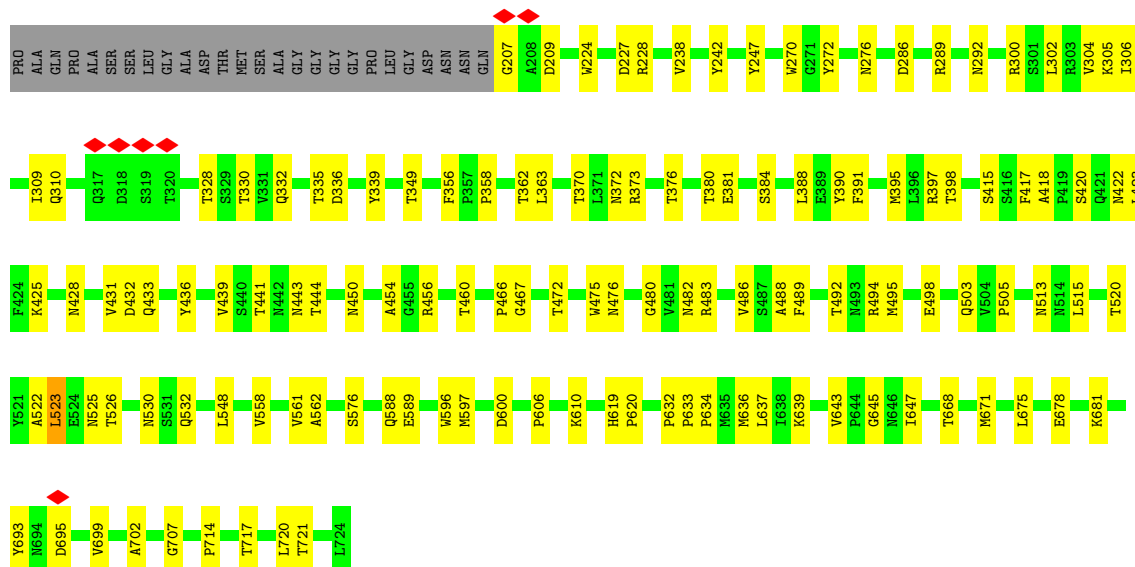
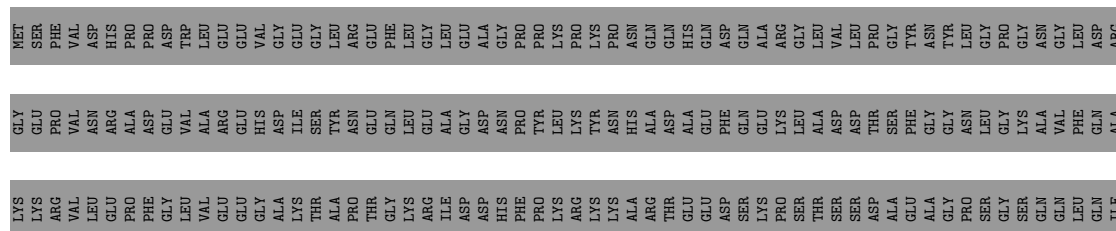


• Molecule 1: Capsid protein

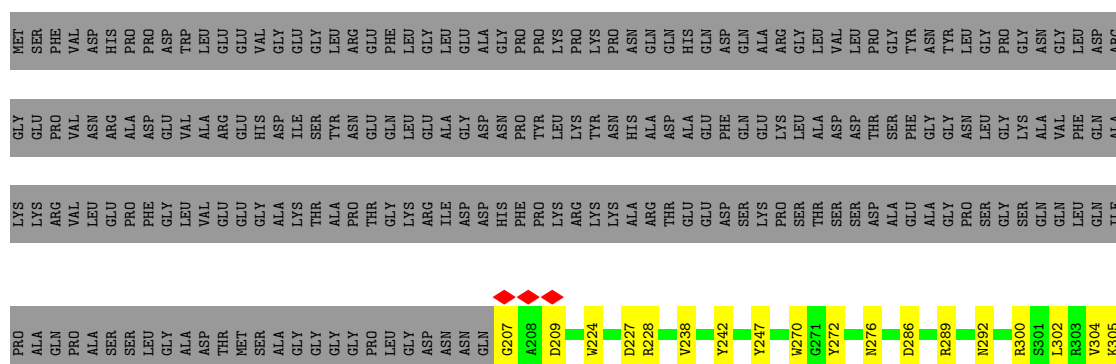


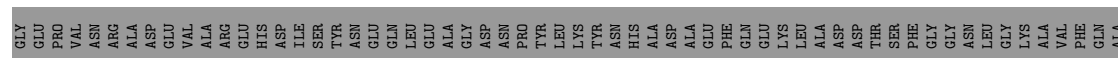


• Molecule 1: Capsid protein



• Molecule 1: Capsid protein





- Molecule 1: Capsid protein



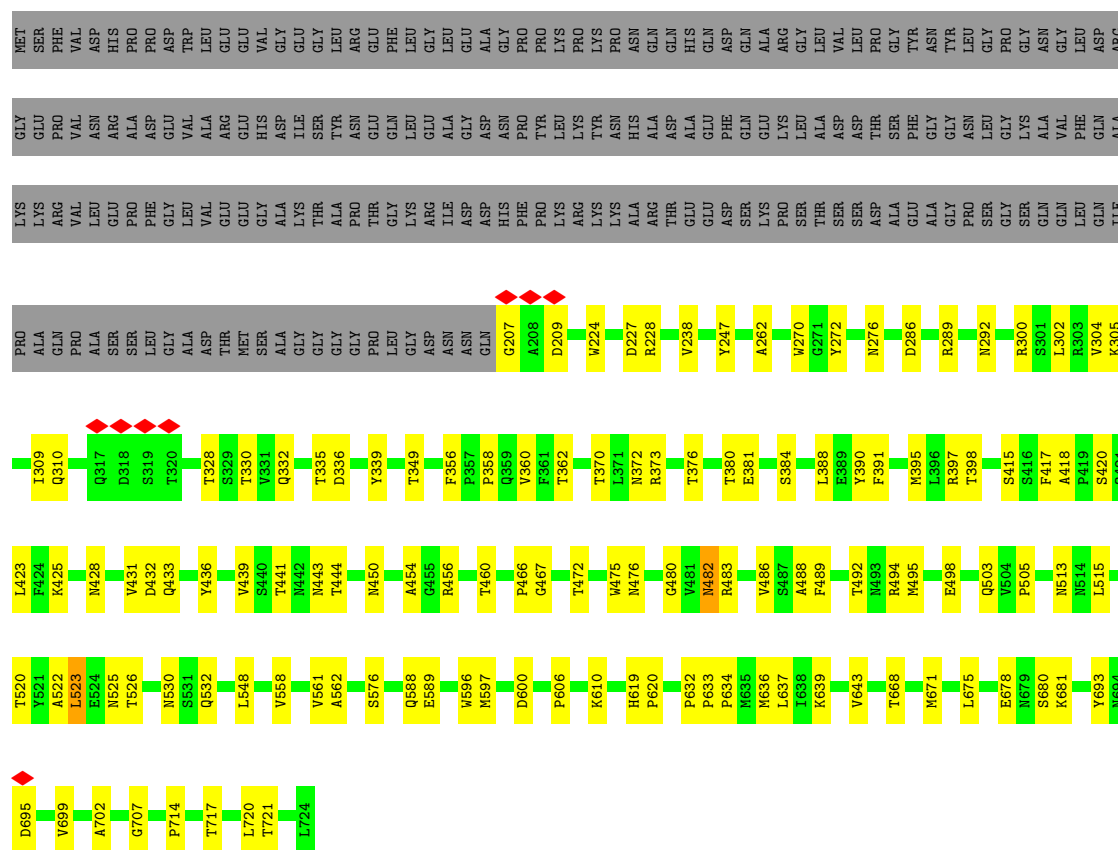
- Molecule 1: Capsid protein



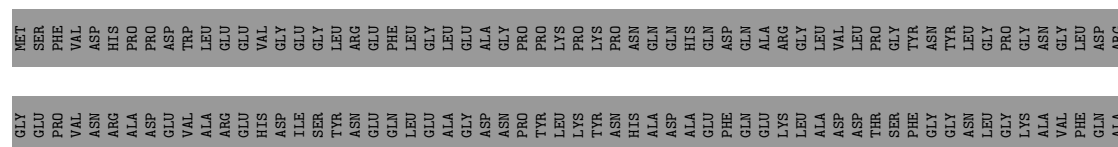


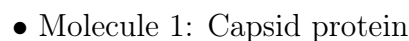


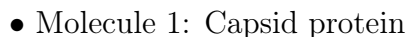
• Molecule 1: Capsid protein



• Molecule 1: Capsid protein

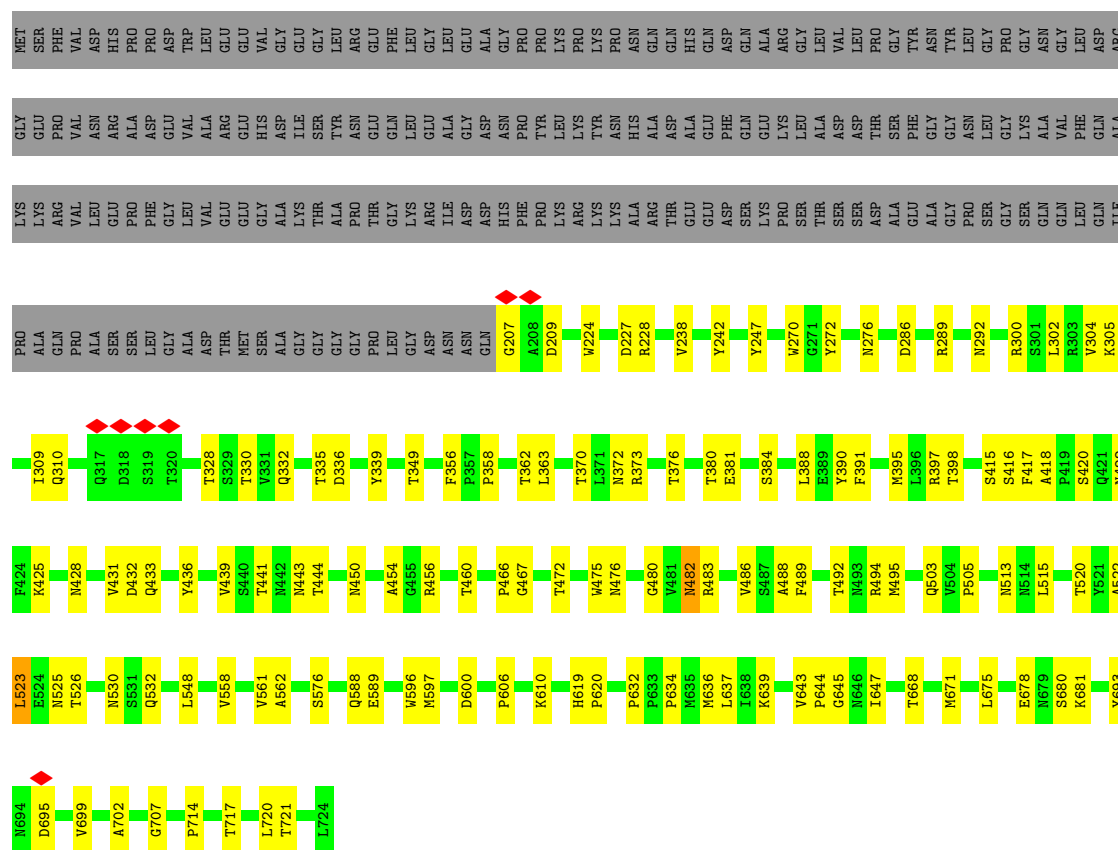




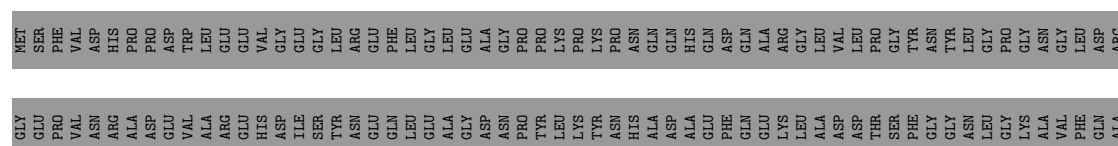


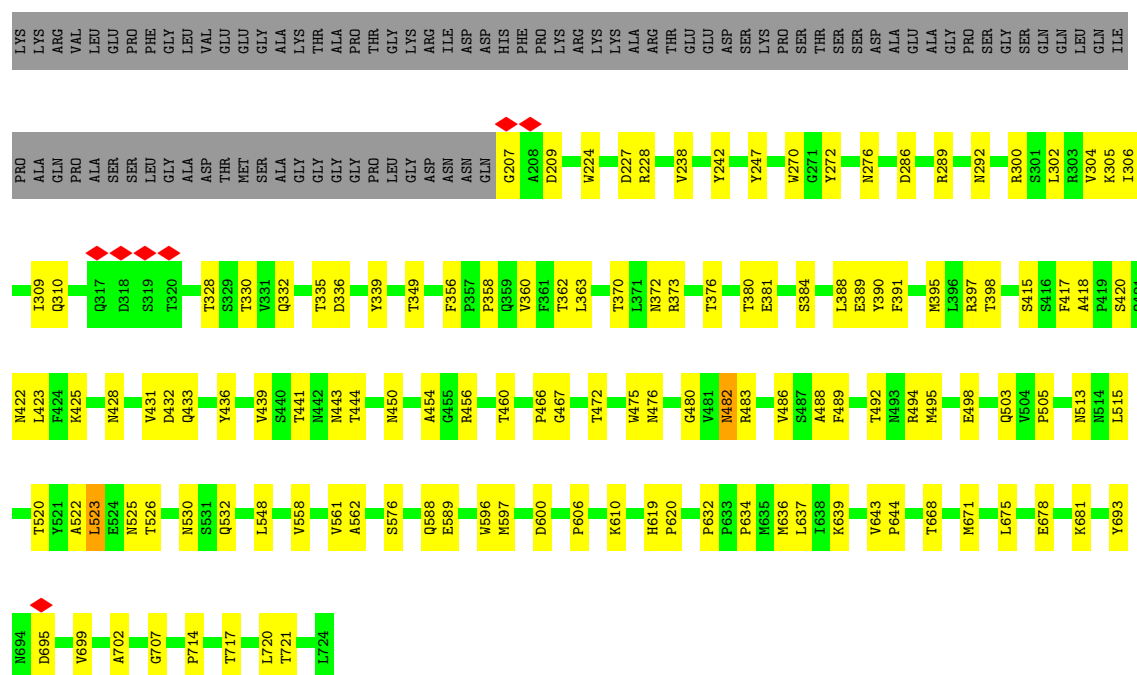


• Molecule 1: Capsid protein



• Molecule 1: Capsid protein





- Molecule 1: Capsid protein



- Molecule 1: Capsid protein

- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')





- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain HA:  100%



- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain IA:  100%



- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain KA:  50%
100%



- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain LA:  100%



- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain MA:  50%
100%



- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain NA:  50%
100%



- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain OA:  50%
100%



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')





- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



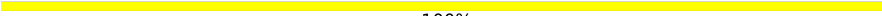
- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')

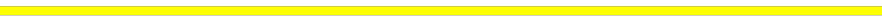


- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain kA:  100%

A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain lA:  100%

A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain mA:  50% 100%

◆
A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain nA:  50% 100%

◆
A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain oA:  50% 100%

◆
A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain pA:  50% 100%

◆
A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')

Chain rA:  50% 100%

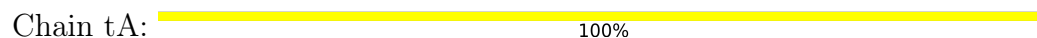
◆
A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')



A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')



A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')



A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')



A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')



A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')



A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')



A996
A997

- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



- Molecule 2: DNA (5'-D(P*AP*A)-3')



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	42158	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1289	Depositor
Maximum defocus (nm)	3967	Depositor
Magnification	Not provided	
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	22.036	Depositor
Minimum map value	-17.362	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	467.5, 467.5, 467.5	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.935, 0.935, 0.935	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	1	0.40	0/4248	0.62	1/5805 (0.0%)
1	2	0.40	0/4248	0.62	1/5805 (0.0%)
1	3	0.40	0/4248	0.62	1/5805 (0.0%)
1	4	0.40	0/4248	0.62	1/5805 (0.0%)
1	5	0.40	0/4248	0.62	1/5805 (0.0%)
1	6	0.40	0/4248	0.62	1/5805 (0.0%)
1	7	0.40	0/4248	0.62	1/5805 (0.0%)
1	8	0.40	0/4248	0.62	1/5805 (0.0%)
1	A	0.40	0/4248	0.62	1/5805 (0.0%)
1	B	0.40	0/4248	0.62	1/5805 (0.0%)
1	C	0.40	0/4248	0.62	1/5805 (0.0%)
1	D	0.40	0/4248	0.62	1/5805 (0.0%)
1	E	0.40	0/4248	0.62	1/5805 (0.0%)
1	F	0.40	0/4248	0.62	1/5805 (0.0%)
1	G	0.40	0/4248	0.62	1/5805 (0.0%)
1	H	0.40	0/4248	0.62	1/5805 (0.0%)
1	I	0.40	0/4248	0.62	1/5805 (0.0%)
1	J	0.40	0/4248	0.62	1/5805 (0.0%)
1	K	0.40	0/4248	0.62	1/5805 (0.0%)
1	L	0.40	0/4248	0.62	1/5805 (0.0%)
1	M	0.40	0/4248	0.62	1/5805 (0.0%)
1	N	0.40	0/4248	0.62	1/5805 (0.0%)
1	O	0.40	0/4248	0.62	1/5805 (0.0%)
1	P	0.40	0/4248	0.62	1/5805 (0.0%)
1	Q	0.40	0/4248	0.62	1/5805 (0.0%)
1	R	0.40	0/4248	0.62	1/5805 (0.0%)
1	S	0.40	0/4248	0.62	1/5805 (0.0%)
1	T	0.40	0/4248	0.62	1/5805 (0.0%)
1	U	0.40	0/4248	0.62	1/5805 (0.0%)
1	V	0.40	0/4248	0.62	1/5805 (0.0%)
1	W	0.40	0/4248	0.62	1/5805 (0.0%)
1	X	0.40	0/4248	0.62	1/5805 (0.0%)
1	Y	0.40	0/4248	0.62	1/5805 (0.0%)
1	Z	0.40	0/4248	0.62	1/5805 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.40	0/4248	0.62	1/5805 (0.0%)
1	b	0.40	0/4248	0.62	1/5805 (0.0%)
1	c	0.40	0/4248	0.62	1/5805 (0.0%)
1	d	0.40	0/4248	0.62	1/5805 (0.0%)
1	e	0.40	0/4248	0.62	1/5805 (0.0%)
1	f	0.40	0/4248	0.62	1/5805 (0.0%)
1	g	0.40	0/4248	0.62	1/5805 (0.0%)
1	h	0.40	0/4248	0.62	1/5805 (0.0%)
1	i	0.40	0/4248	0.62	1/5805 (0.0%)
1	j	0.40	0/4248	0.62	1/5805 (0.0%)
1	k	0.40	0/4248	0.62	1/5805 (0.0%)
1	l	0.40	0/4248	0.62	1/5805 (0.0%)
1	m	0.40	0/4248	0.62	1/5805 (0.0%)
1	n	0.40	0/4248	0.62	1/5805 (0.0%)
1	o	0.40	0/4248	0.62	1/5805 (0.0%)
1	p	0.40	0/4248	0.62	1/5805 (0.0%)
1	q	0.40	0/4248	0.62	1/5805 (0.0%)
1	r	0.40	0/4248	0.62	1/5805 (0.0%)
1	s	0.40	0/4248	0.62	1/5805 (0.0%)
1	t	0.40	0/4248	0.62	1/5805 (0.0%)
1	u	0.40	0/4248	0.62	1/5805 (0.0%)
1	v	0.40	0/4248	0.62	1/5805 (0.0%)
1	w	0.40	0/4248	0.62	1/5805 (0.0%)
1	x	0.40	0/4248	0.62	1/5805 (0.0%)
1	y	0.40	0/4248	0.62	1/5805 (0.0%)
1	z	0.40	0/4248	0.62	1/5805 (0.0%)
2	0	0.26	0/47	0.44	0/70
2	0A	0.26	0/47	0.44	0/70
2	1A	0.26	0/47	0.44	0/70
2	2A	0.26	0/47	0.44	0/70
2	3A	0.26	0/47	0.44	0/70
2	4A	0.26	0/47	0.44	0/70
2	5A	0.26	0/47	0.44	0/70
2	9	0.26	0/47	0.44	0/70
2	AA	0.27	0/47	0.44	0/70
2	BA	0.26	0/47	0.44	0/70
2	CA	0.26	0/47	0.44	0/70
2	DA	0.27	0/47	0.44	0/70
2	EA	0.27	0/47	0.44	0/70
2	FA	0.26	0/47	0.44	0/70
2	GA	0.27	0/47	0.44	0/70
2	HA	0.26	0/47	0.44	0/70
2	IA	0.26	0/47	0.44	0/70

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
2	JA	0.27	0/47	0.44	0/70
2	KA	0.26	0/47	0.44	0/70
2	LA	0.26	0/47	0.44	0/70
2	MA	0.27	0/47	0.44	0/70
2	NA	0.26	0/47	0.45	0/70
2	OA	0.26	0/47	0.44	0/70
2	PA	0.26	0/47	0.44	0/70
2	QA	0.26	0/47	0.44	0/70
2	RA	0.26	0/47	0.44	0/70
2	SA	0.27	0/47	0.44	0/70
2	TA	0.26	0/47	0.45	0/70
2	UA	0.26	0/47	0.44	0/70
2	VA	0.27	0/47	0.44	0/70
2	WA	0.27	0/47	0.44	0/70
2	XA	0.27	0/47	0.44	0/70
2	YA	0.27	0/47	0.44	0/70
2	ZA	0.27	0/47	0.44	0/70
2	aA	0.26	0/47	0.44	0/70
2	bA	0.26	0/47	0.44	0/70
2	cA	0.26	0/47	0.44	0/70
2	dA	0.26	0/47	0.44	0/70
2	eA	0.26	0/47	0.44	0/70
2	fA	0.27	0/47	0.44	0/70
2	gA	0.27	0/47	0.44	0/70
2	hA	0.26	0/47	0.44	0/70
2	iA	0.27	0/47	0.44	0/70
2	jA	0.26	0/47	0.44	0/70
2	kA	0.26	0/47	0.44	0/70
2	lA	0.26	0/47	0.44	0/70
2	mA	0.26	0/47	0.44	0/70
2	nA	0.26	0/47	0.44	0/70
2	oA	0.27	0/47	0.44	0/70
2	pA	0.26	0/47	0.44	0/70
2	qA	0.27	0/47	0.44	0/70
2	rA	0.26	0/47	0.44	0/70
2	sA	0.27	0/47	0.44	0/70
2	tA	0.26	0/47	0.44	0/70
2	uA	0.26	0/47	0.44	0/70
2	vA	0.26	0/47	0.44	0/70
2	wA	0.27	0/47	0.44	0/70
2	xA	0.27	0/47	0.44	0/70
2	yA	0.26	0/47	0.45	0/70
2	zA	0.26	0/47	0.44	0/70

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
All	All	0.40	0/257700	0.62	60/352500 (0.0%)

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	482	ASN	CB-CA-C	-5.50	108.64	116.34
1	o	482	ASN	CB-CA-C	-5.49	108.65	116.34
1	B	482	ASN	CB-CA-C	-5.49	108.66	116.34
1	L	482	ASN	CB-CA-C	-5.49	108.66	116.34
1	5	482	ASN	CB-CA-C	-5.48	108.66	116.34
1	Z	482	ASN	CB-CA-C	-5.48	108.67	116.34
1	S	482	ASN	CB-CA-C	-5.48	108.67	116.34
1	m	482	ASN	CB-CA-C	-5.48	108.67	116.34
1	w	482	ASN	CB-CA-C	-5.48	108.67	116.34
1	3	482	ASN	CB-CA-C	-5.48	108.67	116.34
1	K	482	ASN	CB-CA-C	-5.47	108.67	116.34
1	T	482	ASN	CB-CA-C	-5.47	108.67	116.34
1	g	482	ASN	CB-CA-C	-5.47	108.68	116.34
1	H	482	ASN	CB-CA-C	-5.47	108.68	116.34
1	Y	482	ASN	CB-CA-C	-5.47	108.68	116.34
1	i	482	ASN	CB-CA-C	-5.47	108.68	116.34
1	k	482	ASN	CB-CA-C	-5.47	108.68	116.34
1	u	482	ASN	CB-CA-C	-5.47	108.68	116.34
1	x	482	ASN	CB-CA-C	-5.47	108.68	116.34
1	7	482	ASN	CB-CA-C	-5.47	108.68	116.34
1	E	482	ASN	CB-CA-C	-5.47	108.69	116.34
1	G	482	ASN	CB-CA-C	-5.47	108.69	116.34
1	I	482	ASN	CB-CA-C	-5.47	108.69	116.34
1	M	482	ASN	CB-CA-C	-5.47	108.69	116.34
1	Q	482	ASN	CB-CA-C	-5.47	108.69	116.34
1	h	482	ASN	CB-CA-C	-5.47	108.69	116.34
1	l	482	ASN	CB-CA-C	-5.47	108.69	116.34
1	O	482	ASN	CB-CA-C	-5.47	108.69	116.34
1	J	482	ASN	CB-CA-C	-5.46	108.69	116.34
1	R	482	ASN	CB-CA-C	-5.46	108.69	116.34
1	r	482	ASN	CB-CA-C	-5.46	108.69	116.34
1	1	482	ASN	CB-CA-C	-5.46	108.69	116.34
1	2	482	ASN	CB-CA-C	-5.46	108.69	116.34
1	4	482	ASN	CB-CA-C	-5.46	108.69	116.34
1	D	482	ASN	CB-CA-C	-5.46	108.69	116.34
1	N	482	ASN	CB-CA-C	-5.46	108.69	116.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	482	ASN	CB-CA-C	-5.46	108.70	116.34
1	y	482	ASN	CB-CA-C	-5.46	108.70	116.34
1	V	482	ASN	CB-CA-C	-5.46	108.70	116.34
1	b	482	ASN	CB-CA-C	-5.46	108.70	116.34
1	p	482	ASN	CB-CA-C	-5.46	108.70	116.34
1	v	482	ASN	CB-CA-C	-5.46	108.70	116.34
1	6	482	ASN	CB-CA-C	-5.45	108.71	116.34
1	c	482	ASN	CB-CA-C	-5.45	108.71	116.34
1	d	482	ASN	CB-CA-C	-5.45	108.71	116.34
1	j	482	ASN	CB-CA-C	-5.45	108.71	116.34
1	A	482	ASN	CB-CA-C	-5.44	108.72	116.34
1	C	482	ASN	CB-CA-C	-5.44	108.72	116.34
1	P	482	ASN	CB-CA-C	-5.44	108.72	116.34
1	W	482	ASN	CB-CA-C	-5.44	108.72	116.34
1	e	482	ASN	CB-CA-C	-5.44	108.72	116.34
1	f	482	ASN	CB-CA-C	-5.44	108.72	116.34
1	s	482	ASN	CB-CA-C	-5.44	108.73	116.34
1	F	482	ASN	CB-CA-C	-5.43	108.73	116.34
1	n	482	ASN	CB-CA-C	-5.43	108.73	116.34
1	z	482	ASN	CB-CA-C	-5.43	108.73	116.34
1	U	482	ASN	CB-CA-C	-5.43	108.74	116.34
1	q	482	ASN	CB-CA-C	-5.43	108.74	116.34
1	8	482	ASN	CB-CA-C	-5.43	108.74	116.34
1	t	482	ASN	CB-CA-C	-5.43	108.74	116.34

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4120	0	3866	114	0
1	2	4120	0	3866	110	0
1	3	4120	0	3866	115	0
1	4	4120	0	3866	113	0
1	5	4120	0	3866	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	6	4120	0	3866	112	0
1	7	4120	0	3866	109	0
1	8	4120	0	3866	113	0
1	A	4120	0	3866	112	0
1	B	4120	0	3866	113	0
1	C	4120	0	3866	108	0
1	D	4120	0	3866	107	0
1	E	4120	0	3866	113	0
1	F	4120	0	3866	111	0
1	G	4120	0	3866	113	0
1	H	4120	0	3866	110	0
1	I	4120	0	3866	110	0
1	J	4120	0	3866	110	0
1	K	4120	0	3866	112	0
1	L	4120	0	3866	113	0
1	M	4120	0	3866	110	0
1	N	4120	0	3866	111	0
1	O	4120	0	3866	109	0
1	P	4120	0	3866	109	0
1	Q	4120	0	3866	111	0
1	R	4120	0	3866	109	0
1	S	4120	0	3866	110	0
1	T	4120	0	3866	108	0
1	U	4120	0	3866	109	0
1	V	4120	0	3866	112	0
1	W	4120	0	3866	111	0
1	X	4120	0	3866	108	0
1	Y	4120	0	3866	109	0
1	Z	4120	0	3866	113	0
1	a	4120	0	3866	112	0
1	b	4120	0	3866	105	0
1	c	4120	0	3866	114	0
1	d	4120	0	3866	111	0
1	e	4120	0	3866	115	0
1	f	4120	0	3866	105	0
1	g	4120	0	3866	108	0
1	h	4120	0	3866	109	0
1	i	4120	0	3866	112	0
1	j	4120	0	3866	109	0
1	k	4120	0	3866	109	0
1	l	4120	0	3866	107	0
1	m	4120	0	3866	108	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	n	4120	0	3866	110	0
1	o	4120	0	3866	108	0
1	p	4120	0	3866	114	0
1	q	4120	0	3866	109	0
1	r	4120	0	3866	110	0
1	s	4120	0	3866	107	0
1	t	4120	0	3866	115	0
1	u	4120	0	3866	111	0
1	v	4120	0	3866	114	0
1	w	4120	0	3866	113	0
1	x	4120	0	3866	111	0
1	y	4120	0	3866	112	0
1	z	4120	0	3866	112	0
2	0	42	0	23	4	0
2	0A	42	0	23	4	0
2	1A	42	0	23	4	0
2	2A	42	0	23	4	0
2	3A	42	0	23	4	0
2	4A	42	0	23	4	0
2	5A	42	0	23	4	0
2	9	42	0	23	5	0
2	AA	42	0	23	4	0
2	BA	42	0	23	4	0
2	CA	42	0	23	4	0
2	DA	42	0	23	5	0
2	EA	42	0	23	4	0
2	FA	42	0	23	4	0
2	GA	42	0	23	4	0
2	HA	42	0	23	4	0
2	IA	42	0	23	5	0
2	JA	42	0	23	4	0
2	KA	42	0	23	4	0
2	LA	42	0	23	4	0
2	MA	42	0	23	4	0
2	NA	42	0	23	4	0
2	OA	42	0	23	4	0
2	PA	42	0	23	4	0
2	QA	42	0	23	4	0
2	RA	42	0	23	4	0
2	SA	42	0	23	4	0
2	TA	42	0	23	5	0
2	UA	42	0	23	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	VA	42	0	23	5	0
2	WA	42	0	23	6	0
2	XA	42	0	23	4	0
2	YA	42	0	23	4	0
2	ZA	42	0	23	4	0
2	aA	42	0	23	5	0
2	bA	42	0	23	4	0
2	cA	42	0	23	5	0
2	dA	42	0	23	4	0
2	eA	42	0	23	4	0
2	fA	42	0	23	4	0
2	gA	42	0	23	4	0
2	hA	42	0	23	4	0
2	iA	42	0	23	4	0
2	jA	42	0	23	4	0
2	kA	42	0	23	5	0
2	lA	42	0	23	4	0
2	mA	42	0	23	5	0
2	nA	42	0	23	4	0
2	oA	42	0	23	5	0
2	pA	42	0	23	4	0
2	qA	42	0	23	4	0
2	rA	42	0	23	4	0
2	sA	42	0	23	4	0
2	tA	42	0	23	4	0
2	uA	42	0	23	4	0
2	vA	42	0	23	5	0
2	wA	42	0	23	4	0
2	xA	42	0	23	4	0
2	yA	42	0	23	4	0
2	zA	42	0	23	4	0
All	All	249720	0	233340	5333	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 11.

All (5333) 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:A:513:ASN:HD22	1:A:526:THR:HG22	1.21	1.06
1:v:513:ASN:HD22	1:v:526:THR:HG22	1.21	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:513:ASN:HD22	1:B:526:THR:HG22	1.21	1.06
1:1:513:ASN:HD22	1:1:526:THR:HG22	1.21	1.06
1:5:513:ASN:HD22	1:5:526:THR:HG22	1.21	1.06
1:H:513:ASN:HD22	1:H:526:THR:HG22	1.21	1.05
1:Q:513:ASN:HD22	1:Q:526:THR:HG22	1.20	1.05
1:G:513:ASN:HD22	1:G:526:THR:HG22	1.21	1.05
1:Y:513:ASN:HD22	1:Y:526:THR:HG22	1.20	1.05
1:x:513:ASN:HD22	1:x:526:THR:HG22	1.21	1.05
1:P:513:ASN:HD22	1:P:526:THR:HG22	1.20	1.05
1:T:513:ASN:HD22	1:T:526:THR:HG22	1.21	1.05
1:U:513:ASN:HD22	1:U:526:THR:HG22	1.20	1.05
1:s:513:ASN:HD22	1:s:526:THR:HG22	1.20	1.05
1:t:513:ASN:HD22	1:t:526:THR:HG22	1.21	1.05
1:7:513:ASN:HD22	1:7:526:THR:HG22	1.20	1.05
1:m:513:ASN:HD22	1:m:526:THR:HG22	1.21	1.05
1:j:513:ASN:HD22	1:j:526:THR:HG22	1.21	1.04
1:X:513:ASN:HD22	1:X:526:THR:HG22	1.21	1.04
1:k:513:ASN:HD22	1:k:526:THR:HG22	1.21	1.04
1:D:513:ASN:HD22	1:D:526:THR:HG22	1.20	1.04
1:a:513:ASN:HD22	1:a:526:THR:HG22	1.21	1.04
1:W:513:ASN:HD22	1:W:526:THR:HG22	1.20	1.03
1:e:513:ASN:HD22	1:e:526:THR:HG22	1.20	1.03
1:o:513:ASN:HD22	1:o:526:THR:HG22	1.21	1.03
1:3:513:ASN:HD22	1:3:526:THR:HG22	1.21	1.03
1:J:513:ASN:HD22	1:J:526:THR:HG22	1.21	1.03
1:6:513:ASN:HD22	1:6:526:THR:HG22	1.21	1.03
1:8:513:ASN:HD22	1:8:526:THR:HG22	1.21	1.03
1:c:513:ASN:HD22	1:c:526:THR:HG22	1.21	1.03
1:2:513:ASN:HD22	1:2:526:THR:HG22	1.20	1.03
1:C:513:ASN:HD22	1:C:526:THR:HG22	1.21	1.03
1:I:513:ASN:HD22	1:I:526:THR:HG22	1.20	1.03
1:Z:513:ASN:HD22	1:Z:526:THR:HG22	1.20	1.03
1:n:513:ASN:HD22	1:n:526:THR:HG22	1.21	1.03
1:g:513:ASN:HD22	1:g:526:THR:HG22	1.20	1.02
1:l:513:ASN:HD22	1:l:526:THR:HG22	1.21	1.02
1:q:513:ASN:HD22	1:q:526:THR:HG22	1.21	1.02
1:u:513:ASN:HD22	1:u:526:THR:HG22	1.21	1.02
1:K:513:ASN:HD22	1:K:526:THR:HG22	1.21	1.02
1:d:513:ASN:HD22	1:d:526:THR:HG22	1.21	1.02
1:R:513:ASN:HD22	1:R:526:THR:HG22	1.21	1.02
1:S:513:ASN:HD22	1:S:526:THR:HG22	1.20	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:513:ASN:HD22	1:M:526:THR:HG22	1.20	1.02
1:O:513:ASN:HD22	1:O:526:THR:HG22	1.21	1.02
1:4:513:ASN:HD22	1:4:526:THR:HG22	1.21	1.02
1:h:513:ASN:HD22	1:h:526:THR:HG22	1.20	1.01
1:r:513:ASN:HD22	1:r:526:THR:HG22	1.20	1.01
1:f:513:ASN:HD22	1:f:526:THR:HG22	1.20	1.01
1:E:513:ASN:HD22	1:E:526:THR:HG22	1.20	1.01
1:b:513:ASN:HD22	1:b:526:THR:HG22	1.21	1.00
1:i:513:ASN:HD22	1:i:526:THR:HG22	1.20	1.00
1:V:513:ASN:HD22	1:V:526:THR:HG22	1.21	1.00
1:N:513:ASN:HD22	1:N:526:THR:HG22	1.21	1.00
1:p:513:ASN:HD22	1:p:526:THR:HG22	1.21	1.00
1:w:513:ASN:HD22	1:w:526:THR:HG22	1.21	1.00
1:F:513:ASN:HD22	1:F:526:THR:HG22	1.21	1.00
1:y:513:ASN:HD22	1:y:526:THR:HG22	1.21	0.99
1:L:513:ASN:HD22	1:L:526:THR:HG22	1.21	0.98
1:z:513:ASN:HD22	1:z:526:THR:HG22	1.20	0.98
1:G:695:ASP:HA	1:W:373:ARG:HH12	1.29	0.97
1:B:373:ARG:HH12	1:C:695:ASP:HA	1.30	0.97
1:g:695:ASP:HA	1:1:373:ARG:HH12	1.30	0.97
1:2:695:ASP:HA	1:3:373:ARG:HH12	1.30	0.97
1:t:695:ASP:HA	1:6:373:ARG:HH12	1.30	0.96
1:H:695:ASP:HA	1:I:373:ARG:HH12	1.31	0.96
1:T:695:ASP:HA	1:U:373:ARG:HH12	1.30	0.96
1:Z:373:ARG:HH12	1:a:695:ASP:HA	1.31	0.96
1:m:695:ASP:HA	1:s:373:ARG:HH12	1.30	0.96
1:r:373:ARG:HH12	1:x:695:ASP:HA	1.31	0.96
1:u:373:ARG:HH12	1:5:695:ASP:HA	1.31	0.96
1:Q:695:ASP:HA	1:S:373:ARG:HH12	1.31	0.96
1:c:373:ARG:HH12	1:s:695:ASP:HA	1.31	0.96
1:3:695:ASP:HA	1:8:373:ARG:HH12	1.31	0.96
1:I:695:ASP:HA	1:J:373:ARG:HH12	1.30	0.96
1:U:695:ASP:HA	1:e:373:ARG:HH12	1.31	0.96
1:P:695:ASP:HA	1:Q:373:ARG:HH12	1.31	0.95
1:J:695:ASP:HA	1:a:373:ARG:HH12	1.31	0.95
1:j:695:ASP:HA	1:x:373:ARG:HH12	1.31	0.95
1:u:695:ASP:HA	1:2:373:ARG:HH12	1.31	0.95
1:l:373:ARG:HH12	1:n:695:ASP:HA	1.31	0.95
1:D:373:ARG:HH12	1:E:695:ASP:HA	1.30	0.95
1:K:695:ASP:HA	1:L:373:ARG:HH12	1.30	0.95
1:O:373:ARG:HH12	1:d:695:ASP:HA	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:373:ARG:HH12	1:w:695:ASP:HA	1.30	0.95
1:5:373:ARG:HH12	1:8:695:ASP:HA	1.31	0.95
1:g:373:ARG:HH12	1:k:695:ASP:HA	1.31	0.95
1:H:373:ARG:HH12	1:Z:695:ASP:HA	1.31	0.95
1:v:373:ARG:HH12	1:1:695:ASP:HA	1.31	0.95
1:z:373:ARG:HH12	1:4:695:ASP:HA	1.30	0.95
1:C:373:ARG:HH12	1:D:695:ASP:HA	1.31	0.95
1:F:373:ARG:HH12	1:R:695:ASP:HA	1.31	0.95
1:A:373:ARG:HH12	1:B:695:ASP:HA	1.31	0.94
1:q:695:ASP:HA	1:y:373:ARG:HH12	1.31	0.94
1:K:373:ARG:HH12	1:7:695:ASP:HA	1.32	0.94
1:R:373:ARG:HH12	1:V:695:ASP:HA	1.30	0.94
1:M:373:ARG:HH12	1:c:695:ASP:HA	1.31	0.94
1:Y:695:ASP:HA	1:4:373:ARG:HH12	1.32	0.94
1:e:695:ASP:HA	1:h:373:ARG:HH12	1.31	0.94
1:X:373:ARG:HH12	1:f:695:ASP:HA	1.31	0.94
1:p:695:ASP:HA	1:q:373:ARG:HH12	1.30	0.94
1:X:695:ASP:HA	1:Y:373:ARG:HH12	1.30	0.93
1:b:695:ASP:HA	1:o:373:ARG:HH12	1.31	0.93
1:o:695:ASP:HA	1:7:373:ARG:HH12	1.30	0.93
1:O:695:ASP:HA	1:P:373:ARG:HH12	1.30	0.93
1:f:373:ARG:HH12	1:z:695:ASP:HA	1.31	0.93
1:L:695:ASP:HA	1:b:373:ARG:HH12	1.31	0.93
1:j:373:ARG:HH12	1:l:695:ASP:HA	1.31	0.93
1:S:695:ASP:HA	1:d:373:ARG:HH12	1.31	0.93
1:v:695:ASP:HA	1:w:373:ARG:HH12	1.31	0.92
1:A:695:ASP:HA	1:E:373:ARG:HH12	1.31	0.92
1:h:695:ASP:HA	1:i:373:ARG:HH12	1.30	0.92
1:t:373:ARG:HH12	1:y:695:ASP:HA	1.31	0.92
1:n:373:ARG:HH12	1:r:695:ASP:HA	1.31	0.92
1:F:695:ASP:HA	1:G:373:ARG:HH12	1.32	0.92
1:M:695:ASP:HA	1:N:373:ARG:HH12	1.30	0.92
1:N:695:ASP:HA	1:m:373:ARG:HH12	1.32	0.92
1:T:373:ARG:HH12	1:i:695:ASP:HA	1.32	0.91
1:V:373:ARG:HH12	1:W:695:ASP:HA	1.31	0.91
1:p:373:ARG:HH12	1:6:695:ASP:HA	1.31	0.90
1:K:476:ASN:HB3	1:K:480:GLY:HA3	1.69	0.75
1:M:476:ASN:HB3	1:M:480:GLY:HA3	1.69	0.75
1:a:476:ASN:HB3	1:a:480:GLY:HA3	1.69	0.75
1:3:476:ASN:HB3	1:3:480:GLY:HA3	1.69	0.75
1:4:476:ASN:HB3	1:4:480:GLY:HA3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:476:ASN:HB3	1:A:480:GLY:HA3	1.69	0.75
1:F:476:ASN:HB3	1:F:480:GLY:HA3	1.69	0.75
1:h:476:ASN:HB3	1:h:480:GLY:HA3	1.69	0.75
1:Z:476:ASN:HB3	1:Z:480:GLY:HA3	1.69	0.75
1:i:476:ASN:HB3	1:i:480:GLY:HA3	1.69	0.75
1:v:476:ASN:HB3	1:v:480:GLY:HA3	1.69	0.75
1:y:476:ASN:HB3	1:y:480:GLY:HA3	1.69	0.75
1:8:476:ASN:HB3	1:8:480:GLY:HA3	1.69	0.75
1:L:476:ASN:HB3	1:L:480:GLY:HA3	1.69	0.74
1:N:476:ASN:HB3	1:N:480:GLY:HA3	1.69	0.74
1:u:476:ASN:HB3	1:u:480:GLY:HA3	1.69	0.74
1:I:476:ASN:HB3	1:I:480:GLY:HA3	1.69	0.74
1:B:476:ASN:HB3	1:B:480:GLY:HA3	1.69	0.74
1:6:476:ASN:HB3	1:6:480:GLY:HA3	1.69	0.74
1:w:476:ASN:HB3	1:w:480:GLY:HA3	1.69	0.74
1:z:476:ASN:HB3	1:z:480:GLY:HA3	1.69	0.74
1:1:476:ASN:HB3	1:1:480:GLY:HA3	1.69	0.74
1:W:476:ASN:HB3	1:W:480:GLY:HA3	1.69	0.74
1:b:476:ASN:HB3	1:b:480:GLY:HA3	1.69	0.74
1:f:476:ASN:HB3	1:f:480:GLY:HA3	1.69	0.74
1:5:476:ASN:HB3	1:5:480:GLY:HA3	1.69	0.74
1:d:476:ASN:HB3	1:d:480:GLY:HA3	1.69	0.74
1:n:476:ASN:HB3	1:n:480:GLY:HA3	1.69	0.74
1:o:476:ASN:HB3	1:o:480:GLY:HA3	1.69	0.74
1:E:476:ASN:HB3	1:E:480:GLY:HA3	1.69	0.74
1:H:476:ASN:HB3	1:H:480:GLY:HA3	1.69	0.74
1:X:476:ASN:HB3	1:X:480:GLY:HA3	1.69	0.74
1:e:476:ASN:HB3	1:e:480:GLY:HA3	1.69	0.74
1:7:476:ASN:HB3	1:7:480:GLY:HA3	1.69	0.74
1:c:476:ASN:HB3	1:c:480:GLY:HA3	1.69	0.74
1:x:476:ASN:HB3	1:x:480:GLY:HA3	1.69	0.74
1:Y:476:ASN:HB3	1:Y:480:GLY:HA3	1.69	0.73
1:Q:476:ASN:HB3	1:Q:480:GLY:HA3	1.69	0.73
1:V:476:ASN:HB3	1:V:480:GLY:HA3	1.69	0.73
1:P:476:ASN:HB3	1:P:480:GLY:HA3	1.69	0.73
1:R:476:ASN:HB3	1:R:480:GLY:HA3	1.69	0.73
1:m:476:ASN:HB3	1:m:480:GLY:HA3	1.69	0.73
1:p:476:ASN:HB3	1:p:480:GLY:HA3	1.69	0.73
1:T:476:ASN:HB3	1:T:480:GLY:HA3	1.69	0.73
1:j:476:ASN:HB3	1:j:480:GLY:HA3	1.69	0.73
1:q:476:ASN:HB3	1:q:480:GLY:HA3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:476:ASN:HB3	1:t:480:GLY:HA3	1.69	0.73
1:g:476:ASN:HB3	1:g:480:GLY:HA3	1.69	0.73
1:r:476:ASN:HB3	1:r:480:GLY:HA3	1.69	0.73
1:C:476:ASN:HB3	1:C:480:GLY:HA3	1.69	0.73
1:S:476:ASN:HB3	1:S:480:GLY:HA3	1.69	0.73
1:k:476:ASN:HB3	1:k:480:GLY:HA3	1.69	0.73
1:D:476:ASN:HB3	1:D:480:GLY:HA3	1.69	0.73
1:G:476:ASN:HB3	1:G:480:GLY:HA3	1.69	0.73
1:s:476:ASN:HB3	1:s:480:GLY:HA3	1.69	0.73
1:U:476:ASN:HB3	1:U:480:GLY:HA3	1.69	0.72
1:2:476:ASN:HB3	1:2:480:GLY:HA3	1.69	0.72
1:J:476:ASN:HB3	1:J:480:GLY:HA3	1.69	0.72
1:l:476:ASN:HB3	1:l:480:GLY:HA3	1.69	0.72
1:2:489:PHE:O	1:2:494:ARG:NH1	2.23	0.72
1:A:489:PHE:O	1:A:494:ARG:NH1	2.23	0.72
1:O:476:ASN:HB3	1:O:480:GLY:HA3	1.69	0.72
1:f:489:PHE:O	1:f:494:ARG:NH1	2.23	0.72
1:s:489:PHE:O	1:s:494:ARG:NH1	2.23	0.72
1:J:489:PHE:O	1:J:494:ARG:NH1	2.23	0.72
1:U:489:PHE:O	1:U:494:ARG:NH1	2.23	0.72
1:v:489:PHE:O	1:v:494:ARG:NH1	2.23	0.72
1:K:489:PHE:O	1:K:494:ARG:NH1	2.23	0.72
1:b:489:PHE:O	1:b:494:ARG:NH1	2.23	0.72
1:x:489:PHE:O	1:x:494:ARG:NH1	2.23	0.72
1:Q:489:PHE:O	1:Q:494:ARG:NH1	2.23	0.72
1:X:489:PHE:O	1:X:494:ARG:NH1	2.23	0.72
1:o:489:PHE:O	1:o:494:ARG:NH1	2.23	0.71
1:4:489:PHE:O	1:4:494:ARG:NH1	2.23	0.71
1:5:489:PHE:O	1:5:494:ARG:NH1	2.23	0.71
1:H:489:PHE:O	1:H:494:ARG:NH1	2.23	0.71
1:O:489:PHE:O	1:O:494:ARG:NH1	2.23	0.71
1:j:489:PHE:O	1:j:494:ARG:NH1	2.23	0.71
1:P:489:PHE:O	1:P:494:ARG:NH1	2.23	0.71
1:V:489:PHE:O	1:V:494:ARG:NH1	2.23	0.71
1:l:489:PHE:O	1:l:494:ARG:NH1	2.23	0.71
1:r:489:PHE:O	1:r:494:ARG:NH1	2.23	0.71
1:p:489:PHE:O	1:p:494:ARG:NH1	2.23	0.71
1:C:489:PHE:O	1:C:494:ARG:NH1	2.23	0.71
1:M:489:PHE:O	1:M:494:ARG:NH1	2.23	0.71
1:S:489:PHE:O	1:S:494:ARG:NH1	2.23	0.71
1:g:489:PHE:O	1:g:494:ARG:NH1	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:489:PHE:O	1:h:494:ARG:NH1	2.23	0.71
1:D:489:PHE:O	1:D:494:ARG:NH1	2.23	0.71
1:B:489:PHE:O	1:B:494:ARG:NH1	2.23	0.71
1:W:489:PHE:O	1:W:494:ARG:NH1	2.23	0.71
1:k:489:PHE:O	1:k:494:ARG:NH1	2.23	0.71
1:w:489:PHE:O	1:w:494:ARG:NH1	2.23	0.71
1:E:489:PHE:O	1:E:494:ARG:NH1	2.23	0.71
1:n:373:ARG:NH2	1:r:695:ASP:OD1	2.21	0.71
1:1:489:PHE:O	1:1:494:ARG:NH1	2.23	0.71
1:6:489:PHE:O	1:6:494:ARG:NH1	2.23	0.71
1:D:620:PRO:HD2	2:fA:997:DA:H2''	1.73	0.70
1:S:695:ASP:OD1	1:d:373:ARG:NH2	2.21	0.70
1:M:272:TYR:HB3	1:M:637:LEU:HD23	1.74	0.70
1:S:620:PRO:HD2	2:IA:997:DA:H2''	1.73	0.70
1:g:695:ASP:OD1	1:1:373:ARG:NH2	2.21	0.70
1:x:272:TYR:HB3	1:x:637:LEU:HD23	1.74	0.70
1:Q:272:TYR:HB3	1:Q:637:LEU:HD23	1.74	0.70
1:a:489:PHE:O	1:a:494:ARG:NH1	2.23	0.70
1:c:272:TYR:HB3	1:c:637:LEU:HD23	1.74	0.70
1:h:272:TYR:HB3	1:h:637:LEU:HD23	1.74	0.70
1:k:620:PRO:HD2	2:cA:997:DA:H2''	1.74	0.70
1:r:620:PRO:HD2	2:kA:997:DA:H2''	1.74	0.70
1:1:272:TYR:HB3	1:1:637:LEU:HD23	1.74	0.70
1:3:489:PHE:O	1:3:494:ARG:NH1	2.23	0.70
1:B:272:TYR:HB3	1:B:637:LEU:HD23	1.74	0.70
1:E:620:PRO:HD2	2:qA:997:DA:H2''	1.73	0.70
1:Z:272:TYR:HB3	1:Z:637:LEU:HD23	1.74	0.70
1:e:272:TYR:HB3	1:e:637:LEU:HD23	1.74	0.70
1:v:272:TYR:HB3	1:v:637:LEU:HD23	1.74	0.70
1:8:272:TYR:HB3	1:8:637:LEU:HD23	1.74	0.70
1:A:272:TYR:HB3	1:A:637:LEU:HD23	1.74	0.70
1:D:272:TYR:HB3	1:D:637:LEU:HD23	1.74	0.70
1:K:272:TYR:HB3	1:K:637:LEU:HD23	1.74	0.70
1:L:272:TYR:HB3	1:L:637:LEU:HD23	1.74	0.70
1:t:489:PHE:O	1:t:494:ARG:NH1	2.23	0.70
1:w:620:PRO:HD2	2:pA:997:DA:H2''	1.73	0.70
1:x:620:PRO:HD2	2:rA:997:DA:H2''	1.73	0.70
1:z:272:TYR:HB3	1:z:637:LEU:HD23	1.74	0.70
1:1:620:PRO:HD2	2:uA:997:DA:H2''	1.73	0.70
1:4:272:TYR:HB3	1:4:637:LEU:HD23	1.74	0.70
1:A:620:PRO:HD2	2:0:997:DA:H2''	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:373:ARG:NH2	1:C:695:ASP:OD1	2.21	0.70
1:B:620:PRO:HD2	2:JA:997:DA:H2''	1.74	0.70
1:G:489:PHE:O	1:G:494:ARG:NH1	2.23	0.70
1:Q:620:PRO:HD2	2:GA:997:DA:H2''	1.74	0.70
1:T:620:PRO:HD2	2:KA:997:DA:H2''	1.73	0.70
1:V:272:TYR:HB3	1:V:637:LEU:HD23	1.74	0.70
1:d:489:PHE:O	1:d:494:ARG:NH1	2.23	0.70
1:k:272:TYR:HB3	1:k:637:LEU:HD23	1.74	0.70
1:v:620:PRO:HD2	2:oA:997:DA:H2''	1.73	0.70
1:I:489:PHE:O	1:I:494:ARG:NH1	2.23	0.70
1:T:489:PHE:O	1:T:494:ARG:NH1	2.23	0.70
1:U:272:TYR:HB3	1:U:637:LEU:HD23	1.74	0.70
1:f:620:PRO:HD2	2:XA:997:DA:H2''	1.73	0.70
1:m:489:PHE:O	1:m:494:ARG:NH1	2.23	0.70
1:s:272:TYR:HB3	1:s:637:LEU:HD23	1.74	0.70
1:u:489:PHE:O	1:u:494:ARG:NH1	2.23	0.70
1:F:620:PRO:HD2	2:1A:997:DA:H2''	1.74	0.70
1:O:272:TYR:HB3	1:O:637:LEU:HD23	1.74	0.70
1:O:620:PRO:HD2	2:EA:997:DA:H2''	1.73	0.70
1:l:272:TYR:HB3	1:l:637:LEU:HD23	1.74	0.70
1:m:620:PRO:HD2	2:eA:997:DA:H2''	1.74	0.70
1:n:489:PHE:O	1:n:494:ARG:NH1	2.23	0.70
1:p:272:TYR:HB3	1:p:637:LEU:HD23	1.74	0.70
1:y:620:PRO:HD2	2:sA:997:DA:H2''	1.73	0.70
1:z:620:PRO:HD2	2:tA:997:DA:H2''	1.73	0.70
1:C:620:PRO:HD2	2:UA:997:DA:H2''	1.74	0.70
1:G:620:PRO:HD2	2:3A:997:DA:H2''	1.73	0.70
1:L:620:PRO:HD2	2:BA:997:DA:H2''	1.73	0.70
1:a:272:TYR:HB3	1:a:637:LEU:HD23	1.74	0.70
1:b:620:PRO:HD2	2:SA:997:DA:H2''	1.74	0.70
1:l:620:PRO:HD2	2:dA:997:DA:H2''	1.74	0.70
1:t:620:PRO:HD2	2:mA:997:DA:H2''	1.73	0.70
1:8:695:ASP:OD1	1:8:373:ARG:NH2	2.21	0.70
1:6:620:PRO:HD2	2:zA:997:DA:H2''	1.74	0.70
1:H:620:PRO:HD2	2:4A:997:DA:H2''	1.73	0.70
1:N:620:PRO:HD2	2:DA:997:DA:H2''	1.73	0.70
1:W:620:PRO:HD2	2:NA:997:DA:H2''	1.74	0.70
1:Y:620:PRO:HD2	2:PA:997:DA:H2''	1.74	0.70
1:g:620:PRO:HD2	2:YA:997:DA:H2''	1.74	0.70
1:o:272:TYR:HB3	1:o:637:LEU:HD23	1.74	0.70
1:u:620:PRO:HD2	2:nA:997:DA:H2''	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:272:TYR:HB3	1:3:637:LEU:HD23	1.74	0.70
1:5:620:PRO:HD2	2:yA:997:DA:H2"	1.74	0.70
1:7:620:PRO:HD2	2:0A:997:DA:H2"	1.74	0.70
1:I:620:PRO:HD2	2:5A:997:DA:H2"	1.73	0.69
1:P:272:TYR:HB3	1:P:637:LEU:HD23	1.74	0.69
1:X:272:TYR:HB3	1:X:637:LEU:HD23	1.74	0.69
1:Z:489:PHE:O	1:Z:494:ARG:NH1	2.23	0.69
1:c:489:PHE:O	1:c:494:ARG:NH1	2.23	0.69
1:e:489:PHE:O	1:e:494:ARG:NH1	2.23	0.69
1:j:272:TYR:HB3	1:j:637:LEU:HD23	1.74	0.69
1:7:489:PHE:O	1:7:494:ARG:NH1	2.23	0.69
1:Y:489:PHE:O	1:Y:494:ARG:NH1	2.23	0.69
1:f:272:TYR:HB3	1:f:637:LEU:HD23	1.74	0.69
1:i:620:PRO:HD2	2:aA:997:DA:H2"	1.74	0.69
1:I:272:TYR:HB3	1:I:637:LEU:HD23	1.74	0.69
1:b:272:TYR:HB3	1:b:637:LEU:HD23	1.74	0.69
1:h:304:VAL:HB	1:h:636:MET:HE1	1.75	0.69
1:i:304:VAL:HB	1:i:636:MET:HE1	1.75	0.69
1:t:272:TYR:HB3	1:t:637:LEU:HD23	1.74	0.69
1:u:272:TYR:HB3	1:u:637:LEU:HD23	1.74	0.69
1:u:304:VAL:HB	1:u:636:MET:HE1	1.75	0.69
1:6:304:VAL:HB	1:6:636:MET:HE1	1.74	0.69
1:8:489:PHE:O	1:8:494:ARG:NH1	2.23	0.69
1:J:304:VAL:HB	1:J:636:MET:HE1	1.75	0.69
1:M:304:VAL:HB	1:M:636:MET:HE1	1.75	0.69
1:W:304:VAL:HB	1:W:636:MET:HE1	1.75	0.69
1:Z:304:VAL:HB	1:Z:636:MET:HE1	1.75	0.69
1:e:304:VAL:HB	1:e:636:MET:HE1	1.75	0.69
1:g:304:VAL:HB	1:g:636:MET:HE1	1.75	0.69
1:2:304:VAL:HB	1:2:636:MET:HE1	1.75	0.69
1:C:304:VAL:HB	1:C:636:MET:HE1	1.75	0.69
1:G:272:TYR:HB3	1:G:637:LEU:HD23	1.74	0.69
1:H:272:TYR:HB3	1:H:637:LEU:HD23	1.74	0.69
1:I:304:VAL:HB	1:I:636:MET:HE1	1.75	0.69
1:N:304:VAL:HB	1:N:636:MET:HE1	1.75	0.69
1:R:272:TYR:HB3	1:R:637:LEU:HD23	1.74	0.69
1:Z:373:ARG:NH2	1:a:695:ASP:OD1	2.21	0.69
1:e:620:PRO:HD2	2:WA:997:DA:H2"	1.73	0.69
1:q:272:TYR:HB3	1:q:637:LEU:HD23	1.74	0.69
1:r:272:TYR:HB3	1:r:637:LEU:HD23	1.74	0.69
1:5:272:TYR:HB3	1:5:637:LEU:HD23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:304:VAL:HB	1:F:636:MET:HE1	1.75	0.69
1:U:304:VAL:HB	1:U:636:MET:HE1	1.75	0.69
1:Z:620:PRO:HD2	2:QA:997:DA:H2''	1.73	0.69
1:c:304:VAL:HB	1:c:636:MET:HE1	1.75	0.69
1:c:620:PRO:HD2	2:TA:997:DA:H2''	1.74	0.69
1:y:489:PHE:O	1:y:494:ARG:NH1	2.23	0.69
1:5:304:VAL:HB	1:5:636:MET:HE1	1.75	0.69
1:8:304:VAL:HB	1:8:636:MET:HE1	1.75	0.69
1:8:620:PRO:HD2	2:2A:997:DA:H2''	1.73	0.69
1:F:272:TYR:HB3	1:F:637:LEU:HD23	1.74	0.69
1:F:489:PHE:O	1:F:494:ARG:NH1	2.23	0.69
1:R:489:PHE:O	1:R:494:ARG:NH1	2.23	0.69
1:S:272:TYR:HB3	1:S:637:LEU:HD23	1.74	0.69
1:T:272:TYR:HB3	1:T:637:LEU:HD23	1.74	0.69
1:k:304:VAL:HB	1:k:636:MET:HE1	1.75	0.69
1:s:304:VAL:HB	1:s:636:MET:HE1	1.75	0.69
1:y:304:VAL:HB	1:y:636:MET:HE1	1.75	0.69
1:C:272:TYR:HB3	1:C:637:LEU:HD23	1.74	0.69
1:D:304:VAL:HB	1:D:636:MET:HE1	1.75	0.69
1:G:695:ASP:OD1	1:W:373:ARG:NH2	2.19	0.69
1:H:304:VAL:HB	1:H:636:MET:HE1	1.75	0.69
1:J:620:PRO:HD2	2:9:997:DA:H2''	1.73	0.69
1:N:489:PHE:O	1:N:494:ARG:NH1	2.23	0.69
1:P:304:VAL:HB	1:P:636:MET:HE1	1.75	0.69
1:U:620:PRO:HD2	2:LA:997:DA:H2''	1.73	0.69
1:X:620:PRO:HD2	2:OA:997:DA:H2''	1.73	0.69
1:i:489:PHE:O	1:i:494:ARG:NH1	2.23	0.69
1:j:304:VAL:HB	1:j:636:MET:HE1	1.75	0.69
1:m:272:TYR:HB3	1:m:637:LEU:HD23	1.74	0.69
1:o:620:PRO:HD2	2:hA:997:DA:H2''	1.73	0.69
1:q:489:PHE:O	1:q:494:ARG:NH1	2.23	0.69
1:s:620:PRO:HD2	2:lA:997:DA:H2''	1.73	0.69
1:y:272:TYR:HB3	1:y:637:LEU:HD23	1.74	0.69
1:2:620:PRO:HD2	2:vA:997:DA:H2''	1.74	0.69
1:g:272:TYR:HB3	1:g:637:LEU:HD23	1.74	0.69
1:m:695:ASP:OD1	1:s:373:ARG:NH2	2.20	0.69
1:n:304:VAL:HB	1:n:636:MET:HE1	1.75	0.69
1:z:304:VAL:HB	1:z:636:MET:HE1	1.75	0.69
1:3:513:ASN:ND2	1:3:526:THR:HG22	2.04	0.69
1:A:304:VAL:HB	1:A:636:MET:HE1	1.75	0.69
1:P:620:PRO:HD2	2:FA:997:DA:H2''	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:304:VAL:HB	1:T:636:MET:HE1	1.75	0.69
1:a:620:PRO:HD2	2:RA:997:DA:H2''	1.73	0.69
1:d:304:VAL:HB	1:d:636:MET:HE1	1.75	0.69
1:j:620:PRO:HD2	2:bA:997:DA:H2''	1.74	0.69
1:m:304:VAL:HB	1:m:636:MET:HE1	1.75	0.69
1:p:304:VAL:HB	1:p:636:MET:HE1	1.75	0.69
1:z:489:PHE:O	1:z:494:ARG:NH1	2.23	0.69
1:3:620:PRO:HD2	2:wA:997:DA:H2''	1.73	0.69
1:A:513:ASN:ND2	1:A:526:THR:HG22	2.04	0.68
1:E:304:VAL:HB	1:E:636:MET:HE1	1.75	0.68
1:K:620:PRO:HD2	2:AA:997:DA:H2''	1.73	0.68
1:L:304:VAL:HB	1:L:636:MET:HE1	1.75	0.68
1:V:304:VAL:HB	1:V:636:MET:HE1	1.75	0.68
1:p:620:PRO:HD2	2:iA:997:DA:H2''	1.74	0.68
1:v:304:VAL:HB	1:v:636:MET:HE1	1.75	0.68
1:R:304:VAL:HB	1:R:636:MET:HE1	1.75	0.68
1:T:695:ASP:OD1	1:U:373:ARG:NH2	2.20	0.68
1:X:304:VAL:HB	1:X:636:MET:HE1	1.75	0.68
1:Y:272:TYR:HB3	1:Y:637:LEU:HD23	1.74	0.68
1:d:272:TYR:HB3	1:d:637:LEU:HD23	1.74	0.68
1:v:513:ASN:ND2	1:v:526:THR:HG22	2.04	0.68
1:w:304:VAL:HB	1:w:636:MET:HE1	1.75	0.68
1:I:228:ARG:HH12	1:I:300:ARG:HG3	1.59	0.68
1:K:228:ARG:HH12	1:K:300:ARG:HG3	1.59	0.68
1:L:489:PHE:O	1:L:494:ARG:NH1	2.23	0.68
1:V:620:PRO:HD2	2:MA:997:DA:H2''	1.74	0.68
1:a:513:ASN:ND2	1:a:526:THR:HG22	2.04	0.68
1:h:620:PRO:HD2	2:ZA:997:DA:H2''	1.73	0.68
1:r:373:ARG:NH2	1:x:695:ASP:OD1	2.21	0.68
1:v:695:ASP:OD1	1:w:373:ARG:NH2	2.21	0.68
1:4:620:PRO:HD2	2:xA:997:DA:H2''	1.74	0.68
1:7:272:TYR:HB3	1:7:637:LEU:HD23	1.74	0.68
1:Q:695:ASP:OD1	1:S:373:ARG:NH2	2.21	0.68
1:W:272:TYR:HB3	1:W:637:LEU:HD23	1.74	0.68
1:h:228:ARG:HH12	1:h:300:ARG:HG3	1.59	0.68
1:n:272:TYR:HB3	1:n:637:LEU:HD23	1.74	0.68
1:o:304:VAL:HB	1:o:636:MET:HE1	1.75	0.68
1:q:304:VAL:HB	1:q:636:MET:HE1	1.75	0.68
1:u:228:ARG:HH12	1:u:300:ARG:HG3	1.59	0.68
1:2:228:ARG:HH12	1:2:300:ARG:HG3	1.59	0.68
1:6:272:TYR:HB3	1:6:637:LEU:HD23	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:695:ASP:OD1	1:E:373:ARG:NH2	2.21	0.68
1:J:228:ARG:HH12	1:J:300:ARG:HG3	1.59	0.68
1:M:228:ARG:HH12	1:M:300:ARG:HG3	1.59	0.68
1:N:272:TYR:HB3	1:N:637:LEU:HD23	1.74	0.68
1:R:620:PRO:HD2	2:HA:997:DA:H2''	1.73	0.68
1:Y:304:VAL:HB	1:Y:636:MET:HE1	1.75	0.68
1:j:373:ARG:NH2	1:l:695:ASP:OD1	2.21	0.68
1:1:513:ASN:ND2	1:1:526:THR:HG22	2.04	0.68
1:4:228:ARG:HH12	1:4:300:ARG:HG3	1.59	0.68
1:7:304:VAL:HB	1:7:636:MET:HE1	1.75	0.68
1:B:513:ASN:ND2	1:B:526:THR:HG22	2.04	0.68
1:E:228:ARG:HH12	1:E:300:ARG:HG3	1.59	0.68
1:M:620:PRO:HD2	2:CA:997:DA:H2''	1.74	0.68
1:b:228:ARG:HH12	1:b:300:ARG:HG3	1.59	0.68
1:f:228:ARG:HH12	1:f:300:ARG:HG3	1.59	0.68
1:i:272:TYR:HB3	1:i:637:LEU:HD23	1.74	0.68
1:p:228:ARG:HH12	1:p:300:ARG:HG3	1.59	0.68
1:A:228:ARG:HH12	1:A:300:ARG:HG3	1.59	0.68
1:O:695:ASP:OD1	1:P:373:ARG:NH2	2.21	0.68
1:V:228:ARG:HH12	1:V:300:ARG:HG3	1.59	0.68
1:v:228:ARG:HH12	1:v:300:ARG:HG3	1.59	0.68
1:w:272:TYR:HB3	1:w:637:LEU:HD23	1.74	0.68
1:F:228:ARG:HH12	1:F:300:ARG:HG3	1.59	0.68
1:G:304:VAL:HB	1:G:636:MET:HE1	1.75	0.68
1:P:228:ARG:HH12	1:P:300:ARG:HG3	1.59	0.68
1:Z:228:ARG:HH12	1:Z:300:ARG:HG3	1.59	0.68
1:a:304:VAL:HB	1:a:636:MET:HE1	1.75	0.68
1:i:513:ASN:ND2	1:i:526:THR:HG22	2.04	0.68
1:q:620:PRO:HD2	2:jA:997:DA:H2''	1.74	0.68
1:w:228:ARG:HH12	1:w:300:ARG:HG3	1.59	0.68
1:E:272:TYR:HB3	1:E:637:LEU:HD23	1.74	0.68
1:j:228:ARG:HH12	1:j:300:ARG:HG3	1.59	0.68
1:n:620:PRO:HD2	2:gA:997:DA:H2''	1.73	0.68
1:r:304:VAL:HB	1:r:636:MET:HE1	1.75	0.68
1:t:304:VAL:HB	1:t:636:MET:HE1	1.75	0.68
1:x:304:VAL:HB	1:x:636:MET:HE1	1.75	0.68
1:y:228:ARG:HH12	1:y:300:ARG:HG3	1.59	0.68
1:3:304:VAL:HB	1:3:636:MET:HE1	1.75	0.68
1:8:228:ARG:HH12	1:8:300:ARG:HG3	1.59	0.68
1:Q:304:VAL:HB	1:Q:636:MET:HE1	1.75	0.68
1:S:228:ARG:HH12	1:S:300:ARG:HG3	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:304:VAL:HB	1:b:636:MET:HE1	1.75	0.68
1:r:228:ARG:HH12	1:r:300:ARG:HG3	1.59	0.68
1:E:513:ASN:ND2	1:E:526:THR:HG22	2.04	0.67
1:J:272:TYR:HB3	1:J:637:LEU:HD23	1.74	0.67
1:O:304:VAL:HB	1:O:636:MET:HE1	1.75	0.67
1:R:228:ARG:HH12	1:R:300:ARG:HG3	1.59	0.67
1:X:558:VAL:HG11	1:X:597:MET:HG3	1.77	0.67
1:d:620:PRO:HD2	2:VA:997:DA:H2"	1.73	0.67
1:l:228:ARG:HH12	1:l:300:ARG:HG3	1.59	0.67
1:q:228:ARG:HH12	1:q:300:ARG:HG3	1.59	0.67
1:3:228:ARG:HH12	1:3:300:ARG:HG3	1.59	0.67
1:K:558:VAL:HG11	1:K:597:MET:HG3	1.77	0.67
1:S:304:VAL:HB	1:S:636:MET:HE1	1.75	0.67
1:W:228:ARG:HH12	1:W:300:ARG:HG3	1.59	0.67
1:Y:558:VAL:HG11	1:Y:597:MET:HG3	1.77	0.67
1:e:228:ARG:HH12	1:e:300:ARG:HG3	1.59	0.67
1:f:304:VAL:HB	1:f:636:MET:HE1	1.75	0.67
1:l:304:VAL:HB	1:l:636:MET:HE1	1.75	0.67
1:o:558:VAL:HG11	1:o:597:MET:HG3	1.77	0.67
1:r:558:VAL:HG11	1:r:597:MET:HG3	1.77	0.67
1:4:558:VAL:HG11	1:4:597:MET:HG3	1.77	0.67
1:6:228:ARG:HH12	1:6:300:ARG:HG3	1.59	0.67
1:7:558:VAL:HG11	1:7:597:MET:HG3	1.77	0.67
1:F:558:VAL:HG11	1:F:597:MET:HG3	1.76	0.67
1:O:228:ARG:HH12	1:O:300:ARG:HG3	1.59	0.67
1:Q:228:ARG:HH12	1:Q:300:ARG:HG3	1.59	0.67
1:R:558:VAL:HG11	1:R:597:MET:HG3	1.76	0.67
1:S:558:VAL:HG11	1:S:597:MET:HG3	1.77	0.67
1:Z:558:VAL:HG11	1:Z:597:MET:HG3	1.77	0.67
1:a:228:ARG:HH12	1:a:300:ARG:HG3	1.59	0.67
1:c:228:ARG:HH12	1:c:300:ARG:HG3	1.59	0.67
1:c:558:VAL:HG11	1:c:597:MET:HG3	1.76	0.67
1:m:558:VAL:HG11	1:m:597:MET:HG3	1.77	0.67
1:t:373:ARG:NH2	1:y:695:ASP:OD1	2.21	0.67
1:2:272:TYR:HB3	1:2:637:LEU:HD23	1.74	0.67
1:d:558:VAL:HG11	1:d:597:MET:HG3	1.77	0.67
1:f:558:VAL:HG11	1:f:597:MET:HG3	1.77	0.67
1:y:558:VAL:HG11	1:y:597:MET:HG3	1.76	0.67
1:8:558:VAL:HG11	1:8:597:MET:HG3	1.77	0.67
1:T:558:VAL:HG11	1:T:597:MET:HG3	1.77	0.67
1:U:228:ARG:HH12	1:U:300:ARG:HG3	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:558:VAL:HG11	1:b:597:MET:HG3	1.76	0.67
1:e:558:VAL:HG11	1:e:597:MET:HG3	1.77	0.67
1:s:228:ARG:HH12	1:s:300:ARG:HG3	1.59	0.67
1:w:513:ASN:ND2	1:w:526:THR:HG22	2.04	0.67
1:x:228:ARG:HH12	1:x:300:ARG:HG3	1.59	0.67
1:B:304:VAL:HB	1:B:636:MET:HE1	1.75	0.67
1:T:228:ARG:HH12	1:T:300:ARG:HG3	1.59	0.67
1:a:558:VAL:HG11	1:a:597:MET:HG3	1.76	0.67
1:g:558:VAL:HG11	1:g:597:MET:HG3	1.77	0.67
1:l:373:ARG:NH2	1:n:695:ASP:OD1	2.21	0.67
1:n:558:VAL:HG11	1:n:597:MET:HG3	1.77	0.67
1:q:558:VAL:HG11	1:q:597:MET:HG3	1.77	0.67
1:3:558:VAL:HG11	1:3:597:MET:HG3	1.76	0.67
1:5:228:ARG:HH12	1:5:300:ARG:HG3	1.59	0.67
1:C:558:VAL:HG11	1:C:597:MET:HG3	1.77	0.67
1:K:695:ASP:OD1	1:L:373:ARG:NH2	2.20	0.67
1:L:558:VAL:HG11	1:L:597:MET:HG3	1.77	0.67
1:1:304:VAL:HB	1:1:636:MET:HE1	1.75	0.67
1:B:228:ARG:HH12	1:B:300:ARG:HG3	1.59	0.67
1:H:228:ARG:HH12	1:H:300:ARG:HG3	1.59	0.67
1:N:228:ARG:HH12	1:N:300:ARG:HG3	1.59	0.67
1:N:558:VAL:HG11	1:N:597:MET:HG3	1.76	0.67
1:Y:228:ARG:HH12	1:Y:300:ARG:HG3	1.59	0.67
1:i:228:ARG:HH12	1:i:300:ARG:HG3	1.59	0.67
1:i:558:VAL:HG11	1:i:597:MET:HG3	1.77	0.67
1:z:373:ARG:NH2	1:4:695:ASP:OD1	2.20	0.67
1:1:228:ARG:HH12	1:1:300:ARG:HG3	1.59	0.67
1:B:558:VAL:HG11	1:B:597:MET:HG3	1.77	0.67
1:M:558:VAL:HG11	1:M:597:MET:HG3	1.76	0.67
1:O:373:ARG:NH2	1:d:695:ASP:OD1	2.21	0.67
1:k:373:ARG:NH2	1:w:695:ASP:OD1	2.21	0.67
1:m:228:ARG:HH12	1:m:300:ARG:HG3	1.59	0.67
1:z:558:VAL:HG11	1:z:597:MET:HG3	1.77	0.67
1:1:558:VAL:HG11	1:1:597:MET:HG3	1.77	0.67
1:5:558:VAL:HG11	1:5:597:MET:HG3	1.77	0.67
1:C:228:ARG:HH12	1:C:300:ARG:HG3	1.59	0.67
1:F:695:ASP:OD1	1:G:373:ARG:NH2	2.22	0.67
1:H:558:VAL:HG11	1:H:597:MET:HG3	1.77	0.67
1:O:558:VAL:HG11	1:O:597:MET:HG3	1.77	0.67
1:z:228:ARG:HH12	1:z:300:ARG:HG3	1.59	0.67
1:L:228:ARG:HH12	1:L:300:ARG:HG3	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:513:ASN:ND2	1:M:526:THR:HG22	2.04	0.66
1:h:558:VAL:HG11	1:h:597:MET:HG3	1.77	0.66
1:h:695:ASP:OD1	1:i:373:ARG:NH2	2.21	0.66
1:l:558:VAL:HG11	1:l:597:MET:HG3	1.77	0.66
1:x:558:VAL:HG11	1:x:597:MET:HG3	1.76	0.66
1:4:304:VAL:HB	1:4:636:MET:HE1	1.75	0.66
1:7:228:ARG:HH12	1:7:300:ARG:HG3	1.59	0.66
1:X:373:ARG:NH2	1:f:695:ASP:OD1	2.21	0.66
1:j:558:VAL:HG11	1:j:597:MET:HG3	1.77	0.66
1:l:513:ASN:ND2	1:l:526:THR:HG22	2.04	0.66
1:u:558:VAL:HG11	1:u:597:MET:HG3	1.76	0.66
1:D:513:ASN:ND2	1:D:526:THR:HG22	2.04	0.66
1:M:695:ASP:OD1	1:N:373:ARG:NH2	2.21	0.66
1:P:558:VAL:HG11	1:P:597:MET:HG3	1.77	0.66
1:Q:558:VAL:HG11	1:Q:597:MET:HG3	1.77	0.66
1:X:228:ARG:HH12	1:X:300:ARG:HG3	1.59	0.66
1:b:695:ASP:OD1	1:o:373:ARG:NH2	2.21	0.66
1:g:228:ARG:HH12	1:g:300:ARG:HG3	1.59	0.66
1:h:513:ASN:ND2	1:h:526:THR:HG22	2.04	0.66
1:k:513:ASN:ND2	1:k:526:THR:HG22	2.04	0.66
1:n:228:ARG:HH12	1:n:300:ARG:HG3	1.59	0.66
1:o:228:ARG:HH12	1:o:300:ARG:HG3	1.59	0.66
1:t:228:ARG:HH12	1:t:300:ARG:HG3	1.59	0.66
1:D:373:ARG:NH2	1:E:695:ASP:OD1	2.21	0.66
1:G:228:ARG:HH12	1:G:300:ARG:HG3	1.59	0.66
1:I:558:VAL:HG11	1:I:597:MET:HG3	1.77	0.66
1:K:304:VAL:HB	1:K:636:MET:HE1	1.75	0.66
1:O:513:ASN:ND2	1:O:526:THR:HG22	2.04	0.66
1:T:513:ASN:ND2	1:T:526:THR:HG22	2.04	0.66
1:g:373:ARG:NH2	1:k:695:ASP:OD1	2.22	0.66
1:m:513:ASN:ND2	1:m:526:THR:HG22	2.04	0.66
1:N:695:ASP:OD1	1:m:373:ARG:NH2	2.22	0.66
1:p:695:ASP:OD1	1:q:373:ARG:NH2	2.21	0.66
1:D:228:ARG:HH12	1:D:300:ARG:HG3	1.59	0.66
1:H:373:ARG:NH2	1:Z:695:ASP:OD1	2.21	0.66
1:d:228:ARG:HH12	1:d:300:ARG:HG3	1.59	0.66
1:k:228:ARG:HH12	1:k:300:ARG:HG3	1.59	0.66
1:Q:513:ASN:ND2	1:Q:526:THR:HG22	2.04	0.66
1:C:373:ARG:NH2	1:D:695:ASP:OD1	2.22	0.66
1:s:558:VAL:HG11	1:s:597:MET:HG3	1.77	0.66
1:R:373:ARG:NH2	1:V:695:ASP:OD1	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:373:ARG:NH2	1:i:695:ASP:OD1	2.22	0.66
1:x:513:ASN:ND2	1:x:526:THR:HG22	2.04	0.66
1:U:558:VAL:HG11	1:U:597:MET:HG3	1.77	0.65
1:j:695:ASP:OD1	1:x:373:ARG:NH2	2.21	0.65
1:6:558:VAL:HG11	1:6:597:MET:HG3	1.77	0.65
1:W:558:VAL:HG11	1:W:597:MET:HG3	1.77	0.65
1:J:558:VAL:HG11	1:J:597:MET:HG3	1.77	0.65
1:v:558:VAL:HG11	1:v:597:MET:HG3	1.76	0.65
1:2:558:VAL:HG11	1:2:597:MET:HG3	1.77	0.65
1:A:558:VAL:HG11	1:A:597:MET:HG3	1.77	0.65
1:D:373:ARG:NH1	1:E:695:ASP:HA	2.10	0.65
1:R:513:ASN:ND2	1:R:526:THR:HG22	2.04	0.65
1:z:373:ARG:NH1	1:4:695:ASP:HA	2.09	0.65
1:P:695:ASP:OD1	1:Q:373:ARG:NH2	2.21	0.65
1:k:373:ARG:NH1	1:w:695:ASP:HA	2.09	0.65
1:q:513:ASN:ND2	1:q:526:THR:HG22	2.04	0.65
1:D:558:VAL:HG11	1:D:597:MET:HG3	1.76	0.65
1:E:558:VAL:HG11	1:E:597:MET:HG3	1.76	0.65
1:G:513:ASN:ND2	1:G:526:THR:HG22	2.04	0.65
1:k:558:VAL:HG11	1:k:597:MET:HG3	1.76	0.65
1:p:558:VAL:HG11	1:p:597:MET:HG3	1.77	0.65
1:2:695:ASP:OD1	1:3:373:ARG:NH2	2.20	0.65
1:V:558:VAL:HG11	1:V:597:MET:HG3	1.77	0.65
1:p:373:ARG:NH2	1:6:695:ASP:OD1	2.22	0.65
1:G:558:VAL:HG11	1:G:597:MET:HG3	1.76	0.65
1:K:695:ASP:HA	1:L:373:ARG:NH1	2.09	0.65
1:V:373:ARG:NH2	1:W:695:ASP:OD1	2.22	0.65
1:p:513:ASN:ND2	1:p:526:THR:HG22	2.04	0.65
1:t:558:VAL:HG11	1:t:597:MET:HG3	1.76	0.65
1:t:513:ASN:ND2	1:t:526:THR:HG22	2.04	0.65
1:w:558:VAL:HG11	1:w:597:MET:HG3	1.77	0.65
1:b:695:ASP:HA	1:o:373:ARG:NH1	2.10	0.65
1:V:513:ASN:ND2	1:V:526:THR:HG22	2.04	0.64
1:t:373:ARG:NH1	1:y:695:ASP:HA	2.10	0.64
1:v:373:ARG:NH1	1:1:695:ASP:HA	2.10	0.64
1:v:420:SER:HB2	1:v:721:THR:HG22	1.79	0.64
1:A:420:SER:HB2	1:A:721:THR:HG22	1.79	0.64
1:H:420:SER:HB2	1:H:721:THR:HG22	1.80	0.64
1:J:695:ASP:OD1	1:a:373:ARG:NH2	2.21	0.64
1:X:373:ARG:NH1	1:f:695:ASP:HA	2.10	0.64
1:Y:513:ASN:ND2	1:Y:526:THR:HG22	2.04	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:420:SER:HB2	1:5:721:THR:HG22	1.80	0.64
1:M:420:SER:HB2	1:M:721:THR:HG22	1.80	0.64
1:g:695:ASP:HA	1:1:373:ARG:NH1	2.10	0.64
1:8:513:ASN:ND2	1:8:526:THR:HG22	2.04	0.64
1:A:373:ARG:NH1	1:B:695:ASP:HA	2.10	0.64
1:B:373:ARG:NH1	1:C:695:ASP:HA	2.10	0.64
1:K:373:ARG:NH1	1:7:695:ASP:HA	2.11	0.64
1:P:420:SER:HB2	1:P:721:THR:HG22	1.79	0.64
1:Z:420:SER:HB2	1:Z:721:THR:HG22	1.79	0.64
2:PA:996:DA:H4'	2:PA:997:DA:H5'	1.80	0.64
2:iA:996:DA:H4'	2:iA:997:DA:H5'	1.80	0.64
1:F:420:SER:HB2	1:F:721:THR:HG22	1.79	0.64
1:h:420:SER:HB2	1:h:721:THR:HG22	1.80	0.64
1:j:420:SER:HB2	1:j:721:THR:HG22	1.80	0.64
1:y:420:SER:HB2	1:y:721:THR:HG22	1.79	0.64
2:MA:996:DA:H4'	2:MA:997:DA:H5'	1.80	0.64
2:QA:996:DA:H4'	2:QA:997:DA:H5'	1.80	0.64
2:wA:996:DA:H4'	2:wA:997:DA:H5'	1.80	0.64
2:0A:996:DA:H4'	2:0A:997:DA:H5'	1.80	0.64
2:2A:996:DA:H4'	2:2A:997:DA:H5'	1.80	0.64
1:R:420:SER:HB2	1:R:721:THR:HG22	1.80	0.64
1:V:420:SER:HB2	1:V:721:THR:HG22	1.80	0.64
1:Z:513:ASN:ND2	1:Z:526:THR:HG22	2.04	0.64
1:u:420:SER:HB2	1:u:721:THR:HG22	1.80	0.64
1:4:420:SER:HB2	1:4:721:THR:HG22	1.80	0.64
1:8:420:SER:HB2	1:8:721:THR:HG22	1.80	0.64
1:F:513:ASN:ND2	1:F:526:THR:HG22	2.04	0.64
1:I:420:SER:HB2	1:I:721:THR:HG22	1.80	0.64
1:K:420:SER:HB2	1:K:721:THR:HG22	1.80	0.64
1:L:513:ASN:ND2	1:L:526:THR:HG22	2.04	0.64
1:Y:695:ASP:HA	1:4:373:ARG:NH1	2.11	0.64
1:f:373:ARG:NH1	1:z:695:ASP:HA	2.10	0.64
1:o:420:SER:HB2	1:o:721:THR:HG22	1.80	0.64
1:p:420:SER:HB2	1:p:721:THR:HG22	1.80	0.64
1:q:420:SER:HB2	1:q:721:THR:HG22	1.80	0.64
1:7:513:ASN:ND2	1:7:526:THR:HG22	2.04	0.64
2:9:996:DA:H4'	2:9:997:DA:H5'	1.80	0.64
2:OA:996:DA:H4'	2:OA:997:DA:H5'	1.80	0.64
2:RA:996:DA:H4'	2:RA:997:DA:H5'	1.80	0.64
2:YA:996:DA:H4'	2:YA:997:DA:H5'	1.80	0.64
2:dA:996:DA:H4'	2:dA:997:DA:H5'	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hA:996:DA:H4'	2:hA:997:DA:H5'	1.80	0.64
1:Q:420:SER:HB2	1:Q:721:THR:HG22	1.80	0.64
1:X:420:SER:HB2	1:X:721:THR:HG22	1.80	0.64
1:x:420:SER:HB2	1:x:721:THR:HG22	1.80	0.64
1:y:513:ASN:ND2	1:y:526:THR:HG22	2.04	0.64
1:z:513:ASN:ND2	1:z:526:THR:HG22	2.04	0.64
1:1:420:SER:HB2	1:1:721:THR:HG22	1.80	0.64
2:UA:996:DA:H4'	2:UA:997:DA:H5'	1.80	0.64
2:CA:996:DA:H4'	2:CA:997:DA:H5'	1.80	0.64
2:HA:996:DA:H4'	2:HA:997:DA:H5'	1.80	0.64
2:jA:996:DA:H4'	2:jA:997:DA:H5'	1.80	0.64
1:B:420:SER:HB2	1:B:721:THR:HG22	1.80	0.64
1:E:420:SER:HB2	1:E:721:THR:HG22	1.80	0.64
1:b:513:ASN:ND2	1:b:526:THR:HG22	2.04	0.64
1:w:420:SER:HB2	1:w:721:THR:HG22	1.80	0.64
2:fA:996:DA:H4'	2:fA:997:DA:H5'	1.80	0.64
2:EA:996:DA:H4'	2:EA:997:DA:H5'	1.80	0.64
2:SA:996:DA:H4'	2:SA:997:DA:H5'	1.80	0.64
2:WA:996:DA:H4'	2:WA:997:DA:H5'	1.80	0.64
2:XA:996:DA:H4'	2:XA:997:DA:H5'	1.80	0.64
2:vA:996:DA:H4'	2:vA:997:DA:H5'	1.80	0.64
1:E:475:TRP:HB2	1:E:523:LEU:HD23	1.80	0.64
1:L:695:ASP:HA	1:b:373:ARG:NH1	2.10	0.64
1:Y:420:SER:HB2	1:Y:721:THR:HG22	1.80	0.64
1:2:420:SER:HB2	1:2:721:THR:HG22	1.79	0.64
2:TA:996:DA:H4'	2:TA:997:DA:H5'	1.80	0.64
2:cA:996:DA:H4'	2:cA:997:DA:H5'	1.80	0.64
1:F:695:ASP:HA	1:G:373:ARG:NH1	2.11	0.63
1:J:420:SER:HB2	1:J:721:THR:HG22	1.80	0.63
1:J:513:ASN:ND2	1:J:526:THR:HG22	2.04	0.63
1:Q:695:ASP:HA	1:S:373:ARG:NH1	2.10	0.63
1:Z:475:TRP:HB2	1:Z:523:LEU:HD23	1.81	0.63
1:b:475:TRP:HB2	1:b:523:LEU:HD23	1.80	0.63
1:f:513:ASN:ND2	1:f:526:THR:HG22	2.04	0.63
1:r:373:ARG:NH1	1:x:695:ASP:HA	2.10	0.63
1:w:475:TRP:HB2	1:w:523:LEU:HD23	1.80	0.63
1:7:420:SER:HB2	1:7:721:THR:HG22	1.80	0.63
1:N:475:TRP:HB2	1:N:523:LEU:HD23	1.81	0.63
1:Q:423:LEU:HD12	1:Q:558:VAL:HG23	1.81	0.63
1:V:373:ARG:NH1	1:W:695:ASP:HA	2.10	0.63
1:a:420:SER:HB2	1:a:721:THR:HG22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:420:SER:HB2	1:d:721:THR:HG22	1.79	0.63
1:f:475:TRP:HB2	1:f:523:LEU:HD23	1.80	0.63
1:g:513:ASN:ND2	1:g:526:THR:HG22	2.04	0.63
1:i:420:SER:HB2	1:i:721:THR:HG22	1.80	0.63
1:i:475:TRP:HB2	1:i:523:LEU:HD23	1.81	0.63
1:p:373:ARG:NH1	1:6:695:ASP:HA	2.10	0.63
1:u:695:ASP:HA	1:2:373:ARG:NH1	2.10	0.63
1:z:475:TRP:HB2	1:z:523:LEU:HD23	1.81	0.63
1:8:475:TRP:HB2	1:8:523:LEU:HD23	1.81	0.63
2:ZA:996:DA:H4'	2:ZA:997:DA:H5'	1.80	0.63
1:G:475:TRP:HB2	1:G:523:LEU:HD23	1.80	0.63
1:H:423:LEU:HD12	1:H:558:VAL:HG23	1.81	0.63
1:H:475:TRP:HB2	1:H:523:LEU:HD23	1.81	0.63
1:L:475:TRP:HB2	1:L:523:LEU:HD23	1.81	0.63
1:N:420:SER:HB2	1:N:721:THR:HG22	1.80	0.63
1:n:420:SER:HB2	1:n:721:THR:HG22	1.79	0.63
1:t:420:SER:HB2	1:t:721:THR:HG22	1.80	0.63
1:t:475:TRP:HB2	1:t:523:LEU:HD23	1.81	0.63
1:x:423:LEU:HD12	1:x:558:VAL:HG23	1.81	0.63
1:3:420:SER:HB2	1:3:721:THR:HG22	1.80	0.63
1:5:423:LEU:HD12	1:5:558:VAL:HG23	1.81	0.63
2:bA:996:DA:H4'	2:bA:997:DA:H5'	1.80	0.63
1:I:695:ASP:HA	1:J:373:ARG:NH1	2.10	0.63
1:e:420:SER:HB2	1:e:721:THR:HG22	1.79	0.63
1:t:423:LEU:HD12	1:t:558:VAL:HG23	1.81	0.63
1:2:513:ASN:ND2	1:2:526:THR:HG22	2.04	0.63
1:4:513:ASN:ND2	1:4:526:THR:HG22	2.04	0.63
1:5:475:TRP:HB2	1:5:523:LEU:HD23	1.81	0.63
2:FA:996:DA:H4'	2:FA:997:DA:H5'	1.80	0.63
1:A:475:TRP:HB2	1:A:523:LEU:HD23	1.80	0.63
1:G:420:SER:HB2	1:G:721:THR:HG22	1.80	0.63
1:I:423:LEU:HD12	1:I:558:VAL:HG23	1.81	0.63
1:S:420:SER:HB2	1:S:721:THR:HG22	1.80	0.63
1:c:420:SER:HB2	1:c:721:THR:HG22	1.80	0.63
1:p:475:TRP:HB2	1:p:523:LEU:HD23	1.80	0.63
1:r:420:SER:HB2	1:r:721:THR:HG22	1.80	0.63
1:u:373:ARG:NH2	1:5:695:ASP:OD1	2.21	0.63
2:sA:996:DA:H4'	2:sA:997:DA:H5'	1.80	0.63
1:G:423:LEU:HD12	1:G:558:VAL:HG23	1.81	0.63
1:O:475:TRP:HB2	1:O:523:LEU:HD23	1.81	0.63
1:T:420:SER:HB2	1:T:721:THR:HG22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:475:TRP:HB2	1:T:523:LEU:HD23	1.80	0.63
1:V:423:LEU:HD12	1:V:558:VAL:HG23	1.81	0.63
1:V:475:TRP:HB2	1:V:523:LEU:HD23	1.80	0.63
1:u:423:LEU:HD12	1:u:558:VAL:HG23	1.81	0.63
1:v:475:TRP:HB2	1:v:523:LEU:HD23	1.80	0.63
2:1A:996:DA:H4'	2:1A:997:DA:H5'	1.80	0.63
2:yA:996:DA:H4'	2:yA:997:DA:H5'	1.80	0.63
1:C:513:ASN:ND2	1:C:526:THR:HG22	2.04	0.63
1:F:423:LEU:HD12	1:F:558:VAL:HG23	1.81	0.63
1:N:695:ASP:HA	1:m:373:ARG:NH1	2.11	0.63
1:U:513:ASN:ND2	1:U:526:THR:HG22	2.04	0.63
1:b:423:LEU:HD12	1:b:558:VAL:HG23	1.81	0.63
1:f:423:LEU:HD12	1:f:558:VAL:HG23	1.81	0.63
1:l:475:TRP:HB2	1:l:523:LEU:HD23	1.81	0.63
1:m:420:SER:HB2	1:m:721:THR:HG22	1.80	0.63
1:p:423:LEU:HD12	1:p:558:VAL:HG23	1.81	0.63
1:y:423:LEU:HD12	1:y:558:VAL:HG23	1.81	0.63
2:LA:996:DA:H4'	2:LA:997:DA:H5'	1.80	0.63
1:C:420:SER:HB2	1:C:721:THR:HG22	1.80	0.63
1:D:420:SER:HB2	1:D:721:THR:HG22	1.80	0.63
1:K:513:ASN:ND2	1:K:526:THR:HG22	2.04	0.63
1:L:420:SER:HB2	1:L:721:THR:HG22	1.80	0.63
1:M:475:TRP:HB2	1:M:523:LEU:HD23	1.80	0.63
1:j:695:ASP:HA	1:x:373:ARG:NH1	2.10	0.63
1:o:475:TRP:HB2	1:o:523:LEU:HD23	1.81	0.63
1:s:513:ASN:ND2	1:s:526:THR:HG22	2.04	0.63
1:2:475:TRP:HB2	1:2:523:LEU:HD23	1.81	0.63
1:7:475:TRP:HB2	1:7:523:LEU:HD23	1.80	0.63
2:VA:996:DA:H4'	2:VA:997:DA:H5'	1.80	0.63
2:aA:996:DA:H4'	2:aA:997:DA:H5'	1.80	0.63
2:oA:996:DA:H4'	2:oA:997:DA:H5'	1.80	0.63
1:H:695:ASP:OD1	1:I:373:ARG:NH2	2.21	0.63
1:J:475:TRP:HB2	1:J:523:LEU:HD23	1.81	0.63
1:R:373:ARG:NH1	1:V:695:ASP:HA	2.10	0.63
1:X:475:TRP:HB2	1:X:523:LEU:HD23	1.81	0.63
1:Y:475:TRP:HB2	1:Y:523:LEU:HD23	1.80	0.63
1:Z:423:LEU:HD12	1:Z:558:VAL:HG23	1.81	0.63
1:g:420:SER:HB2	1:g:721:THR:HG22	1.80	0.63
1:h:475:TRP:HB2	1:h:523:LEU:HD23	1.81	0.63
1:m:475:TRP:HB2	1:m:523:LEU:HD23	1.81	0.63
2:BA:996:DA:H4'	2:BA:997:DA:H5'	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:996:DA:H4'	2:DA:997:DA:H5'	1.80	0.63
2:IA:996:DA:H4'	2:IA:997:DA:H5'	1.80	0.63
2:1A:996:DA:H4'	2:1A:997:DA:H5'	1.80	0.63
1:K:423:LEU:HD12	1:K:558:VAL:HG23	1.81	0.62
1:P:695:ASP:HA	1:Q:373:ARG:NH1	2.10	0.62
1:S:423:LEU:HD12	1:S:558:VAL:HG23	1.81	0.62
1:k:420:SER:HB2	1:k:721:THR:HG22	1.80	0.62
1:r:423:LEU:HD12	1:r:558:VAL:HG23	1.81	0.62
1:x:475:TRP:HB2	1:x:523:LEU:HD23	1.80	0.62
1:y:475:TRP:HB2	1:y:523:LEU:HD23	1.80	0.62
1:z:420:SER:HB2	1:z:721:THR:HG22	1.80	0.62
1:8:423:LEU:HD12	1:8:558:VAL:HG23	1.81	0.62
2:0:996:DA:H4'	2:0:997:DA:H5'	1.80	0.62
2:qA:996:DA:H4'	2:qA:997:DA:H5'	1.80	0.62
2:4A:996:DA:H4'	2:4A:997:DA:H5'	1.80	0.62
2:GA:996:DA:H4'	2:GA:997:DA:H5'	1.80	0.62
2:gA:996:DA:H4'	2:gA:997:DA:H5'	1.80	0.62
2:kA:996:DA:H4'	2:kA:997:DA:H5'	1.80	0.62
2:rA:996:DA:H4'	2:rA:997:DA:H5'	1.80	0.62
2:tA:996:DA:H4'	2:tA:997:DA:H5'	1.80	0.62
1:F:475:TRP:HB2	1:F:523:LEU:HD23	1.80	0.62
1:Q:475:TRP:HB2	1:Q:523:LEU:HD23	1.81	0.62
1:s:475:TRP:HB2	1:s:523:LEU:HD23	1.81	0.62
1:4:423:LEU:HD12	1:4:558:VAL:HG23	1.81	0.62
2:KA:996:DA:H4'	2:KA:997:DA:H5'	1.80	0.62
2:pA:996:DA:H4'	2:pA:997:DA:H5'	1.80	0.62
1:J:423:LEU:HD12	1:J:558:VAL:HG23	1.81	0.62
1:Y:695:ASP:OD1	1:4:373:ARG:NH2	2.22	0.62
1:f:420:SER:HB2	1:f:721:THR:HG22	1.79	0.62
1:h:695:ASP:HA	1:i:373:ARG:NH1	2.09	0.62
1:2:423:LEU:HD12	1:2:558:VAL:HG23	1.81	0.62
1:B:475:TRP:HB2	1:B:523:LEU:HD23	1.80	0.62
1:U:475:TRP:HB2	1:U:523:LEU:HD23	1.81	0.62
1:W:420:SER:HB2	1:W:721:THR:HG22	1.80	0.62
1:e:695:ASP:OD1	1:h:373:ARG:NH2	2.21	0.62
1:k:423:LEU:HD12	1:k:558:VAL:HG23	1.81	0.62
1:k:475:TRP:HB2	1:k:523:LEU:HD23	1.81	0.62
1:p:695:ASP:HA	1:q:373:ARG:NH1	2.10	0.62
1:1:475:TRP:HB2	1:1:523:LEU:HD23	1.81	0.62
2:5A:996:DA:H4'	2:5A:997:DA:H5'	1.80	0.62
2:eA:996:DA:H4'	2:eA:997:DA:H5'	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:423:LEU:HD12	1:D:558:VAL:HG23	1.81	0.62
1:D:475:TRP:HB2	1:D:523:LEU:HD23	1.80	0.62
1:G:695:ASP:HA	1:W:373:ARG:NH1	2.08	0.62
1:O:420:SER:HB2	1:O:721:THR:HG22	1.80	0.62
1:b:420:SER:HB2	1:b:721:THR:HG22	1.80	0.62
1:g:475:TRP:HB2	1:g:523:LEU:HD23	1.81	0.62
1:l:420:SER:HB2	1:l:721:THR:HG22	1.80	0.62
1:u:475:TRP:HB2	1:u:523:LEU:HD23	1.81	0.62
1:u:695:ASP:OD1	1:2:373:ARG:NH2	2.21	0.62
1:5:373:ARG:NH2	1:8:695:ASP:OD1	2.21	0.62
1:C:475:TRP:HB2	1:C:523:LEU:HD23	1.81	0.62
1:R:423:LEU:HD12	1:R:558:VAL:HG23	1.81	0.62
1:U:420:SER:HB2	1:U:721:THR:HG22	1.80	0.62
1:n:475:TRP:HB2	1:n:523:LEU:HD23	1.81	0.62
1:q:423:LEU:HD12	1:q:558:VAL:HG23	1.81	0.62
1:6:420:SER:HB2	1:6:721:THR:HG22	1.80	0.62
2:nA:996:DA:H4'	2:nA:997:DA:H5'	1.80	0.62
1:I:475:TRP:HB2	1:I:523:LEU:HD23	1.81	0.62
1:I:695:ASP:OD1	1:J:373:ARG:NH2	2.21	0.62
1:K:373:ARG:NH2	1:7:695:ASP:OD1	2.22	0.62
1:K:475:TRP:HB2	1:K:523:LEU:HD23	1.80	0.62
1:R:475:TRP:HB2	1:R:523:LEU:HD23	1.81	0.62
1:a:423:LEU:HD12	1:a:558:VAL:HG23	1.81	0.62
1:s:420:SER:HB2	1:s:721:THR:HG22	1.80	0.62
1:3:423:LEU:HD12	1:3:558:VAL:HG23	1.81	0.62
1:M:373:ARG:NH2	1:c:695:ASP:OD1	2.21	0.62
1:M:695:ASP:HA	1:N:373:ARG:NH1	2.10	0.62
1:X:513:ASN:ND2	1:X:526:THR:HG22	2.04	0.62
1:o:513:ASN:ND2	1:o:526:THR:HG22	2.04	0.62
2:JA:996:DA:H4'	2:JA:997:DA:H5'	1.80	0.62
2:uA:996:DA:H4'	2:uA:997:DA:H5'	1.80	0.62
2:xA:996:DA:H4'	2:xA:997:DA:H5'	1.80	0.62
1:O:695:ASP:HA	1:P:373:ARG:NH1	2.09	0.62
1:d:475:TRP:HB2	1:d:523:LEU:HD23	1.81	0.62
1:e:475:TRP:HB2	1:e:523:LEU:HD23	1.80	0.62
1:q:475:TRP:HB2	1:q:523:LEU:HD23	1.81	0.62
1:r:475:TRP:HB2	1:r:523:LEU:HD23	1.81	0.62
2:AA:996:DA:H4'	2:AA:997:DA:H5'	1.80	0.62
1:S:513:ASN:ND2	1:S:526:THR:HG22	2.04	0.62
1:c:475:TRP:HB2	1:c:523:LEU:HD23	1.80	0.62
1:v:423:LEU:HD12	1:v:558:VAL:HG23	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:475:TRP:HB2	1:4:523:LEU:HD23	1.81	0.62
1:7:423:LEU:HD12	1:7:558:VAL:HG23	1.81	0.62
1:A:423:LEU:HD12	1:A:558:VAL:HG23	1.81	0.61
1:H:513:ASN:ND2	1:H:526:THR:HG22	2.04	0.61
1:N:423:LEU:HD12	1:N:558:VAL:HG23	1.81	0.61
1:P:423:LEU:HD12	1:P:558:VAL:HG23	1.81	0.61
1:S:475:TRP:HB2	1:S:523:LEU:HD23	1.81	0.61
1:j:423:LEU:HD12	1:j:558:VAL:HG23	1.81	0.61
1:m:695:ASP:HA	1:s:373:ARG:NH1	2.09	0.61
1:q:678:GLU:HG3	1:q:720:LEU:HD13	1.82	0.61
1:L:423:LEU:HD12	1:L:558:VAL:HG23	1.81	0.61
1:R:678:GLU:HG3	1:R:720:LEU:HD13	1.83	0.61
1:W:475:TRP:HB2	1:W:523:LEU:HD23	1.81	0.61
1:Y:423:LEU:HD12	1:Y:558:VAL:HG23	1.81	0.61
1:a:475:TRP:HB2	1:a:523:LEU:HD23	1.81	0.61
1:c:423:LEU:HD12	1:c:558:VAL:HG23	1.81	0.61
1:e:423:LEU:HD12	1:e:558:VAL:HG23	1.81	0.61
1:m:423:LEU:HD12	1:m:558:VAL:HG23	1.81	0.61
1:o:423:LEU:HD12	1:o:558:VAL:HG23	1.81	0.61
1:1:423:LEU:HD12	1:1:558:VAL:HG23	1.81	0.61
1:3:475:TRP:HB2	1:3:523:LEU:HD23	1.80	0.61
2:3A:996:DA:H4'	2:3A:997:DA:H5'	1.80	0.61
1:B:423:LEU:HD12	1:B:558:VAL:HG23	1.81	0.61
1:T:423:LEU:HD12	1:T:558:VAL:HG23	1.81	0.61
1:i:423:LEU:HD12	1:i:558:VAL:HG23	1.81	0.61
1:i:678:GLU:HG3	1:i:720:LEU:HD13	1.82	0.61
1:v:373:ARG:NH2	1:1:695:ASP:OD1	2.21	0.61
1:w:423:LEU:HD12	1:w:558:VAL:HG23	1.81	0.61
2:zA:996:DA:H4'	2:zA:997:DA:H5'	1.80	0.61
1:C:423:LEU:HD12	1:C:558:VAL:HG23	1.81	0.61
1:E:423:LEU:HD12	1:E:558:VAL:HG23	1.81	0.61
1:M:678:GLU:HG3	1:M:720:LEU:HD13	1.82	0.61
1:N:678:GLU:HG3	1:N:720:LEU:HD13	1.82	0.61
1:P:475:TRP:HB2	1:P:523:LEU:HD23	1.80	0.61
1:T:695:ASP:HA	1:U:373:ARG:NH1	2.09	0.61
1:e:695:ASP:HA	1:h:373:ARG:NH1	2.10	0.61
1:h:423:LEU:HD12	1:h:558:VAL:HG23	1.81	0.61
1:h:678:GLU:HG3	1:h:720:LEU:HD13	1.82	0.61
1:j:373:ARG:NH1	1:l:695:ASP:HA	2.10	0.61
1:j:475:TRP:HB2	1:j:523:LEU:HD23	1.81	0.61
1:o:695:ASP:OD1	1:7:373:ARG:NH2	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:695:ASP:HA	1:6:373:ARG:NH1	2.09	0.61
1:z:423:LEU:HD12	1:z:558:VAL:HG23	1.81	0.61
1:6:423:LEU:HD12	1:6:558:VAL:HG23	1.81	0.61
1:6:475:TRP:HB2	1:6:523:LEU:HD23	1.81	0.61
1:M:423:LEU:HD12	1:M:558:VAL:HG23	1.81	0.61
1:W:423:LEU:HD12	1:W:558:VAL:HG23	1.81	0.61
1:X:423:LEU:HD12	1:X:558:VAL:HG23	1.81	0.61
1:d:423:LEU:HD12	1:d:558:VAL:HG23	1.81	0.61
1:r:513:ASN:ND2	1:r:526:THR:HG22	2.04	0.61
1:5:513:ASN:ND2	1:5:526:THR:HG22	2.04	0.61
2:NA:996:DA:H4'	2:NA:997:DA:H5'	1.80	0.61
2:mA:996:DA:H4'	2:mA:997:DA:H5'	1.80	0.61
1:I:678:GLU:HG3	1:I:720:LEU:HD13	1.82	0.61
1:M:373:ARG:NH1	1:c:695:ASP:HA	2.10	0.61
1:T:678:GLU:HG3	1:T:720:LEU:HD13	1.83	0.61
1:g:423:LEU:HD12	1:g:558:VAL:HG23	1.81	0.61
1:m:678:GLU:HG3	1:m:720:LEU:HD13	1.82	0.61
1:c:373:ARG:NH2	1:s:695:ASP:OD1	2.21	0.61
1:n:423:LEU:HD12	1:n:558:VAL:HG23	1.81	0.61
1:u:678:GLU:HG3	1:u:720:LEU:HD13	1.82	0.61
1:v:678:GLU:HG3	1:v:720:LEU:HD13	1.83	0.61
1:A:678:GLU:HG3	1:A:720:LEU:HD13	1.82	0.61
1:K:678:GLU:HG3	1:K:720:LEU:HD13	1.82	0.61
1:U:423:LEU:HD12	1:U:558:VAL:HG23	1.81	0.61
1:U:695:ASP:OD1	1:e:373:ARG:NH2	2.21	0.61
1:Z:373:ARG:NH1	1:a:695:ASP:HA	2.10	0.61
1:c:373:ARG:NH1	1:s:695:ASP:HA	2.10	0.61
1:s:678:GLU:HG3	1:s:720:LEU:HD13	1.82	0.61
1:4:678:GLU:HG3	1:4:720:LEU:HD13	1.82	0.61
1:I:513:ASN:ND2	1:I:526:THR:HG22	2.04	0.61
1:O:423:LEU:HD12	1:O:558:VAL:HG23	1.81	0.61
1:U:678:GLU:HG3	1:U:720:LEU:HD13	1.82	0.61
1:X:695:ASP:OD1	1:Y:373:ARG:NH2	2.21	0.61
1:q:695:ASP:OD1	1:y:373:ARG:NH2	2.21	0.61
1:s:423:LEU:HD12	1:s:558:VAL:HG23	1.81	0.61
1:A:373:ARG:NH2	1:B:695:ASP:OD1	2.21	0.61
1:C:373:ARG:NH1	1:D:695:ASP:HA	2.10	0.61
1:W:678:GLU:HG3	1:W:720:LEU:HD13	1.82	0.61
1:e:513:ASN:ND2	1:e:526:THR:HG22	2.04	0.61
1:f:373:ARG:NH2	1:z:695:ASP:OD1	2.21	0.61
1:u:373:ARG:NH1	1:5:695:ASP:HA	2.10	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:695:ASP:HA	1:e:373:ARG:NH1	2.10	0.60
1:b:678:GLU:HG3	1:b:720:LEU:HD13	1.82	0.60
1:t:695:ASP:OD1	1:6:373:ARG:NH2	2.21	0.60
1:6:678:GLU:HG3	1:6:720:LEU:HD13	1.82	0.60
1:B:678:GLU:HG3	1:B:720:LEU:HD13	1.82	0.60
1:L:695:ASP:OD1	1:b:373:ARG:NH2	2.21	0.60
1:N:286:ASP:OD2	1:m:390:TYR:OH	2.20	0.60
1:T:390:TYR:OH	1:i:286:ASP:OD2	2.20	0.60
1:c:678:GLU:HG3	1:c:720:LEU:HD13	1.82	0.60
1:e:678:GLU:HG3	1:e:720:LEU:HD13	1.82	0.60
1:f:678:GLU:HG3	1:f:720:LEU:HD13	1.82	0.60
1:g:373:ARG:NH1	1:k:695:ASP:HA	2.10	0.60
1:l:423:LEU:HD12	1:l:558:VAL:HG23	1.81	0.60
1:5:678:GLU:HG3	1:5:720:LEU:HD13	1.82	0.60
1:7:678:GLU:HG3	1:7:720:LEU:HD13	1.82	0.60
1:H:678:GLU:HG3	1:H:720:LEU:HD13	1.82	0.60
1:H:695:ASP:HA	1:I:373:ARG:NH1	2.10	0.60
1:P:513:ASN:ND2	1:P:526:THR:HG22	2.04	0.60
1:Y:678:GLU:HG3	1:Y:720:LEU:HD13	1.82	0.60
1:1:678:GLU:HG3	1:1:720:LEU:HD13	1.83	0.60
1:3:678:GLU:HG3	1:3:720:LEU:HD13	1.82	0.60
1:F:373:ARG:NH2	1:R:695:ASP:OD1	2.21	0.60
1:a:678:GLU:HG3	1:a:720:LEU:HD13	1.83	0.60
1:j:513:ASN:ND2	1:j:526:THR:HG22	2.04	0.60
1:l:678:GLU:HG3	1:l:720:LEU:HD13	1.82	0.60
1:t:678:GLU:HG3	1:t:720:LEU:HD13	1.82	0.60
1:u:513:ASN:ND2	1:u:526:THR:HG22	2.04	0.60
1:G:286:ASP:OD2	1:W:390:TYR:OH	2.20	0.60
1:O:678:GLU:HG3	1:O:720:LEU:HD13	1.82	0.60
1:Z:678:GLU:HG3	1:Z:720:LEU:HD13	1.82	0.60
1:c:513:ASN:ND2	1:c:526:THR:HG22	2.04	0.60
1:j:678:GLU:HG3	1:j:720:LEU:HD13	1.82	0.60
1:2:286:ASP:OD2	1:3:390:TYR:OH	2.19	0.60
1:G:678:GLU:HG3	1:G:720:LEU:HD13	1.82	0.60
1:H:390:TYR:OH	1:Z:286:ASP:OD2	2.20	0.60
1:S:678:GLU:HG3	1:S:720:LEU:HD13	1.82	0.60
1:X:678:GLU:HG3	1:X:720:LEU:HD13	1.82	0.60
1:k:678:GLU:HG3	1:k:720:LEU:HD13	1.82	0.60
1:o:678:GLU:HG3	1:o:720:LEU:HD13	1.82	0.60
1:r:678:GLU:HG3	1:r:720:LEU:HD13	1.82	0.60
1:5:390:TYR:OH	1:8:286:ASP:OD2	2.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:678:GLU:HG3	1:8:720:LEU:HD13	1.82	0.60
1:D:678:GLU:HG3	1:D:720:LEU:HD13	1.82	0.60
1:F:286:ASP:OD2	1:G:390:TYR:OH	2.19	0.60
1:b:286:ASP:OD2	1:o:390:TYR:OH	2.20	0.60
1:t:286:ASP:OD2	1:6:390:TYR:OH	2.20	0.60
1:3:695:ASP:HA	1:8:373:ARG:NH1	2.10	0.60
1:A:286:ASP:OD2	1:E:390:TYR:OH	2.20	0.60
1:P:678:GLU:HG3	1:P:720:LEU:HD13	1.83	0.60
1:Q:286:ASP:OD2	1:S:390:TYR:OH	2.20	0.60
1:V:678:GLU:HG3	1:V:720:LEU:HD13	1.82	0.60
1:r:390:TYR:OH	1:x:286:ASP:OD2	2.20	0.60
1:v:286:ASP:OD2	1:w:390:TYR:OH	2.20	0.60
1:2:695:ASP:HA	1:3:373:ARG:NH1	2.09	0.60
1:R:390:TYR:OH	1:V:286:ASP:OD2	2.20	0.60
1:V:390:TYR:OH	1:W:286:ASP:OD2	2.20	0.60
1:p:286:ASP:OD2	1:q:390:TYR:OH	2.20	0.60
1:p:390:TYR:OH	1:6:286:ASP:OD2	2.20	0.60
1:w:678:GLU:HG3	1:w:720:LEU:HD13	1.82	0.60
1:E:678:GLU:HG3	1:E:720:LEU:HD13	1.82	0.60
1:F:678:GLU:HG3	1:F:720:LEU:HD13	1.82	0.60
1:K:286:ASP:OD2	1:L:390:TYR:OH	2.20	0.60
1:M:390:TYR:OH	1:c:286:ASP:OD2	2.20	0.60
1:O:373:ARG:NH1	1:d:695:ASP:HA	2.10	0.60
1:O:390:TYR:OH	1:d:286:ASP:OD2	2.20	0.60
1:Q:678:GLU:HG3	1:Q:720:LEU:HD13	1.82	0.60
1:e:286:ASP:OD2	1:h:390:TYR:OH	2.20	0.60
1:g:390:TYR:OH	1:k:286:ASP:OD2	2.20	0.60
1:o:286:ASP:OD2	1:7:390:TYR:OH	2.20	0.60
1:p:678:GLU:HG3	1:p:720:LEU:HD13	1.82	0.60
1:C:390:TYR:OH	1:D:286:ASP:OD2	2.20	0.59
1:F:390:TYR:OH	1:R:286:ASP:OD2	2.20	0.59
1:T:286:ASP:OD2	1:U:390:TYR:OH	2.20	0.59
1:U:286:ASP:OD2	1:e:390:TYR:OH	2.20	0.59
1:d:678:GLU:HG3	1:d:720:LEU:HD13	1.83	0.59
1:q:286:ASP:OD2	1:y:390:TYR:OH	2.20	0.59
1:x:678:GLU:HG3	1:x:720:LEU:HD13	1.82	0.59
1:z:390:TYR:OH	1:4:286:ASP:OD2	2.20	0.59
1:z:678:GLU:HG3	1:z:720:LEU:HD13	1.82	0.59
1:c:390:TYR:OH	1:s:286:ASP:OD2	2.20	0.59
1:i:372:ASN:ND2	1:i:376:THR:O	2.29	0.59
1:l:390:TYR:OH	1:n:286:ASP:OD2	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:286:ASP:OD2	1:s:390:TYR:OH	2.20	0.59
1:n:678:GLU:HG3	1:n:720:LEU:HD13	1.83	0.59
1:t:390:TYR:OH	1:y:286:ASP:OD2	2.20	0.59
1:y:678:GLU:HG3	1:y:720:LEU:HD13	1.82	0.59
1:J:286:ASP:OD2	1:a:390:TYR:OH	2.20	0.59
1:C:678:GLU:HG3	1:C:720:LEU:HD13	1.82	0.59
1:I:286:ASP:OD2	1:J:390:TYR:OH	2.20	0.59
1:L:678:GLU:HG3	1:L:720:LEU:HD13	1.82	0.59
1:l:373:ARG:NH1	1:n:695:ASP:HA	2.10	0.59
1:s:339:TYR:OH	1:s:632:PRO:O	2.21	0.59
1:J:678:GLU:HG3	1:J:720:LEU:HD13	1.82	0.59
1:K:390:TYR:OH	1:7:286:ASP:OD2	2.20	0.59
1:P:286:ASP:OD2	1:Q:390:TYR:OH	2.20	0.59
1:U:339:TYR:OH	1:U:632:PRO:O	2.21	0.59
1:Y:286:ASP:OD2	1:4:390:TYR:OH	2.20	0.59
1:g:286:ASP:OD2	1:1:390:TYR:OH	2.20	0.59
1:n:513:ASN:ND2	1:n:526:THR:HG22	2.04	0.59
1:v:390:TYR:OH	1:1:286:ASP:OD2	2.20	0.59
1:A:390:TYR:OH	1:B:286:ASP:OD2	2.20	0.59
1:B:390:TYR:OH	1:C:286:ASP:OD2	2.20	0.59
1:J:695:ASP:HA	1:a:373:ARG:NH1	2.10	0.59
1:N:372:ASN:ND2	1:N:376:THR:O	2.29	0.59
1:X:286:ASP:OD2	1:Y:390:TYR:OH	2.20	0.59
1:g:678:GLU:HG3	1:g:720:LEU:HD13	1.82	0.59
1:j:286:ASP:OD2	1:x:390:TYR:OH	2.20	0.59
1:u:286:ASP:OD2	1:2:390:TYR:OH	2.20	0.59
1:2:678:GLU:HG3	1:2:720:LEU:HD13	1.82	0.59
1:K:693:TYR:HB2	1:L:381:GLU:OE2	2.03	0.59
1:m:693:TYR:HB2	1:s:381:GLU:OE2	2.03	0.59
1:M:286:ASP:OD2	1:N:390:TYR:OH	2.20	0.59
1:T:693:TYR:HB2	1:U:381:GLU:OE2	2.03	0.59
1:h:286:ASP:OD2	1:i:390:TYR:OH	2.20	0.59
1:z:381:GLU:OE2	1:4:693:TYR:HB2	2.03	0.59
1:G:693:TYR:HB2	1:W:381:GLU:OE2	2.03	0.59
1:X:390:TYR:OH	1:f:286:ASP:OD2	2.20	0.59
1:Z:390:TYR:OH	1:a:286:ASP:OD2	2.20	0.59
1:o:339:TYR:OH	1:o:632:PRO:O	2.21	0.59
1:u:390:TYR:OH	1:5:286:ASP:OD2	2.20	0.59
1:y:339:TYR:OH	1:y:632:PRO:O	2.21	0.59
1:3:286:ASP:OD2	1:8:390:TYR:OH	2.20	0.59
1:H:286:ASP:OD2	1:I:390:TYR:OH	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:286:ASP:OD2	1:P:390:TYR:OH	2.20	0.59
1:O:600:ASP:OD1	1:O:717:THR:OG1	2.21	0.59
1:Q:600:ASP:OD1	1:Q:717:THR:OG1	2.21	0.59
1:S:695:ASP:HA	1:d:373:ARG:NH1	2.10	0.59
1:X:339:TYR:OH	1:X:632:PRO:O	2.21	0.59
1:l:600:ASP:OD1	1:l:717:THR:OG1	2.21	0.59
1:x:339:TYR:OH	1:x:632:PRO:O	2.21	0.59
1:x:600:ASP:OD1	1:x:717:THR:OG1	2.21	0.59
1:D:390:TYR:OH	1:E:286:ASP:OD2	2.20	0.58
1:F:339:TYR:OH	1:F:632:PRO:O	2.21	0.58
1:L:600:ASP:OD1	1:L:717:THR:OG1	2.21	0.58
1:c:600:ASP:OD1	1:c:717:THR:OG1	2.21	0.58
1:d:513:ASN:ND2	1:d:526:THR:HG22	2.04	0.58
1:e:600:ASP:OD1	1:e:717:THR:OG1	2.21	0.58
1:k:390:TYR:OH	1:w:286:ASP:OD2	2.20	0.58
1:o:695:ASP:HA	1:7:373:ARG:NH1	2.09	0.58
1:2:600:ASP:OD1	1:2:717:THR:OG1	2.21	0.58
1:4:600:ASP:OD1	1:4:717:THR:OG1	2.21	0.58
1:J:600:ASP:OD1	1:J:717:THR:OG1	2.21	0.58
1:K:600:ASP:OD1	1:K:717:THR:OG1	2.21	0.58
1:X:695:ASP:HA	1:Y:373:ARG:NH1	2.09	0.58
1:e:339:TYR:OH	1:e:632:PRO:O	2.21	0.58
1:f:390:TYR:OH	1:z:286:ASP:OD2	2.20	0.58
1:j:390:TYR:OH	1:l:286:ASP:OD2	2.20	0.58
1:o:600:ASP:OD1	1:o:717:THR:OG1	2.21	0.58
1:z:600:ASP:OD1	1:z:717:THR:OG1	2.21	0.58
1:L:286:ASP:OD2	1:b:390:TYR:OH	2.20	0.58
1:X:600:ASP:OD1	1:X:717:THR:OG1	2.21	0.58
1:c:339:TYR:OH	1:c:632:PRO:O	2.21	0.58
1:g:600:ASP:OD1	1:g:717:THR:OG1	2.21	0.58
1:7:600:ASP:OD1	1:7:717:THR:OG1	2.21	0.58
1:C:600:ASP:OD1	1:C:717:THR:OG1	2.21	0.58
1:M:330:THR:HG21	1:M:395:MET:HB3	1.86	0.58
1:Y:600:ASP:OD1	1:Y:717:THR:OG1	2.21	0.58
1:a:600:ASP:OD1	1:a:717:THR:OG1	2.21	0.58
1:h:330:THR:HG21	1:h:395:MET:HB3	1.86	0.58
1:n:373:ARG:NH1	1:r:695:ASP:HA	2.10	0.58
1:v:330:THR:HG21	1:v:395:MET:HB3	1.86	0.58
1:w:339:TYR:OH	1:w:632:PRO:O	2.21	0.58
1:A:330:THR:HG21	1:A:395:MET:HB3	1.86	0.58
1:E:339:TYR:OH	1:E:632:PRO:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:330:THR:HG21	1:W:395:MET:HB3	1.86	0.58
1:p:693:TYR:HB2	1:q:381:GLU:OE2	2.04	0.58
1:3:600:ASP:OD1	1:3:717:THR:OG1	2.21	0.58
1:6:330:THR:HG21	1:6:395:MET:HB3	1.86	0.58
1:B:600:ASP:OD1	1:B:717:THR:OG1	2.21	0.58
1:R:381:GLU:OE2	1:V:693:TYR:HB2	2.04	0.58
1:V:330:THR:HG21	1:V:395:MET:HB3	1.86	0.58
1:j:693:TYR:HB2	1:x:381:GLU:OE2	2.04	0.58
1:p:330:THR:HG21	1:p:395:MET:HB3	1.86	0.58
1:r:600:ASP:OD1	1:r:717:THR:OG1	2.21	0.58
1:1:600:ASP:OD1	1:1:717:THR:OG1	2.21	0.58
1:5:330:THR:HG21	1:5:395:MET:HB3	1.86	0.58
1:G:330:THR:HG21	1:G:395:MET:HB3	1.86	0.58
1:G:600:ASP:OD1	1:G:717:THR:OG1	2.21	0.58
1:J:330:THR:HG21	1:J:395:MET:HB3	1.86	0.58
1:M:381:GLU:OE2	1:c:693:TYR:HB2	2.04	0.58
1:M:693:TYR:HB2	1:N:381:GLU:OE2	2.04	0.58
1:P:330:THR:HG21	1:P:395:MET:HB3	1.86	0.58
1:S:286:ASP:OD2	1:d:390:TYR:OH	2.20	0.58
1:S:600:ASP:OD1	1:S:717:THR:OG1	2.21	0.58
1:Z:600:ASP:OD1	1:Z:717:THR:OG1	2.21	0.58
1:e:693:TYR:HB2	1:h:381:GLU:OE2	2.04	0.58
1:h:693:TYR:HB2	1:i:381:GLU:OE2	2.04	0.58
1:n:390:TYR:OH	1:r:286:ASP:OD2	2.20	0.58
1:q:693:TYR:HB2	1:y:381:GLU:OE2	2.04	0.58
1:t:330:THR:HG21	1:t:395:MET:HB3	1.86	0.58
1:t:600:ASP:OD1	1:t:717:THR:OG1	2.21	0.58
1:2:330:THR:HG21	1:2:395:MET:HB3	1.86	0.58
1:F:381:GLU:OE2	1:R:693:TYR:HB2	2.04	0.58
1:H:330:THR:HG21	1:H:395:MET:HB3	1.86	0.58
1:L:432:ASP:HA	1:L:454:ALA:H	1.69	0.58
1:P:693:TYR:HB2	1:Q:381:GLU:OE2	2.04	0.58
1:Z:330:THR:HG21	1:Z:395:MET:HB3	1.86	0.58
1:c:381:GLU:OE2	1:s:693:TYR:HB2	2.04	0.58
1:h:600:ASP:OD1	1:h:717:THR:OG1	2.21	0.58
1:j:330:THR:HG21	1:j:395:MET:HB3	1.86	0.58
1:y:600:ASP:OD1	1:y:717:THR:OG1	2.21	0.58
1:2:693:TYR:HB2	1:3:381:GLU:OE2	2.03	0.58
1:8:330:THR:HG21	1:8:395:MET:HB3	1.86	0.58
1:F:373:ARG:NH1	1:R:695:ASP:HA	2.10	0.58
1:K:330:THR:HG21	1:K:395:MET:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:600:ASP:OD1	1:M:717:THR:OG1	2.21	0.58
1:O:330:THR:HG21	1:O:395:MET:HB3	1.86	0.58
1:O:693:TYR:HB2	1:P:381:GLU:OE2	2.03	0.58
1:R:600:ASP:OD1	1:R:717:THR:OG1	2.21	0.58
1:U:693:TYR:HB2	1:e:381:GLU:OE2	2.04	0.58
1:b:432:ASP:HA	1:b:454:ALA:H	1.69	0.58
1:b:693:TYR:HB2	1:o:381:GLU:OE2	2.04	0.58
1:k:381:GLU:OE2	1:w:693:TYR:HB2	2.04	0.58
1:l:330:THR:HG21	1:l:395:MET:HB3	1.86	0.58
1:q:600:ASP:OD1	1:q:717:THR:OG1	2.21	0.58
1:q:695:ASP:HA	1:y:373:ARG:NH1	2.10	0.58
1:r:381:GLU:OE2	1:x:693:TYR:HB2	2.04	0.58
1:t:693:TYR:HB2	1:6:381:GLU:OE2	2.04	0.58
1:v:693:TYR:HB2	1:w:381:GLU:OE2	2.04	0.58
1:7:339:TYR:OH	1:7:632:PRO:O	2.21	0.58
1:8:600:ASP:OD1	1:8:717:THR:OG1	2.21	0.58
1:A:693:TYR:HB2	1:E:381:GLU:OE2	2.04	0.58
1:D:381:GLU:OE2	1:E:693:TYR:HB2	2.04	0.58
1:F:600:ASP:OD1	1:F:717:THR:OG1	2.21	0.58
1:H:373:ARG:NH1	1:Z:695:ASP:HA	2.10	0.58
1:I:432:ASP:HA	1:I:454:ALA:H	1.69	0.58
1:Q:693:TYR:HB2	1:S:381:GLU:OE2	2.04	0.58
1:X:330:THR:HG21	1:X:395:MET:HB3	1.86	0.58
1:X:381:GLU:OE2	1:f:693:TYR:HB2	2.04	0.58
1:Y:339:TYR:OH	1:Y:632:PRO:O	2.21	0.58
1:f:432:ASP:HA	1:f:454:ALA:H	1.69	0.58
1:o:330:THR:HG21	1:o:395:MET:HB3	1.86	0.58
1:q:339:TYR:OH	1:q:632:PRO:O	2.21	0.58
1:u:432:ASP:HA	1:u:454:ALA:H	1.69	0.58
1:z:432:ASP:HA	1:z:454:ALA:H	1.69	0.58
1:5:373:ARG:NH1	1:8:695:ASP:HA	2.10	0.58
1:6:600:ASP:OD1	1:6:717:THR:OG1	2.21	0.58
1:B:330:THR:HG21	1:B:395:MET:HB3	1.86	0.57
1:C:432:ASP:HA	1:C:454:ALA:H	1.69	0.57
1:D:600:ASP:OD1	1:D:717:THR:OG1	2.21	0.57
1:M:432:ASP:HA	1:M:454:ALA:H	1.69	0.57
1:W:600:ASP:OD1	1:W:717:THR:OG1	2.21	0.57
1:c:330:THR:HG21	1:c:395:MET:HB3	1.86	0.57
1:j:600:ASP:OD1	1:j:717:THR:OG1	2.21	0.57
1:o:432:ASP:HA	1:o:454:ALA:H	1.69	0.57
1:p:600:ASP:OD1	1:p:717:THR:OG1	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:330:THR:HG21	1:3:395:MET:HB3	1.86	0.57
1:4:330:THR:HG21	1:4:395:MET:HB3	1.86	0.57
1:D:432:ASP:HA	1:D:454:ALA:H	1.69	0.57
1:E:432:ASP:HA	1:E:454:ALA:H	1.69	0.57
1:P:600:ASP:OD1	1:P:717:THR:OG1	2.21	0.57
1:R:339:TYR:OH	1:R:632:PRO:O	2.21	0.57
1:U:600:ASP:OD1	1:U:717:THR:OG1	2.21	0.57
1:V:600:ASP:OD1	1:V:717:THR:OG1	2.21	0.57
1:W:432:ASP:HA	1:W:454:ALA:H	1.69	0.57
1:j:381:GLU:OE2	1:l:693:TYR:HB2	2.03	0.57
1:k:600:ASP:OD1	1:k:717:THR:OG1	2.21	0.57
1:t:372:ASN:ND2	1:t:376:THR:O	2.29	0.57
1:1:330:THR:HG21	1:1:395:MET:HB3	1.86	0.57
1:5:381:GLU:OE2	1:8:693:TYR:HB2	2.03	0.57
1:6:339:TYR:OH	1:6:632:PRO:O	2.21	0.57
1:A:381:GLU:OE2	1:B:693:TYR:HB2	2.04	0.57
1:K:339:TYR:OH	1:K:632:PRO:O	2.21	0.57
1:L:339:TYR:OH	1:L:632:PRO:O	2.21	0.57
1:P:456:ARG:O	1:P:460:THR:HG23	2.05	0.57
1:V:339:TYR:OH	1:V:632:PRO:O	2.21	0.57
1:X:432:ASP:HA	1:X:454:ALA:H	1.69	0.57
1:a:330:THR:HG21	1:a:395:MET:HB3	1.86	0.57
1:e:330:THR:HG21	1:e:395:MET:HB3	1.86	0.57
1:e:372:ASN:ND2	1:e:376:THR:O	2.29	0.57
1:g:432:ASP:HA	1:g:454:ALA:H	1.69	0.57
1:h:432:ASP:HA	1:h:454:ALA:H	1.69	0.57
1:j:456:ARG:O	1:j:460:THR:HG23	2.05	0.57
1:k:432:ASP:HA	1:k:454:ALA:H	1.69	0.57
1:k:456:ARG:O	1:k:460:THR:HG23	2.05	0.57
1:r:330:THR:HG21	1:r:395:MET:HB3	1.86	0.57
1:t:381:GLU:OE2	1:y:693:TYR:HB2	2.04	0.57
1:6:432:ASP:HA	1:6:454:ALA:H	1.69	0.57
1:D:456:ARG:O	1:D:460:THR:HG23	2.05	0.57
1:G:456:ARG:O	1:G:460:THR:HG23	2.05	0.57
1:I:600:ASP:OD1	1:I:717:THR:OG1	2.21	0.57
1:L:456:ARG:O	1:L:460:THR:HG23	2.05	0.57
1:S:330:THR:HG21	1:S:395:MET:HB3	1.86	0.57
1:W:339:TYR:OH	1:W:632:PRO:O	2.21	0.57
1:Z:381:GLU:OE2	1:a:693:TYR:HB2	2.04	0.57
1:c:372:ASN:ND2	1:c:376:THR:O	2.29	0.57
1:c:456:ARG:O	1:c:460:THR:HG23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:456:ARG:O	1:e:460:THR:HG23	2.05	0.57
1:f:330:THR:HG21	1:f:395:MET:HB3	1.86	0.57
1:s:600:ASP:OD1	1:s:717:THR:OG1	2.21	0.57
1:u:339:TYR:OH	1:u:632:PRO:O	2.21	0.57
1:u:693:TYR:HB2	1:2:381:GLU:OE2	2.04	0.57
1:v:381:GLU:OE2	1:1:693:TYR:HB2	2.04	0.57
1:w:432:ASP:HA	1:w:454:ALA:H	1.69	0.57
1:z:339:TYR:OH	1:z:632:PRO:O	2.21	0.57
1:z:456:ARG:O	1:z:460:THR:HG23	2.05	0.57
1:2:339:TYR:OH	1:2:632:PRO:O	2.21	0.57
1:E:600:ASP:OD1	1:E:717:THR:OG1	2.21	0.57
1:F:456:ARG:O	1:F:460:THR:HG23	2.05	0.57
1:G:372:ASN:ND2	1:G:376:THR:O	2.29	0.57
1:H:381:GLU:OE2	1:Z:693:TYR:HB2	2.04	0.57
1:H:600:ASP:OD1	1:H:717:THR:OG1	2.21	0.57
1:I:693:TYR:HB2	1:J:381:GLU:OE2	2.04	0.57
1:K:432:ASP:HA	1:K:454:ALA:H	1.69	0.57
1:V:456:ARG:O	1:V:460:THR:HG23	2.05	0.57
1:W:513:ASN:ND2	1:W:526:THR:HG22	2.04	0.57
1:n:381:GLU:OE2	1:r:693:TYR:HB2	2.04	0.57
1:t:456:ARG:O	1:t:460:THR:HG23	2.05	0.57
1:u:600:ASP:OD1	1:u:717:THR:OG1	2.21	0.57
1:z:330:THR:HG21	1:z:395:MET:HB3	1.86	0.57
1:4:339:TYR:OH	1:4:632:PRO:O	2.21	0.57
1:F:330:THR:HG21	1:F:395:MET:HB3	1.86	0.57
1:F:693:TYR:HB2	1:G:381:GLU:OE2	2.04	0.57
1:J:693:TYR:HB2	1:a:381:GLU:OE2	2.04	0.57
1:M:339:TYR:OH	1:M:632:PRO:O	2.21	0.57
1:S:693:TYR:HB2	1:d:381:GLU:OE2	2.04	0.57
1:Z:456:ARG:O	1:Z:460:THR:HG23	2.05	0.57
1:b:600:ASP:OD1	1:b:717:THR:OG1	2.21	0.57
1:d:600:ASP:OD1	1:d:717:THR:OG1	2.21	0.57
1:f:600:ASP:OD1	1:f:717:THR:OG1	2.21	0.57
1:g:381:GLU:OE2	1:k:693:TYR:HB2	2.05	0.57
1:m:600:ASP:OD1	1:m:717:THR:OG1	2.21	0.57
1:n:600:ASP:OD1	1:n:717:THR:OG1	2.21	0.57
1:o:693:TYR:HB2	1:7:381:GLU:OE2	2.04	0.57
1:p:456:ARG:O	1:p:460:THR:HG23	2.05	0.57
1:t:432:ASP:HA	1:t:454:ALA:H	1.69	0.57
1:x:372:ASN:ND2	1:x:376:THR:O	2.29	0.57
1:6:513:ASN:ND2	1:6:526:THR:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:330:THR:HG21	1:7:395:MET:HB3	1.86	0.57
1:B:381:GLU:OE2	1:C:693:TYR:HB2	2.04	0.57
1:B:432:ASP:HA	1:B:454:ALA:H	1.69	0.57
1:B:456:ARG:O	1:B:460:THR:HG23	2.05	0.57
1:C:330:THR:HG21	1:C:395:MET:HB3	1.86	0.57
1:H:339:TYR:OH	1:H:632:PRO:O	2.21	0.57
1:I:339:TYR:OH	1:I:632:PRO:O	2.21	0.57
1:J:339:TYR:OH	1:J:632:PRO:O	2.21	0.57
1:L:330:THR:HG21	1:L:395:MET:HB3	1.86	0.57
1:O:381:GLU:OE2	1:d:693:TYR:HB2	2.04	0.57
1:T:600:ASP:OD1	1:T:717:THR:OG1	2.21	0.57
1:b:330:THR:HG21	1:b:395:MET:HB3	1.86	0.57
1:f:381:GLU:OE2	1:z:693:TYR:HB2	2.04	0.57
1:g:330:THR:HG21	1:g:395:MET:HB3	1.86	0.57
1:g:693:TYR:HB2	1:l:381:GLU:OE2	2.04	0.57
1:l:381:GLU:OE2	1:n:693:TYR:HB2	2.04	0.57
1:v:456:ARG:O	1:v:460:THR:HG23	2.05	0.57
1:w:600:ASP:OD1	1:w:717:THR:OG1	2.21	0.57
1:y:330:THR:HG21	1:y:395:MET:HB3	1.86	0.57
1:y:456:ARG:O	1:y:460:THR:HG23	2.05	0.57
1:1:432:ASP:HA	1:1:454:ALA:H	1.69	0.57
1:1:456:ARG:O	1:1:460:THR:HG23	2.05	0.57
1:4:432:ASP:HA	1:4:454:ALA:H	1.69	0.57
1:5:600:ASP:OD1	1:5:717:THR:OG1	2.21	0.57
1:8:456:ARG:O	1:8:460:THR:HG23	2.05	0.57
1:C:381:GLU:OE2	1:D:693:TYR:HB2	2.05	0.57
1:K:381:GLU:OE2	1:7:693:TYR:HB2	2.05	0.57
1:N:600:ASP:OD1	1:N:717:THR:OG1	2.21	0.57
1:T:330:THR:HG21	1:T:395:MET:HB3	1.86	0.57
1:X:693:TYR:HB2	1:Y:381:GLU:OE2	2.04	0.57
1:Y:693:TYR:HB2	1:4:381:GLU:OE2	2.05	0.57
1:b:456:ARG:O	1:b:460:THR:HG23	2.05	0.57
1:h:339:TYR:OH	1:h:632:PRO:O	2.21	0.57
1:i:600:ASP:OD1	1:i:717:THR:OG1	2.21	0.57
1:q:432:ASP:HA	1:q:454:ALA:H	1.69	0.57
1:4:372:ASN:ND2	1:4:376:THR:O	2.29	0.57
1:5:339:TYR:OH	1:5:632:PRO:O	2.21	0.57
1:8:432:ASP:HA	1:8:454:ALA:H	1.69	0.57
1:A:456:ARG:O	1:A:460:THR:HG23	2.05	0.57
1:A:600:ASP:OD1	1:A:717:THR:OG1	2.21	0.57
1:G:432:ASP:HA	1:G:454:ALA:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:456:ARG:O	1:K:460:THR:HG23	2.05	0.57
1:O:432:ASP:HA	1:O:454:ALA:H	1.69	0.57
1:Q:456:ARG:O	1:Q:460:THR:HG23	2.05	0.57
1:V:432:ASP:HA	1:V:454:ALA:H	1.69	0.57
1:Y:330:THR:HG21	1:Y:395:MET:HB3	1.86	0.57
1:Z:432:ASP:HA	1:Z:454:ALA:H	1.69	0.57
1:f:456:ARG:O	1:f:460:THR:HG23	2.05	0.57
1:m:330:THR:HG21	1:m:395:MET:HB3	1.86	0.57
1:p:432:ASP:HA	1:p:454:ALA:H	1.69	0.57
1:r:339:TYR:OH	1:r:632:PRO:O	2.21	0.57
1:u:456:ARG:O	1:u:460:THR:HG23	2.05	0.57
1:3:693:TYR:HB2	1:8:381:GLU:OE2	2.05	0.57
1:4:456:ARG:O	1:4:460:THR:HG23	2.05	0.57
1:D:330:THR:HG21	1:D:395:MET:HB3	1.86	0.57
1:E:456:ARG:O	1:E:460:THR:HG23	2.05	0.57
1:I:456:ARG:O	1:I:460:THR:HG23	2.05	0.57
1:J:432:ASP:HA	1:J:454:ALA:H	1.69	0.57
1:L:693:TYR:HB2	1:b:381:GLU:OE2	2.04	0.57
1:N:456:ARG:O	1:N:460:THR:HG23	2.05	0.57
1:Q:372:ASN:ND2	1:Q:376:THR:O	2.29	0.57
1:S:339:TYR:OH	1:S:632:PRO:O	2.21	0.57
1:X:456:ARG:O	1:X:460:THR:HG23	2.05	0.57
1:g:456:ARG:O	1:g:460:THR:HG23	2.05	0.57
1:i:456:ARG:O	1:i:460:THR:HG23	2.05	0.57
1:l:339:TYR:OH	1:l:632:PRO:O	2.21	0.57
1:l:432:ASP:HA	1:l:454:ALA:H	1.69	0.57
1:q:330:THR:HG21	1:q:395:MET:HB3	1.86	0.57
1:q:456:ARG:O	1:q:460:THR:HG23	2.05	0.57
1:r:432:ASP:HA	1:r:454:ALA:H	1.69	0.57
1:w:330:THR:HG21	1:w:395:MET:HB3	1.86	0.57
1:x:456:ARG:O	1:x:460:THR:HG23	2.05	0.57
1:3:432:ASP:HA	1:3:454:ALA:H	1.69	0.57
1:C:456:ARG:O	1:C:460:THR:HG23	2.05	0.56
1:E:330:THR:HG21	1:E:395:MET:HB3	1.86	0.56
1:H:456:ARG:O	1:H:460:THR:HG23	2.05	0.56
1:K:372:ASN:ND2	1:K:376:THR:O	2.29	0.56
1:O:339:TYR:OH	1:O:632:PRO:O	2.21	0.56
1:R:456:ARG:O	1:R:460:THR:HG23	2.05	0.56
1:T:456:ARG:O	1:T:460:THR:HG23	2.05	0.56
1:Y:432:ASP:HA	1:Y:454:ALA:H	1.69	0.56
1:a:432:ASP:HA	1:a:454:ALA:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:432:ASP:HA	1:i:454:ALA:H	1.69	0.56
1:k:330:THR:HG21	1:k:395:MET:HB3	1.86	0.56
1:o:456:ARG:O	1:o:460:THR:HG23	2.05	0.56
1:w:456:ARG:O	1:w:460:THR:HG23	2.05	0.56
1:2:432:ASP:HA	1:2:454:ALA:H	1.69	0.56
1:H:432:ASP:HA	1:H:454:ALA:H	1.69	0.56
1:S:432:ASP:HA	1:S:454:ALA:H	1.69	0.56
1:U:432:ASP:HA	1:U:454:ALA:H	1.69	0.56
1:U:456:ARG:O	1:U:460:THR:HG23	2.05	0.56
1:V:381:GLU:OE2	1:W:693:TYR:HB2	2.04	0.56
1:s:432:ASP:HA	1:s:454:ALA:H	1.69	0.56
1:v:600:ASP:OD1	1:v:717:THR:OG1	2.21	0.56
1:7:432:ASP:HA	1:7:454:ALA:H	1.69	0.56
1:H:693:TYR:HB2	1:I:381:GLU:OE2	2.04	0.56
1:J:456:ARG:O	1:J:460:THR:HG23	2.05	0.56
1:N:432:ASP:HA	1:N:454:ALA:H	1.69	0.56
1:R:330:THR:HG21	1:R:395:MET:HB3	1.86	0.56
1:R:432:ASP:HA	1:R:454:ALA:H	1.69	0.56
1:a:456:ARG:O	1:a:460:THR:HG23	2.05	0.56
1:c:432:ASP:HA	1:c:454:ALA:H	1.69	0.56
1:c:548:LEU:HB3	1:c:714:PRO:HG3	1.88	0.56
1:d:330:THR:HG21	1:d:395:MET:HB3	1.86	0.56
1:i:330:THR:HG21	1:i:395:MET:HB3	1.86	0.56
1:j:432:ASP:HA	1:j:454:ALA:H	1.69	0.56
1:m:456:ARG:O	1:m:460:THR:HG23	2.05	0.56
1:p:381:GLU:OE2	1:6:693:TYR:HB2	2.04	0.56
1:r:372:ASN:ND2	1:r:376:THR:O	2.29	0.56
1:s:456:ARG:O	1:s:460:THR:HG23	2.05	0.56
1:x:432:ASP:HA	1:x:454:ALA:H	1.69	0.56
1:y:432:ASP:HA	1:y:454:ALA:H	1.69	0.56
1:2:456:ARG:O	1:2:460:THR:HG23	2.05	0.56
1:3:456:ARG:O	1:3:460:THR:HG23	2.05	0.56
1:5:432:ASP:HA	1:5:454:ALA:H	1.69	0.56
1:5:456:ARG:O	1:5:460:THR:HG23	2.05	0.56
1:8:548:LEU:HB3	1:8:714:PRO:HG3	1.88	0.56
1:A:432:ASP:HA	1:A:454:ALA:H	1.69	0.56
1:N:330:THR:HG21	1:N:395:MET:HB3	1.86	0.56
1:P:432:ASP:HA	1:P:454:ALA:H	1.69	0.56
1:S:372:ASN:ND2	1:S:376:THR:O	2.29	0.56
1:i:548:LEU:HB3	1:i:714:PRO:HG3	1.88	0.56
1:n:432:ASP:HA	1:n:454:ALA:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:372:ASN:ND2	1:u:376:THR:O	2.29	0.56
1:F:432:ASP:HA	1:F:454:ALA:H	1.69	0.56
1:I:330:THR:HG21	1:I:395:MET:HB3	1.86	0.56
1:N:548:LEU:HB3	1:N:714:PRO:HG3	1.88	0.56
1:R:548:LEU:HB3	1:R:714:PRO:HG3	1.88	0.56
1:T:372:ASN:ND2	1:T:376:THR:O	2.29	0.56
1:W:456:ARG:O	1:W:460:THR:HG23	2.05	0.56
1:Z:548:LEU:HB3	1:Z:714:PRO:HG3	1.88	0.56
1:d:432:ASP:HA	1:d:454:ALA:H	1.69	0.56
1:e:432:ASP:HA	1:e:454:ALA:H	1.69	0.56
1:e:548:LEU:HB3	1:e:714:PRO:HG3	1.88	0.56
1:m:372:ASN:ND2	1:m:376:THR:O	2.29	0.56
1:n:330:THR:HG21	1:n:395:MET:HB3	1.86	0.56
1:q:548:LEU:HB3	1:q:714:PRO:HG3	1.88	0.56
1:u:330:THR:HG21	1:u:395:MET:HB3	1.86	0.56
1:u:381:GLU:OE2	1:5:693:TYR:HB2	2.04	0.56
1:6:456:ARG:O	1:6:460:THR:HG23	2.05	0.56
1:M:456:ARG:O	1:M:460:THR:HG23	2.05	0.56
1:N:693:TYR:HB2	1:m:381:GLU:OE2	2.05	0.56
1:Q:432:ASP:HA	1:Q:454:ALA:H	1.69	0.56
1:T:381:GLU:OE2	1:i:693:TYR:HB2	2.04	0.56
1:U:330:THR:HG21	1:U:395:MET:HB3	1.86	0.56
1:V:548:LEU:HB3	1:V:714:PRO:HG3	1.88	0.56
1:j:339:TYR:OH	1:j:632:PRO:O	2.21	0.56
1:p:548:LEU:HB3	1:p:714:PRO:HG3	1.88	0.56
1:s:330:THR:HG21	1:s:395:MET:HB3	1.86	0.56
1:I:372:ASN:ND2	1:I:376:THR:O	2.29	0.56
1:O:456:ARG:O	1:O:460:THR:HG23	2.05	0.56
1:V:372:ASN:ND2	1:V:376:THR:O	2.29	0.56
1:b:548:LEU:HB3	1:b:714:PRO:HG3	1.88	0.56
1:n:456:ARG:O	1:n:460:THR:HG23	2.05	0.56
1:v:372:ASN:ND2	1:v:376:THR:O	2.29	0.56
1:v:695:ASP:HA	1:w:373:ARG:NH1	2.10	0.56
1:J:548:LEU:HB3	1:J:714:PRO:HG3	1.88	0.56
1:Q:330:THR:HG21	1:Q:395:MET:HB3	1.86	0.56
1:S:456:ARG:O	1:S:460:THR:HG23	2.05	0.56
1:T:548:LEU:HB3	1:T:714:PRO:HG3	1.88	0.56
1:d:456:ARG:O	1:d:460:THR:HG23	2.05	0.56
1:f:548:LEU:HB3	1:f:714:PRO:HG3	1.88	0.56
1:g:548:LEU:HB3	1:g:714:PRO:HG3	1.88	0.56
1:l:456:ARG:O	1:l:460:THR:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:548:LEU:HB3	1:l:714:PRO:HG3	1.88	0.56
1:o:548:LEU:HB3	1:o:714:PRO:HG3	1.88	0.56
1:r:456:ARG:O	1:r:460:THR:HG23	2.05	0.56
1:v:339:TYR:OH	1:v:632:PRO:O	2.21	0.56
1:v:432:ASP:HA	1:v:454:ALA:H	1.69	0.56
1:A:339:TYR:OH	1:A:632:PRO:O	2.21	0.56
1:C:548:LEU:HB3	1:C:714:PRO:HG3	1.88	0.56
1:F:548:LEU:HB3	1:F:714:PRO:HG3	1.88	0.56
1:O:548:LEU:HB3	1:O:714:PRO:HG3	1.88	0.56
1:P:339:TYR:OH	1:P:632:PRO:O	2.21	0.56
1:S:548:LEU:HB3	1:S:714:PRO:HG3	1.88	0.56
1:T:432:ASP:HA	1:T:454:ALA:H	1.69	0.56
1:X:548:LEU:HB3	1:X:714:PRO:HG3	1.88	0.56
1:Y:456:ARG:O	1:Y:460:THR:HG23	2.05	0.56
1:h:456:ARG:O	1:h:460:THR:HG23	2.05	0.56
1:m:432:ASP:HA	1:m:454:ALA:H	1.69	0.56
1:p:372:ASN:ND2	1:p:376:THR:O	2.29	0.56
1:r:548:LEU:HB3	1:r:714:PRO:HG3	1.88	0.56
1:x:330:THR:HG21	1:x:395:MET:HB3	1.86	0.56
1:y:548:LEU:HB3	1:y:714:PRO:HG3	1.88	0.56
1:2:548:LEU:HB3	1:2:714:PRO:HG3	1.88	0.56
1:5:548:LEU:HB3	1:5:714:PRO:HG3	1.88	0.56
1:7:456:ARG:O	1:7:460:THR:HG23	2.05	0.56
1:A:695:ASP:HA	1:E:373:ARG:NH1	2.10	0.56
1:D:548:LEU:HB3	1:D:714:PRO:HG3	1.88	0.56
1:H:548:LEU:HB3	1:H:714:PRO:HG3	1.88	0.56
1:a:339:TYR:OH	1:a:632:PRO:O	2.21	0.56
1:j:548:LEU:HB3	1:j:714:PRO:HG3	1.88	0.56
1:m:548:LEU:HB3	1:m:714:PRO:HG3	1.88	0.56
1:o:372:ASN:ND2	1:o:376:THR:O	2.29	0.56
1:7:372:ASN:ND2	1:7:376:THR:O	2.29	0.56
1:A:372:ASN:ND2	1:A:376:THR:O	2.29	0.55
1:P:548:LEU:HB3	1:P:714:PRO:HG3	1.88	0.55
1:Y:372:ASN:ND2	1:Y:376:THR:O	2.29	0.55
1:g:339:TYR:OH	1:g:632:PRO:O	2.21	0.55
1:1:339:TYR:OH	1:1:632:PRO:O	2.21	0.55
1:3:339:TYR:OH	1:3:632:PRO:O	2.21	0.55
1:k:548:LEU:HB3	1:k:714:PRO:HG3	1.88	0.55
1:3:391:PHE:CZ	1:4:681:LYS:HG3	2.42	0.55
1:3:548:LEU:HB3	1:3:714:PRO:HG3	1.88	0.55
1:C:339:TYR:OH	1:C:632:PRO:O	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:391:PHE:CZ	1:F:681:LYS:HG3	2.42	0.55
1:d:681:LYS:HG3	1:l:391:PHE:CZ	2.42	0.55
1:s:372:ASN:ND2	1:s:376:THR:O	2.29	0.55
1:B:339:TYR:OH	1:B:632:PRO:O	2.21	0.55
1:M:391:PHE:CZ	1:b:681:LYS:HG3	2.42	0.55
1:O:391:PHE:CZ	1:n:681:LYS:HG3	2.41	0.55
1:X:372:ASN:ND2	1:X:376:THR:O	2.29	0.55
1:X:391:PHE:CZ	1:e:681:LYS:HG3	2.42	0.55
1:w:391:PHE:CZ	1:y:681:LYS:HG3	2.42	0.55
1:6:372:ASN:ND2	1:6:376:THR:O	2.29	0.55
1:B:548:LEU:HB3	1:B:714:PRO:HG3	1.88	0.55
1:M:548:LEU:HB3	1:M:714:PRO:HG3	1.88	0.55
1:W:372:ASN:ND2	1:W:376:THR:O	2.29	0.55
1:W:548:LEU:HB3	1:W:714:PRO:HG3	1.88	0.55
1:a:548:LEU:HB3	1:a:714:PRO:HG3	1.88	0.55
1:c:681:LYS:HG3	1:o:391:PHE:CZ	2.42	0.55
1:f:339:TYR:OH	1:f:632:PRO:O	2.21	0.55
1:6:548:LEU:HB3	1:6:714:PRO:HG3	1.88	0.55
1:G:548:LEU:HB3	1:G:714:PRO:HG3	1.88	0.55
1:Y:548:LEU:HB3	1:Y:714:PRO:HG3	1.88	0.55
1:f:681:LYS:HG3	1:h:391:PHE:CZ	2.42	0.55
1:o:681:LYS:HG3	1:p:391:PHE:CZ	2.42	0.55
1:w:372:ASN:ND2	1:w:376:THR:O	2.29	0.55
1:7:548:LEU:HB3	1:7:714:PRO:HG3	1.88	0.55
1:K:548:LEU:HB3	1:K:714:PRO:HG3	1.88	0.55
1:N:513:ASN:ND2	1:N:526:THR:HG22	2.04	0.55
1:V:391:PHE:CZ	1:X:681:LYS:HG3	2.42	0.55
1:a:681:LYS:HG3	1:8:391:PHE:CZ	2.42	0.55
1:h:548:LEU:HB3	1:h:714:PRO:HG3	1.88	0.55
1:t:548:LEU:HB3	1:t:714:PRO:HG3	1.88	0.55
1:1:372:ASN:ND2	1:1:376:THR:O	2.29	0.55
1:1:548:LEU:HB3	1:1:714:PRO:HG3	1.88	0.55
1:4:548:LEU:HB3	1:4:714:PRO:HG3	1.88	0.55
1:H:681:LYS:HG3	1:W:391:PHE:CZ	2.42	0.55
1:U:372:ASN:ND2	1:U:376:THR:O	2.29	0.55
1:g:391:PHE:CZ	1:h:681:LYS:HG3	2.42	0.55
1:K:681:LYS:HG3	1:a:391:PHE:CZ	2.42	0.55
1:L:548:LEU:HB3	1:L:714:PRO:HG3	1.88	0.55
1:T:373:ARG:NH1	1:i:695:ASP:HA	2.11	0.55
1:T:681:LYS:HG3	1:d:391:PHE:CZ	2.42	0.55
1:b:339:TYR:OH	1:b:632:PRO:O	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:681:LYS:HG3	1:n:391:PHE:CZ	2.42	0.55
1:w:681:LYS:HG3	1:x:391:PHE:CZ	2.42	0.55
1:5:681:LYS:HG3	1:6:391:PHE:CZ	2.42	0.55
1:B:372:ASN:ND2	1:B:376:THR:O	2.29	0.55
1:B:391:PHE:CZ	1:L:681:LYS:HG3	2.42	0.55
1:C:391:PHE:CZ	1:M:681:LYS:HG3	2.42	0.55
1:C:681:LYS:HG3	1:b:391:PHE:CZ	2.42	0.55
1:E:372:ASN:ND2	1:E:376:THR:O	2.29	0.55
1:E:681:LYS:HG3	1:Q:391:PHE:CZ	2.42	0.55
1:G:476:ASN:ND2	1:G:520:THR:OG1	2.41	0.55
1:L:476:ASN:ND2	1:L:520:THR:OG1	2.40	0.55
1:Q:339:TYR:OH	1:Q:632:PRO:O	2.21	0.55
1:a:476:ASN:ND2	1:a:520:THR:OG1	2.40	0.55
1:d:372:ASN:ND2	1:d:376:THR:O	2.29	0.55
1:j:681:LYS:HG3	1:k:391:PHE:CZ	2.42	0.55
1:t:476:ASN:ND2	1:t:520:THR:OG1	2.40	0.55
1:w:548:LEU:HB3	1:w:714:PRO:HG3	1.88	0.55
1:z:476:ASN:ND2	1:z:520:THR:OG1	2.40	0.55
1:E:476:ASN:ND2	1:E:520:THR:OG1	2.41	0.54
1:E:548:LEU:HB3	1:E:714:PRO:HG3	1.88	0.54
1:H:476:ASN:ND2	1:H:520:THR:OG1	2.41	0.54
1:R:391:PHE:CZ	1:U:681:LYS:HG3	2.42	0.54
1:S:681:LYS:HG3	1:U:391:PHE:CZ	2.42	0.54
1:c:476:ASN:ND2	1:c:520:THR:OG1	2.41	0.54
1:d:548:LEU:HB3	1:d:714:PRO:HG3	1.88	0.54
1:e:476:ASN:ND2	1:e:520:THR:OG1	2.41	0.54
1:f:391:PHE:CZ	1:g:681:LYS:HG3	2.42	0.54
1:n:548:LEU:HB3	1:n:714:PRO:HG3	1.88	0.54
1:w:476:ASN:ND2	1:w:520:THR:OG1	2.41	0.54
1:z:548:LEU:HB3	1:z:714:PRO:HG3	1.88	0.54
1:z:681:LYS:HG3	1:1:391:PHE:CZ	2.42	0.54
1:5:476:ASN:ND2	1:5:520:THR:OG1	2.41	0.54
1:C:372:ASN:ND2	1:C:376:THR:O	2.29	0.54
1:C:476:ASN:ND2	1:C:520:THR:OG1	2.40	0.54
1:F:391:PHE:CZ	1:Q:681:LYS:HG3	2.42	0.54
1:Q:548:LEU:HB3	1:Q:714:PRO:HG3	1.88	0.54
1:V:476:ASN:ND2	1:V:520:THR:OG1	2.40	0.54
1:Z:391:PHE:CZ	1:3:681:LYS:HG3	2.42	0.54
1:Z:476:ASN:ND2	1:Z:520:THR:OG1	2.40	0.54
1:k:339:TYR:OH	1:k:632:PRO:O	2.21	0.54
1:q:372:ASN:ND2	1:q:376:THR:O	2.29	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:391:PHE:CZ	1:s:681:LYS:HG3	2.42	0.54
1:r:681:LYS:HG3	1:s:391:PHE:CZ	2.42	0.54
1:x:548:LEU:HB3	1:x:714:PRO:HG3	1.88	0.54
1:3:476:ASN:ND2	1:3:520:THR:OG1	2.41	0.54
1:8:476:ASN:ND2	1:8:520:THR:OG1	2.41	0.54
1:B:681:LYS:HG3	1:J:391:PHE:CZ	2.42	0.54
1:J:681:LYS:HG3	1:L:391:PHE:CZ	2.42	0.54
1:R:681:LYS:HG3	1:S:391:PHE:CZ	2.42	0.54
1:U:548:LEU:HB3	1:U:714:PRO:HG3	1.88	0.54
1:g:372:ASN:ND2	1:g:376:THR:O	2.29	0.54
1:p:476:ASN:ND2	1:p:520:THR:OG1	2.40	0.54
1:q:681:LYS:HG3	1:r:391:PHE:CZ	2.42	0.54
1:x:681:LYS:HG3	1:y:391:PHE:CZ	2.42	0.54
1:z:391:PHE:CZ	1:2:681:LYS:HG3	2.42	0.54
1:A:476:ASN:ND2	1:A:520:THR:OG1	2.40	0.54
1:A:681:LYS:HG3	1:G:391:PHE:CZ	2.41	0.54
1:D:339:TYR:OH	1:D:632:PRO:O	2.21	0.54
1:D:391:PHE:CZ	1:P:681:LYS:HG3	2.42	0.54
1:O:681:LYS:HG3	1:m:391:PHE:CZ	2.43	0.54
1:T:391:PHE:CZ	1:l:681:LYS:HG3	2.43	0.54
1:X:476:ASN:ND2	1:X:520:THR:OG1	2.41	0.54
1:Y:476:ASN:ND2	1:Y:520:THR:OG1	2.41	0.54
1:g:476:ASN:ND2	1:g:520:THR:OG1	2.41	0.54
1:s:548:LEU:HB3	1:s:714:PRO:HG3	1.88	0.54
1:1:681:LYS:HG3	1:2:391:PHE:CZ	2.42	0.54
1:7:476:ASN:ND2	1:7:520:THR:OG1	2.41	0.54
1:8:372:ASN:ND2	1:8:376:THR:O	2.29	0.54
1:I:548:LEU:HB3	1:I:714:PRO:HG3	1.88	0.54
1:J:476:ASN:ND2	1:J:520:THR:OG1	2.40	0.54
1:O:476:ASN:ND2	1:O:520:THR:OG1	2.41	0.54
1:S:476:ASN:ND2	1:S:520:THR:OG1	2.40	0.54
1:a:678:GLU:OE2	1:a:680:SER:OG	2.22	0.54
1:d:476:ASN:ND2	1:d:520:THR:OG1	2.40	0.54
1:n:372:ASN:ND2	1:n:376:THR:O	2.29	0.54
1:o:476:ASN:ND2	1:o:520:THR:OG1	2.40	0.54
1:v:476:ASN:ND2	1:v:520:THR:OG1	2.40	0.54
1:2:476:ASN:ND2	1:2:520:THR:OG1	2.40	0.54
1:F:476:ASN:ND2	1:F:520:THR:OG1	2.40	0.54
1:P:476:ASN:ND2	1:P:520:THR:OG1	2.40	0.54
1:R:372:ASN:ND2	1:R:376:THR:O	2.29	0.54
1:l:476:ASN:ND2	1:l:520:THR:OG1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:476:ASN:ND2	1:n:520:THR:OG1	2.40	0.54
1:r:476:ASN:ND2	1:r:520:THR:OG1	2.40	0.54
1:y:476:ASN:ND2	1:y:520:THR:OG1	2.40	0.54
1:3:678:GLU:OE2	1:3:680:SER:OG	2.22	0.54
1:H:391:PHE:CZ	1:Y:681:LYS:HG3	2.43	0.54
1:I:476:ASN:ND2	1:I:520:THR:OG1	2.40	0.54
1:Z:372:ASN:ND2	1:Z:376:THR:O	2.29	0.54
1:j:476:ASN:ND2	1:j:520:THR:OG1	2.41	0.54
1:q:476:ASN:ND2	1:q:520:THR:OG1	2.40	0.54
1:t:391:PHE:CZ	1:v:681:LYS:HG3	2.42	0.54
1:u:476:ASN:ND2	1:u:520:THR:OG1	2.40	0.54
1:u:548:LEU:HB3	1:u:714:PRO:HG3	1.88	0.54
1:4:476:ASN:ND2	1:4:520:THR:OG1	2.40	0.54
1:5:391:PHE:CZ	1:7:681:LYS:HG3	2.43	0.54
1:8:339:TYR:OH	1:8:632:PRO:O	2.21	0.54
1:G:678:GLU:OE2	1:G:680:SER:OG	2.22	0.54
1:K:476:ASN:ND2	1:K:520:THR:OG1	2.40	0.54
1:N:476:ASN:ND2	1:N:520:THR:OG1	2.40	0.54
1:R:476:ASN:ND2	1:R:520:THR:OG1	2.40	0.54
1:W:476:ASN:ND2	1:W:520:THR:OG1	2.41	0.54
1:i:476:ASN:ND2	1:i:520:THR:OG1	2.41	0.54
1:v:548:LEU:HB3	1:v:714:PRO:HG3	1.88	0.54
1:6:476:ASN:ND2	1:6:520:THR:OG1	2.40	0.54
1:6:681:LYS:HG3	1:7:391:PHE:CZ	2.42	0.54
1:A:548:LEU:HB3	1:A:714:PRO:HG3	1.88	0.54
1:N:681:LYS:HG3	1:P:391:PHE:CZ	2.42	0.54
1:W:681:LYS:HG3	1:Y:391:PHE:CZ	2.42	0.54
1:i:681:LYS:HG3	1:j:391:PHE:CZ	2.43	0.54
1:p:339:TYR:OH	1:p:632:PRO:O	2.21	0.54
1:t:681:LYS:HG3	1:u:391:PHE:CZ	2.42	0.54
1:v:227:ASP:O	1:v:675:LEU:HB2	2.08	0.54
1:5:227:ASP:O	1:5:675:LEU:HB2	2.08	0.54
1:A:227:ASP:O	1:A:675:LEU:HB2	2.08	0.54
1:A:391:PHE:CZ	1:I:681:LYS:HG3	2.42	0.54
1:H:227:ASP:O	1:H:675:LEU:HB2	2.08	0.54
1:T:476:ASN:ND2	1:T:520:THR:OG1	2.40	0.54
1:Z:339:TYR:OH	1:Z:632:PRO:O	2.21	0.54
1:Z:681:LYS:HG3	1:4:391:PHE:CZ	2.43	0.54
1:g:227:ASP:O	1:g:675:LEU:HB2	2.08	0.54
1:s:476:ASN:ND2	1:s:520:THR:OG1	2.40	0.54
1:C:227:ASP:O	1:C:675:LEU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:227:ASP:O	1:E:675:LEU:HB2	2.08	0.53
1:K:391:PHE:CZ	1:8:681:LYS:HG3	2.43	0.53
1:L:227:ASP:O	1:L:675:LEU:HB2	2.08	0.53
1:U:476:ASN:ND2	1:U:520:THR:OG1	2.40	0.53
1:c:391:PHE:CZ	1:p:681:LYS:HG3	2.42	0.53
1:m:476:ASN:ND2	1:m:520:THR:OG1	2.40	0.53
1:s:227:ASP:O	1:s:675:LEU:HB2	2.08	0.53
1:u:681:LYS:HG3	1:v:391:PHE:CZ	2.42	0.53
1:w:227:ASP:O	1:w:675:LEU:HB2	2.08	0.53
1:x:476:ASN:ND2	1:x:520:THR:OG1	2.40	0.53
1:z:227:ASP:O	1:z:675:LEU:HB2	2.08	0.53
1:2:227:ASP:O	1:2:675:LEU:HB2	2.08	0.53
1:F:227:ASP:O	1:F:675:LEU:HB2	2.08	0.53
1:Q:476:ASN:ND2	1:Q:520:THR:OG1	2.40	0.53
1:U:227:ASP:O	1:U:675:LEU:HB2	2.08	0.53
1:V:681:LYS:HG3	1:e:391:PHE:CZ	2.42	0.53
1:X:488:ALA:HB3	1:e:439:VAL:O	2.09	0.53
1:a:227:ASP:O	1:a:675:LEU:HB2	2.08	0.53
1:c:439:VAL:O	1:o:488:ALA:HB3	2.09	0.53
1:k:476:ASN:ND2	1:k:520:THR:OG1	2.40	0.53
1:D:476:ASN:ND2	1:D:520:THR:OG1	2.41	0.53
1:D:488:ALA:HB3	1:P:439:VAL:O	2.08	0.53
1:G:681:LYS:HG3	1:I:391:PHE:CZ	2.43	0.53
1:J:227:ASP:O	1:J:675:LEU:HB2	2.08	0.53
1:M:476:ASN:ND2	1:M:520:THR:OG1	2.41	0.53
1:S:439:VAL:O	1:U:488:ALA:HB3	2.09	0.53
1:f:476:ASN:ND2	1:f:520:THR:OG1	2.41	0.53
1:h:476:ASN:ND2	1:h:520:THR:OG1	2.41	0.53
1:r:439:VAL:O	1:s:488:ALA:HB3	2.09	0.53
1:y:227:ASP:O	1:y:675:LEU:HB2	2.08	0.53
1:3:227:ASP:O	1:3:675:LEU:HB2	2.08	0.53
1:G:472:THR:HG22	1:G:562:ALA:HB1	1.91	0.53
1:N:439:VAL:O	1:P:488:ALA:HB3	2.08	0.53
1:O:227:ASP:O	1:O:675:LEU:HB2	2.08	0.53
1:b:476:ASN:ND2	1:b:520:THR:OG1	2.41	0.53
1:j:439:VAL:O	1:k:488:ALA:HB3	2.08	0.53
1:t:472:THR:HG22	1:t:562:ALA:HB1	1.91	0.53
1:1:476:ASN:ND2	1:1:520:THR:OG1	2.40	0.53
1:4:472:THR:HG22	1:4:562:ALA:HB1	1.91	0.53
1:6:472:THR:HG22	1:6:562:ALA:HB1	1.91	0.53
1:K:472:THR:HG22	1:K:562:ALA:HB1	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:439:VAL:O	1:Y:488:ALA:HB3	2.09	0.53
1:W:472:THR:HG22	1:W:562:ALA:HB1	1.91	0.53
1:l:227:ASP:O	1:l:675:LEU:HB2	2.08	0.53
1:o:227:ASP:O	1:o:675:LEU:HB2	2.08	0.53
1:t:439:VAL:O	1:u:488:ALA:HB3	2.09	0.53
1:6:439:VAL:O	1:7:488:ALA:HB3	2.09	0.53
1:B:476:ASN:ND2	1:B:520:THR:OG1	2.41	0.53
1:C:472:THR:HG22	1:C:562:ALA:HB1	1.91	0.53
1:H:472:THR:HG22	1:H:562:ALA:HB1	1.91	0.53
1:O:488:ALA:HB3	1:n:439:VAL:O	2.09	0.53
1:P:472:THR:HG22	1:P:562:ALA:HB1	1.91	0.53
1:Q:227:ASP:O	1:Q:675:LEU:HB2	2.08	0.53
1:S:227:ASP:O	1:S:675:LEU:HB2	2.08	0.53
1:X:227:ASP:O	1:X:675:LEU:HB2	2.08	0.53
1:X:472:THR:HG22	1:X:562:ALA:HB1	1.91	0.53
1:Z:472:THR:HG22	1:Z:562:ALA:HB1	1.91	0.53
1:Z:488:ALA:HB3	1:3:439:VAL:O	2.08	0.53
1:c:472:THR:HG22	1:c:562:ALA:HB1	1.91	0.53
1:e:472:THR:HG22	1:e:562:ALA:HB1	1.91	0.53
1:i:472:THR:HG22	1:i:562:ALA:HB1	1.91	0.53
1:k:227:ASP:O	1:k:675:LEU:HB2	2.08	0.53
1:q:439:VAL:O	1:r:488:ALA:HB3	2.09	0.53
1:w:472:THR:HG22	1:w:562:ALA:HB1	1.91	0.53
1:2:472:THR:HG22	1:2:562:ALA:HB1	1.91	0.53
1:5:472:THR:HG22	1:5:562:ALA:HB1	1.91	0.53
1:8:472:THR:HG22	1:8:562:ALA:HB1	1.91	0.53
1:B:227:ASP:O	1:B:675:LEU:HB2	2.08	0.53
1:D:227:ASP:O	1:D:675:LEU:HB2	2.08	0.53
1:D:681:LYS:HG3	1:N:391:PHE:CZ	2.42	0.53
1:E:472:THR:HG22	1:E:562:ALA:HB1	1.91	0.53
1:J:472:THR:HG22	1:J:562:ALA:HB1	1.91	0.53
1:K:227:ASP:O	1:K:675:LEU:HB2	2.08	0.53
1:M:227:ASP:O	1:M:675:LEU:HB2	2.08	0.53
1:N:472:THR:HG22	1:N:562:ALA:HB1	1.91	0.53
1:R:439:VAL:O	1:S:488:ALA:HB3	2.09	0.53
1:d:439:VAL:O	1:l:488:ALA:HB3	2.09	0.53
1:d:472:THR:HG22	1:d:562:ALA:HB1	1.91	0.53
1:h:227:ASP:O	1:h:675:LEU:HB2	2.08	0.53
1:i:391:PHE:CZ	1:k:681:LYS:HG3	2.42	0.53
1:i:439:VAL:O	1:j:488:ALA:HB3	2.08	0.53
1:j:472:THR:HG22	1:j:562:ALA:HB1	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:227:ASP:O	1:n:675:LEU:HB2	2.08	0.53
1:n:472:THR:HG22	1:n:562:ALA:HB1	1.91	0.53
1:o:472:THR:HG22	1:o:562:ALA:HB1	1.91	0.53
1:r:227:ASP:O	1:r:675:LEU:HB2	2.08	0.53
1:w:488:ALA:HB3	1:y:439:VAL:O	2.09	0.53
1:x:227:ASP:O	1:x:675:LEU:HB2	2.08	0.53
1:J:436:TYR:CE2	1:L:530:ASN:HB2	2.44	0.53
1:d:227:ASP:O	1:d:675:LEU:HB2	2.08	0.53
1:g:472:THR:HG22	1:g:562:ALA:HB1	1.91	0.53
1:i:227:ASP:O	1:i:675:LEU:HB2	2.08	0.53
1:w:439:VAL:O	1:x:488:ALA:HB3	2.09	0.53
1:D:436:TYR:CE2	1:N:530:ASN:HB2	2.44	0.53
1:E:488:ALA:HB3	1:F:439:VAL:O	2.09	0.53
1:F:472:THR:HG22	1:F:562:ALA:HB1	1.91	0.53
1:M:488:ALA:HB3	1:b:439:VAL:O	2.09	0.53
1:Y:472:THR:HG22	1:Y:562:ALA:HB1	1.91	0.53
1:b:227:ASP:O	1:b:675:LEU:HB2	2.08	0.53
1:b:472:THR:HG22	1:b:562:ALA:HB1	1.91	0.53
1:c:227:ASP:O	1:c:675:LEU:HB2	2.08	0.53
1:f:227:ASP:O	1:f:675:LEU:HB2	2.08	0.53
1:f:439:VAL:O	1:h:488:ALA:HB3	2.09	0.53
1:n:339:TYR:OH	1:n:632:PRO:O	2.21	0.53
1:z:488:ALA:HB3	1:2:439:VAL:O	2.09	0.53
1:z:530:ASN:HB2	1:2:436:TYR:CE2	2.44	0.53
1:1:227:ASP:O	1:1:675:LEU:HB2	2.08	0.53
1:3:530:ASN:HB2	1:4:436:TYR:CE2	2.44	0.53
1:4:227:ASP:O	1:4:675:LEU:HB2	2.08	0.53
1:B:436:TYR:CE2	1:J:530:ASN:HB2	2.44	0.53
1:D:439:VAL:O	1:N:488:ALA:HB3	2.09	0.53
1:E:436:TYR:CE2	1:Q:530:ASN:HB2	2.44	0.53
1:E:439:VAL:O	1:Q:488:ALA:HB3	2.09	0.53
1:H:439:VAL:O	1:W:488:ALA:HB3	2.08	0.53
1:I:227:ASP:O	1:I:675:LEU:HB2	2.08	0.53
1:J:439:VAL:O	1:L:488:ALA:HB3	2.09	0.53
1:N:227:ASP:O	1:N:675:LEU:HB2	2.08	0.53
1:R:227:ASP:O	1:R:675:LEU:HB2	2.08	0.53
1:R:488:ALA:HB3	1:U:439:VAL:O	2.09	0.53
1:T:227:ASP:O	1:T:675:LEU:HB2	2.08	0.53
1:T:439:VAL:O	1:d:488:ALA:HB3	2.09	0.53
1:f:472:THR:HG22	1:f:562:ALA:HB1	1.91	0.53
1:i:488:ALA:HB3	1:k:439:VAL:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:530:ASN:HB2	1:k:436:TYR:CE2	2.44	0.53
1:m:227:ASP:O	1:m:675:LEU:HB2	2.08	0.53
1:q:227:ASP:O	1:q:675:LEU:HB2	2.08	0.53
1:u:227:ASP:O	1:u:675:LEU:HB2	2.08	0.53
1:y:472:THR:HG22	1:y:562:ALA:HB1	1.91	0.53
1:5:439:VAL:O	1:6:488:ALA:HB3	2.08	0.53
1:7:472:THR:HG22	1:7:562:ALA:HB1	1.91	0.53
1:B:472:THR:HG22	1:B:562:ALA:HB1	1.91	0.52
1:C:530:ASN:HB2	1:M:436:TYR:CE2	2.44	0.52
1:D:530:ASN:HB2	1:P:436:TYR:CE2	2.44	0.52
1:E:530:ASN:HB2	1:F:436:TYR:CE2	2.44	0.52
1:G:227:ASP:O	1:G:675:LEU:HB2	2.08	0.52
1:H:436:TYR:CE2	1:W:530:ASN:HB2	2.44	0.52
1:P:227:ASP:O	1:P:675:LEU:HB2	2.08	0.52
1:R:436:TYR:CE2	1:S:530:ASN:HB2	2.45	0.52
1:Y:227:ASP:O	1:Y:675:LEU:HB2	2.08	0.52
1:e:227:ASP:O	1:e:675:LEU:HB2	2.08	0.52
1:j:227:ASP:O	1:j:675:LEU:HB2	2.08	0.52
1:p:227:ASP:O	1:p:675:LEU:HB2	2.08	0.52
1:q:436:TYR:CE2	1:r:530:ASN:HB2	2.45	0.52
1:q:488:ALA:HB3	1:s:439:VAL:O	2.09	0.52
1:w:436:TYR:CE2	1:x:530:ASN:HB2	2.45	0.52
1:x:678:GLU:OE2	1:x:680:SER:OG	2.22	0.52
1:1:436:TYR:CE2	1:2:530:ASN:HB2	2.44	0.52
1:5:436:TYR:CE2	1:6:530:ASN:HB2	2.44	0.52
1:7:227:ASP:O	1:7:675:LEU:HB2	2.08	0.52
1:F:530:ASN:HB2	1:Q:436:TYR:CE2	2.44	0.52
1:H:530:ASN:HB2	1:Y:436:TYR:CE2	2.45	0.52
1:V:227:ASP:O	1:V:675:LEU:HB2	2.08	0.52
1:V:436:TYR:CE2	1:e:530:ASN:HB2	2.45	0.52
1:f:488:ALA:HB3	1:g:439:VAL:O	2.09	0.52
1:g:530:ASN:HB2	1:h:436:TYR:CE2	2.45	0.52
1:j:436:TYR:CE2	1:k:530:ASN:HB2	2.44	0.52
1:m:439:VAL:O	1:n:488:ALA:HB3	2.09	0.52
1:w:530:ASN:HB2	1:y:436:TYR:CE2	2.44	0.52
1:x:472:THR:HG22	1:x:562:ALA:HB1	1.91	0.52
1:z:439:VAL:O	1:1:488:ALA:HB3	2.09	0.52
1:A:488:ALA:HB3	1:I:439:VAL:O	2.09	0.52
1:B:488:ALA:HB3	1:L:439:VAL:O	2.09	0.52
1:B:530:ASN:HB2	1:L:436:TYR:CE2	2.44	0.52
1:N:436:TYR:CE2	1:P:530:ASN:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:227:ASP:O	1:W:675:LEU:HB2	2.08	0.52
1:W:436:TYR:CE2	1:Y:530:ASN:HB2	2.44	0.52
1:Z:227:ASP:O	1:Z:675:LEU:HB2	2.08	0.52
1:a:439:VAL:O	1:8:488:ALA:HB3	2.09	0.52
1:c:436:TYR:CE2	1:o:530:ASN:HB2	2.44	0.52
1:c:530:ASN:HB2	1:p:436:TYR:CE2	2.45	0.52
1:d:339:TYR:OH	1:d:632:PRO:O	2.21	0.52
1:g:488:ALA:HB3	1:h:439:VAL:O	2.09	0.52
1:i:436:TYR:CE2	1:j:530:ASN:HB2	2.45	0.52
1:s:472:THR:HG22	1:s:562:ALA:HB1	1.91	0.52
1:t:227:ASP:O	1:t:675:LEU:HB2	2.08	0.52
1:u:472:THR:HG22	1:u:562:ALA:HB1	1.91	0.52
1:x:436:TYR:CE2	1:y:530:ASN:HB2	2.44	0.52
1:1:472:THR:HG22	1:1:562:ALA:HB1	1.91	0.52
1:5:530:ASN:HB2	1:7:436:TYR:CE2	2.45	0.52
1:6:436:TYR:CE2	1:7:530:ASN:HB2	2.44	0.52
1:8:227:ASP:O	1:8:675:LEU:HB2	2.08	0.52
1:A:439:VAL:O	1:G:488:ALA:HB3	2.08	0.52
1:C:439:VAL:O	1:b:488:ALA:HB3	2.09	0.52
1:G:439:VAL:O	1:I:488:ALA:HB3	2.10	0.52
1:I:472:THR:HG22	1:I:562:ALA:HB1	1.91	0.52
1:O:372:ASN:ND2	1:O:376:THR:O	2.29	0.52
1:O:472:THR:HG22	1:O:562:ALA:HB1	1.91	0.52
1:Q:472:THR:HG22	1:Q:562:ALA:HB1	1.91	0.52
1:X:530:ASN:HB2	1:e:436:TYR:CE2	2.44	0.52
1:l:372:ASN:ND2	1:l:376:THR:O	2.29	0.52
1:l:472:THR:HG22	1:l:562:ALA:HB1	1.91	0.52
1:m:472:THR:HG22	1:m:562:ALA:HB1	1.91	0.52
1:t:488:ALA:HB3	1:v:439:VAL:O	2.09	0.52
1:t:530:ASN:HB2	1:v:436:TYR:CE2	2.44	0.52
1:u:439:VAL:O	1:v:488:ALA:HB3	2.09	0.52
1:x:439:VAL:O	1:y:488:ALA:HB3	2.09	0.52
1:z:436:TYR:CE2	1:1:530:ASN:HB2	2.44	0.52
1:3:488:ALA:HB3	1:4:439:VAL:O	2.09	0.52
1:6:227:ASP:O	1:6:675:LEU:HB2	2.08	0.52
1:F:488:ALA:HB3	1:Q:439:VAL:O	2.09	0.52
1:K:436:TYR:CE2	1:a:530:ASN:HB2	2.45	0.52
1:K:483:ARG:NH1	1:8:576:SER:O	2.43	0.52
1:T:472:THR:HG22	1:T:562:ALA:HB1	1.91	0.52
1:U:472:THR:HG22	1:U:562:ALA:HB1	1.91	0.52
1:k:472:THR:HG22	1:k:562:ALA:HB1	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:439:VAL:O	1:p:488:ALA:HB3	2.09	0.52
1:t:436:TYR:CE2	1:u:530:ASN:HB2	2.45	0.52
1:z:472:THR:HG22	1:z:562:ALA:HB1	1.91	0.52
1:3:472:THR:HG22	1:3:562:ALA:HB1	1.91	0.52
1:5:488:ALA:HB3	1:7:439:VAL:O	2.08	0.52
1:C:436:TYR:CE2	1:b:530:ASN:HB2	2.45	0.52
1:C:488:ALA:HB3	1:M:439:VAL:O	2.09	0.52
1:G:339:TYR:OH	1:G:632:PRO:O	2.21	0.52
1:H:488:ALA:HB3	1:Y:439:VAL:O	2.08	0.52
1:M:472:THR:HG22	1:M:562:ALA:HB1	1.91	0.52
1:V:488:ALA:HB3	1:X:439:VAL:O	2.09	0.52
1:Z:576:SER:O	1:4:483:ARG:NH1	2.43	0.52
1:h:472:THR:HG22	1:h:562:ALA:HB1	1.91	0.52
1:o:436:TYR:CE2	1:p:530:ASN:HB2	2.44	0.52
1:C:525:ASN:HD22	1:C:562:ALA:HB2	1.75	0.52
1:D:372:ASN:ND2	1:D:376:THR:O	2.29	0.52
1:D:472:THR:HG22	1:D:562:ALA:HB1	1.91	0.52
1:K:439:VAL:O	1:a:488:ALA:HB3	2.09	0.52
1:M:530:ASN:HB2	1:b:436:TYR:CE2	2.44	0.52
1:M:678:GLU:OE2	1:M:680:SER:OG	2.22	0.52
1:O:433:GLN:HA	1:m:349:THR:HA	1.92	0.52
1:T:349:THR:HA	1:l:433:GLN:HA	1.92	0.52
1:T:488:ALA:HB3	1:l:439:VAL:O	2.09	0.52
1:V:439:VAL:O	1:e:488:ALA:HB3	2.09	0.52
1:a:472:THR:HG22	1:a:562:ALA:HB1	1.91	0.52
1:f:530:ASN:HB2	1:g:436:TYR:CE2	2.45	0.52
1:g:525:ASN:HD22	1:g:562:ALA:HB2	1.75	0.52
1:h:372:ASN:ND2	1:h:376:THR:O	2.29	0.52
1:t:339:TYR:OH	1:t:632:PRO:O	2.21	0.52
1:A:436:TYR:CE2	1:G:530:ASN:HB2	2.45	0.52
1:G:436:TYR:CE2	1:I:530:ASN:HB2	2.45	0.52
1:L:472:THR:HG22	1:L:562:ALA:HB1	1.91	0.52
1:O:439:VAL:O	1:m:488:ALA:HB3	2.09	0.52
1:V:530:ASN:HB2	1:X:436:TYR:CE2	2.45	0.52
1:Y:525:ASN:HD22	1:Y:562:ALA:HB2	1.75	0.52
1:c:488:ALA:HB3	1:p:439:VAL:O	2.09	0.52
1:f:436:TYR:CE2	1:h:530:ASN:HB2	2.44	0.52
1:j:372:ASN:ND2	1:j:376:THR:O	2.29	0.52
1:y:525:ASN:HD22	1:y:562:ALA:HB2	1.75	0.52
1:2:525:ASN:HD22	1:2:562:ALA:HB2	1.75	0.52
1:7:525:ASN:HD22	1:7:562:ALA:HB2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:576:SER:O	1:G:483:ARG:NH1	2.43	0.52
1:F:525:ASN:HD22	1:F:562:ALA:HB2	1.75	0.52
1:N:339:TYR:OH	1:N:632:PRO:O	2.21	0.52
1:d:436:TYR:CE2	1:l:530:ASN:HB2	2.44	0.52
1:e:525:ASN:HD22	1:e:562:ALA:HB2	1.75	0.52
1:r:436:TYR:CE2	1:s:530:ASN:HB2	2.44	0.52
1:3:525:ASN:HD22	1:3:562:ALA:HB2	1.75	0.52
1:G:433:GLN:HA	1:I:349:THR:HA	1.92	0.52
1:I:336:ASP:O	1:I:634:PRO:HB3	2.10	0.52
1:J:525:ASN:HD22	1:J:562:ALA:HB2	1.75	0.52
1:O:525:ASN:HD22	1:O:562:ALA:HB2	1.75	0.52
1:O:530:ASN:HB2	1:n:436:TYR:CE2	2.44	0.52
1:u:336:ASP:O	1:u:634:PRO:HB3	2.10	0.52
1:K:530:ASN:HB2	1:8:436:TYR:CE2	2.45	0.51
1:S:436:TYR:CE2	1:U:530:ASN:HB2	2.44	0.51
1:T:336:ASP:O	1:T:634:PRO:HB3	2.10	0.51
1:X:525:ASN:HD22	1:X:562:ALA:HB2	1.75	0.51
1:a:525:ASN:HD22	1:a:562:ALA:HB2	1.75	0.51
1:c:525:ASN:HD22	1:c:562:ALA:HB2	1.75	0.51
1:h:678:GLU:OE2	1:h:680:SER:OG	2.22	0.51
1:l:525:ASN:HD22	1:l:562:ALA:HB2	1.75	0.51
1:m:336:ASP:O	1:m:634:PRO:HB3	2.10	0.51
1:m:339:TYR:OH	1:m:632:PRO:O	2.21	0.51
1:m:436:TYR:CE2	1:n:530:ASN:HB2	2.45	0.51
1:o:525:ASN:HD22	1:o:562:ALA:HB2	1.75	0.51
1:u:433:GLN:HA	1:v:349:THR:HA	1.92	0.51
1:v:472:THR:HG22	1:v:562:ALA:HB1	1.91	0.51
1:w:336:ASP:O	1:w:634:PRO:HB3	2.10	0.51
1:4:525:ASN:HD22	1:4:562:ALA:HB2	1.75	0.51
1:A:349:THR:HA	1:I:433:GLN:HA	1.93	0.51
1:E:336:ASP:O	1:E:634:PRO:HB3	2.11	0.51
1:F:336:ASP:O	1:F:634:PRO:HB3	2.11	0.51
1:H:349:THR:HA	1:Y:433:GLN:HA	1.93	0.51
1:K:349:THR:HA	1:8:433:GLN:HA	1.92	0.51
1:K:525:ASN:HD22	1:K:562:ALA:HB2	1.75	0.51
1:L:525:ASN:HD22	1:L:562:ALA:HB2	1.75	0.51
1:M:372:ASN:ND2	1:M:376:THR:O	2.29	0.51
1:P:525:ASN:HD22	1:P:562:ALA:HB2	1.75	0.51
1:T:339:TYR:OH	1:T:632:PRO:O	2.21	0.51
1:T:678:GLU:OE2	1:T:680:SER:OG	2.22	0.51
1:V:433:GLN:HA	1:e:349:THR:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:336:ASP:O	1:Y:634:PRO:HB3	2.10	0.51
1:Z:436:TYR:CE2	1:4:530:ASN:HB2	2.45	0.51
1:c:349:THR:HA	1:p:433:GLN:HA	1.92	0.51
1:e:336:ASP:O	1:e:634:PRO:HB3	2.10	0.51
1:k:372:ASN:ND2	1:k:376:THR:O	2.29	0.51
1:o:336:ASP:O	1:o:634:PRO:HB3	2.10	0.51
1:z:336:ASP:O	1:z:634:PRO:HB3	2.10	0.51
1:z:525:ASN:HD22	1:z:562:ALA:HB2	1.75	0.51
1:5:349:THR:HA	1:7:433:GLN:HA	1.93	0.51
1:A:472:THR:HG22	1:A:562:ALA:HB1	1.91	0.51
1:H:336:ASP:O	1:H:634:PRO:HB3	2.10	0.51
1:N:415:SER:HB2	1:N:417:PHE:CE2	2.46	0.51
1:R:472:THR:HG22	1:R:562:ALA:HB1	1.91	0.51
1:T:436:TYR:CE2	1:d:530:ASN:HB2	2.45	0.51
1:V:415:SER:HB2	1:V:417:PHE:CE2	2.46	0.51
1:V:472:THR:HG22	1:V:562:ALA:HB1	1.91	0.51
1:X:336:ASP:O	1:X:634:PRO:HB3	2.10	0.51
1:i:339:TYR:OH	1:i:632:PRO:O	2.21	0.51
1:j:525:ASN:HD22	1:j:562:ALA:HB2	1.75	0.51
1:m:576:SER:O	1:n:483:ARG:NH1	2.44	0.51
1:u:436:TYR:CE2	1:v:530:ASN:HB2	2.44	0.51
1:y:336:ASP:O	1:y:634:PRO:HB3	2.11	0.51
1:7:336:ASP:O	1:7:634:PRO:HB3	2.11	0.51
1:K:530:ASN:ND2	1:K:532:GLN:O	2.44	0.51
1:L:336:ASP:O	1:L:634:PRO:HB3	2.11	0.51
1:M:336:ASP:O	1:M:634:PRO:HB3	2.10	0.51
1:M:415:SER:HB2	1:M:417:PHE:CE2	2.46	0.51
1:P:372:ASN:ND2	1:P:376:THR:O	2.29	0.51
1:P:530:ASN:ND2	1:P:532:GLN:O	2.44	0.51
1:T:576:SER:O	1:d:483:ARG:NH1	2.44	0.51
1:W:415:SER:HB2	1:W:417:PHE:CE2	2.46	0.51
1:W:525:ASN:HD22	1:W:562:ALA:HB2	1.75	0.51
1:Z:433:GLN:HA	1:4:349:THR:HA	1.92	0.51
1:a:436:TYR:CE2	1:8:530:ASN:HB2	2.44	0.51
1:c:336:ASP:O	1:c:634:PRO:HB3	2.11	0.51
1:c:415:SER:HB2	1:c:417:PHE:CE2	2.46	0.51
1:c:530:ASN:ND2	1:c:532:GLN:O	2.44	0.51
1:d:415:SER:HB2	1:d:417:PHE:CE2	2.46	0.51
1:h:415:SER:HB2	1:h:417:PHE:CE2	2.46	0.51
1:i:336:ASP:O	1:i:634:PRO:HB3	2.10	0.51
1:i:415:SER:HB2	1:i:417:PHE:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:415:SER:HB2	1:n:417:PHE:CE2	2.46	0.51
1:p:415:SER:HB2	1:p:417:PHE:CE2	2.46	0.51
1:q:349:THR:HA	1:s:433:GLN:HA	1.93	0.51
1:q:472:THR:HG22	1:q:562:ALA:HB1	1.91	0.51
1:4:530:ASN:ND2	1:4:532:GLN:O	2.44	0.51
1:5:336:ASP:O	1:5:634:PRO:HB3	2.10	0.51
1:5:372:ASN:ND2	1:5:376:THR:O	2.29	0.51
1:6:336:ASP:O	1:6:634:PRO:HB3	2.11	0.51
1:6:415:SER:HB2	1:6:417:PHE:CE2	2.46	0.51
1:8:678:GLU:OE2	1:8:680:SER:OG	2.22	0.51
1:D:530:ASN:ND2	1:D:532:GLN:O	2.44	0.51
1:G:336:ASP:O	1:G:634:PRO:HB3	2.10	0.51
1:G:530:ASN:ND2	1:G:532:GLN:O	2.44	0.51
1:H:678:GLU:OE2	1:H:680:SER:OG	2.22	0.51
1:I:525:ASN:HD22	1:I:562:ALA:HB2	1.75	0.51
1:J:336:ASP:O	1:J:634:PRO:HB3	2.11	0.51
1:J:415:SER:HB2	1:J:417:PHE:CE2	2.46	0.51
1:L:530:ASN:ND2	1:L:532:GLN:O	2.44	0.51
1:N:433:GLN:HA	1:P:349:THR:HA	1.93	0.51
1:O:415:SER:HB2	1:O:417:PHE:CE2	2.46	0.51
1:R:349:THR:HA	1:U:433:GLN:HA	1.93	0.51
1:R:530:ASN:HB2	1:U:436:TYR:CE2	2.44	0.51
1:W:336:ASP:O	1:W:634:PRO:HB3	2.11	0.51
1:Y:530:ASN:ND2	1:Y:532:GLN:O	2.44	0.51
1:Z:530:ASN:HB2	1:3:436:TYR:CE2	2.44	0.51
1:e:415:SER:HB2	1:e:417:PHE:CE2	2.46	0.51
1:e:530:ASN:ND2	1:e:532:GLN:O	2.44	0.51
1:g:415:SER:HB2	1:g:417:PHE:CE2	2.46	0.51
1:h:336:ASP:O	1:h:634:PRO:HB3	2.10	0.51
1:j:530:ASN:ND2	1:j:532:GLN:O	2.44	0.51
1:k:530:ASN:ND2	1:k:532:GLN:O	2.44	0.51
1:l:415:SER:HB2	1:l:417:PHE:CE2	2.46	0.51
1:o:433:GLN:HA	1:p:349:THR:HA	1.93	0.51
1:p:472:THR:HG22	1:p:562:ALA:HB1	1.91	0.51
1:t:530:ASN:ND2	1:t:532:GLN:O	2.44	0.51
1:u:525:ASN:HD22	1:u:562:ALA:HB2	1.75	0.51
1:v:336:ASP:O	1:v:634:PRO:HB3	2.11	0.51
1:x:530:ASN:ND2	1:x:532:GLN:O	2.44	0.51
1:z:349:THR:HA	1:2:433:GLN:HA	1.93	0.51
1:z:530:ASN:ND2	1:z:532:GLN:O	2.44	0.51
1:2:372:ASN:ND2	1:2:376:THR:O	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:433:GLN:HA	1:6:349:THR:HA	1.93	0.51
1:7:530:ASN:ND2	1:7:532:GLN:O	2.44	0.51
1:A:336:ASP:O	1:A:634:PRO:HB3	2.11	0.51
1:A:415:SER:HB2	1:A:417:PHE:CE2	2.46	0.51
1:A:530:ASN:HB2	1:I:436:TYR:CE2	2.45	0.51
1:A:530:ASN:ND2	1:A:532:GLN:O	2.44	0.51
1:G:415:SER:HB2	1:G:417:PHE:CE2	2.46	0.51
1:H:433:GLN:HA	1:W:349:THR:HA	1.93	0.51
1:J:372:ASN:ND2	1:J:376:THR:O	2.29	0.51
1:K:488:ALA:HB3	1:8:439:VAL:O	2.09	0.51
1:K:576:SER:O	1:a:483:ARG:NH1	2.44	0.51
1:M:349:THR:HA	1:b:433:GLN:HA	1.93	0.51
1:N:336:ASP:O	1:N:634:PRO:HB3	2.11	0.51
1:O:336:ASP:O	1:O:634:PRO:HB3	2.11	0.51
1:O:436:TYR:CE2	1:m:530:ASN:HB2	2.45	0.51
1:O:530:ASN:ND2	1:O:532:GLN:O	2.44	0.51
1:Q:530:ASN:ND2	1:Q:532:GLN:O	2.44	0.51
1:T:530:ASN:HB2	1:l:436:TYR:CE2	2.45	0.51
1:V:349:THR:HA	1:X:433:GLN:HA	1.93	0.51
1:W:530:ASN:ND2	1:W:532:GLN:O	2.44	0.51
1:Z:439:VAL:O	1:4:488:ALA:HB3	2.09	0.51
1:f:433:GLN:HA	1:h:349:THR:HA	1.93	0.51
1:q:530:ASN:HB2	1:s:436:TYR:CE2	2.44	0.51
1:r:472:THR:HG22	1:r:562:ALA:HB1	1.91	0.51
1:t:415:SER:HB2	1:t:417:PHE:CE2	2.46	0.51
1:t:433:GLN:HA	1:u:349:THR:HA	1.93	0.51
1:v:415:SER:HB2	1:v:417:PHE:CE2	2.46	0.51
1:v:525:ASN:HD22	1:v:562:ALA:HB2	1.75	0.51
1:w:349:THR:HA	1:y:433:GLN:HA	1.93	0.51
1:1:439:VAL:O	1:2:488:ALA:HB3	2.09	0.51
1:2:336:ASP:O	1:2:634:PRO:HB3	2.11	0.51
1:2:415:SER:HB2	1:2:417:PHE:CE2	2.46	0.51
1:C:415:SER:HB2	1:C:417:PHE:CE2	2.46	0.51
1:D:336:ASP:O	1:D:634:PRO:HB3	2.10	0.51
1:E:349:THR:HA	1:F:433:GLN:HA	1.93	0.51
1:J:433:GLN:HA	1:L:349:THR:HA	1.93	0.51
1:J:530:ASN:ND2	1:J:532:GLN:O	2.44	0.51
1:O:576:SER:O	1:m:483:ARG:NH1	2.43	0.51
1:R:336:ASP:O	1:R:634:PRO:HB3	2.11	0.51
1:T:483:ARG:NH1	1:l:576:SER:O	2.43	0.51
1:V:530:ASN:ND2	1:V:532:GLN:O	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:678:GLU:OE2	1:Z:680:SER:OG	2.22	0.51
1:a:530:ASN:ND2	1:a:532:GLN:O	2.44	0.51
1:b:415:SER:HB2	1:b:417:PHE:CE2	2.46	0.51
1:h:530:ASN:ND2	1:h:532:GLN:O	2.44	0.51
1:i:433:GLN:HA	1:j:349:THR:HA	1.93	0.51
1:i:525:ASN:HD22	1:i:562:ALA:HB2	1.75	0.51
1:l:336:ASP:O	1:l:634:PRO:HB3	2.11	0.51
1:l:530:ASN:ND2	1:l:532:GLN:O	2.44	0.51
1:m:525:ASN:HD22	1:m:562:ALA:HB2	1.75	0.51
1:m:678:GLU:OE2	1:m:680:SER:OG	2.22	0.51
1:p:530:ASN:ND2	1:p:532:GLN:O	2.44	0.51
1:t:336:ASP:O	1:t:634:PRO:HB3	2.10	0.51
1:t:349:THR:HA	1:v:433:GLN:HA	1.93	0.51
1:v:530:ASN:ND2	1:v:532:GLN:O	2.44	0.51
1:2:530:ASN:ND2	1:2:532:GLN:O	2.44	0.51
1:3:530:ASN:ND2	1:3:532:GLN:O	2.44	0.51
1:6:525:ASN:HD22	1:6:562:ALA:HB2	1.75	0.51
1:6:530:ASN:ND2	1:6:532:GLN:O	2.44	0.51
1:A:433:GLN:HA	1:G:349:THR:HA	1.93	0.51
1:A:525:ASN:HD22	1:A:562:ALA:HB2	1.75	0.51
1:B:336:ASP:O	1:B:634:PRO:HB3	2.10	0.51
1:B:439:VAL:O	1:J:488:ALA:HB3	2.09	0.51
1:E:433:GLN:HA	1:Q:349:THR:HA	1.93	0.51
1:G:576:SER:O	1:I:483:ARG:NH1	2.43	0.51
1:I:415:SER:HB2	1:I:417:PHE:CE2	2.46	0.51
1:M:530:ASN:ND2	1:M:532:GLN:O	2.44	0.51
1:N:525:ASN:HD22	1:N:562:ALA:HB2	1.75	0.51
1:S:472:THR:HG22	1:S:562:ALA:HB1	1.91	0.51
1:U:530:ASN:ND2	1:U:532:GLN:O	2.44	0.51
1:V:576:SER:O	1:e:483:ARG:NH1	2.44	0.51
1:a:576:SER:O	1:8:483:ARG:NH1	2.44	0.51
1:c:483:ARG:NH1	1:p:576:SER:O	2.44	0.51
1:f:415:SER:HB2	1:f:417:PHE:CE2	2.46	0.51
1:k:336:ASP:O	1:k:634:PRO:HB3	2.11	0.51
1:q:336:ASP:O	1:q:634:PRO:HB3	2.10	0.51
1:t:525:ASN:HD22	1:t:562:ALA:HB2	1.75	0.51
1:u:415:SER:HB2	1:u:417:PHE:CE2	2.46	0.51
1:w:433:GLN:HA	1:x:349:THR:HA	1.93	0.51
1:z:433:GLN:HA	1:1:349:THR:HA	1.93	0.51
1:1:336:ASP:O	1:1:634:PRO:HB3	2.11	0.51
1:1:415:SER:HB2	1:1:417:PHE:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:433:GLN:HA	1:2:349:THR:HA	1.93	0.51
1:B:433:GLN:HA	1:J:349:THR:HA	1.93	0.51
1:C:530:ASN:ND2	1:C:532:GLN:O	2.44	0.51
1:C:576:SER:O	1:b:483:ARG:NH1	2.44	0.51
1:E:488:ALA:O	1:E:492:THR:HG23	2.11	0.51
1:G:525:ASN:HD22	1:G:562:ALA:HB2	1.75	0.51
1:H:372:ASN:ND2	1:H:376:THR:O	2.29	0.51
1:H:488:ALA:O	1:H:492:THR:HG23	2.11	0.51
1:M:488:ALA:O	1:M:492:THR:HG23	2.11	0.51
1:M:525:ASN:HD22	1:M:562:ALA:HB2	1.75	0.51
1:Q:415:SER:HB2	1:Q:417:PHE:CE2	2.46	0.51
1:T:525:ASN:HD22	1:T:562:ALA:HB2	1.75	0.51
1:U:336:ASP:O	1:U:634:PRO:HB3	2.11	0.51
1:Z:336:ASP:O	1:Z:634:PRO:HB3	2.10	0.51
1:a:415:SER:HB2	1:a:417:PHE:CE2	2.46	0.51
1:b:530:ASN:ND2	1:b:532:GLN:O	2.44	0.51
1:f:483:ARG:NH1	1:g:576:SER:O	2.44	0.51
1:f:530:ASN:ND2	1:f:532:GLN:O	2.44	0.51
1:g:530:ASN:ND2	1:g:532:GLN:O	2.44	0.51
1:h:488:ALA:O	1:h:492:THR:HG23	2.11	0.51
1:o:530:ASN:ND2	1:o:532:GLN:O	2.44	0.51
1:p:336:ASP:O	1:p:634:PRO:HB3	2.10	0.51
1:r:525:ASN:HD22	1:r:562:ALA:HB2	1.75	0.51
1:s:530:ASN:ND2	1:s:532:GLN:O	2.44	0.51
1:w:488:ALA:O	1:w:492:THR:HG23	2.11	0.51
1:w:576:SER:O	1:x:483:ARG:NH1	2.44	0.51
1:x:415:SER:HB2	1:x:417:PHE:CE2	2.46	0.51
1:x:433:GLN:HA	1:y:349:THR:HA	1.92	0.51
1:5:488:ALA:O	1:5:492:THR:HG23	2.11	0.51
1:5:678:GLU:OE2	1:5:680:SER:OG	2.22	0.51
1:B:349:THR:HA	1:L:433:GLN:HA	1.93	0.51
1:B:415:SER:HB2	1:B:417:PHE:CE2	2.46	0.51
1:D:525:ASN:HD22	1:D:562:ALA:HB2	1.75	0.51
1:F:349:THR:HA	1:Q:433:GLN:HA	1.93	0.51
1:F:415:SER:HB2	1:F:417:PHE:CE2	2.46	0.51
1:N:530:ASN:ND2	1:N:532:GLN:O	2.44	0.51
1:S:525:ASN:HD22	1:S:562:ALA:HB2	1.75	0.51
1:V:336:ASP:O	1:V:634:PRO:HB3	2.10	0.51
1:g:336:ASP:O	1:g:634:PRO:HB3	2.10	0.51
1:g:483:ARG:NH1	1:h:576:SER:O	2.44	0.51
1:m:415:SER:HB2	1:m:417:PHE:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:336:ASP:O	1:s:634:PRO:HB3	2.10	0.51
1:s:525:ASN:HD22	1:s:562:ALA:HB2	1.75	0.51
1:y:415:SER:HB2	1:y:417:PHE:CE2	2.46	0.51
1:3:415:SER:HB2	1:3:417:PHE:CE2	2.46	0.51
1:C:483:ARG:NH1	1:M:576:SER:O	2.44	0.50
1:E:576:SER:O	1:Q:483:ARG:NH1	2.44	0.50
1:K:433:GLN:HA	1:a:349:THR:HA	1.93	0.50
1:S:530:ASN:ND2	1:S:532:GLN:O	2.44	0.50
1:V:483:ARG:NH1	1:X:576:SER:O	2.44	0.50
1:V:488:ALA:O	1:V:492:THR:HG23	2.11	0.50
1:X:530:ASN:ND2	1:X:532:GLN:O	2.44	0.50
1:Z:530:ASN:ND2	1:Z:532:GLN:O	2.44	0.50
1:d:678:GLU:OE2	1:d:680:SER:OG	2.22	0.50
1:f:336:ASP:O	1:f:634:PRO:HB3	2.10	0.50
1:f:349:THR:HA	1:g:433:GLN:HA	1.92	0.50
1:h:525:ASN:HD22	1:h:562:ALA:HB2	1.75	0.50
1:i:530:ASN:ND2	1:i:532:GLN:O	2.44	0.50
1:j:433:GLN:HA	1:k:349:THR:HA	1.93	0.50
1:k:525:ASN:HD22	1:k:562:ALA:HB2	1.75	0.50
1:o:576:SER:O	1:p:483:ARG:NH1	2.44	0.50
1:p:488:ALA:O	1:p:492:THR:HG23	2.11	0.50
1:w:415:SER:HB2	1:w:417:PHE:CE2	2.46	0.50
1:4:336:ASP:O	1:4:634:PRO:HB3	2.10	0.50
1:8:336:ASP:O	1:8:634:PRO:HB3	2.11	0.50
1:B:525:ASN:HD22	1:B:562:ALA:HB2	1.75	0.50
1:C:433:GLN:HA	1:b:349:THR:HA	1.92	0.50
1:K:488:ALA:O	1:K:492:THR:HG23	2.11	0.50
1:L:488:ALA:O	1:L:492:THR:HG23	2.11	0.50
1:R:483:ARG:NH1	1:U:576:SER:O	2.45	0.50
1:R:525:ASN:HD22	1:R:562:ALA:HB2	1.75	0.50
1:R:576:SER:O	1:S:483:ARG:NH1	2.45	0.50
1:T:415:SER:HB2	1:T:417:PHE:CE2	2.46	0.50
1:T:433:GLN:HA	1:d:349:THR:HA	1.93	0.50
1:V:525:ASN:HD22	1:V:562:ALA:HB2	1.75	0.50
1:X:349:THR:HA	1:e:433:GLN:HA	1.93	0.50
1:Z:483:ARG:NH1	1:3:576:SER:O	2.44	0.50
1:Z:525:ASN:HD22	1:Z:562:ALA:HB2	1.75	0.50
1:c:433:GLN:HA	1:o:349:THR:HA	1.93	0.50
1:g:349:THR:HA	1:h:433:GLN:HA	1.93	0.50
1:j:488:ALA:O	1:j:492:THR:HG23	2.11	0.50
1:m:433:GLN:HA	1:n:349:THR:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:525:ASN:HD22	1:q:562:ALA:HB2	1.75	0.50
1:q:576:SER:O	1:r:483:ARG:NH1	2.45	0.50
1:r:530:ASN:ND2	1:r:532:GLN:O	2.44	0.50
1:z:488:ALA:O	1:z:492:THR:HG23	2.11	0.50
1:4:488:ALA:O	1:4:492:THR:HG23	2.11	0.50
1:6:488:ALA:O	1:6:492:THR:HG23	2.11	0.50
1:A:483:ARG:NH1	1:I:576:SER:O	2.44	0.50
1:C:336:ASP:O	1:C:634:PRO:HB3	2.11	0.50
1:C:349:THR:HA	1:M:433:GLN:HA	1.93	0.50
1:D:349:THR:HA	1:P:433:GLN:HA	1.93	0.50
1:E:415:SER:HB2	1:E:417:PHE:CE2	2.46	0.50
1:H:530:ASN:ND2	1:H:532:GLN:O	2.44	0.50
1:K:336:ASP:O	1:K:634:PRO:HB3	2.10	0.50
1:P:336:ASP:O	1:P:634:PRO:HB3	2.11	0.50
1:P:488:ALA:O	1:P:492:THR:HG23	2.11	0.50
1:Q:336:ASP:O	1:Q:634:PRO:HB3	2.10	0.50
1:U:525:ASN:HD22	1:U:562:ALA:HB2	1.75	0.50
1:W:488:ALA:O	1:W:492:THR:HG23	2.11	0.50
1:Y:488:ALA:O	1:Y:492:THR:HG23	2.11	0.50
1:b:336:ASP:O	1:b:634:PRO:HB3	2.11	0.50
1:n:525:ASN:HD22	1:n:562:ALA:HB2	1.75	0.50
1:q:433:GLN:HA	1:r:349:THR:HA	1.93	0.50
1:q:483:ARG:NH1	1:s:576:SER:O	2.45	0.50
1:t:483:ARG:NH1	1:v:576:SER:O	2.45	0.50
1:u:576:SER:O	1:v:483:ARG:NH1	2.44	0.50
1:x:336:ASP:O	1:x:634:PRO:HB3	2.10	0.50
1:y:530:ASN:ND2	1:y:532:GLN:O	2.44	0.50
1:1:525:ASN:HD22	1:1:562:ALA:HB2	1.75	0.50
1:3:336:ASP:O	1:3:634:PRO:HB3	2.11	0.50
1:5:530:ASN:ND2	1:5:532:GLN:O	2.44	0.50
1:7:488:ALA:O	1:7:492:THR:HG23	2.11	0.50
1:8:525:ASN:HD22	1:8:562:ALA:HB2	1.75	0.50
1:8:530:ASN:ND2	1:8:532:GLN:O	2.44	0.50
1:F:530:ASN:ND2	1:F:532:GLN:O	2.44	0.50
1:J:488:ALA:O	1:J:492:THR:HG23	2.11	0.50
1:a:336:ASP:O	1:a:634:PRO:HB3	2.10	0.50
1:a:488:ALA:O	1:a:492:THR:HG23	2.11	0.50
1:b:488:ALA:O	1:b:492:THR:HG23	2.11	0.50
1:d:576:SER:O	1:l:483:ARG:NH1	2.44	0.50
1:f:488:ALA:O	1:f:492:THR:HG23	2.11	0.50
1:j:336:ASP:O	1:j:634:PRO:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:576:SER:O	1:k:483:ARG:NH1	2.45	0.50
1:p:525:ASN:HD22	1:p:562:ALA:HB2	1.75	0.50
1:r:415:SER:HB2	1:r:417:PHE:CE2	2.46	0.50
1:x:525:ASN:HD22	1:x:562:ALA:HB2	1.75	0.50
1:x:576:SER:O	1:y:483:ARG:NH1	2.44	0.50
1:2:488:ALA:O	1:2:492:THR:HG23	2.11	0.50
1:3:483:ARG:NH1	1:4:576:SER:O	2.44	0.50
1:6:433:GLN:HA	1:7:349:THR:HA	1.93	0.50
1:D:483:ARG:NH1	1:P:576:SER:O	2.45	0.50
1:F:483:ARG:NH1	1:Q:576:SER:O	2.44	0.50
1:H:525:ASN:HD22	1:H:562:ALA:HB2	1.75	0.50
1:O:483:ARG:NH1	1:n:576:SER:O	2.44	0.50
1:R:433:GLN:HA	1:S:349:THR:HA	1.93	0.50
1:S:433:GLN:HA	1:U:349:THR:HA	1.93	0.50
1:X:415:SER:HB2	1:X:417:PHE:CE2	2.46	0.50
1:d:336:ASP:O	1:d:634:PRO:HB3	2.11	0.50
1:d:525:ASN:HD22	1:d:562:ALA:HB2	1.75	0.50
1:o:415:SER:HB2	1:o:417:PHE:CE2	2.46	0.50
1:r:336:ASP:O	1:r:634:PRO:HB3	2.11	0.50
1:s:488:ALA:O	1:s:492:THR:HG23	2.11	0.50
1:1:530:ASN:ND2	1:1:532:GLN:O	2.44	0.50
1:3:349:THR:HA	1:4:433:GLN:HA	1.93	0.50
1:5:415:SER:HB2	1:5:417:PHE:CE2	2.46	0.50
1:B:530:ASN:ND2	1:B:532:GLN:O	2.44	0.50
1:E:530:ASN:ND2	1:E:532:GLN:O	2.44	0.50
1:G:488:ALA:O	1:G:492:THR:HG23	2.11	0.50
1:H:415:SER:HB2	1:H:417:PHE:CE2	2.46	0.50
1:I:530:ASN:ND2	1:I:532:GLN:O	2.44	0.50
1:K:415:SER:HB2	1:K:417:PHE:CE2	2.46	0.50
1:R:415:SER:HB2	1:R:417:PHE:CE2	2.46	0.50
1:S:336:ASP:O	1:S:634:PRO:HB3	2.11	0.50
1:S:415:SER:HB2	1:S:417:PHE:CE2	2.46	0.50
1:U:415:SER:HB2	1:U:417:PHE:CE2	2.46	0.50
1:U:488:ALA:O	1:U:492:THR:HG23	2.11	0.50
1:W:433:GLN:HA	1:Y:349:THR:HA	1.93	0.50
1:c:576:SER:O	1:o:483:ARG:NH1	2.44	0.50
1:i:349:THR:HA	1:k:433:GLN:HA	1.93	0.50
1:l:228:ARG:NH1	1:l:300:ARG:HG3	2.27	0.50
1:q:415:SER:HB2	1:q:417:PHE:CE2	2.46	0.50
1:r:433:GLN:HA	1:s:349:THR:HA	1.93	0.50
1:s:415:SER:HB2	1:s:417:PHE:CE2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:488:ALA:O	1:t:492:THR:HG23	2.11	0.50
1:u:530:ASN:ND2	1:u:532:GLN:O	2.44	0.50
1:z:415:SER:HB2	1:z:417:PHE:CE2	2.46	0.50
1:3:488:ALA:O	1:3:492:THR:HG23	2.11	0.50
1:4:415:SER:HB2	1:4:417:PHE:CE2	2.46	0.50
1:5:525:ASN:HD22	1:5:562:ALA:HB2	1.75	0.50
1:D:415:SER:HB2	1:D:417:PHE:CE2	2.46	0.50
1:D:433:GLN:HA	1:N:349:THR:HA	1.93	0.50
1:D:488:ALA:O	1:D:492:THR:HG23	2.11	0.50
1:D:576:SER:O	1:N:483:ARG:NH1	2.45	0.50
1:J:576:SER:O	1:L:483:ARG:NH1	2.45	0.50
1:O:228:ARG:NH1	1:O:300:ARG:HG3	2.27	0.50
1:Q:525:ASN:HD22	1:Q:562:ALA:HB2	1.75	0.50
1:T:530:ASN:ND2	1:T:532:GLN:O	2.44	0.50
1:X:483:ARG:NH1	1:e:576:SER:O	2.44	0.50
1:c:488:ALA:O	1:c:492:THR:HG23	2.11	0.50
1:d:530:ASN:ND2	1:d:532:GLN:O	2.44	0.50
1:e:488:ALA:O	1:e:492:THR:HG23	2.11	0.50
1:l:488:ALA:O	1:l:492:THR:HG23	2.11	0.50
1:m:488:ALA:O	1:m:492:THR:HG23	2.11	0.50
1:n:336:ASP:O	1:n:634:PRO:HB3	2.11	0.50
1:w:525:ASN:HD22	1:w:562:ALA:HB2	1.75	0.50
1:5:228:ARG:NH1	1:5:300:ARG:HG3	2.27	0.50
1:8:488:ALA:O	1:8:492:THR:HG23	2.11	0.50
1:A:488:ALA:O	1:A:492:THR:HG23	2.11	0.50
1:E:525:ASN:HD22	1:E:562:ALA:HB2	1.75	0.50
1:H:483:ARG:NH1	1:Y:576:SER:O	2.44	0.50
1:H:576:SER:O	1:W:483:ARG:NH1	2.45	0.50
1:T:488:ALA:O	1:T:492:THR:HG23	2.11	0.50
1:i:483:ARG:NH1	1:k:576:SER:O	2.45	0.50
1:k:415:SER:HB2	1:k:417:PHE:CE2	2.46	0.50
1:k:488:ALA:O	1:k:492:THR:HG23	2.11	0.50
1:m:530:ASN:ND2	1:m:532:GLN:O	2.44	0.50
1:n:530:ASN:ND2	1:n:532:GLN:O	2.44	0.50
1:t:576:SER:O	1:u:483:ARG:NH1	2.44	0.50
1:w:530:ASN:ND2	1:w:532:GLN:O	2.44	0.50
1:z:483:ARG:NH1	1:2:576:SER:O	2.45	0.50
1:1:488:ALA:O	1:1:492:THR:HG23	2.11	0.50
1:5:483:ARG:NH1	1:7:576:SER:O	2.44	0.50
1:I:488:ALA:O	1:I:492:THR:HG23	2.11	0.50
1:L:415:SER:HB2	1:L:417:PHE:CE2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:530:ASN:ND2	1:R:532:GLN:O	2.44	0.50
1:S:576:SER:O	1:U:483:ARG:NH1	2.45	0.50
1:Z:488:ALA:O	1:Z:492:THR:HG23	2.11	0.50
1:f:525:ASN:HD22	1:f:562:ALA:HB2	1.75	0.50
1:f:576:SER:O	1:h:483:ARG:NH1	2.44	0.50
1:i:576:SER:O	1:j:483:ARG:NH1	2.44	0.50
1:q:530:ASN:ND2	1:q:532:GLN:O	2.44	0.50
1:u:488:ALA:O	1:u:492:THR:HG23	2.11	0.50
1:v:488:ALA:O	1:v:492:THR:HG23	2.11	0.50
1:z:576:SER:O	1:1:483:ARG:NH1	2.45	0.50
1:1:576:SER:O	1:2:483:ARG:NH1	2.45	0.50
1:5:576:SER:O	1:6:483:ARG:NH1	2.45	0.50
1:B:483:ARG:NH1	1:L:576:SER:O	2.45	0.49
1:B:488:ALA:O	1:B:492:THR:HG23	2.11	0.49
1:B:576:SER:O	1:J:483:ARG:NH1	2.45	0.49
1:F:488:ALA:O	1:F:492:THR:HG23	2.11	0.49
1:N:228:ARG:NH1	1:N:300:ARG:HG3	2.27	0.49
1:N:576:SER:O	1:P:483:ARG:NH1	2.44	0.49
1:O:488:ALA:O	1:O:492:THR:HG23	2.11	0.49
1:P:415:SER:HB2	1:P:417:PHE:CE2	2.46	0.49
1:S:488:ALA:O	1:S:492:THR:HG23	2.11	0.49
1:Z:415:SER:HB2	1:Z:417:PHE:CE2	2.46	0.49
1:g:488:ALA:O	1:g:492:THR:HG23	2.11	0.49
1:i:228:ARG:NH1	1:i:300:ARG:HG3	2.27	0.49
1:r:576:SER:O	1:s:483:ARG:NH1	2.45	0.49
1:x:488:ALA:O	1:x:492:THR:HG23	2.11	0.49
1:y:488:ALA:O	1:y:492:THR:HG23	2.11	0.49
1:8:422:ASN:HB3	1:8:425:LYS:HB2	1.95	0.49
1:F:699:VAL:HG23	1:F:702:ALA:HB3	1.94	0.49
1:R:488:ALA:O	1:R:492:THR:HG23	2.11	0.49
1:Z:349:THR:HA	1:3:433:GLN:HA	1.93	0.49
1:Z:422:ASN:HB3	1:Z:425:LYS:HB2	1.95	0.49
1:b:525:ASN:HD22	1:b:562:ALA:HB2	1.75	0.49
1:d:422:ASN:HB3	1:d:425:LYS:HB2	1.95	0.49
1:j:415:SER:HB2	1:j:417:PHE:CE2	2.46	0.49
1:n:422:ASN:HB3	1:n:425:LYS:HB2	1.95	0.49
1:r:488:ALA:O	1:r:492:THR:HG23	2.11	0.49
1:t:422:ASN:HB3	1:t:425:LYS:HB2	1.95	0.49
1:y:699:VAL:HG23	1:y:702:ALA:HB3	1.94	0.49
1:8:415:SER:HB2	1:8:417:PHE:CE2	2.46	0.49
1:C:488:ALA:O	1:C:492:THR:HG23	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:422:ASN:HB3	1:G:425:LYS:HB2	1.95	0.49
1:M:483:ARG:NH1	1:b:576:SER:O	2.44	0.49
1:Q:488:ALA:O	1:Q:492:THR:HG23	2.11	0.49
1:T:228:ARG:NH1	1:T:300:ARG:HG3	2.27	0.49
1:W:228:ARG:NH1	1:W:300:ARG:HG3	2.27	0.49
1:f:372:ASN:ND2	1:f:376:THR:O	2.29	0.49
1:4:422:ASN:HB3	1:4:425:LYS:HB2	1.95	0.49
1:O:349:THR:HA	1:n:433:GLN:HA	1.93	0.49
1:Y:415:SER:HB2	1:Y:417:PHE:CE2	2.46	0.49
1:a:433:GLN:HA	1:8:349:THR:HA	1.93	0.49
1:j:422:ASN:HB3	1:j:425:LYS:HB2	1.95	0.49
1:m:228:ARG:NH1	1:m:300:ARG:HG3	2.27	0.49
1:q:488:ALA:O	1:q:492:THR:HG23	2.11	0.49
1:3:699:VAL:HG23	1:3:702:ALA:HB3	1.95	0.49
1:A:699:VAL:HG23	1:A:702:ALA:HB3	1.94	0.49
1:B:678:GLU:OE2	1:B:680:SER:OG	2.22	0.49
1:K:422:ASN:HB3	1:K:425:LYS:HB2	1.95	0.49
1:P:422:ASN:HB3	1:P:425:LYS:HB2	1.95	0.49
1:Q:699:VAL:HG23	1:Q:702:ALA:HB3	1.95	0.49
1:j:238:VAL:HG13	1:j:362:THR:HG22	1.95	0.49
1:k:238:VAL:HG13	1:k:362:THR:HG22	1.95	0.49
1:p:228:ARG:NH1	1:p:300:ARG:HG3	2.27	0.49
1:u:699:VAL:HG23	1:u:702:ALA:HB3	1.95	0.49
1:v:699:VAL:HG23	1:v:702:ALA:HB3	1.94	0.49
1:y:619:HIS:HA	2:sA:997:DA:H2'	1.95	0.49
1:3:619:HIS:HA	2:wA:997:DA:H2'	1.95	0.49
1:D:238:VAL:HG13	1:D:362:THR:HG22	1.95	0.49
1:F:619:HIS:HA	2:1A:997:DA:H2'	1.95	0.49
1:G:619:HIS:HA	2:3A:997:DA:H2'	1.95	0.49
1:I:422:ASN:HB3	1:I:425:LYS:HB2	1.95	0.49
1:I:699:VAL:HG23	1:I:702:ALA:HB3	1.95	0.49
1:K:619:HIS:HA	2:AA:997:DA:H2'	1.95	0.49
1:S:422:ASN:HB3	1:S:425:LYS:HB2	1.95	0.49
1:S:619:HIS:HA	2:IA:997:DA:H2'	1.95	0.49
1:V:228:ARG:NH1	1:V:300:ARG:HG3	2.27	0.49
1:a:699:VAL:HG23	1:a:702:ALA:HB3	1.95	0.49
1:d:433:GLN:HA	1:l:349:THR:HA	1.93	0.49
1:p:238:VAL:HG13	1:p:362:THR:HG22	1.95	0.49
1:r:422:ASN:HB3	1:r:425:LYS:HB2	1.95	0.49
1:r:619:HIS:HA	2:kA:997:DA:H2'	1.95	0.49
1:t:619:HIS:HA	2:mA:997:DA:H2'	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:422:ASN:HB3	1:u:425:LYS:HB2	1.95	0.49
1:x:422:ASN:HB3	1:x:425:LYS:HB2	1.95	0.49
1:x:699:VAL:HG23	1:x:702:ALA:HB3	1.95	0.49
1:7:415:SER:HB2	1:7:417:PHE:CE2	2.46	0.49
1:H:619:HIS:HA	2:4A:997:DA:H2'	1.95	0.49
1:P:228:ARG:NH1	1:P:300:ARG:HG3	2.27	0.49
1:P:238:VAL:HG13	1:P:362:THR:HG22	1.95	0.49
1:Q:422:ASN:HB3	1:Q:425:LYS:HB2	1.95	0.49
1:R:228:ARG:NH1	1:R:300:ARG:HG3	2.27	0.49
1:V:238:VAL:HG13	1:V:362:THR:HG22	1.95	0.49
1:Y:699:VAL:HG23	1:Y:702:ALA:HB3	1.95	0.49
1:a:238:VAL:HG13	1:a:362:THR:HG22	1.95	0.49
1:b:372:ASN:ND2	1:b:376:THR:O	2.29	0.49
1:c:238:VAL:HG13	1:c:362:THR:HG22	1.95	0.49
1:e:238:VAL:HG13	1:e:362:THR:HG22	1.95	0.49
1:f:619:HIS:HA	2:XA:997:DA:H2'	1.95	0.49
1:q:228:ARG:NH1	1:q:300:ARG:HG3	2.27	0.49
1:v:619:HIS:HA	2:oA:997:DA:H2'	1.95	0.49
1:y:372:ASN:ND2	1:y:376:THR:O	2.29	0.49
1:4:619:HIS:HA	2:xA:997:DA:H2'	1.95	0.49
1:7:699:VAL:HG23	1:7:702:ALA:HB3	1.95	0.49
1:A:422:ASN:HB3	1:A:425:LYS:HB2	1.95	0.49
1:A:619:HIS:HA	2:O:997:DA:H2'	1.95	0.49
1:C:238:VAL:HG13	1:C:362:THR:HG22	1.95	0.49
1:E:422:ASN:HB3	1:E:425:LYS:HB2	1.95	0.49
1:E:483:ARG:NH1	1:F:576:SER:O	2.45	0.49
1:L:418:ALA:N	1:L:720:LEU:O	2.41	0.49
1:N:488:ALA:O	1:N:492:THR:HG23	2.11	0.49
1:R:422:ASN:HB3	1:R:425:LYS:HB2	1.95	0.49
1:S:238:VAL:HG13	1:S:362:THR:HG22	1.95	0.49
1:T:699:VAL:HG23	1:T:702:ALA:HB3	1.95	0.49
1:W:422:ASN:HB3	1:W:425:LYS:HB2	1.95	0.49
1:W:576:SER:O	1:Y:483:ARG:NH1	2.45	0.49
1:a:422:ASN:HB3	1:a:425:LYS:HB2	1.95	0.49
1:a:619:HIS:HA	2:RA:997:DA:H2'	1.95	0.49
1:b:619:HIS:HA	2:SA:997:DA:H2'	1.95	0.49
1:d:488:ALA:O	1:d:492:THR:HG23	2.11	0.49
1:g:238:VAL:HG13	1:g:362:THR:HG22	1.95	0.49
1:h:238:VAL:HG13	1:h:362:THR:HG22	1.95	0.49
1:j:228:ARG:NH1	1:j:300:ARG:HG3	2.27	0.49
1:q:422:ASN:HB3	1:q:425:LYS:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:422:ASN:HB3	1:v:425:LYS:HB2	1.95	0.49
1:w:422:ASN:HB3	1:w:425:LYS:HB2	1.95	0.49
1:w:483:ARG:NH1	1:y:576:SER:O	2.45	0.49
1:z:418:ALA:N	1:z:720:LEU:O	2.41	0.49
1:z:699:VAL:HG23	1:z:702:ALA:HB3	1.95	0.49
1:1:619:HIS:HA	2:uA:997:DA:H2'	1.95	0.49
1:1:678:GLU:OE2	1:1:680:SER:OG	2.22	0.49
1:3:238:VAL:HG13	1:3:362:THR:HG22	1.95	0.49
1:6:576:SER:O	1:7:483:ARG:NH1	2.45	0.49
1:B:619:HIS:HA	2:JA:997:DA:H2'	1.95	0.49
1:G:238:VAL:HG13	1:G:362:THR:HG22	1.95	0.49
1:I:247:TYR:OH	1:I:389:GLU:OE1	2.28	0.49
1:L:422:ASN:HB3	1:L:425:LYS:HB2	1.95	0.49
1:L:699:VAL:HG23	1:L:702:ALA:HB3	1.95	0.49
1:M:238:VAL:HG13	1:M:362:THR:HG22	1.95	0.49
1:N:422:ASN:HB3	1:N:425:LYS:HB2	1.95	0.49
1:O:619:HIS:HA	2:EA:997:DA:H2'	1.95	0.49
1:T:238:VAL:HG13	1:T:362:THR:HG22	1.95	0.49
1:X:619:HIS:HA	2:OA:997:DA:H2'	1.95	0.49
1:Y:619:HIS:HA	2:PA:997:DA:H2'	1.95	0.49
1:i:422:ASN:HB3	1:i:425:LYS:HB2	1.95	0.49
1:i:488:ALA:O	1:i:492:THR:HG23	2.11	0.49
1:m:238:VAL:HG13	1:m:362:THR:HG22	1.95	0.49
1:r:238:VAL:HG13	1:r:362:THR:HG22	1.95	0.49
1:s:619:HIS:HA	2:lA:997:DA:H2'	1.95	0.49
1:t:238:VAL:HG13	1:t:362:THR:HG22	1.95	0.49
1:z:422:ASN:HB3	1:z:425:LYS:HB2	1.95	0.49
1:5:619:HIS:HA	2:yA:997:DA:H2'	1.95	0.49
1:6:422:ASN:HB3	1:6:425:LYS:HB2	1.95	0.49
1:K:238:VAL:HG13	1:K:362:THR:HG22	1.95	0.49
1:P:619:HIS:HA	2:FA:997:DA:H2'	1.95	0.49
1:R:699:VAL:HG23	1:R:702:ALA:HB3	1.95	0.49
1:U:619:HIS:HA	2:LA:997:DA:H2'	1.95	0.49
1:X:422:ASN:HB3	1:X:425:LYS:HB2	1.95	0.49
1:Z:699:VAL:HG23	1:Z:702:ALA:HB3	1.95	0.49
1:f:228:ARG:NH1	1:f:300:ARG:HG3	2.27	0.49
1:j:619:HIS:HA	2:bA:997:DA:H2'	1.95	0.49
1:l:619:HIS:HA	2:dA:997:DA:H2'	1.95	0.49
1:m:699:VAL:HG23	1:m:702:ALA:HB3	1.95	0.49
1:n:488:ALA:O	1:n:492:THR:HG23	2.11	0.49
1:o:619:HIS:HA	2:hA:997:DA:H2'	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:699:VAL:HG23	1:q:702:ALA:HB3	1.95	0.49
1:2:238:VAL:HG13	1:2:362:THR:HG22	1.95	0.49
1:4:238:VAL:HG13	1:4:362:THR:HG22	1.95	0.49
1:7:619:HIS:HA	2:0A:997:DA:H2'	1.95	0.49
1:8:699:VAL:HG23	1:8:702:ALA:HB3	1.95	0.49
1:F:372:ASN:ND2	1:F:376:THR:O	2.29	0.48
1:J:238:VAL:HG13	1:J:362:THR:HG22	1.95	0.48
1:L:228:ARG:NH1	1:L:300:ARG:HG3	2.27	0.48
1:L:619:HIS:HA	2:BA:997:DA:H2'	1.95	0.48
1:O:422:ASN:HB3	1:O:425:LYS:HB2	1.94	0.48
1:P:699:VAL:HG23	1:P:702:ALA:HB3	1.95	0.48
1:T:619:HIS:HA	2:KA:997:DA:H2'	1.95	0.48
1:X:238:VAL:HG13	1:X:362:THR:HG22	1.95	0.48
1:c:422:ASN:HB3	1:c:425:LYS:HB2	1.95	0.48
1:l:422:ASN:HB3	1:l:425:LYS:HB2	1.95	0.48
1:m:707:GLY:HA2	1:s:247:TYR:O	2.13	0.48
1:o:238:VAL:HG13	1:o:362:THR:HG22	1.95	0.48
1:q:380:THR:HG22	1:q:381:GLU:N	2.28	0.48
1:s:238:VAL:HG13	1:s:362:THR:HG22	1.95	0.48
1:u:418:ALA:N	1:u:720:LEU:O	2.41	0.48
1:v:380:THR:HG22	1:v:381:GLU:N	2.28	0.48
1:z:619:HIS:HA	2:tA:997:DA:H2'	1.95	0.48
1:3:422:ASN:HB3	1:3:425:LYS:HB2	1.95	0.48
1:A:380:THR:HG22	1:A:381:GLU:N	2.29	0.48
1:C:380:THR:HG22	1:C:381:GLU:N	2.29	0.48
1:E:380:THR:HG22	1:E:381:GLU:N	2.29	0.48
1:H:422:ASN:HB3	1:H:425:LYS:HB2	1.95	0.48
1:I:228:ARG:NH1	1:I:300:ARG:HG3	2.27	0.48
1:R:380:THR:HG22	1:R:381:GLU:N	2.29	0.48
1:T:380:THR:HG22	1:T:381:GLU:N	2.28	0.48
1:T:707:GLY:HA2	1:U:247:TYR:O	2.14	0.48
1:U:238:VAL:HG13	1:U:362:THR:HG22	1.95	0.48
1:U:699:VAL:HG23	1:U:702:ALA:HB3	1.95	0.48
1:V:619:HIS:HA	2:MA:997:DA:H2'	1.95	0.48
1:X:488:ALA:O	1:X:492:THR:HG23	2.11	0.48
1:Z:238:VAL:HG13	1:Z:362:THR:HG22	1.95	0.48
1:d:619:HIS:HA	2:VA:997:DA:H2'	1.95	0.48
1:e:422:ASN:HB3	1:e:425:LYS:HB2	1.95	0.48
1:g:380:THR:HG22	1:g:381:GLU:N	2.29	0.48
1:h:330:THR:HG21	1:h:395:MET:HE2	1.96	0.48
1:j:699:VAL:HG23	1:j:702:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:380:THR:HG22	1:m:381:GLU:N	2.28	0.48
1:n:619:HIS:HA	2:gA:997:DA:H2'	1.95	0.48
1:o:422:ASN:HB3	1:o:425:LYS:HB2	1.95	0.48
1:s:699:VAL:HG23	1:s:702:ALA:HB3	1.95	0.48
1:u:247:TYR:OH	1:u:389:GLU:OE1	2.28	0.48
1:u:380:THR:HG22	1:u:381:GLU:N	2.28	0.48
1:w:380:THR:HG22	1:w:381:GLU:N	2.29	0.48
1:5:422:ASN:HB3	1:5:425:LYS:HB2	1.95	0.48
1:C:330:THR:HG21	1:C:395:MET:HE2	1.96	0.48
1:D:699:VAL:HG23	1:D:702:ALA:HB3	1.95	0.48
1:E:619:HIS:HA	2:qA:997:DA:H2'	1.95	0.48
1:F:422:ASN:HB3	1:F:425:LYS:HB2	1.95	0.48
1:H:330:THR:HG21	1:H:395:MET:HE2	1.96	0.48
1:H:380:THR:HG22	1:H:381:GLU:N	2.28	0.48
1:I:380:THR:HG22	1:I:381:GLU:N	2.29	0.48
1:I:418:ALA:N	1:I:720:LEU:O	2.41	0.48
1:M:330:THR:HG21	1:M:395:MET:HE2	1.96	0.48
1:M:699:VAL:HG23	1:M:702:ALA:HB3	1.95	0.48
1:N:330:THR:HG21	1:N:395:MET:HE2	1.96	0.48
1:U:330:THR:HG21	1:U:395:MET:HE2	1.96	0.48
1:V:330:THR:HG21	1:V:395:MET:HE2	1.96	0.48
1:Y:422:ASN:HB3	1:Y:425:LYS:HB2	1.95	0.48
1:b:228:ARG:NH1	1:b:300:ARG:HG3	2.27	0.48
1:b:699:VAL:HG23	1:b:702:ALA:HB3	1.95	0.48
1:c:330:THR:HG21	1:c:395:MET:HE2	1.96	0.48
1:c:678:GLU:OE2	1:c:680:SER:OG	2.22	0.48
1:e:330:THR:HG21	1:e:395:MET:HE2	1.96	0.48
1:g:330:THR:HG21	1:g:395:MET:HE2	1.96	0.48
1:i:330:THR:HG21	1:i:395:MET:HE2	1.96	0.48
1:k:699:VAL:HG23	1:k:702:ALA:HB3	1.94	0.48
1:m:619:HIS:HA	2:eA:997:DA:H2'	1.95	0.48
1:o:488:ALA:O	1:o:492:THR:HG23	2.11	0.48
1:p:330:THR:HG21	1:p:395:MET:HE2	1.96	0.48
1:w:238:VAL:HG13	1:w:362:THR:HG22	1.95	0.48
1:y:422:ASN:HB3	1:y:425:LYS:HB2	1.95	0.48
1:z:228:ARG:NH1	1:z:300:ARG:HG3	2.27	0.48
1:5:330:THR:HG21	1:5:395:MET:HE2	1.96	0.48
1:5:380:THR:HG22	1:5:381:GLU:N	2.28	0.48
1:7:422:ASN:HB3	1:7:425:LYS:HB2	1.95	0.48
1:E:238:VAL:HG13	1:E:362:THR:HG22	1.95	0.48
1:F:380:THR:HG22	1:F:381:GLU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:380:THR:HG22	1:L:381:GLU:N	2.28	0.48
1:Q:619:HIS:HA	2:GA:997:DA:H2'	1.95	0.48
1:U:422:ASN:HB3	1:U:425:LYS:HB2	1.95	0.48
1:Y:380:THR:HG22	1:Y:381:GLU:N	2.29	0.48
1:a:330:THR:HG21	1:a:395:MET:HE2	1.96	0.48
1:f:699:VAL:HG23	1:f:702:ALA:HB3	1.95	0.48
1:i:238:VAL:HG13	1:i:362:THR:HG22	1.95	0.48
1:p:619:HIS:HA	2:iA:997:DA:H2'	1.95	0.48
1:s:330:THR:HG21	1:s:395:MET:HE2	1.96	0.48
1:u:228:ARG:NH1	1:u:300:ARG:HG3	2.27	0.48
1:y:380:THR:HG22	1:y:381:GLU:N	2.28	0.48
1:z:372:ASN:ND2	1:z:376:THR:O	2.29	0.48
1:3:330:THR:HG21	1:3:395:MET:HE2	1.96	0.48
1:8:238:VAL:HG13	1:8:362:THR:HG22	1.95	0.48
1:A:238:VAL:HG13	1:A:362:THR:HG22	1.95	0.48
1:F:207:GLY:N	1:G:209:ASP:HB3	2.29	0.48
1:N:238:VAL:HG13	1:N:362:THR:HG22	1.95	0.48
1:O:380:THR:HG22	1:O:381:GLU:N	2.28	0.48
1:S:380:THR:HG22	1:S:381:GLU:N	2.29	0.48
1:W:699:VAL:HG23	1:W:702:ALA:HB3	1.95	0.48
1:d:238:VAL:HG13	1:d:362:THR:HG22	1.95	0.48
1:d:380:THR:HG22	1:d:381:GLU:N	2.28	0.48
1:f:422:ASN:HB3	1:f:425:LYS:HB2	1.95	0.48
1:h:380:THR:HG22	1:h:381:GLU:N	2.29	0.48
1:h:699:VAL:HG23	1:h:702:ALA:HB3	1.95	0.48
1:r:380:THR:HG22	1:r:381:GLU:N	2.29	0.48
1:s:422:ASN:HB3	1:s:425:LYS:HB2	1.95	0.48
1:v:238:VAL:HG13	1:v:362:THR:HG22	1.95	0.48
1:w:619:HIS:HA	2:pA:997:DA:H2'	1.95	0.48
1:x:619:HIS:HA	2:rA:997:DA:H2'	1.95	0.48
1:7:380:THR:HG22	1:7:381:GLU:N	2.29	0.48
1:B:422:ASN:HB3	1:B:425:LYS:HB2	1.95	0.48
1:D:330:THR:HG21	1:D:395:MET:HE2	1.96	0.48
1:J:380:THR:HG22	1:J:381:GLU:N	2.28	0.48
1:L:330:THR:HG21	1:L:395:MET:HE2	1.96	0.48
1:M:380:THR:HG22	1:M:381:GLU:N	2.29	0.48
1:N:380:THR:HG22	1:N:381:GLU:N	2.28	0.48
1:O:699:VAL:HG23	1:O:702:ALA:HB3	1.95	0.48
1:R:238:VAL:HG13	1:R:362:THR:HG22	1.95	0.48
1:T:330:THR:HG21	1:T:395:MET:HE2	1.96	0.48
1:W:238:VAL:HG13	1:W:362:THR:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:330:THR:HG21	1:X:395:MET:HE2	1.96	0.48
1:b:422:ASN:HB3	1:b:425:LYS:HB2	1.95	0.48
1:k:330:THR:HG21	1:k:395:MET:HE2	1.96	0.48
1:l:380:THR:HG22	1:l:381:GLU:N	2.29	0.48
1:l:699:VAL:HG23	1:l:702:ALA:HB3	1.95	0.48
1:m:330:THR:HG21	1:m:395:MET:HE2	1.96	0.48
1:n:238:VAL:HG13	1:n:362:THR:HG22	1.95	0.48
1:n:380:THR:HG22	1:n:381:GLU:N	2.28	0.48
1:q:238:VAL:HG13	1:q:362:THR:HG22	1.95	0.48
1:u:238:VAL:HG13	1:u:362:THR:HG22	1.95	0.48
1:y:238:VAL:HG13	1:y:362:THR:HG22	1.95	0.48
1:z:330:THR:HG21	1:z:395:MET:HE2	1.96	0.48
1:z:380:THR:HG22	1:z:381:GLU:N	2.29	0.48
1:3:380:THR:HG22	1:3:381:GLU:N	2.28	0.48
1:6:238:VAL:HG13	1:6:362:THR:HG22	1.95	0.48
1:6:699:VAL:HG23	1:6:702:ALA:HB3	1.95	0.48
1:7:238:VAL:HG13	1:7:362:THR:HG22	1.95	0.48
1:B:330:THR:HG21	1:B:395:MET:HE2	1.96	0.48
1:D:422:ASN:HB3	1:D:425:LYS:HB2	1.95	0.48
1:E:699:VAL:HG23	1:E:702:ALA:HB3	1.95	0.48
1:I:238:VAL:HG13	1:I:362:THR:HG22	1.95	0.48
1:J:699:VAL:HG23	1:J:702:ALA:HB3	1.94	0.48
1:K:209:ASP:HB3	1:7:207:GLY:N	2.29	0.48
1:K:707:GLY:HA2	1:L:247:TYR:O	2.14	0.48
1:N:619:HIS:HA	2:DA:997:DA:H2'	1.95	0.48
1:R:330:THR:HG21	1:R:395:MET:HE2	1.96	0.48
1:R:619:HIS:HA	2:HA:997:DA:H2'	1.95	0.48
1:U:380:THR:HG22	1:U:381:GLU:N	2.28	0.48
1:Y:207:GLY:N	1:4:209:ASP:HB3	2.29	0.48
1:Y:238:VAL:HG13	1:Y:362:THR:HG22	1.95	0.48
1:Z:247:TYR:O	1:a:707:GLY:HA2	2.14	0.48
1:a:380:THR:HG22	1:a:381:GLU:N	2.28	0.48
1:e:228:ARG:NH1	1:e:300:ARG:HG3	2.27	0.48
1:h:228:ARG:NH1	1:h:300:ARG:HG3	2.27	0.48
1:h:619:HIS:HA	2:ZA:997:DA:H2'	1.95	0.48
1:i:380:THR:HG22	1:i:381:GLU:N	2.29	0.48
1:q:619:HIS:HA	2:jA:997:DA:H2'	1.95	0.48
1:w:330:THR:HG21	1:w:395:MET:HE2	1.96	0.48
1:w:699:VAL:HG23	1:w:702:ALA:HB3	1.95	0.48
1:x:380:THR:HG22	1:x:381:GLU:N	2.29	0.48
1:z:247:TYR:O	1:4:707:GLY:HA2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:380:THR:HG22	1:8:381:GLU:N	2.29	0.48
1:E:228:ARG:NH1	1:E:300:ARG:HG3	2.27	0.48
1:F:238:VAL:HG13	1:F:362:THR:HG22	1.95	0.48
1:G:707:GLY:HA2	1:W:247:TYR:O	2.14	0.48
1:J:619:HIS:HA	2:9:997:DA:H2'	1.95	0.48
1:L:238:VAL:HG13	1:L:362:THR:HG22	1.95	0.48
1:M:619:HIS:HA	2:CA:997:DA:H2'	1.95	0.48
1:Q:247:TYR:OH	1:Q:389:GLU:OE1	2.28	0.48
1:Q:380:THR:HG22	1:Q:381:GLU:N	2.29	0.48
1:S:247:TYR:OH	1:S:389:GLU:OE1	2.28	0.48
1:Z:380:THR:HG22	1:Z:381:GLU:N	2.29	0.48
1:Z:397:ARG:HH12	1:a:398:THR:HG22	1.79	0.48
1:b:238:VAL:HG13	1:b:362:THR:HG22	1.95	0.48
1:h:707:GLY:HA2	1:i:247:TYR:O	2.14	0.48
1:o:330:THR:HG21	1:o:395:MET:HE2	1.96	0.48
1:q:330:THR:HG21	1:q:395:MET:HE2	1.96	0.48
1:r:699:VAL:HG23	1:r:702:ALA:HB3	1.95	0.48
1:s:380:THR:HG22	1:s:381:GLU:N	2.29	0.48
1:1:330:THR:HG21	1:1:395:MET:HE2	1.96	0.48
1:1:422:ASN:HB3	1:1:425:LYS:HB2	1.95	0.48
1:1:699:VAL:HG23	1:1:702:ALA:HB3	1.95	0.48
1:2:380:THR:HG22	1:2:381:GLU:N	2.29	0.48
1:7:330:THR:HG21	1:7:395:MET:HE2	1.96	0.48
1:B:699:VAL:HG23	1:B:702:ALA:HB3	1.95	0.48
1:E:330:THR:HG21	1:E:395:MET:HE2	1.96	0.48
1:F:707:GLY:HA2	1:G:247:TYR:O	2.14	0.48
1:G:699:VAL:HG23	1:G:702:ALA:HB3	1.95	0.48
1:H:238:VAL:HG13	1:H:362:THR:HG22	1.95	0.48
1:K:228:ARG:NH1	1:K:300:ARG:HG3	2.27	0.48
1:L:372:ASN:ND2	1:L:376:THR:O	2.29	0.48
1:M:707:GLY:HA2	1:N:247:TYR:O	2.14	0.48
1:O:397:ARG:HH12	1:d:398:THR:HG22	1.79	0.48
1:P:380:THR:HG22	1:P:381:GLU:N	2.29	0.48
1:W:380:THR:HG22	1:W:381:GLU:N	2.29	0.48
1:Y:330:THR:HG21	1:Y:395:MET:HE2	1.96	0.48
1:Z:619:HIS:HA	2:QA:997:DA:H2'	1.95	0.48
1:b:330:THR:HG21	1:b:395:MET:HE2	1.96	0.48
1:b:418:ALA:N	1:b:720:LEU:O	2.41	0.48
1:c:228:ARG:NH1	1:c:300:ARG:HG3	2.27	0.48
1:f:238:VAL:HG13	1:f:362:THR:HG22	1.95	0.48
1:f:330:THR:HG21	1:f:395:MET:HE2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:380:THR:HG22	1:j:381:GLU:N	2.28	0.48
1:k:422:ASN:HB3	1:k:425:LYS:HB2	1.95	0.48
1:l:397:ARG:HH12	1:n:398:THR:HG22	1.79	0.48
1:p:370:THR:HG21	1:p:384:SER:O	2.14	0.48
1:p:418:ALA:N	1:p:720:LEU:O	2.41	0.48
1:t:209:ASP:HB3	1:y:207:GLY:N	2.29	0.48
1:t:699:VAL:HG23	1:t:702:ALA:HB3	1.95	0.48
1:v:707:GLY:HA2	1:w:247:TYR:O	2.14	0.48
1:z:238:VAL:HG13	1:z:362:THR:HG22	1.95	0.48
1:3:228:ARG:NH1	1:3:300:ARG:HG3	2.27	0.48
1:3:707:GLY:HA2	1:8:247:TYR:O	2.14	0.48
1:5:238:VAL:HG13	1:5:362:THR:HG22	1.95	0.48
1:5:699:VAL:HG23	1:5:702:ALA:HB3	1.95	0.48
1:6:330:THR:HG21	1:6:395:MET:HE2	1.96	0.48
1:8:619:HIS:HA	2:2A:997:DA:H2'	1.95	0.48
1:A:207:GLY:N	1:E:209:ASP:HB3	2.29	0.48
1:A:707:GLY:HA2	1:E:247:TYR:O	2.14	0.48
1:C:422:ASN:HB3	1:C:425:LYS:HB2	1.95	0.48
1:F:330:THR:HG21	1:F:395:MET:HE2	1.96	0.48
1:G:380:THR:HG22	1:G:381:GLU:N	2.29	0.48
1:K:699:VAL:HG23	1:K:702:ALA:HB3	1.94	0.48
1:Q:238:VAL:HG13	1:Q:362:THR:HG22	1.95	0.48
1:S:370:THR:HG21	1:S:384:SER:O	2.14	0.48
1:T:422:ASN:HB3	1:T:425:LYS:HB2	1.95	0.48
1:V:270:TRP:CD1	1:V:388:LEU:HD12	2.49	0.48
1:V:370:THR:HG21	1:V:384:SER:O	2.14	0.48
1:W:270:TRP:CD1	1:W:388:LEU:HD12	2.49	0.48
1:X:380:THR:HG22	1:X:381:GLU:N	2.29	0.48
1:a:372:ASN:ND2	1:a:376:THR:O	2.29	0.48
1:a:418:ALA:N	1:a:720:LEU:O	2.41	0.48
1:b:270:TRP:CD1	1:b:388:LEU:HD12	2.49	0.48
1:b:370:THR:HG21	1:b:384:SER:O	2.14	0.48
1:b:707:GLY:HA2	1:o:247:TYR:O	2.14	0.48
1:c:699:VAL:HG23	1:c:702:ALA:HB3	1.95	0.48
1:e:699:VAL:HG23	1:e:702:ALA:HB3	1.95	0.48
1:f:270:TRP:CD1	1:f:388:LEU:HD12	2.49	0.48
1:f:370:THR:HG21	1:f:384:SER:O	2.14	0.48
1:i:619:HIS:HA	2:aA:997:DA:H2'	1.95	0.48
1:m:422:ASN:HB3	1:m:425:LYS:HB2	1.95	0.48
1:r:370:THR:HG21	1:r:384:SER:O	2.14	0.48
1:t:262:ALA:O	1:v:425:LYS:NZ	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:228:ARG:NH1	1:w:300:ARG:HG3	2.27	0.48
1:x:238:VAL:HG13	1:x:362:THR:HG22	1.95	0.48
1:x:330:THR:HG21	1:x:395:MET:HE2	1.96	0.48
1:x:370:THR:HG21	1:x:384:SER:O	2.14	0.48
1:2:619:HIS:HA	2:vA:997:DA:H2'	1.95	0.48
1:3:418:ALA:N	1:3:720:LEU:O	2.41	0.48
1:A:247:TYR:O	1:B:707:GLY:HA2	2.14	0.47
1:C:619:HIS:HA	2:UA:997:DA:H2'	1.95	0.47
1:C:699:VAL:HG23	1:C:702:ALA:HB3	1.95	0.47
1:H:699:VAL:HG23	1:H:702:ALA:HB3	1.95	0.47
1:L:270:TRP:CD1	1:L:388:LEU:HD12	2.49	0.47
1:M:370:THR:HG21	1:M:384:SER:O	2.14	0.47
1:N:207:GLY:N	1:m:209:ASP:HB3	2.29	0.47
1:N:699:VAL:HG23	1:N:702:ALA:HB3	1.95	0.47
1:P:370:THR:HG21	1:P:384:SER:O	2.14	0.47
1:Q:330:THR:HG21	1:Q:395:MET:HE2	1.96	0.47
1:Q:370:THR:HG21	1:Q:384:SER:O	2.14	0.47
1:S:699:VAL:HG23	1:S:702:ALA:HB3	1.95	0.47
1:U:707:GLY:HA2	1:e:247:TYR:O	2.14	0.47
1:W:330:THR:HG21	1:W:395:MET:HE2	1.96	0.47
1:X:247:TYR:O	1:f:707:GLY:HA2	2.14	0.47
1:Y:228:ARG:NH1	1:Y:300:ARG:HG3	2.27	0.47
1:Z:209:ASP:HB3	1:a:207:GLY:N	2.29	0.47
1:c:247:TYR:O	1:s:707:GLY:HA2	2.14	0.47
1:f:247:TYR:O	1:z:707:GLY:HA2	2.14	0.47
1:f:380:THR:HG22	1:f:381:GLU:N	2.29	0.47
1:f:418:ALA:N	1:f:720:LEU:O	2.41	0.47
1:g:422:ASN:HB3	1:g:425:LYS:HB2	1.95	0.47
1:g:699:VAL:HG23	1:g:702:ALA:HB3	1.95	0.47
1:h:370:THR:HG21	1:h:384:SER:O	2.14	0.47
1:j:370:THR:HG21	1:j:384:SER:O	2.14	0.47
1:o:380:THR:HG22	1:o:381:GLU:N	2.29	0.47
1:p:270:TRP:CD1	1:p:388:LEU:HD12	2.49	0.47
1:p:422:ASN:HB3	1:p:425:LYS:HB2	1.95	0.47
1:r:247:TYR:OH	1:r:389:GLU:OE1	2.28	0.47
1:v:207:GLY:N	1:w:209:ASP:HB3	2.29	0.47
1:v:247:TYR:O	1:l:707:GLY:HA2	2.14	0.47
1:v:270:TRP:CD1	1:v:388:LEU:HD12	2.49	0.47
1:y:330:THR:HG21	1:y:395:MET:HE2	1.96	0.47
1:z:270:TRP:CD1	1:z:388:LEU:HD12	2.49	0.47
1:2:207:GLY:N	1:3:209:ASP:HB3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:699:VAL:HG23	1:2:702:ALA:HB3	1.95	0.47
1:4:270:TRP:CD1	1:4:388:LEU:HD12	2.49	0.47
1:4:699:VAL:HG23	1:4:702:ALA:HB3	1.94	0.47
1:6:270:TRP:CD1	1:6:388:LEU:HD12	2.49	0.47
1:6:380:THR:HG22	1:6:381:GLU:N	2.29	0.47
1:7:228:ARG:NH1	1:7:300:ARG:HG3	2.27	0.47
1:A:270:TRP:CD1	1:A:388:LEU:HD12	2.49	0.47
1:B:370:THR:HG21	1:B:384:SER:O	2.14	0.47
1:K:270:TRP:CD1	1:K:388:LEU:HD12	2.50	0.47
1:R:270:TRP:CD1	1:R:388:LEU:HD12	2.49	0.47
1:T:209:ASP:HB3	1:i:207:GLY:N	2.29	0.47
1:X:699:VAL:HG23	1:X:702:ALA:HB3	1.95	0.47
1:a:228:ARG:NH1	1:a:300:ARG:HG3	2.27	0.47
1:b:380:THR:HG22	1:b:381:GLU:N	2.29	0.47
1:d:370:THR:HG21	1:d:384:SER:O	2.14	0.47
1:d:699:VAL:HG23	1:d:702:ALA:HB3	1.95	0.47
1:g:418:ALA:N	1:g:720:LEU:O	2.41	0.47
1:h:422:ASN:HB3	1:h:425:LYS:HB2	1.95	0.47
1:i:699:VAL:HG23	1:i:702:ALA:HB3	1.95	0.47
1:k:270:TRP:CD1	1:k:388:LEU:HD12	2.49	0.47
1:n:370:THR:HG21	1:n:384:SER:O	2.14	0.47
1:q:270:TRP:CD1	1:q:388:LEU:HD12	2.49	0.47
1:t:247:TYR:O	1:y:707:GLY:HA2	2.14	0.47
1:t:380:THR:HG22	1:t:381:GLU:N	2.29	0.47
1:4:228:ARG:NH1	1:4:300:ARG:HG3	2.27	0.47
1:B:276:ASN:O	1:B:606:PRO:HA	2.15	0.47
1:D:270:TRP:CD1	1:D:388:LEU:HD12	2.49	0.47
1:D:380:THR:HG22	1:D:381:GLU:N	2.28	0.47
1:D:619:HIS:HA	2:fA:997:DA:H2'	1.95	0.47
1:H:270:TRP:CD1	1:H:388:LEU:HD12	2.49	0.47
1:L:276:ASN:O	1:L:606:PRO:HA	2.15	0.47
1:L:707:GLY:HA2	1:b:247:TYR:O	2.14	0.47
1:M:228:ARG:NH1	1:M:300:ARG:HG3	2.27	0.47
1:V:418:ALA:N	1:V:720:LEU:O	2.41	0.47
1:V:422:ASN:HB3	1:V:425:LYS:HB2	1.95	0.47
1:g:619:HIS:HA	2:YA:997:DA:H2'	1.95	0.47
1:k:619:HIS:HA	2:cA:997:DA:H2'	1.95	0.47
1:n:699:VAL:HG23	1:n:702:ALA:HB3	1.95	0.47
1:p:699:VAL:HG23	1:p:702:ALA:HB3	1.95	0.47
1:t:397:ARG:HH12	1:y:398:THR:HG22	1.79	0.47
1:v:370:THR:HG21	1:v:384:SER:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:370:THR:HG21	1:1:384:SER:O	2.14	0.47
1:2:707:GLY:HA2	1:3:247:TYR:O	2.14	0.47
1:4:380:THR:HG22	1:4:381:GLU:N	2.28	0.47
1:5:270:TRP:CD1	1:5:388:LEU:HD12	2.49	0.47
1:A:370:THR:HG21	1:A:384:SER:O	2.14	0.47
1:I:276:ASN:O	1:I:606:PRO:HA	2.15	0.47
1:I:619:HIS:HA	2:5A:997:DA:H2'	1.95	0.47
1:J:270:TRP:CD1	1:J:388:LEU:HD12	2.49	0.47
1:K:276:ASN:O	1:K:606:PRO:HA	2.15	0.47
1:K:380:THR:HG22	1:K:381:GLU:N	2.29	0.47
1:M:276:ASN:O	1:M:606:PRO:HA	2.15	0.47
1:M:422:ASN:HB3	1:M:425:LYS:HB2	1.95	0.47
1:O:270:TRP:CD1	1:O:388:LEU:HD12	2.49	0.47
1:Q:398:THR:HG22	1:S:397:ARG:HH12	1.80	0.47
1:T:276:ASN:O	1:T:606:PRO:HA	2.15	0.47
1:U:207:GLY:N	1:e:209:ASP:HB3	2.30	0.47
1:V:699:VAL:HG23	1:V:702:ALA:HB3	1.95	0.47
1:Z:276:ASN:O	1:Z:606:PRO:HA	2.15	0.47
1:Z:330:THR:HG21	1:Z:395:MET:HE2	1.96	0.47
1:c:270:TRP:CD1	1:c:388:LEU:HD12	2.49	0.47
1:d:270:TRP:CD1	1:d:388:LEU:HD12	2.49	0.47
1:e:276:ASN:O	1:e:606:PRO:HA	2.15	0.47
1:h:276:ASN:O	1:h:606:PRO:HA	2.15	0.47
1:i:370:THR:HG21	1:i:384:SER:O	2.14	0.47
1:l:270:TRP:CD1	1:l:388:LEU:HD12	2.49	0.47
1:n:270:TRP:CD1	1:n:388:LEU:HD12	2.49	0.47
1:p:247:TYR:O	1:6:707:GLY:HA2	2.15	0.47
1:p:380:THR:HG22	1:p:381:GLU:N	2.29	0.47
1:r:397:ARG:HH12	1:x:398:THR:HG22	1.80	0.47
1:s:370:THR:HG21	1:s:384:SER:O	2.14	0.47
1:u:276:ASN:O	1:u:606:PRO:HA	2.15	0.47
1:u:619:HIS:HA	2:nA:997:DA:H2'	1.95	0.47
1:z:276:ASN:O	1:z:606:PRO:HA	2.15	0.47
1:1:276:ASN:O	1:1:606:PRO:HA	2.15	0.47
1:1:380:THR:HG22	1:1:381:GLU:N	2.28	0.47
1:2:270:TRP:CD1	1:2:388:LEU:HD12	2.49	0.47
1:4:276:ASN:O	1:4:606:PRO:HA	2.15	0.47
1:6:619:HIS:HA	2:zA:997:DA:H2'	1.95	0.47
1:8:276:ASN:O	1:8:606:PRO:HA	2.15	0.47
1:B:380:THR:HG22	1:B:381:GLU:N	2.29	0.47
1:J:207:GLY:N	1:a:209:ASP:HB3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:276:ASN:O	1:J:606:PRO:HA	2.15	0.47
1:N:370:THR:HG21	1:N:384:SER:O	2.14	0.47
1:N:707:GLY:HA2	1:m:247:TYR:O	2.15	0.47
1:U:370:THR:HG21	1:U:384:SER:O	2.14	0.47
1:V:247:TYR:O	1:W:707:GLY:HA2	2.15	0.47
1:a:270:TRP:CD1	1:a:388:LEU:HD12	2.49	0.47
1:c:209:ASP:HB3	1:s:207:GLY:N	2.30	0.47
1:c:276:ASN:O	1:c:606:PRO:HA	2.15	0.47
1:e:270:TRP:CD1	1:e:388:LEU:HD12	2.49	0.47
1:g:209:ASP:HB3	1:k:207:GLY:N	2.29	0.47
1:l:238:VAL:HG13	1:l:362:THR:HG22	1.95	0.47
1:m:276:ASN:O	1:m:606:PRO:HA	2.15	0.47
1:n:397:ARG:HH12	1:r:398:THR:HG22	1.80	0.47
1:o:370:THR:HG21	1:o:384:SER:O	2.14	0.47
1:o:699:VAL:HG23	1:o:702:ALA:HB3	1.95	0.47
1:t:398:THR:HG22	1:6:397:ARG:HH12	1.80	0.47
1:t:707:GLY:HA2	1:6:247:TYR:O	2.14	0.47
1:v:397:ARG:HH12	1:1:398:THR:HG22	1.80	0.47
1:2:398:THR:HG22	1:3:397:ARG:HH12	1.79	0.47
1:3:270:TRP:CD1	1:3:388:LEU:HD12	2.49	0.47
1:6:370:THR:HG21	1:6:384:SER:O	2.14	0.47
1:8:228:ARG:NH1	1:8:300:ARG:HG3	2.27	0.47
1:A:397:ARG:HH12	1:B:398:THR:HG22	1.80	0.47
1:B:270:TRP:CD1	1:B:388:LEU:HD12	2.49	0.47
1:C:418:ALA:N	1:C:720:LEU:O	2.41	0.47
1:E:276:ASN:O	1:E:606:PRO:HA	2.15	0.47
1:E:370:THR:HG21	1:E:384:SER:O	2.14	0.47
1:F:398:THR:HG22	1:G:397:ARG:HH12	1.80	0.47
1:O:276:ASN:O	1:O:606:PRO:HA	2.15	0.47
1:O:305:LYS:HB3	1:O:668:THR:HG22	1.97	0.47
1:S:398:THR:HG22	1:d:397:ARG:HH12	1.80	0.47
1:T:247:TYR:O	1:i:707:GLY:HA2	2.15	0.47
1:V:380:THR:HG22	1:V:381:GLU:N	2.29	0.47
1:W:370:THR:HG21	1:W:384:SER:O	2.14	0.47
1:W:619:HIS:HA	2:NA:997:DA:H2'	1.95	0.47
1:X:370:THR:HG21	1:X:384:SER:O	2.14	0.47
1:b:276:ASN:O	1:b:606:PRO:HA	2.15	0.47
1:c:619:HIS:HA	2:TA:997:DA:H2'	1.95	0.47
1:d:227:ASP:O	1:d:675:LEU:HD22	2.15	0.47
1:d:330:THR:HG21	1:d:395:MET:HE2	1.96	0.47
1:e:305:LYS:HB3	1:e:668:THR:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:398:THR:HG22	1:h:397:ARG:HH12	1.80	0.47
1:g:228:ARG:NH1	1:g:300:ARG:HG3	2.27	0.47
1:h:207:GLY:N	1:i:209:ASP:HB3	2.30	0.47
1:k:380:THR:HG22	1:k:381:GLU:N	2.29	0.47
1:n:330:THR:HG21	1:n:395:MET:HE2	1.96	0.47
1:o:418:ALA:N	1:o:720:LEU:O	2.41	0.47
1:w:276:ASN:O	1:w:606:PRO:HA	2.15	0.47
1:1:270:TRP:CD1	1:1:388:LEU:HD12	2.49	0.47
1:2:276:ASN:O	1:2:606:PRO:HA	2.15	0.47
1:3:372:ASN:ND2	1:3:376:THR:O	2.29	0.47
1:5:418:ALA:N	1:5:720:LEU:O	2.41	0.47
1:8:330:THR:HG21	1:8:395:MET:HE2	1.96	0.47
1:A:305:LYS:HB3	1:A:668:THR:HG22	1.97	0.47
1:A:330:THR:HG21	1:A:395:MET:HE2	1.96	0.47
1:B:247:TYR:O	1:C:707:GLY:HA2	2.14	0.47
1:C:209:ASP:HB3	1:D:207:GLY:N	2.29	0.47
1:C:228:ARG:NH1	1:C:300:ARG:HG3	2.27	0.47
1:D:209:ASP:HB3	1:E:207:GLY:N	2.30	0.47
1:D:227:ASP:O	1:D:675:LEU:HD22	2.15	0.47
1:D:247:TYR:O	1:E:707:GLY:HA2	2.14	0.47
1:D:370:THR:HG21	1:D:384:SER:O	2.14	0.47
1:F:209:ASP:HB3	1:R:207:GLY:N	2.30	0.47
1:F:270:TRP:CD1	1:F:388:LEU:HD12	2.49	0.47
1:F:370:THR:HG21	1:F:384:SER:O	2.14	0.47
1:G:227:ASP:O	1:G:675:LEU:HD22	2.15	0.47
1:I:207:GLY:N	1:J:209:ASP:HB3	2.30	0.47
1:I:227:ASP:O	1:I:675:LEU:HD22	2.15	0.47
1:J:422:ASN:HB3	1:J:425:LYS:HB2	1.95	0.47
1:L:227:ASP:O	1:L:675:LEU:HD22	2.15	0.47
1:L:292:ASN:O	1:L:720:LEU:HD21	2.15	0.47
1:M:207:GLY:N	1:N:209:ASP:HB3	2.30	0.47
1:M:397:ARG:HH12	1:c:398:THR:HG22	1.80	0.47
1:M:398:THR:HG22	1:N:397:ARG:HH12	1.80	0.47
1:M:439:VAL:HG21	1:M:450:ASN:HB2	1.97	0.47
1:N:227:ASP:O	1:N:675:LEU:HD22	2.15	0.47
1:N:398:THR:HG22	1:m:397:ARG:HH12	1.80	0.47
1:N:418:ALA:N	1:N:720:LEU:O	2.41	0.47
1:O:209:ASP:HB3	1:d:207:GLY:N	2.29	0.47
1:O:238:VAL:HG13	1:O:362:THR:HG22	1.95	0.47
1:O:247:TYR:O	1:d:707:GLY:HA2	2.14	0.47
1:O:292:ASN:O	1:O:720:LEU:HD21	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:270:TRP:CD1	1:P:388:LEU:HD12	2.49	0.47
1:P:305:LYS:HB3	1:P:668:THR:HG22	1.97	0.47
1:P:330:THR:HG21	1:P:395:MET:HE2	1.96	0.47
1:P:398:THR:HG22	1:Q:397:ARG:HH12	1.80	0.47
1:P:707:GLY:HA2	1:Q:247:TYR:O	2.14	0.47
1:Q:207:GLY:N	1:S:209:ASP:HB3	2.30	0.47
1:R:227:ASP:O	1:R:675:LEU:HD22	2.15	0.47
1:R:292:ASN:O	1:R:720:LEU:HD21	2.15	0.47
1:R:305:LYS:HB3	1:R:668:THR:HG22	1.97	0.47
1:S:330:THR:HG21	1:S:395:MET:HE2	1.96	0.47
1:S:707:GLY:HA2	1:d:247:TYR:O	2.14	0.47
1:T:292:ASN:O	1:T:720:LEU:HD21	2.15	0.47
1:U:228:ARG:NH1	1:U:300:ARG:HG3	2.27	0.47
1:V:209:ASP:HB3	1:W:207:GLY:N	2.29	0.47
1:V:397:ARG:HH12	1:W:398:THR:HG22	1.80	0.47
1:X:276:ASN:O	1:X:606:PRO:HA	2.15	0.47
1:X:305:LYS:HB3	1:X:668:THR:HG22	1.97	0.47
1:X:398:THR:HG22	1:Y:397:ARG:HH12	1.80	0.47
1:Y:227:ASP:O	1:Y:675:LEU:HD22	2.15	0.47
1:Y:370:THR:HG21	1:Y:384:SER:O	2.14	0.47
1:Z:228:ARG:NH1	1:Z:300:ARG:HG3	2.27	0.47
1:b:292:ASN:O	1:b:720:LEU:HD21	2.15	0.47
1:d:276:ASN:O	1:d:606:PRO:HA	2.15	0.47
1:d:292:ASN:O	1:d:720:LEU:HD21	2.15	0.47
1:e:207:GLY:N	1:h:209:ASP:HB3	2.29	0.47
1:e:619:HIS:HA	2:WA:997:DA:H2'	1.95	0.47
1:f:276:ASN:O	1:f:606:PRO:HA	2.15	0.47
1:f:292:ASN:O	1:f:720:LEU:HD21	2.15	0.47
1:g:707:GLY:HA2	1:l:247:TYR:O	2.14	0.47
1:h:439:VAL:HG21	1:h:450:ASN:HB2	1.97	0.47
1:i:227:ASP:O	1:i:675:LEU:HD22	2.15	0.47
1:i:418:ALA:N	1:i:720:LEU:O	2.41	0.47
1:j:270:TRP:CD1	1:j:388:LEU:HD12	2.49	0.47
1:j:292:ASN:O	1:j:720:LEU:HD21	2.15	0.47
1:j:305:LYS:HB3	1:j:668:THR:HG22	1.97	0.47
1:j:398:THR:HG22	1:x:397:ARG:HH12	1.80	0.47
1:k:247:TYR:O	1:w:707:GLY:HA2	2.14	0.47
1:k:370:THR:HG21	1:k:384:SER:O	2.14	0.47
1:l:209:ASP:HB3	1:n:207:GLY:N	2.29	0.47
1:l:247:TYR:O	1:n:707:GLY:HA2	2.14	0.47
1:l:276:ASN:O	1:l:606:PRO:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:305:LYS:HB3	1:l:668:THR:HG22	1.97	0.47
1:m:292:ASN:O	1:m:720:LEU:HD21	2.15	0.47
1:n:227:ASP:O	1:n:675:LEU:HD22	2.15	0.47
1:n:247:TYR:O	1:r:707:GLY:HA2	2.14	0.47
1:n:292:ASN:O	1:n:720:LEU:HD21	2.15	0.47
1:o:276:ASN:O	1:o:606:PRO:HA	2.15	0.47
1:o:305:LYS:HB3	1:o:668:THR:HG22	1.97	0.47
1:p:397:ARG:HH12	1:6:398:THR:HG22	1.80	0.47
1:q:207:GLY:N	1:y:209:ASP:HB3	2.30	0.47
1:q:227:ASP:O	1:q:675:LEU:HD22	2.15	0.47
1:q:292:ASN:O	1:q:720:LEU:HD21	2.15	0.47
1:q:305:LYS:HB3	1:q:668:THR:HG22	1.97	0.47
1:r:330:THR:HG21	1:r:395:MET:HE2	1.96	0.47
1:s:292:ASN:O	1:s:720:LEU:HD21	2.15	0.47
1:s:305:LYS:HB3	1:s:668:THR:HG22	1.97	0.47
1:t:227:ASP:O	1:t:675:LEU:HD22	2.15	0.47
1:u:207:GLY:N	1:2:209:ASP:HB3	2.30	0.47
1:u:227:ASP:O	1:u:675:LEU:HD22	2.15	0.47
1:v:276:ASN:O	1:v:606:PRO:HA	2.15	0.47
1:v:305:LYS:HB3	1:v:668:THR:HG22	1.97	0.47
1:v:330:THR:HG21	1:v:395:MET:HE2	1.96	0.47
1:w:370:THR:HG21	1:w:384:SER:O	2.14	0.47
1:x:418:ALA:N	1:x:720:LEU:O	2.41	0.47
1:y:270:TRP:CD1	1:y:388:LEU:HD12	2.49	0.47
1:y:370:THR:HG21	1:y:384:SER:O	2.14	0.47
1:z:227:ASP:O	1:z:675:LEU:HD22	2.15	0.47
1:z:292:ASN:O	1:z:720:LEU:HD21	2.15	0.47
1:1:238:VAL:HG13	1:1:362:THR:HG22	1.95	0.47
1:2:422:ASN:HB3	1:2:425:LYS:HB2	1.95	0.47
1:3:207:GLY:N	1:8:209:ASP:HB3	2.30	0.47
1:3:398:THR:HG22	1:8:397:ARG:HH12	1.80	0.47
1:4:305:LYS:HB3	1:4:668:THR:HG22	1.97	0.47
1:7:227:ASP:O	1:7:675:LEU:HD22	2.15	0.47
1:7:370:THR:HG21	1:7:384:SER:O	2.14	0.47
1:A:276:ASN:O	1:A:606:PRO:HA	2.15	0.47
1:A:292:ASN:O	1:A:720:LEU:HD21	2.15	0.47
1:B:238:VAL:HG13	1:B:362:THR:HG22	1.95	0.47
1:D:292:ASN:O	1:D:720:LEU:HD21	2.15	0.47
1:F:276:ASN:O	1:F:606:PRO:HA	2.15	0.47
1:G:276:ASN:O	1:G:606:PRO:HA	2.15	0.47
1:K:305:LYS:HB3	1:K:668:THR:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:209:ASP:HB3	1:c:207:GLY:N	2.29	0.47
1:M:292:ASN:O	1:M:720:LEU:HD21	2.15	0.47
1:N:270:TRP:CD1	1:N:388:LEU:HD12	2.49	0.47
1:P:292:ASN:O	1:P:720:LEU:HD21	2.15	0.47
1:Q:227:ASP:O	1:Q:675:LEU:HD22	2.15	0.47
1:R:439:VAL:HG21	1:R:450:ASN:HB2	1.97	0.47
1:S:270:TRP:CD1	1:S:388:LEU:HD12	2.49	0.47
1:T:397:ARG:HH12	1:i:398:THR:HG22	1.80	0.47
1:U:292:ASN:O	1:U:720:LEU:HD21	2.15	0.47
1:U:305:LYS:HB3	1:U:668:THR:HG22	1.97	0.47
1:U:398:THR:HG22	1:e:397:ARG:HH12	1.80	0.47
1:X:207:GLY:N	1:Y:209:ASP:HB3	2.30	0.47
1:X:270:TRP:CD1	1:X:388:LEU:HD12	2.49	0.47
1:Z:270:TRP:CD1	1:Z:388:LEU:HD12	2.49	0.47
1:c:292:ASN:O	1:c:720:LEU:HD21	2.15	0.47
1:c:305:LYS:HB3	1:c:668:THR:HG22	1.97	0.47
1:c:397:ARG:HH12	1:s:398:THR:HG22	1.80	0.47
1:h:292:ASN:O	1:h:720:LEU:HD21	2.15	0.47
1:h:398:THR:HG22	1:i:397:ARG:HH12	1.80	0.47
1:j:330:THR:HG21	1:j:395:MET:HE2	1.96	0.47
1:j:707:GLY:HA2	1:x:247:TYR:O	2.14	0.47
1:k:227:ASP:O	1:k:675:LEU:HD22	2.15	0.47
1:k:292:ASN:O	1:k:720:LEU:HD21	2.15	0.47
1:l:292:ASN:O	1:l:720:LEU:HD21	2.15	0.47
1:m:370:THR:HG21	1:m:384:SER:O	2.14	0.47
1:n:276:ASN:O	1:n:606:PRO:HA	2.15	0.47
1:o:207:GLY:N	1:7:209:ASP:HB3	2.30	0.47
1:o:270:TRP:CD1	1:o:388:LEU:HD12	2.49	0.47
1:o:398:THR:HG22	1:7:397:ARG:HH12	1.80	0.47
1:p:209:ASP:HB3	1:6:207:GLY:N	2.29	0.47
1:q:276:ASN:O	1:q:606:PRO:HA	2.15	0.47
1:q:439:VAL:HG21	1:q:450:ASN:HB2	1.97	0.47
1:r:209:ASP:HB3	1:x:207:GLY:N	2.30	0.47
1:r:247:TYR:O	1:x:707:GLY:HA2	2.14	0.47
1:r:270:TRP:CD1	1:r:388:LEU:HD12	2.49	0.47
1:s:228:ARG:NH1	1:s:300:ARG:HG3	2.27	0.47
1:u:247:TYR:O	1:5:707:GLY:HA2	2.14	0.47
1:u:330:THR:HG21	1:u:395:MET:HE2	1.96	0.47
1:v:292:ASN:O	1:v:720:LEU:HD21	2.15	0.47
1:x:227:ASP:O	1:x:675:LEU:HD22	2.15	0.47
1:A:209:ASP:HB3	1:B:207:GLY:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:276:ASN:O	1:D:606:PRO:HA	2.15	0.47
1:D:439:VAL:HG21	1:D:450:ASN:HB2	1.97	0.47
1:E:270:TRP:CD1	1:E:388:LEU:HD12	2.49	0.47
1:F:247:TYR:O	1:R:707:GLY:HA2	2.14	0.47
1:G:370:THR:HG21	1:G:384:SER:O	2.14	0.47
1:H:247:TYR:O	1:Z:707:GLY:HA2	2.15	0.47
1:H:418:ALA:N	1:H:720:LEU:O	2.41	0.47
1:H:707:GLY:HA2	1:I:247:TYR:O	2.14	0.47
1:J:678:GLU:OE2	1:J:680:SER:OG	2.22	0.47
1:K:370:THR:HG21	1:K:384:SER:O	2.14	0.47
1:N:276:ASN:O	1:N:606:PRO:HA	2.15	0.47
1:N:305:LYS:HB3	1:N:668:THR:HG22	1.97	0.47
1:N:588:GLN:HG3	1:P:589:GLU:OE2	2.15	0.47
1:R:276:ASN:O	1:R:606:PRO:HA	2.15	0.47
1:R:370:THR:HG21	1:R:384:SER:O	2.14	0.47
1:R:397:ARG:HH12	1:V:398:THR:HG22	1.80	0.47
1:T:370:THR:HG21	1:T:384:SER:O	2.14	0.47
1:V:276:ASN:O	1:V:606:PRO:HA	2.15	0.47
1:X:418:ALA:N	1:X:720:LEU:O	2.41	0.47
1:Z:589:GLU:OE2	1:3:588:GLN:HG3	2.15	0.47
1:a:227:ASP:O	1:a:675:LEU:HD22	2.15	0.47
1:b:207:GLY:N	1:o:209:ASP:HB3	2.29	0.47
1:e:292:ASN:O	1:e:720:LEU:HD21	2.15	0.47
1:e:380:THR:HG22	1:e:381:GLU:N	2.29	0.47
1:g:270:TRP:CD1	1:g:388:LEU:HD12	2.49	0.47
1:g:292:ASN:O	1:g:720:LEU:HD21	2.15	0.47
1:i:270:TRP:CD1	1:i:388:LEU:HD12	2.49	0.47
1:i:276:ASN:O	1:i:606:PRO:HA	2.15	0.47
1:k:276:ASN:O	1:k:606:PRO:HA	2.15	0.47
1:p:276:ASN:O	1:p:606:PRO:HA	2.15	0.47
1:p:707:GLY:HA2	1:q:247:TYR:O	2.14	0.47
1:r:418:ALA:N	1:r:720:LEU:O	2.41	0.47
1:t:276:ASN:O	1:t:606:PRO:HA	2.15	0.47
1:t:370:THR:HG21	1:t:384:SER:O	2.14	0.47
1:u:397:ARG:HH12	1:5:398:THR:HG22	1.80	0.47
1:v:209:ASP:HB3	1:l:207:GLY:N	2.30	0.47
1:3:227:ASP:O	1:3:675:LEU:HD22	2.15	0.47
1:5:247:TYR:O	1:8:707:GLY:HA2	2.14	0.47
1:8:270:TRP:CD1	1:8:388:LEU:HD12	2.49	0.47
1:C:270:TRP:CD1	1:C:388:LEU:HD12	2.49	0.47
1:C:292:ASN:O	1:C:720:LEU:HD21	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:330:THR:HG21	1:I:395:MET:HE2	1.96	0.47
1:J:398:THR:HG22	1:a:397:ARG:HH12	1.80	0.47
1:K:330:THR:HG21	1:K:395:MET:HE2	1.96	0.47
1:L:370:THR:HG21	1:L:384:SER:O	2.14	0.47
1:N:439:VAL:HG21	1:N:450:ASN:HB2	1.97	0.47
1:P:207:GLY:N	1:Q:209:ASP:HB3	2.30	0.47
1:Q:276:ASN:O	1:Q:606:PRO:HA	2.15	0.47
1:Q:305:LYS:HB3	1:Q:668:THR:HG22	1.97	0.47
1:Q:707:GLY:HA2	1:S:247:TYR:O	2.14	0.47
1:S:305:LYS:HB3	1:S:668:THR:HG22	1.97	0.47
1:T:227:ASP:O	1:T:675:LEU:HD22	2.15	0.47
1:V:305:LYS:HB3	1:V:668:THR:HG22	1.97	0.47
1:X:228:ARG:NH1	1:X:300:ARG:HG3	2.27	0.47
1:Y:270:TRP:CD1	1:Y:388:LEU:HD12	2.49	0.47
1:Y:305:LYS:HB3	1:Y:668:THR:HG22	1.97	0.47
1:c:380:THR:HG22	1:c:381:GLU:N	2.29	0.47
1:g:305:LYS:HB3	1:g:668:THR:HG22	1.97	0.47
1:h:270:TRP:CD1	1:h:388:LEU:HD12	2.49	0.47
1:i:305:LYS:HB3	1:i:668:THR:HG22	1.97	0.47
1:i:678:GLU:OE2	1:i:680:SER:OG	2.22	0.47
1:j:276:ASN:O	1:j:606:PRO:HA	2.15	0.47
1:k:209:ASP:HB3	1:w:207:GLY:N	2.30	0.47
1:k:439:VAL:HG21	1:k:450:ASN:HB2	1.97	0.47
1:l:227:ASP:O	1:l:675:LEU:HD22	2.15	0.47
1:m:227:ASP:O	1:m:675:LEU:HD22	2.15	0.47
1:p:398:THR:HG22	1:q:397:ARG:HH12	1.80	0.47
1:q:707:GLY:HA2	1:y:247:TYR:O	2.14	0.47
1:t:207:GLY:N	1:6:209:ASP:HB3	2.30	0.47
1:u:209:ASP:HB3	1:5:207:GLY:N	2.30	0.47
1:w:270:TRP:CD1	1:w:388:LEU:HD12	2.49	0.47
1:x:305:LYS:HB3	1:x:668:THR:HG22	1.97	0.47
1:y:276:ASN:O	1:y:606:PRO:HA	2.15	0.47
1:1:227:ASP:O	1:1:675:LEU:HD22	2.15	0.47
1:1:292:ASN:O	1:1:720:LEU:HD21	2.15	0.47
1:7:305:LYS:HB3	1:7:668:THR:HG22	1.97	0.47
1:B:227:ASP:O	1:B:675:LEU:HD22	2.15	0.46
1:C:305:LYS:HB3	1:C:668:THR:HG22	1.97	0.46
1:C:439:VAL:HG21	1:C:450:ASN:HB2	1.97	0.46
1:E:227:ASP:O	1:E:675:LEU:HD22	2.15	0.46
1:G:292:ASN:O	1:G:720:LEU:HD21	2.15	0.46
1:H:207:GLY:N	1:I:209:ASP:HB3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:305:LYS:HB3	1:J:668:THR:HG22	1.97	0.46
1:J:330:THR:HG21	1:J:395:MET:HE2	1.96	0.46
1:J:707:GLY:HA2	1:a:247:TYR:O	2.14	0.46
1:M:247:TYR:O	1:c:707:GLY:HA2	2.14	0.46
1:M:270:TRP:CD1	1:M:388:LEU:HD12	2.49	0.46
1:M:305:LYS:HB3	1:M:668:THR:HG22	1.97	0.46
1:O:207:GLY:N	1:P:209:ASP:HB3	2.30	0.46
1:O:330:THR:HG21	1:O:395:MET:HE2	1.96	0.46
1:O:707:GLY:HA2	1:P:247:TYR:O	2.14	0.46
1:P:276:ASN:O	1:P:606:PRO:HA	2.15	0.46
1:Q:418:ALA:N	1:Q:720:LEU:O	2.41	0.46
1:S:207:GLY:N	1:d:209:ASP:HB3	2.30	0.46
1:W:292:ASN:O	1:W:720:LEU:HD21	2.15	0.46
1:X:209:ASP:HB3	1:f:207:GLY:N	2.29	0.46
1:Y:276:ASN:O	1:Y:606:PRO:HA	2.15	0.46
1:c:227:ASP:O	1:c:675:LEU:HD22	2.15	0.46
1:g:247:TYR:O	1:k:707:GLY:HA2	2.15	0.46
1:g:370:THR:HG21	1:g:384:SER:O	2.14	0.46
1:i:439:VAL:HG21	1:i:450:ASN:HB2	1.97	0.46
1:i:588:GLN:HG3	1:j:589:GLU:OE2	2.15	0.46
1:j:207:GLY:N	1:x:209:ASP:HB3	2.30	0.46
1:j:209:ASP:HB3	1:l:207:GLY:N	2.30	0.46
1:k:228:ARG:NH1	1:k:300:ARG:HG3	2.27	0.46
1:l:370:THR:HG21	1:l:384:SER:O	2.14	0.46
1:l:418:ALA:N	1:l:720:LEU:O	2.41	0.46
1:m:305:LYS:HB3	1:m:668:THR:HG22	1.97	0.46
1:q:370:THR:HG21	1:q:384:SER:O	2.14	0.46
1:s:270:TRP:CD1	1:s:388:LEU:HD12	2.49	0.46
1:t:270:TRP:CD1	1:t:388:LEU:HD12	2.49	0.46
1:u:707:GLY:HA2	1:2:247:TYR:O	2.14	0.46
1:w:227:ASP:O	1:w:675:LEU:HD22	2.15	0.46
1:2:330:THR:HG21	1:2:395:MET:HE2	1.96	0.46
1:4:370:THR:HG21	1:4:384:SER:O	2.14	0.46
1:5:292:ASN:O	1:5:720:LEU:HD21	2.15	0.46
1:7:270:TRP:CD1	1:7:388:LEU:HD12	2.49	0.46
1:B:292:ASN:O	1:B:720:LEU:HD21	2.15	0.46
1:B:305:LYS:HB3	1:B:668:THR:HG22	1.97	0.46
1:C:370:THR:HG21	1:C:384:SER:O	2.14	0.46
1:F:305:LYS:HB3	1:F:668:THR:HG22	1.97	0.46
1:G:270:TRP:CD1	1:G:388:LEU:HD12	2.49	0.46
1:H:227:ASP:O	1:H:675:LEU:HD22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:292:ASN:O	1:H:720:LEU:HD21	2.15	0.46
1:H:398:THR:HG22	1:I:397:ARG:HH12	1.80	0.46
1:H:588:GLN:HG3	1:W:589:GLU:OE2	2.15	0.46
1:I:678:GLU:OE2	1:I:680:SER:OG	2.22	0.46
1:I:707:GLY:HA2	1:J:247:TYR:O	2.14	0.46
1:L:398:THR:HG22	1:b:397:ARG:HH12	1.80	0.46
1:M:589:GLU:OE2	1:b:588:GLN:HG3	2.16	0.46
1:O:227:ASP:O	1:O:675:LEU:HD22	2.15	0.46
1:O:370:THR:HG21	1:O:384:SER:O	2.14	0.46
1:T:305:LYS:HB3	1:T:668:THR:HG22	1.97	0.46
1:U:227:ASP:O	1:U:675:LEU:HD22	2.15	0.46
1:U:270:TRP:CD1	1:U:388:LEU:HD12	2.49	0.46
1:W:439:VAL:HG21	1:W:450:ASN:HB2	1.97	0.46
1:X:292:ASN:O	1:X:720:LEU:HD21	2.15	0.46
1:a:276:ASN:O	1:a:606:PRO:HA	2.15	0.46
1:a:439:VAL:HG21	1:a:450:ASN:HB2	1.97	0.46
1:f:397:ARG:HH12	1:z:398:THR:HG22	1.80	0.46
1:f:588:GLN:HG3	1:h:589:GLU:OE2	2.16	0.46
1:h:305:LYS:HB3	1:h:668:THR:HG22	1.97	0.46
1:k:305:LYS:HB3	1:k:668:THR:HG22	1.97	0.46
1:o:227:ASP:O	1:o:675:LEU:HD22	2.15	0.46
1:o:292:ASN:O	1:o:720:LEU:HD21	2.15	0.46
1:p:292:ASN:O	1:p:720:LEU:HD21	2.15	0.46
1:p:305:LYS:HB3	1:p:668:THR:HG22	1.97	0.46
1:r:305:LYS:HB3	1:r:668:THR:HG22	1.97	0.46
1:s:227:ASP:O	1:s:675:LEU:HD22	2.15	0.46
1:s:276:ASN:O	1:s:606:PRO:HA	2.15	0.46
1:u:270:TRP:CD1	1:u:388:LEU:HD12	2.49	0.46
1:x:276:ASN:O	1:x:606:PRO:HA	2.15	0.46
1:y:305:LYS:HB3	1:y:668:THR:HG22	1.97	0.46
1:z:370:THR:HG21	1:z:384:SER:O	2.14	0.46
1:1:305:LYS:HB3	1:1:668:THR:HG22	1.97	0.46
1:2:228:ARG:NH1	1:2:300:ARG:HG3	2.27	0.46
1:2:305:LYS:HB3	1:2:668:THR:HG22	1.97	0.46
1:2:678:GLU:OE2	1:2:680:SER:OG	2.22	0.46
1:3:370:THR:HG21	1:3:384:SER:O	2.14	0.46
1:3:439:VAL:HG21	1:3:450:ASN:HB2	1.97	0.46
1:4:330:THR:HG21	1:4:395:MET:HE2	1.96	0.46
1:5:227:ASP:O	1:5:675:LEU:HD22	2.15	0.46
1:5:588:GLN:HG3	1:6:589:GLU:OE2	2.15	0.46
1:6:292:ASN:O	1:6:720:LEU:HD21	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:276:ASN:O	1:7:606:PRO:HA	2.15	0.46
1:B:209:ASP:HB3	1:C:207:GLY:N	2.30	0.46
1:C:247:TYR:O	1:D:707:GLY:HA2	2.15	0.46
1:D:305:LYS:HB3	1:D:668:THR:HG22	1.97	0.46
1:E:292:ASN:O	1:E:720:LEU:HD21	2.15	0.46
1:G:305:LYS:HB3	1:G:668:THR:HG22	1.97	0.46
1:H:276:ASN:O	1:H:606:PRO:HA	2.15	0.46
1:I:270:TRP:CD1	1:I:388:LEU:HD12	2.49	0.46
1:I:370:THR:HG21	1:I:384:SER:O	2.14	0.46
1:L:247:TYR:OH	1:L:389:GLU:OE1	2.28	0.46
1:P:227:ASP:O	1:P:675:LEU:HD22	2.15	0.46
1:R:247:TYR:O	1:V:707:GLY:HA2	2.14	0.46
1:R:588:GLN:HG3	1:S:589:GLU:OE2	2.16	0.46
1:R:589:GLU:OE2	1:U:588:GLN:HG3	2.16	0.46
1:S:418:ALA:N	1:S:720:LEU:O	2.41	0.46
1:U:276:ASN:O	1:U:606:PRO:HA	2.15	0.46
1:V:292:ASN:O	1:V:720:LEU:HD21	2.15	0.46
1:W:305:LYS:HB3	1:W:668:THR:HG22	1.97	0.46
1:X:227:ASP:O	1:X:675:LEU:HD22	2.15	0.46
1:X:397:ARG:HH12	1:f:398:THR:HG22	1.79	0.46
1:Z:292:ASN:O	1:Z:720:LEU:HD21	2.15	0.46
1:Z:370:THR:HG21	1:Z:384:SER:O	2.14	0.46
1:b:398:THR:HG22	1:o:397:ARG:HH12	1.80	0.46
1:c:472:THR:HG23	1:c:522:ALA:HB1	1.98	0.46
1:d:305:LYS:HB3	1:d:668:THR:HG22	1.97	0.46
1:e:227:ASP:O	1:e:675:LEU:HD22	2.15	0.46
1:e:707:GLY:HA2	1:h:247:TYR:O	2.14	0.46
1:g:207:GLY:N	1:l:209:ASP:HB3	2.30	0.46
1:g:276:ASN:O	1:g:606:PRO:HA	2.15	0.46
1:g:439:VAL:HG21	1:g:450:ASN:HB2	1.97	0.46
1:j:247:TYR:O	1:l:707:GLY:HA2	2.14	0.46
1:j:418:ALA:N	1:j:720:LEU:O	2.41	0.46
1:j:588:GLN:HG3	1:k:589:GLU:OE2	2.15	0.46
1:l:330:THR:HG21	1:l:395:MET:HE2	1.96	0.46
1:n:209:ASP:HB3	1:r:207:GLY:N	2.30	0.46
1:o:228:ARG:NH1	1:o:300:ARG:HG3	2.27	0.46
1:q:588:GLN:HG3	1:r:589:GLU:OE2	2.16	0.46
1:q:589:GLU:OE2	1:s:588:GLN:HG3	2.16	0.46
1:t:292:ASN:O	1:t:720:LEU:HD21	2.15	0.46
1:t:330:THR:HG21	1:t:395:MET:HE2	1.96	0.46
1:5:276:ASN:O	1:5:606:PRO:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:227:ASP:O	1:6:675:LEU:HD22	2.15	0.46
1:6:305:LYS:HB3	1:6:668:THR:HG22	1.97	0.46
1:6:439:VAL:HG21	1:6:450:ASN:HB2	1.97	0.46
1:8:370:THR:HG21	1:8:384:SER:O	2.14	0.46
1:8:418:ALA:N	1:8:720:LEU:O	2.41	0.46
1:A:227:ASP:O	1:A:675:LEU:HD22	2.15	0.46
1:D:228:ARG:NH1	1:D:300:ARG:HG3	2.27	0.46
1:D:589:GLU:OE2	1:P:588:GLN:HG3	2.15	0.46
1:E:305:LYS:HB3	1:E:668:THR:HG22	1.97	0.46
1:G:330:THR:HG21	1:G:395:MET:HE2	1.96	0.46
1:G:398:THR:HG22	1:W:397:ARG:HH12	1.81	0.46
1:H:370:THR:HG21	1:H:384:SER:O	2.14	0.46
1:J:370:THR:HG21	1:J:384:SER:O	2.14	0.46
1:J:588:GLN:HG3	1:L:589:GLU:OE2	2.16	0.46
1:O:418:ALA:N	1:O:720:LEU:O	2.41	0.46
1:Q:270:TRP:CD1	1:Q:388:LEU:HD12	2.49	0.46
1:S:227:ASP:O	1:S:675:LEU:HD22	2.15	0.46
1:W:472:THR:HG23	1:W:522:ALA:HB1	1.98	0.46
1:Y:292:ASN:O	1:Y:720:LEU:HD21	2.15	0.46
1:a:370:THR:HG21	1:a:384:SER:O	2.14	0.46
1:k:397:ARG:HH12	1:w:398:THR:HG22	1.80	0.46
1:n:305:LYS:HB3	1:n:668:THR:HG22	1.97	0.46
1:r:292:ASN:O	1:r:720:LEU:HD21	2.15	0.46
1:t:305:LYS:HB3	1:t:668:THR:HG22	1.97	0.46
1:u:398:THR:HG22	1:2:397:ARG:HH12	1.80	0.46
1:u:678:GLU:OE2	1:u:680:SER:OG	2.22	0.46
1:v:227:ASP:O	1:v:675:LEU:HD22	2.15	0.46
1:x:270:TRP:CD1	1:x:388:LEU:HD12	2.49	0.46
1:z:472:THR:HG23	1:z:522:ALA:HB1	1.98	0.46
1:3:305:LYS:HB3	1:3:668:THR:HG22	1.97	0.46
1:6:472:THR:HG23	1:6:522:ALA:HB1	1.98	0.46
1:8:292:ASN:O	1:8:720:LEU:HD21	2.15	0.46
1:F:228:ARG:NH1	1:F:300:ARG:HG3	2.27	0.46
1:I:398:THR:HG22	1:J:397:ARG:HH12	1.80	0.46
1:L:439:VAL:HG21	1:L:450:ASN:HB2	1.97	0.46
1:M:472:THR:HG23	1:M:522:ALA:HB1	1.98	0.46
1:N:292:ASN:O	1:N:720:LEU:HD21	2.15	0.46
1:W:227:ASP:O	1:W:675:LEU:HD22	2.15	0.46
1:Z:418:ALA:N	1:Z:720:LEU:O	2.41	0.46
1:a:305:LYS:HB3	1:a:668:THR:HG22	1.97	0.46
1:c:370:THR:HG21	1:c:384:SER:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:472:THR:HG23	1:e:522:ALA:HB1	1.98	0.46
1:h:227:ASP:O	1:h:675:LEU:HD22	2.15	0.46
1:j:227:ASP:O	1:j:675:LEU:HD22	2.15	0.46
1:p:227:ASP:O	1:p:675:LEU:HD22	2.15	0.46
1:u:370:THR:HG21	1:u:384:SER:O	2.14	0.46
1:w:292:ASN:O	1:w:720:LEU:HD21	2.15	0.46
1:y:227:ASP:O	1:y:675:LEU:HD22	2.15	0.46
1:z:589:GLU:OE2	1:2:588:GLN:HG3	2.16	0.46
1:2:370:THR:HG21	1:2:384:SER:O	2.14	0.46
1:3:276:ASN:O	1:3:606:PRO:HA	2.15	0.46
1:3:292:ASN:O	1:3:720:LEU:HD21	2.15	0.46
1:5:370:THR:HG21	1:5:384:SER:O	2.14	0.46
1:C:276:ASN:O	1:C:606:PRO:HA	2.15	0.46
1:D:397:ARG:HH12	1:E:398:THR:HG22	1.80	0.46
1:G:247:TYR:OH	1:G:389:GLU:OE1	2.28	0.46
1:H:397:ARG:HH12	1:Z:398:THR:HG22	1.80	0.46
1:J:228:ARG:NH1	1:J:300:ARG:HG3	2.27	0.46
1:K:292:ASN:O	1:K:720:LEU:HD21	2.15	0.46
1:L:472:THR:HG23	1:L:522:ALA:HB1	1.98	0.46
1:P:418:ALA:N	1:P:720:LEU:O	2.41	0.46
1:S:292:ASN:O	1:S:720:LEU:HD21	2.15	0.46
1:X:472:THR:HG23	1:X:522:ALA:HB1	1.98	0.46
1:Z:227:ASP:O	1:Z:675:LEU:HD22	2.15	0.46
1:a:588:GLN:HG3	1:8:589:GLU:OE2	2.16	0.46
1:d:439:VAL:HG21	1:d:450:ASN:HB2	1.97	0.46
1:e:370:THR:HG21	1:e:384:SER:O	2.14	0.46
1:h:472:THR:HG23	1:h:522:ALA:HB1	1.98	0.46
1:i:292:ASN:O	1:i:720:LEU:HD21	2.15	0.46
1:m:418:ALA:N	1:m:720:LEU:O	2.41	0.46
1:n:439:VAL:HG21	1:n:450:ASN:HB2	1.97	0.46
1:o:472:THR:HG23	1:o:522:ALA:HB1	1.98	0.46
1:q:472:THR:HG23	1:q:522:ALA:HB1	1.98	0.46
1:r:227:ASP:O	1:r:675:LEU:HD22	2.15	0.46
1:t:589:GLU:OE2	1:v:588:GLN:HG3	2.16	0.46
1:w:305:LYS:HB3	1:w:668:THR:HG22	1.97	0.46
1:y:292:ASN:O	1:y:720:LEU:HD21	2.15	0.46
1:3:589:GLU:OE2	1:4:588:GLN:HG3	2.15	0.46
1:5:397:ARG:HH12	1:8:398:THR:HG22	1.80	0.46
1:7:292:ASN:O	1:7:720:LEU:HD21	2.15	0.46
1:A:439:VAL:HG21	1:A:450:ASN:HB2	1.97	0.46
1:C:472:THR:HG23	1:C:522:ALA:HB1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:292:ASN:O	1:F:720:LEU:HD21	2.15	0.46
1:G:335:THR:CG2	1:G:634:PRO:HB2	2.46	0.46
1:I:292:ASN:O	1:I:720:LEU:HD21	2.15	0.46
1:M:227:ASP:O	1:M:675:LEU:HD22	2.15	0.46
1:O:398:THR:HG22	1:P:397:ARG:HH12	1.81	0.46
1:Q:292:ASN:O	1:Q:720:LEU:HD21	2.15	0.46
1:R:472:THR:HG23	1:R:522:ALA:HB1	1.98	0.46
1:S:276:ASN:O	1:S:606:PRO:HA	2.15	0.46
1:V:227:ASP:O	1:V:675:LEU:HD22	2.15	0.46
1:V:588:GLN:HG3	1:e:589:GLU:OE2	2.16	0.46
1:a:292:ASN:O	1:a:720:LEU:HD21	2.15	0.46
1:d:588:GLN:HG3	1:l:589:GLU:OE2	2.16	0.46
1:g:335:THR:CG2	1:g:634:PRO:HB2	2.46	0.46
1:i:472:THR:HG23	1:i:522:ALA:HB1	1.98	0.46
1:j:439:VAL:HG21	1:j:450:ASN:HB2	1.97	0.46
1:s:472:THR:HG23	1:s:522:ALA:HB1	1.98	0.46
1:y:228:ARG:NH1	1:y:300:ARG:HG3	2.27	0.46
1:z:439:VAL:HG21	1:z:450:ASN:HB2	1.97	0.46
1:2:227:ASP:O	1:2:675:LEU:HD22	2.15	0.46
1:3:472:THR:HG23	1:3:522:ALA:HB1	1.98	0.46
1:4:292:ASN:O	1:4:720:LEU:HD21	2.15	0.46
1:6:418:ALA:N	1:6:720:LEU:O	2.41	0.46
1:C:227:ASP:O	1:C:675:LEU:HD22	2.15	0.46
1:C:242:TYR:OH	1:C:363:LEU:O	2.29	0.46
1:C:335:THR:CG2	1:C:634:PRO:HB2	2.46	0.46
1:D:335:THR:CG2	1:D:634:PRO:HB2	2.46	0.46
1:D:588:GLN:HG3	1:N:589:GLU:OE2	2.16	0.46
1:F:227:ASP:O	1:F:675:LEU:HD22	2.15	0.46
1:H:209:ASP:HB3	1:Z:207:GLY:N	2.30	0.46
1:J:227:ASP:O	1:J:675:LEU:HD22	2.15	0.46
1:J:292:ASN:O	1:J:720:LEU:HD21	2.15	0.46
1:J:335:THR:CG2	1:J:634:PRO:HB2	2.46	0.46
1:M:335:THR:CG2	1:M:634:PRO:HB2	2.46	0.46
1:N:472:THR:HG23	1:N:522:ALA:HB1	1.98	0.46
1:O:589:GLU:OE2	1:n:588:GLN:HG3	2.16	0.46
1:P:439:VAL:HG21	1:P:450:ASN:HB2	1.97	0.46
1:W:335:THR:CG2	1:W:634:PRO:HB2	2.46	0.46
1:c:589:GLU:OE2	1:p:588:GLN:HG3	2.16	0.46
1:g:227:ASP:O	1:g:675:LEU:HD22	2.15	0.46
1:i:589:GLU:OE2	1:k:588:GLN:HG3	2.15	0.46
1:j:397:ARG:HH12	1:l:398:THR:HG22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:398:THR:HG22	1:s:397:ARG:HH12	1.80	0.46
1:r:276:ASN:O	1:r:606:PRO:HA	2.15	0.46
1:t:335:THR:CG2	1:t:634:PRO:HB2	2.46	0.46
1:u:292:ASN:O	1:u:720:LEU:HD21	2.15	0.46
1:v:439:VAL:HG21	1:v:450:ASN:HB2	1.97	0.46
1:x:292:ASN:O	1:x:720:LEU:HD21	2.15	0.46
1:z:588:GLN:HG3	1:1:589:GLU:OE2	2.16	0.46
1:2:335:THR:CG2	1:2:634:PRO:HB2	2.46	0.46
1:4:335:THR:CG2	1:4:634:PRO:HB2	2.46	0.46
1:6:335:THR:CG2	1:6:634:PRO:HB2	2.46	0.46
1:8:227:ASP:O	1:8:675:LEU:HD22	2.15	0.46
1:B:589:GLU:OE2	1:L:588:GLN:HG3	2.16	0.46
1:H:589:GLU:OE2	1:Y:588:GLN:HG3	2.15	0.46
1:K:335:THR:CG2	1:K:634:PRO:HB2	2.46	0.46
1:L:335:THR:CG2	1:L:634:PRO:HB2	2.46	0.46
1:O:439:VAL:HG21	1:O:450:ASN:HB2	1.97	0.46
1:Q:439:VAL:HG21	1:Q:450:ASN:HB2	1.97	0.46
1:R:209:ASP:HB3	1:V:207:GLY:N	2.30	0.46
1:R:418:ALA:N	1:R:720:LEU:O	2.41	0.46
1:T:418:ALA:N	1:T:720:LEU:O	2.41	0.46
1:U:472:THR:HG23	1:U:522:ALA:HB1	1.98	0.46
1:V:439:VAL:HG21	1:V:450:ASN:HB2	1.97	0.46
1:d:335:THR:CG2	1:d:634:PRO:HB2	2.46	0.46
1:h:335:THR:CG2	1:h:634:PRO:HB2	2.46	0.46
1:k:335:THR:CG2	1:k:634:PRO:HB2	2.46	0.46
1:k:472:THR:HG23	1:k:522:ALA:HB1	1.98	0.46
1:m:439:VAL:HG21	1:m:450:ASN:HB2	1.97	0.46
1:n:228:ARG:NH1	1:n:300:ARG:HG3	2.27	0.46
1:o:588:GLN:HG3	1:p:589:GLU:OE2	2.16	0.46
1:p:439:VAL:HG21	1:p:450:ASN:HB2	1.97	0.46
1:z:335:THR:CG2	1:z:634:PRO:HB2	2.46	0.46
1:2:472:THR:HG23	1:2:522:ALA:HB1	1.98	0.46
1:5:209:ASP:HB3	1:8:207:GLY:N	2.30	0.46
1:5:589:GLU:OE2	1:7:588:GLN:HG3	2.15	0.46
1:A:588:GLN:HG3	1:G:589:GLU:OE2	2.16	0.46
1:E:472:THR:HG23	1:E:522:ALA:HB1	1.98	0.46
1:F:335:THR:CG2	1:F:634:PRO:HB2	2.46	0.46
1:H:335:THR:CG2	1:H:634:PRO:HB2	2.46	0.46
1:J:472:THR:HG23	1:J:522:ALA:HB1	1.98	0.46
1:K:207:GLY:N	1:L:209:ASP:HB3	2.31	0.46
1:K:247:TYR:O	1:7:707:GLY:HA2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:398:THR:HG22	1:U:397:ARG:HH12	1.80	0.46
1:T:439:VAL:HG21	1:T:450:ASN:HB2	1.97	0.46
1:U:439:VAL:HG21	1:U:450:ASN:HB2	1.97	0.46
1:V:589:GLU:OE2	1:X:588:GLN:HG3	2.16	0.46
1:W:276:ASN:O	1:W:606:PRO:HA	2.15	0.46
1:Y:707:GLY:HA2	1:4:247:TYR:O	2.15	0.46
1:Z:335:THR:CG2	1:Z:634:PRO:HB2	2.46	0.46
1:a:472:THR:HG23	1:a:522:ALA:HB1	1.98	0.46
1:b:439:VAL:HG21	1:b:450:ASN:HB2	1.97	0.46
1:g:472:THR:HG23	1:g:522:ALA:HB1	1.98	0.46
1:i:242:TYR:OH	1:i:363:LEU:O	2.29	0.46
1:m:472:THR:HG23	1:m:522:ALA:HB1	1.98	0.46
1:n:335:THR:CG2	1:n:634:PRO:HB2	2.46	0.46
1:p:207:GLY:N	1:q:209:ASP:HB3	2.30	0.46
1:s:439:VAL:HG21	1:s:450:ASN:HB2	1.97	0.46
1:t:247:TYR:OH	1:t:389:GLU:OE1	2.28	0.46
1:u:335:THR:CG2	1:u:634:PRO:HB2	2.46	0.46
1:w:472:THR:HG23	1:w:522:ALA:HB1	1.98	0.46
1:x:472:THR:HG23	1:x:522:ALA:HB1	1.98	0.46
1:y:335:THR:CG2	1:y:634:PRO:HB2	2.46	0.46
1:z:209:ASP:HB3	1:4:207:GLY:N	2.31	0.46
1:1:242:TYR:OH	1:1:363:LEU:O	2.29	0.46
1:1:439:VAL:HG21	1:1:450:ASN:HB2	1.97	0.46
1:2:292:ASN:O	1:2:720:LEU:HD21	2.15	0.46
1:5:439:VAL:HG21	1:5:450:ASN:HB2	1.97	0.46
1:8:335:THR:CG2	1:8:634:PRO:HB2	2.46	0.46
1:A:472:THR:HG23	1:A:522:ALA:HB1	1.98	0.45
1:D:472:THR:HG23	1:D:522:ALA:HB1	1.98	0.45
1:N:247:TYR:OH	1:N:389:GLU:OE1	2.28	0.45
1:Q:472:THR:HG23	1:Q:522:ALA:HB1	1.98	0.45
1:R:619:HIS:HA	2:HA:997:DA:C2'	2.46	0.45
1:T:472:THR:HG23	1:T:522:ALA:HB1	1.98	0.45
1:W:418:ALA:N	1:W:720:LEU:O	2.41	0.45
1:Z:305:LYS:HB3	1:Z:668:THR:HG22	1.97	0.45
1:Z:439:VAL:HG21	1:Z:450:ASN:HB2	1.97	0.45
1:b:619:HIS:HA	2:SA:997:DA:C2'	2.46	0.45
1:c:588:GLN:HG3	1:o:589:GLU:OE2	2.16	0.45
1:d:228:ARG:NH1	1:d:300:ARG:HG3	2.27	0.45
1:g:589:GLU:OE2	1:h:588:GLN:HG3	2.16	0.45
1:h:619:HIS:HA	2:ZA:997:DA:C2'	2.47	0.45
1:i:247:TYR:OH	1:i:389:GLU:OE1	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:207:GLY:N	1:s:209:ASP:HB3	2.31	0.45
1:n:678:GLU:OE2	1:n:680:SER:OG	2.22	0.45
1:t:439:VAL:HG21	1:t:450:ASN:HB2	1.97	0.45
1:v:472:THR:HG23	1:v:522:ALA:HB1	1.98	0.45
1:x:439:VAL:HG21	1:x:450:ASN:HB2	1.97	0.45
1:1:335:THR:CG2	1:1:634:PRO:HB2	2.46	0.45
1:2:619:HIS:HA	2:vA:997:DA:C2'	2.46	0.45
1:4:439:VAL:HG21	1:4:450:ASN:HB2	1.97	0.45
1:5:335:THR:CG2	1:5:634:PRO:HB2	2.46	0.45
1:6:276:ASN:O	1:6:606:PRO:HA	2.15	0.45
1:B:335:THR:CG2	1:B:634:PRO:HB2	2.46	0.45
1:B:439:VAL:HG21	1:B:450:ASN:HB2	1.97	0.45
1:C:589:GLU:OE2	1:M:588:GLN:HG3	2.16	0.45
1:G:418:ALA:N	1:G:720:LEU:O	2.41	0.45
1:H:439:VAL:HG21	1:H:450:ASN:HB2	1.97	0.45
1:I:335:THR:CG2	1:I:634:PRO:HB2	2.46	0.45
1:I:619:HIS:HA	2:5A:997:DA:C2'	2.46	0.45
1:J:619:HIS:HA	2:9:997:DA:C2'	2.47	0.45
1:K:227:ASP:O	1:K:675:LEU:HD22	2.15	0.45
1:K:242:TYR:OH	1:K:363:LEU:O	2.29	0.45
1:M:619:HIS:HA	2:CA:997:DA:C2'	2.47	0.45
1:P:335:THR:CG2	1:P:634:PRO:HB2	2.46	0.45
1:T:207:GLY:N	1:U:209:ASP:HB3	2.31	0.45
1:X:589:GLU:OE2	1:e:588:GLN:HG3	2.16	0.45
1:X:707:GLY:HA2	1:Y:247:TYR:O	2.14	0.45
1:Z:472:THR:HG23	1:Z:522:ALA:HB1	1.98	0.45
1:b:305:LYS:HB3	1:b:668:THR:HG22	1.97	0.45
1:e:335:THR:CG2	1:e:634:PRO:HB2	2.46	0.45
1:f:227:ASP:O	1:f:675:LEU:HD22	2.15	0.45
1:f:305:LYS:HB3	1:f:668:THR:HG22	1.97	0.45
1:f:472:THR:HG23	1:f:522:ALA:HB1	1.98	0.45
1:f:619:HIS:HA	2:XA:997:DA:C2'	2.47	0.45
1:g:242:TYR:OH	1:g:363:LEU:O	2.29	0.45
1:h:515:LEU:HD23	1:h:561:VAL:HG11	1.99	0.45
1:l:439:VAL:HG21	1:l:450:ASN:HB2	1.97	0.45
1:m:270:TRP:CD1	1:m:388:LEU:HD12	2.49	0.45
1:o:707:GLY:HA2	1:7:247:TYR:O	2.14	0.45
1:p:472:THR:HG23	1:p:522:ALA:HB1	1.98	0.45
1:q:619:HIS:HA	2:jA:997:DA:C2'	2.46	0.45
1:r:515:LEU:HD23	1:r:561:VAL:HG11	1.99	0.45
1:u:439:VAL:HG21	1:u:450:ASN:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:397:ARG:HH12	1:4:398:THR:HG22	1.80	0.45
1:1:588:GLN:HG3	1:2:589:GLU:OE2	2.16	0.45
1:8:305:LYS:HB3	1:8:668:THR:HG22	1.97	0.45
1:A:335:THR:CG2	1:A:634:PRO:HB2	2.46	0.45
1:B:588:GLN:HG3	1:J:589:GLU:OE2	2.16	0.45
1:C:247:TYR:OH	1:C:389:GLU:OE1	2.28	0.45
1:F:397:ARG:HH12	1:R:398:THR:HG22	1.80	0.45
1:H:305:LYS:HB3	1:H:668:THR:HG22	1.97	0.45
1:H:619:HIS:HA	2:4A:997:DA:C2'	2.46	0.45
1:K:398:THR:HG22	1:L:397:ARG:HH12	1.80	0.45
1:K:439:VAL:HG21	1:K:450:ASN:HB2	1.97	0.45
1:L:305:LYS:HB3	1:L:668:THR:HG22	1.97	0.45
1:M:515:LEU:HD23	1:M:561:VAL:HG11	1.99	0.45
1:N:335:THR:CG2	1:N:634:PRO:HB2	2.46	0.45
1:O:242:TYR:OH	1:O:363:LEU:O	2.29	0.45
1:P:619:HIS:HA	2:FA:997:DA:C2'	2.46	0.45
1:S:515:LEU:HD23	1:S:561:VAL:HG11	1.99	0.45
1:T:619:HIS:HA	2:KA:997:DA:C2'	2.46	0.45
1:U:242:TYR:OH	1:U:363:LEU:O	2.29	0.45
1:V:472:THR:HG23	1:V:522:ALA:HB1	1.98	0.45
1:W:588:GLN:HG3	1:Y:589:GLU:OE2	2.16	0.45
1:X:439:VAL:HG21	1:X:450:ASN:HB2	1.97	0.45
1:b:472:THR:HG23	1:b:522:ALA:HB1	1.98	0.45
1:c:335:THR:CG2	1:c:634:PRO:HB2	2.46	0.45
1:f:439:VAL:HG21	1:f:450:ASN:HB2	1.97	0.45
1:i:332:GLN:HE21	1:i:395:MET:HE3	1.82	0.45
1:i:335:THR:CG2	1:i:634:PRO:HB2	2.46	0.45
1:j:335:THR:CG2	1:j:634:PRO:HB2	2.46	0.45
1:j:619:HIS:HA	2:bA:997:DA:C2'	2.47	0.45
1:m:619:HIS:HA	2:eA:997:DA:C2'	2.46	0.45
1:t:588:GLN:HG3	1:u:589:GLU:OE2	2.16	0.45
1:u:619:HIS:HA	2:nA:997:DA:C2'	2.47	0.45
1:v:515:LEU:HD23	1:v:561:VAL:HG11	1.99	0.45
1:z:305:LYS:HB3	1:z:668:THR:HG22	1.97	0.45
1:4:227:ASP:O	1:4:675:LEU:HD22	2.15	0.45
1:5:305:LYS:HB3	1:5:668:THR:HG22	1.97	0.45
1:5:619:HIS:HA	2:yA:997:DA:C2'	2.47	0.45
1:6:588:GLN:HG3	1:7:589:GLU:OE2	2.15	0.45
1:8:439:VAL:HG21	1:8:450:ASN:HB2	1.97	0.45
1:A:228:ARG:NH1	1:A:300:ARG:HG3	2.27	0.45
1:A:515:LEU:HD23	1:A:561:VAL:HG11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:619:HIS:HA	2:O:997:DA:C2'	2.47	0.45
1:D:515:LEU:HD23	1:D:561:VAL:HG11	1.99	0.45
1:G:207:GLY:N	1:W:209:ASP:HB3	2.31	0.45
1:G:439:VAL:HG21	1:G:450:ASN:HB2	1.97	0.45
1:K:247:TYR:OH	1:K:389:GLU:OE1	2.28	0.45
1:K:588:GLN:HG3	1:a:589:GLU:OE2	2.16	0.45
1:N:242:TYR:OH	1:N:363:LEU:O	2.29	0.45
1:N:332:GLN:HE21	1:N:395:MET:HE3	1.82	0.45
1:Q:619:HIS:HA	2:GA:997:DA:C2'	2.46	0.45
1:S:619:HIS:HA	2:IA:997:DA:C2'	2.46	0.45
1:T:270:TRP:CD1	1:T:388:LEU:HD12	2.49	0.45
1:V:678:GLU:OE2	1:V:680:SER:OG	2.22	0.45
1:a:335:THR:CG2	1:a:634:PRO:HB2	2.46	0.45
1:b:227:ASP:O	1:b:675:LEU:HD22	2.15	0.45
1:c:418:ALA:N	1:c:720:LEU:O	2.41	0.45
1:c:439:VAL:HG21	1:c:450:ASN:HB2	1.97	0.45
1:c:515:LEU:HD23	1:c:561:VAL:HG11	1.99	0.45
1:d:472:THR:HG23	1:d:522:ALA:HB1	1.98	0.45
1:d:619:HIS:HA	2:VA:997:DA:C2'	2.47	0.45
1:e:515:LEU:HD23	1:e:561:VAL:HG11	1.99	0.45
1:f:589:GLU:OE2	1:g:588:GLN:HG3	2.16	0.45
1:l:242:TYR:OH	1:l:363:LEU:O	2.29	0.45
1:n:332:GLN:HE21	1:n:395:MET:HE3	1.82	0.45
1:n:472:THR:HG23	1:n:522:ALA:HB1	1.98	0.45
1:n:619:HIS:HA	2:gA:997:DA:C2'	2.47	0.45
1:o:439:VAL:HG21	1:o:450:ASN:HB2	1.97	0.45
1:r:619:HIS:HA	2:kA:997:DA:C2'	2.46	0.45
1:u:305:LYS:HB3	1:u:668:THR:HG22	1.97	0.45
1:v:619:HIS:HA	2:oA:997:DA:C2'	2.46	0.45
1:w:418:ALA:N	1:w:720:LEU:O	2.41	0.45
1:x:619:HIS:HA	2:rA:997:DA:C2'	2.47	0.45
1:y:439:VAL:HG21	1:y:450:ASN:HB2	1.97	0.45
1:3:335:THR:CG2	1:3:634:PRO:HB2	2.46	0.45
1:4:242:TYR:OH	1:4:363:LEU:O	2.29	0.45
1:5:472:THR:HG23	1:5:522:ALA:HB1	1.98	0.45
1:B:332:GLN:HE21	1:B:395:MET:HE3	1.82	0.45
1:B:397:ARG:HH12	1:C:398:THR:HG22	1.80	0.45
1:B:472:THR:HG23	1:B:522:ALA:HB1	1.98	0.45
1:B:515:LEU:HD23	1:B:561:VAL:HG11	1.99	0.45
1:C:397:ARG:HH12	1:D:398:THR:HG22	1.80	0.45
1:C:588:GLN:HG3	1:b:589:GLU:OE2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:589:GLU:OE2	1:F:588:GLN:HG3	2.16	0.45
1:H:472:THR:HG23	1:H:522:ALA:HB1	1.98	0.45
1:I:305:LYS:HB3	1:I:668:THR:HG22	1.97	0.45
1:I:439:VAL:HG21	1:I:450:ASN:HB2	1.97	0.45
1:J:439:VAL:HG21	1:J:450:ASN:HB2	1.97	0.45
1:K:397:ARG:HH12	1:7:398:THR:HG22	1.80	0.45
1:K:619:HIS:HA	2:AA:997:DA:C2'	2.46	0.45
1:L:515:LEU:HD23	1:L:561:VAL:HG11	1.99	0.45
1:M:643:VAL:HG22	1:c:310:GLN:HE22	1.82	0.45
1:P:332:GLN:HE21	1:P:395:MET:HE3	1.82	0.45
1:P:472:THR:HG23	1:P:522:ALA:HB1	1.98	0.45
1:X:643:VAL:HG22	1:f:310:GLN:HE22	1.82	0.45
1:Y:439:VAL:HG21	1:Y:450:ASN:HB2	1.97	0.45
1:b:515:LEU:HD23	1:b:561:VAL:HG11	1.99	0.45
1:d:332:GLN:HE21	1:d:395:MET:HE3	1.82	0.45
1:e:310:GLN:HE22	1:h:643:VAL:HG22	1.82	0.45
1:e:418:ALA:N	1:e:720:LEU:O	2.41	0.45
1:e:439:VAL:HG21	1:e:450:ASN:HB2	1.97	0.45
1:g:397:ARG:HH12	1:k:398:THR:HG22	1.80	0.45
1:j:472:THR:HG23	1:j:522:ALA:HB1	1.98	0.45
1:o:332:GLN:HE21	1:o:395:MET:HE3	1.82	0.45
1:o:619:HIS:HA	2:hA:997:DA:C2'	2.46	0.45
1:q:398:THR:HG22	1:y:397:ARG:HH12	1.80	0.45
1:s:515:LEU:HD23	1:s:561:VAL:HG11	1.99	0.45
1:t:228:ARG:NH1	1:t:300:ARG:HG3	2.27	0.45
1:v:228:ARG:NH1	1:v:300:ARG:HG3	2.27	0.45
1:v:335:THR:CG2	1:v:634:PRO:HB2	2.46	0.45
1:v:418:ALA:N	1:v:720:LEU:O	2.41	0.45
1:w:332:GLN:HE21	1:w:395:MET:HE3	1.82	0.45
1:w:589:GLU:OE2	1:y:588:GLN:HG3	2.16	0.45
1:x:588:GLN:HG3	1:y:589:GLU:OE2	2.16	0.45
1:1:515:LEU:HD23	1:1:561:VAL:HG11	1.99	0.45
1:4:619:HIS:HA	2:xA:997:DA:C2'	2.47	0.45
1:5:332:GLN:HE21	1:5:395:MET:HE3	1.82	0.45
1:6:228:ARG:NH1	1:6:300:ARG:HG3	2.27	0.45
1:6:247:TYR:OH	1:6:389:GLU:OE1	2.28	0.45
1:7:619:HIS:HA	2:0A:997:DA:C2'	2.47	0.45
1:8:472:THR:HG23	1:8:522:ALA:HB1	1.98	0.45
1:A:589:GLU:OE2	1:I:588:GLN:HG3	2.16	0.45
1:E:332:GLN:HE21	1:E:395:MET:HE3	1.82	0.45
1:F:472:THR:HG23	1:F:522:ALA:HB1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:589:GLU:OE2	1:Q:588:GLN:HG3	2.16	0.45
1:G:619:HIS:HA	2:3A:997:DA:C2'	2.46	0.45
1:H:332:GLN:HE21	1:H:395:MET:HE3	1.82	0.45
1:P:242:TYR:OH	1:P:363:LEU:O	2.29	0.45
1:T:589:GLU:OE2	1:I:588:GLN:HG3	2.16	0.45
1:W:332:GLN:HE21	1:W:395:MET:HE3	1.82	0.45
1:X:332:GLN:HE21	1:X:395:MET:HE3	1.82	0.45
1:Y:619:HIS:HA	2:PA:997:DA:C2'	2.47	0.45
1:Z:515:LEU:HD23	1:Z:561:VAL:HG11	1.99	0.45
1:a:515:LEU:HD23	1:a:561:VAL:HG11	1.99	0.45
1:b:310:GLN:HE22	1:o:643:VAL:HG22	1.82	0.45
1:f:335:THR:CG2	1:f:634:PRO:HB2	2.46	0.45
1:f:515:LEU:HD23	1:f:561:VAL:HG11	1.99	0.45
1:j:332:GLN:HE21	1:j:395:MET:HE3	1.82	0.45
1:k:515:LEU:HD23	1:k:561:VAL:HG11	1.99	0.45
1:r:588:GLN:HG3	1:s:589:GLU:OE2	2.16	0.45
1:t:418:ALA:N	1:t:720:LEU:O	2.41	0.45
1:t:619:HIS:HA	2:mA:997:DA:C2'	2.46	0.45
1:w:588:GLN:HG3	1:x:589:GLU:OE2	2.16	0.45
1:y:472:THR:HG23	1:y:522:ALA:HB1	1.98	0.45
1:z:515:LEU:HD23	1:z:561:VAL:HG11	1.99	0.45
1:l:332:GLN:HE21	1:l:395:MET:HE3	1.82	0.45
1:7:439:VAL:HG21	1:7:450:ASN:HB2	1.97	0.45
1:C:332:GLN:HE21	1:C:395:MET:HE3	1.82	0.45
1:E:503:GLN:C	1:E:505:PRO:HD3	2.42	0.45
1:F:439:VAL:HG21	1:F:450:ASN:HB2	1.97	0.45
1:G:228:ARG:NH1	1:G:300:ARG:HG3	2.27	0.45
1:H:242:TYR:OH	1:H:363:LEU:O	2.29	0.45
1:K:515:LEU:HD23	1:K:561:VAL:HG11	1.99	0.45
1:O:588:GLN:HG3	1:m:589:GLU:OE2	2.16	0.45
1:O:619:HIS:HA	2:EA:997:DA:C2'	2.46	0.45
1:P:515:LEU:HD23	1:P:561:VAL:HG11	1.99	0.45
1:Q:310:GLN:HE22	1:S:643:VAL:HG22	1.82	0.45
1:S:335:THR:CG2	1:S:634:PRO:HB2	2.46	0.45
1:S:588:GLN:HG3	1:U:589:GLU:OE2	2.16	0.45
1:U:515:LEU:HD23	1:U:561:VAL:HG11	1.99	0.45
1:W:503:GLN:C	1:W:505:PRO:HD3	2.42	0.45
1:X:619:HIS:HA	2:OA:997:DA:C2'	2.47	0.45
1:Y:398:THR:HG22	1:4:397:ARG:HH12	1.80	0.45
1:Y:472:THR:HG23	1:Y:522:ALA:HB1	1.98	0.45
1:c:503:GLN:C	1:c:505:PRO:HD3	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:503:GLN:C	1:e:505:PRO:HD3	2.42	0.45
1:g:398:THR:HG22	1:1:397:ARG:HH12	1.80	0.45
1:j:242:TYR:OH	1:j:363:LEU:O	2.29	0.45
1:u:588:GLN:HG3	1:v:589:GLU:OE2	2.16	0.45
1:1:472:THR:HG23	1:1:522:ALA:HB1	1.98	0.45
1:2:439:VAL:HG21	1:2:450:ASN:HB2	1.97	0.45
1:3:515:LEU:HD23	1:3:561:VAL:HG11	1.99	0.45
1:3:619:HIS:HA	2:wA:997:DA:C2'	2.47	0.45
1:6:332:GLN:HE21	1:6:395:MET:HE3	1.82	0.45
1:6:503:GLN:C	1:6:505:PRO:HD3	2.42	0.45
1:8:515:LEU:HD23	1:8:561:VAL:HG11	1.99	0.45
1:A:441:THR:HG22	1:G:486:VAL:HB	1.99	0.45
1:C:515:LEU:HD23	1:C:561:VAL:HG11	1.99	0.45
1:E:418:ALA:N	1:E:720:LEU:O	2.41	0.45
1:E:439:VAL:HG21	1:E:450:ASN:HB2	1.97	0.45
1:E:588:GLN:HG3	1:Q:589:GLU:OE2	2.16	0.45
1:H:228:ARG:NH1	1:H:300:ARG:HG3	2.27	0.45
1:K:418:ALA:N	1:K:720:LEU:O	2.41	0.45
1:N:310:GLN:HE22	1:m:643:VAL:HG22	1.82	0.45
1:R:515:LEU:HD23	1:R:561:VAL:HG11	1.99	0.45
1:T:643:VAL:HG22	1:i:310:GLN:HE22	1.82	0.45
1:U:619:HIS:HA	2:LA:997:DA:C2'	2.46	0.45
1:V:619:HIS:HA	2:MA:997:DA:C2'	2.47	0.45
1:c:332:GLN:HE21	1:c:395:MET:HE3	1.82	0.45
1:g:247:TYR:OH	1:g:389:GLU:OE1	2.28	0.45
1:g:332:GLN:HE21	1:g:395:MET:HE3	1.82	0.45
1:l:619:HIS:HA	2:dA:997:DA:C2'	2.47	0.45
1:o:335:THR:CG2	1:o:634:PRO:HB2	2.46	0.45
1:p:482:ASN:HB3	1:p:483:ARG:H	1.61	0.45
1:p:678:GLU:OE2	1:p:680:SER:OG	2.22	0.45
1:q:515:LEU:HD23	1:q:561:VAL:HG11	1.99	0.45
1:r:335:THR:CG2	1:r:634:PRO:HB2	2.46	0.45
1:r:643:VAL:HG22	1:x:310:GLN:HE22	1.82	0.45
1:u:643:VAL:HG22	1:5:310:GLN:HE22	1.82	0.45
1:w:503:GLN:C	1:w:505:PRO:HD3	2.42	0.45
1:y:242:TYR:OH	1:y:363:LEU:O	2.29	0.45
1:1:619:HIS:HA	2:uA:997:DA:C2'	2.46	0.45
1:2:503:GLN:C	1:2:505:PRO:HD3	2.42	0.45
1:4:515:LEU:HD23	1:4:561:VAL:HG11	1.99	0.45
1:5:242:TYR:OH	1:5:363:LEU:O	2.29	0.45
1:6:242:TYR:OH	1:6:363:LEU:O	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:335:THR:CG2	1:7:634:PRO:HB2	2.46	0.45
1:A:643:VAL:HG22	1:B:310:GLN:HE22	1.82	0.45
1:C:619:HIS:HA	2:UA:997:DA:C2'	2.46	0.45
1:G:515:LEU:HD23	1:G:561:VAL:HG11	1.99	0.45
1:H:310:GLN:HE22	1:I:643:VAL:HG22	1.82	0.45
1:I:332:GLN:HE21	1:I:395:MET:HE3	1.82	0.45
1:I:503:GLN:C	1:I:505:PRO:HD3	2.42	0.45
1:J:503:GLN:C	1:J:505:PRO:HD3	2.42	0.45
1:K:643:VAL:HG22	1:7:310:GLN:HE22	1.82	0.45
1:L:207:GLY:N	1:b:209:ASP:HB3	2.30	0.45
1:O:515:LEU:HD23	1:O:561:VAL:HG11	1.99	0.45
1:T:588:GLN:HG3	1:d:589:GLU:OE2	2.16	0.45
1:W:224:TRP:CE2	1:W:289:ARG:HD3	2.52	0.45
1:Y:310:GLN:HE22	1:4:643:VAL:HG22	1.82	0.45
1:Y:335:THR:CG2	1:Y:634:PRO:HB2	2.46	0.45
1:Z:588:GLN:HG3	1:4:589:GLU:OE2	2.16	0.45
1:a:619:HIS:HA	2:RA:997:DA:C2'	2.47	0.45
1:b:335:THR:CG2	1:b:634:PRO:HB2	2.46	0.45
1:e:332:GLN:HE21	1:e:395:MET:HE3	1.82	0.45
1:f:209:ASP:HB3	1:z:207:GLY:N	2.30	0.45
1:f:503:GLN:C	1:f:505:PRO:HD3	2.42	0.45
1:f:643:VAL:HG22	1:z:310:GLN:HE22	1.82	0.45
1:g:515:LEU:HD23	1:g:561:VAL:HG11	1.99	0.45
1:j:515:LEU:HD23	1:j:561:VAL:HG11	1.99	0.45
1:l:224:TRP:CE2	1:l:289:ARG:HD3	2.52	0.45
1:p:310:GLN:HE22	1:q:643:VAL:HG22	1.82	0.45
1:p:619:HIS:HA	2:iA:997:DA:C2'	2.47	0.45
1:s:332:GLN:HE21	1:s:395:MET:HE3	1.82	0.45
1:u:332:GLN:HE21	1:u:395:MET:HE3	1.82	0.45
1:u:503:GLN:C	1:u:505:PRO:HD3	2.42	0.45
1:4:472:THR:HG23	1:4:522:ALA:HB1	1.98	0.45
1:6:224:TRP:CE2	1:6:289:ARG:HD3	2.52	0.45
1:6:515:LEU:HD23	1:6:561:VAL:HG11	1.99	0.45
1:7:472:THR:HG23	1:7:522:ALA:HB1	1.98	0.45
1:A:418:ALA:N	1:A:720:LEU:O	2.41	0.45
1:D:332:GLN:HE21	1:D:395:MET:HE3	1.82	0.45
1:D:503:GLN:C	1:D:505:PRO:HD3	2.42	0.45
1:F:242:TYR:OH	1:F:363:LEU:O	2.29	0.45
1:F:247:TYR:OH	1:F:389:GLU:OE1	2.28	0.45
1:G:332:GLN:HE21	1:G:395:MET:HE3	1.82	0.45
1:G:588:GLN:HG3	1:I:589:GLU:OE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:224:TRP:CE2	1:I:289:ARG:HD3	2.53	0.45
1:I:472:THR:HG23	1:I:522:ALA:HB1	1.98	0.45
1:L:310:GLN:HE22	1:b:643:VAL:HG22	1.82	0.45
1:N:619:HIS:HA	2:DA:997:DA:C2'	2.46	0.45
1:O:224:TRP:CE2	1:O:289:ARG:HD3	2.52	0.45
1:R:335:THR:CG2	1:R:634:PRO:HB2	2.46	0.45
1:R:643:VAL:HG22	1:V:310:GLN:HE22	1.82	0.45
1:T:335:THR:CG2	1:T:634:PRO:HB2	2.46	0.45
1:U:332:GLN:HE21	1:U:395:MET:HE3	1.82	0.45
1:U:335:THR:CG2	1:U:634:PRO:HB2	2.46	0.45
1:V:610:LYS:HB2	1:V:632:PRO:HG2	1.99	0.45
1:W:242:TYR:OH	1:W:363:LEU:O	2.29	0.45
1:W:515:LEU:HD23	1:W:561:VAL:HG11	1.99	0.45
1:X:335:THR:CG2	1:X:634:PRO:HB2	2.46	0.45
1:a:242:TYR:OH	1:a:363:LEU:O	2.29	0.45
1:e:619:HIS:HA	2:WA:997:DA:C2'	2.47	0.45
1:h:332:GLN:HE21	1:h:395:MET:HE3	1.82	0.45
1:k:332:GLN:HE21	1:k:395:MET:HE3	1.82	0.45
1:k:503:GLN:C	1:k:505:PRO:HD3	2.42	0.45
1:m:335:THR:CG2	1:m:634:PRO:HB2	2.46	0.45
1:m:588:GLN:HG3	1:n:589:GLU:OE2	2.16	0.45
1:p:610:LYS:HB2	1:p:632:PRO:HG2	1.99	0.45
1:s:335:THR:CG2	1:s:634:PRO:HB2	2.46	0.45
1:s:619:HIS:HA	2:lA:997:DA:C2'	2.46	0.45
1:t:332:GLN:HE21	1:t:395:MET:HE3	1.82	0.45
1:t:515:LEU:HD23	1:t:561:VAL:HG11	1.99	0.45
1:u:224:TRP:CE2	1:u:289:ARG:HD3	2.53	0.45
1:v:643:VAL:HG22	1:1:310:GLN:HE22	1.82	0.45
1:w:439:VAL:HG21	1:w:450:ASN:HB2	1.97	0.45
1:x:335:THR:CG2	1:x:634:PRO:HB2	2.46	0.45
1:x:503:GLN:C	1:x:505:PRO:HD3	2.42	0.45
1:y:619:HIS:HA	2:sA:997:DA:C2'	2.46	0.45
1:2:310:GLN:HE22	1:3:643:VAL:HG22	1.82	0.45
1:8:242:TYR:OH	1:8:363:LEU:O	2.29	0.45
1:A:332:GLN:HE21	1:A:395:MET:HE3	1.82	0.44
1:B:224:TRP:CE2	1:B:289:ARG:HD3	2.52	0.44
1:B:619:HIS:HA	2:JA:997:DA:C2'	2.47	0.44
1:E:619:HIS:HA	2:qA:997:DA:C2'	2.46	0.44
1:J:332:GLN:HE21	1:J:395:MET:HE3	1.82	0.44
1:K:589:GLU:OE2	1:8:588:GLN:HG3	2.16	0.44
1:M:503:GLN:C	1:M:505:PRO:HD3	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:335:THR:CG2	1:Q:634:PRO:HB2	2.46	0.44
1:Q:503:GLN:C	1:Q:505:PRO:HD3	2.42	0.44
1:V:335:THR:CG2	1:V:634:PRO:HB2	2.46	0.44
1:V:515:LEU:HD23	1:V:561:VAL:HG11	1.99	0.44
1:Y:332:GLN:HE21	1:Y:395:MET:HE3	1.82	0.44
1:Y:503:GLN:C	1:Y:505:PRO:HD3	2.42	0.44
1:Y:515:LEU:HD23	1:Y:561:VAL:HG11	1.99	0.44
1:Z:247:TYR:OH	1:Z:389:GLU:OE1	2.28	0.44
1:Z:619:HIS:HA	2:QA:997:DA:C2'	2.46	0.44
1:b:503:GLN:C	1:b:505:PRO:HD3	2.42	0.44
1:b:610:LYS:HB2	1:b:632:PRO:HG2	1.99	0.44
1:c:633:PRO:HA	1:c:634:PRO:HD3	1.90	0.44
1:d:503:GLN:C	1:d:505:PRO:HD3	2.42	0.44
1:h:310:GLN:HE22	1:i:643:VAL:HG22	1.82	0.44
1:h:503:GLN:C	1:h:505:PRO:HD3	2.42	0.44
1:i:619:HIS:HA	2:aA:997:DA:C2'	2.47	0.44
1:k:224:TRP:CE2	1:k:289:ARG:HD3	2.52	0.44
1:l:332:GLN:HE21	1:l:395:MET:HE3	1.82	0.44
1:l:335:THR:CG2	1:l:634:PRO:HB2	2.46	0.44
1:l:515:LEU:HD23	1:l:561:VAL:HG11	1.99	0.44
1:m:332:GLN:HE21	1:m:395:MET:HE3	1.82	0.44
1:m:503:GLN:C	1:m:505:PRO:HD3	2.42	0.44
1:n:503:GLN:C	1:n:505:PRO:HD3	2.42	0.44
1:p:335:THR:CG2	1:p:634:PRO:HB2	2.46	0.44
1:q:335:THR:CG2	1:q:634:PRO:HB2	2.46	0.44
1:q:503:GLN:C	1:q:505:PRO:HD3	2.42	0.44
1:s:242:TYR:OH	1:s:363:LEU:O	2.29	0.44
1:v:332:GLN:HE21	1:v:395:MET:HE3	1.82	0.44
1:w:619:HIS:HA	2:pA:997:DA:C2'	2.47	0.44
1:y:418:ALA:N	1:y:720:LEU:O	2.41	0.44
1:1:224:TRP:CE2	1:1:289:ARG:HD3	2.52	0.44
1:4:418:ALA:N	1:4:720:LEU:O	2.41	0.44
1:7:503:GLN:C	1:7:505:PRO:HD3	2.42	0.44
1:8:619:HIS:HA	2:2A:997:DA:C2'	2.47	0.44
1:D:224:TRP:CE2	1:D:289:ARG:HD3	2.53	0.44
1:D:247:TYR:OH	1:D:389:GLU:OE1	2.28	0.44
1:F:619:HIS:HA	2:1A:997:DA:C2'	2.47	0.44
1:H:515:LEU:HD23	1:H:561:VAL:HG11	1.99	0.44
1:I:310:GLN:HE22	1:J:643:VAL:HG22	1.82	0.44
1:K:388:LEU:HD13	1:K:637:LEU:HD13	2.00	0.44
1:K:472:THR:HG23	1:K:522:ALA:HB1	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:503:GLN:C	1:K:505:PRO:HD3	2.42	0.44
1:L:619:HIS:HA	2:BA:997:DA:C2'	2.47	0.44
1:M:310:GLN:HE22	1:N:643:VAL:HG22	1.83	0.44
1:M:332:GLN:HE21	1:M:395:MET:HE3	1.82	0.44
1:O:332:GLN:HE21	1:O:395:MET:HE3	1.82	0.44
1:O:335:THR:CG2	1:O:634:PRO:HB2	2.46	0.44
1:Q:228:ARG:NH1	1:Q:300:ARG:HG3	2.27	0.44
1:S:332:GLN:HE21	1:S:395:MET:HE3	1.82	0.44
1:S:472:THR:HG23	1:S:522:ALA:HB1	1.98	0.44
1:T:503:GLN:C	1:T:505:PRO:HD3	2.42	0.44
1:U:224:TRP:CE2	1:U:289:ARG:HD3	2.52	0.44
1:U:310:GLN:HE22	1:e:643:VAL:HG22	1.82	0.44
1:Z:332:GLN:HE21	1:Z:395:MET:HE3	1.82	0.44
1:Z:486:VAL:HB	1:3:441:THR:HG22	1.99	0.44
1:a:503:GLN:C	1:a:505:PRO:HD3	2.42	0.44
1:c:619:HIS:HA	2:TA:997:DA:C2'	2.47	0.44
1:f:610:LYS:HB2	1:f:632:PRO:HG2	1.99	0.44
1:g:619:HIS:HA	2:YA:997:DA:C2'	2.47	0.44
1:r:332:GLN:HE21	1:r:395:MET:HE3	1.82	0.44
1:s:224:TRP:CE2	1:s:289:ARG:HD3	2.52	0.44
1:t:633:PRO:HA	1:t:634:PRO:HD3	1.90	0.44
1:u:310:GLN:HE22	1:2:643:VAL:HG22	1.82	0.44
1:u:472:THR:HG23	1:u:522:ALA:HB1	1.98	0.44
1:z:306:ILE:HG22	1:z:309:ILE:HD11	2.00	0.44
1:2:332:GLN:HE21	1:2:395:MET:HE3	1.82	0.44
1:2:515:LEU:HD23	1:2:561:VAL:HG11	1.99	0.44
1:3:503:GLN:C	1:3:505:PRO:HD3	2.42	0.44
1:4:388:LEU:HD13	1:4:637:LEU:HD13	2.00	0.44
1:4:503:GLN:C	1:4:505:PRO:HD3	2.42	0.44
1:5:515:LEU:HD23	1:5:561:VAL:HG11	1.99	0.44
1:6:306:ILE:HG22	1:6:309:ILE:HD11	2.00	0.44
1:7:332:GLN:HE21	1:7:395:MET:HE3	1.82	0.44
1:7:515:LEU:HD23	1:7:561:VAL:HG11	1.99	0.44
1:8:332:GLN:HE21	1:8:395:MET:HE3	1.82	0.44
1:A:306:ILE:HG22	1:A:309:ILE:HD11	2.00	0.44
1:A:388:LEU:HD13	1:A:637:LEU:HD13	2.00	0.44
1:A:678:GLU:OE2	1:A:680:SER:OG	2.22	0.44
1:D:619:HIS:HA	2:fA:997:DA:C2'	2.47	0.44
1:J:515:LEU:HD23	1:J:561:VAL:HG11	1.99	0.44
1:L:503:GLN:C	1:L:505:PRO:HD3	2.42	0.44
1:R:247:TYR:OH	1:R:389:GLU:OE1	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:503:GLN:C	1:R:505:PRO:HD3	2.42	0.44
1:R:610:LYS:HB2	1:R:632:PRO:HG2	1.99	0.44
1:T:224:TRP:CE2	1:T:289:ARG:HD3	2.52	0.44
1:T:332:GLN:HE21	1:T:395:MET:HE3	1.82	0.44
1:V:332:GLN:HE21	1:V:395:MET:HE3	1.82	0.44
1:W:306:ILE:HG22	1:W:309:ILE:HD11	2.00	0.44
1:X:224:TRP:CE2	1:X:289:ARG:HD3	2.52	0.44
1:X:515:LEU:HD23	1:X:561:VAL:HG11	1.99	0.44
1:f:332:GLN:HE21	1:f:395:MET:HE3	1.82	0.44
1:g:643:VAL:HG22	1:k:310:GLN:HE22	1.82	0.44
1:i:515:LEU:HD23	1:i:561:VAL:HG11	1.99	0.44
1:k:643:VAL:HG22	1:w:310:GLN:HE22	1.82	0.44
1:l:472:THR:HG23	1:l:522:ALA:HB1	1.98	0.44
1:m:224:TRP:CE2	1:m:289:ARG:HD3	2.52	0.44
1:n:515:LEU:HD23	1:n:561:VAL:HG11	1.99	0.44
1:s:503:GLN:C	1:s:505:PRO:HD3	2.42	0.44
1:t:503:GLN:C	1:t:505:PRO:HD3	2.42	0.44
1:v:398:THR:HG22	1:w:397:ARG:HH12	1.79	0.44
1:3:332:GLN:HE21	1:3:395:MET:HE3	1.82	0.44
1:8:224:TRP:CE2	1:8:289:ARG:HD3	2.52	0.44
1:A:398:THR:HG22	1:E:397:ARG:HH12	1.79	0.44
1:C:643:VAL:HG22	1:D:310:GLN:HE22	1.82	0.44
1:D:643:VAL:HG22	1:E:310:GLN:HE22	1.82	0.44
1:E:335:THR:CG2	1:E:634:PRO:HB2	2.46	0.44
1:G:633:PRO:HA	1:G:634:PRO:HD3	1.90	0.44
1:I:388:LEU:HD13	1:I:637:LEU:HD13	2.00	0.44
1:J:224:TRP:CE2	1:J:289:ARG:HD3	2.52	0.44
1:K:306:ILE:HG22	1:K:309:ILE:HD11	2.00	0.44
1:K:678:GLU:OE2	1:K:680:SER:OG	2.22	0.44
1:L:306:ILE:HG22	1:L:309:ILE:HD11	2.00	0.44
1:L:388:LEU:HD13	1:L:637:LEU:HD13	2.00	0.44
1:M:418:ALA:N	1:M:720:LEU:O	2.41	0.44
1:N:515:LEU:HD23	1:N:561:VAL:HG11	1.99	0.44
1:O:503:GLN:C	1:O:505:PRO:HD3	2.42	0.44
1:Q:515:LEU:HD23	1:Q:561:VAL:HG11	1.99	0.44
1:S:224:TRP:CE2	1:S:289:ARG:HD3	2.52	0.44
1:T:306:ILE:HG22	1:T:309:ILE:HD11	2.00	0.44
1:T:310:GLN:HE22	1:U:643:VAL:HG22	1.83	0.44
1:U:503:GLN:C	1:U:505:PRO:HD3	2.42	0.44
1:W:619:HIS:HA	2:NA:997:DA:C2'	2.47	0.44
1:X:610:LYS:HB2	1:X:632:PRO:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:224:TRP:CE2	1:Z:289:ARG:HD3	2.52	0.44
1:a:332:GLN:HE21	1:a:395:MET:HE3	1.82	0.44
1:d:515:LEU:HD23	1:d:561:VAL:HG11	1.99	0.44
1:h:224:TRP:CE2	1:h:289:ARG:HD3	2.52	0.44
1:h:418:ALA:N	1:h:720:LEU:O	2.41	0.44
1:k:619:HIS:HA	2:cA:997:DA:C2'	2.47	0.44
1:m:310:GLN:HE22	1:s:643:VAL:HG22	1.83	0.44
1:o:224:TRP:CE2	1:o:289:ARG:HD3	2.52	0.44
1:o:515:LEU:HD23	1:o:561:VAL:HG11	1.99	0.44
1:p:332:GLN:HE21	1:p:395:MET:HE3	1.82	0.44
1:p:515:LEU:HD23	1:p:561:VAL:HG11	1.99	0.44
1:q:610:LYS:HB2	1:q:632:PRO:HG2	2.00	0.44
1:r:472:THR:HG23	1:r:522:ALA:HB1	1.98	0.44
1:r:503:GLN:C	1:r:505:PRO:HD3	2.42	0.44
1:v:306:ILE:HG22	1:v:309:ILE:HD11	2.00	0.44
1:v:388:LEU:HD13	1:v:637:LEU:HD13	2.00	0.44
1:w:335:THR:CG2	1:w:634:PRO:HB2	2.46	0.44
1:y:515:LEU:HD23	1:y:561:VAL:HG11	1.99	0.44
1:z:332:GLN:HE21	1:z:395:MET:HE3	1.82	0.44
1:z:388:LEU:HD13	1:z:637:LEU:HD13	2.00	0.44
1:z:503:GLN:C	1:z:505:PRO:HD3	2.42	0.44
1:z:619:HIS:HA	2:tA:997:DA:C2'	2.47	0.44
1:2:224:TRP:CE2	1:2:289:ARG:HD3	2.52	0.44
1:3:242:TYR:OH	1:3:363:LEU:O	2.29	0.44
1:4:306:ILE:HG22	1:4:309:ILE:HD11	2.00	0.44
1:6:619:HIS:HA	2:zA:997:DA:C2'	2.46	0.44
1:7:242:TYR:OH	1:7:363:LEU:O	2.29	0.44
1:A:242:TYR:OH	1:A:363:LEU:O	2.29	0.44
1:C:503:GLN:C	1:C:505:PRO:HD3	2.42	0.44
1:D:306:ILE:HG22	1:D:309:ILE:HD11	2.00	0.44
1:F:503:GLN:C	1:F:505:PRO:HD3	2.42	0.44
1:F:515:LEU:HD23	1:F:561:VAL:HG11	1.99	0.44
1:G:472:THR:HG23	1:G:522:ALA:HB1	1.98	0.44
1:H:643:VAL:HG22	1:Z:310:GLN:HE22	1.83	0.44
1:K:224:TRP:CE2	1:K:289:ARG:HD3	2.52	0.44
1:M:247:TYR:OH	1:M:389:GLU:OE1	2.28	0.44
1:N:441:THR:HG22	1:P:486:VAL:HB	2.00	0.44
1:O:441:THR:HG22	1:m:486:VAL:HB	2.00	0.44
1:O:472:THR:HG23	1:O:522:ALA:HB1	1.98	0.44
1:S:306:ILE:HG22	1:S:309:ILE:HD11	2.00	0.44
1:S:388:LEU:HD13	1:S:637:LEU:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:439:VAL:HG21	1:S:450:ASN:HB2	1.97	0.44
1:S:503:GLN:C	1:S:505:PRO:HD3	2.42	0.44
1:W:610:LYS:HB2	1:W:632:PRO:HG2	1.99	0.44
1:Z:610:LYS:HB2	1:Z:632:PRO:HG2	1.99	0.44
1:Z:643:VAL:HG22	1:a:310:GLN:HE22	1.83	0.44
1:c:388:LEU:HD13	1:c:637:LEU:HD13	2.00	0.44
1:c:643:VAL:HG22	1:s:310:GLN:HE22	1.82	0.44
1:e:388:LEU:HD13	1:e:637:LEU:HD13	2.00	0.44
1:e:633:PRO:HA	1:e:634:PRO:HD3	1.90	0.44
1:g:503:GLN:C	1:g:505:PRO:HD3	2.42	0.44
1:i:441:THR:HG22	1:j:486:VAL:HB	2.00	0.44
1:j:380:THR:HG22	1:j:381:GLU:H	1.83	0.44
1:l:503:GLN:C	1:l:505:PRO:HD3	2.42	0.44
1:m:306:ILE:HG22	1:m:309:ILE:HD11	2.00	0.44
1:n:610:LYS:HB2	1:n:632:PRO:HG2	1.99	0.44
1:o:242:TYR:OH	1:o:363:LEU:O	2.29	0.44
1:o:503:GLN:C	1:o:505:PRO:HD3	2.42	0.44
1:q:310:GLN:HE22	1:y:643:VAL:HG22	1.82	0.44
1:r:224:TRP:CE2	1:r:289:ARG:HD3	2.52	0.44
1:r:388:LEU:HD13	1:r:637:LEU:HD13	2.00	0.44
1:r:439:VAL:HG21	1:r:450:ASN:HB2	1.97	0.44
1:u:388:LEU:HD13	1:u:637:LEU:HD13	2.00	0.44
1:x:224:TRP:CE2	1:x:289:ARG:HD3	2.52	0.44
1:x:228:ARG:NH1	1:x:300:ARG:HG3	2.27	0.44
1:y:388:LEU:HD13	1:y:637:LEU:HD13	2.00	0.44
1:y:503:GLN:C	1:y:505:PRO:HD3	2.42	0.44
1:2:356:PHE:HA	1:2:357:PRO:HD3	1.89	0.44
1:5:224:TRP:CE2	1:5:289:ARG:HD3	2.52	0.44
1:5:643:VAL:HG22	1:8:310:GLN:HE22	1.83	0.44
1:8:610:LYS:HB2	1:8:632:PRO:HG2	1.99	0.44
1:C:380:THR:HG22	1:C:381:GLU:H	1.83	0.44
1:D:388:LEU:HD13	1:D:637:LEU:HD13	2.00	0.44
1:F:380:THR:HG22	1:F:381:GLU:H	1.83	0.44
1:F:388:LEU:HD13	1:F:637:LEU:HD13	2.00	0.44
1:F:418:ALA:N	1:F:720:LEU:O	2.41	0.44
1:H:224:TRP:CE2	1:H:289:ARG:HD3	2.52	0.44
1:H:610:LYS:HB2	1:H:632:PRO:HG2	1.99	0.44
1:J:610:LYS:HB2	1:J:632:PRO:HG2	2.00	0.44
1:L:332:GLN:HE21	1:L:395:MET:HE3	1.82	0.44
1:L:443:ASN:OD1	1:L:444:THR:N	2.51	0.44
1:P:380:THR:HG22	1:P:381:GLU:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:224:TRP:CE2	1:Q:289:ARG:HD3	2.53	0.44
1:T:486:VAL:HB	1:l:441:THR:HG22	2.00	0.44
1:U:388:LEU:HD13	1:U:637:LEU:HD13	2.00	0.44
1:X:503:GLN:C	1:X:505:PRO:HD3	2.42	0.44
1:Z:306:ILE:HG22	1:Z:309:ILE:HD11	2.00	0.44
1:Z:441:THR:HG22	1:4:486:VAL:HB	2.00	0.44
1:b:332:GLN:HE21	1:b:395:MET:HE3	1.82	0.44
1:d:610:LYS:HB2	1:d:632:PRO:HG2	1.99	0.44
1:g:380:THR:HG22	1:g:381:GLU:H	1.83	0.44
1:i:388:LEU:HD13	1:i:637:LEU:HD13	2.00	0.44
1:i:482:ASN:HB3	1:i:483:ARG:H	1.61	0.44
1:j:503:GLN:C	1:j:505:PRO:HD3	2.42	0.44
1:k:306:ILE:HG22	1:k:309:ILE:HD11	2.00	0.44
1:k:388:LEU:HD13	1:k:637:LEU:HD13	2.00	0.44
1:l:610:LYS:HB2	1:l:632:PRO:HG2	1.99	0.44
1:m:610:LYS:HB2	1:m:632:PRO:HG2	1.99	0.44
1:o:306:ILE:HG22	1:o:309:ILE:HD11	2.00	0.44
1:o:310:GLN:HE22	1:7:643:VAL:HG22	1.82	0.44
1:o:610:LYS:HB2	1:o:632:PRO:HG2	1.99	0.44
1:t:472:THR:HG23	1:t:522:ALA:HB1	1.98	0.44
1:w:306:ILE:HG22	1:w:309:ILE:HD11	2.00	0.44
1:y:380:THR:HG22	1:y:381:GLU:H	1.83	0.44
1:z:441:THR:HG22	1:1:486:VAL:HB	2.00	0.44
1:1:388:LEU:HD13	1:1:637:LEU:HD13	2.00	0.44
1:4:224:TRP:CE2	1:4:289:ARG:HD3	2.52	0.44
1:A:443:ASN:OD1	1:A:444:THR:N	2.51	0.44
1:B:388:LEU:HD13	1:B:637:LEU:HD13	2.00	0.44
1:B:643:VAL:HG22	1:C:310:GLN:HE22	1.82	0.44
1:D:486:VAL:HB	1:P:441:THR:HG22	2.00	0.44
1:E:306:ILE:HG22	1:E:309:ILE:HD11	2.00	0.44
1:F:643:VAL:HG22	1:R:310:GLN:HE22	1.82	0.44
1:G:503:GLN:C	1:G:505:PRO:HD3	2.42	0.44
1:H:441:THR:HG22	1:W:486:VAL:HB	2.00	0.44
1:J:310:GLN:HE22	1:a:643:VAL:HG22	1.82	0.44
1:J:380:THR:HG22	1:J:381:GLU:H	1.83	0.44
1:J:443:ASN:OD1	1:J:444:THR:N	2.51	0.44
1:K:310:GLN:HE22	1:L:643:VAL:HG22	1.83	0.44
1:K:486:VAL:HB	1:8:441:THR:HG22	2.00	0.44
1:M:224:TRP:CE2	1:M:289:ARG:HD3	2.53	0.44
1:N:388:LEU:HD13	1:N:637:LEU:HD13	2.00	0.44
1:O:310:GLN:HE22	1:P:643:VAL:HG22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:388:LEU:HD13	1:O:637:LEU:HD13	2.00	0.44
1:O:610:LYS:HB2	1:O:632:PRO:HG2	1.99	0.44
1:P:503:GLN:C	1:P:505:PRO:HD3	2.42	0.44
1:Q:443:ASN:OD1	1:Q:444:THR:N	2.51	0.44
1:S:443:ASN:OD1	1:S:444:THR:N	2.51	0.44
1:T:610:LYS:HB2	1:T:632:PRO:HG2	1.99	0.44
1:U:380:THR:HG22	1:U:381:GLU:H	1.83	0.44
1:V:643:VAL:HG22	1:W:310:GLN:HE22	1.82	0.44
1:W:388:LEU:HD13	1:W:637:LEU:HD13	2.00	0.44
1:X:306:ILE:HG22	1:X:309:ILE:HD11	2.00	0.44
1:Y:242:TYR:OH	1:Y:363:LEU:O	2.29	0.44
1:Y:443:ASN:OD1	1:Y:444:THR:N	2.51	0.44
1:a:441:THR:HG22	1:8:486:VAL:HB	2.00	0.44
1:a:443:ASN:OD1	1:a:444:THR:N	2.51	0.44
1:b:388:LEU:HD13	1:b:637:LEU:HD13	2.00	0.44
1:c:224:TRP:CE2	1:c:289:ARG:HD3	2.52	0.44
1:e:224:TRP:CE2	1:e:289:ARG:HD3	2.52	0.44
1:f:388:LEU:HD13	1:f:637:LEU:HD13	2.00	0.44
1:j:224:TRP:CE2	1:j:289:ARG:HD3	2.52	0.44
1:j:441:THR:HG22	1:k:486:VAL:HB	2.00	0.44
1:j:643:VAL:HG22	1:l:310:GLN:HE22	1.83	0.44
1:l:306:ILE:HG22	1:l:309:ILE:HD11	2.00	0.44
1:l:388:LEU:HD13	1:l:637:LEU:HD13	2.00	0.44
1:l:443:ASN:OD1	1:l:444:THR:N	2.51	0.44
1:n:643:VAL:HG22	1:r:310:GLN:HE22	1.82	0.44
1:p:247:TYR:OH	1:p:389:GLU:OE1	2.28	0.44
1:q:224:TRP:CE2	1:q:289:ARG:HD3	2.52	0.44
1:r:306:ILE:HG22	1:r:309:ILE:HD11	2.00	0.44
1:s:388:LEU:HD13	1:s:637:LEU:HD13	2.00	0.44
1:u:443:ASN:OD1	1:u:444:THR:N	2.51	0.44
1:v:678:GLU:OE2	1:v:680:SER:OG	2.22	0.44
1:w:242:TYR:OH	1:w:363:LEU:O	2.29	0.44
1:x:515:LEU:HD23	1:x:561:VAL:HG11	1.99	0.44
1:x:610:LYS:HB2	1:x:632:PRO:HG2	1.99	0.44
1:z:443:ASN:OD1	1:z:444:THR:N	2.51	0.44
1:z:643:VAL:HG22	1:4:310:GLN:HE22	1.83	0.44
1:2:610:LYS:HB2	1:2:632:PRO:HG2	1.99	0.44
1:3:443:ASN:OD1	1:3:444:THR:N	2.51	0.44
1:6:388:LEU:HD13	1:6:637:LEU:HD13	2.00	0.44
1:6:610:LYS:HB2	1:6:632:PRO:HG2	1.99	0.44
1:7:443:ASN:OD1	1:7:444:THR:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:610:LYS:HB2	1:7:632:PRO:HG2	1.99	0.44
1:8:306:ILE:HG22	1:8:309:ILE:HD11	2.00	0.44
1:B:503:GLN:C	1:B:505:PRO:HD3	2.42	0.44
1:I:443:ASN:OD1	1:I:444:THR:N	2.51	0.44
1:J:356:PHE:HA	1:J:357:PRO:HD3	1.89	0.44
1:M:388:LEU:HD13	1:M:637:LEU:HD13	2.00	0.44
1:O:306:ILE:HG22	1:O:309:ILE:HD11	2.00	0.44
1:O:380:THR:HG22	1:O:381:GLU:H	1.83	0.44
1:O:443:ASN:OD1	1:O:444:THR:N	2.51	0.44
1:O:486:VAL:HB	1:n:441:THR:HG22	2.00	0.44
1:P:224:TRP:CE2	1:P:289:ARG:HD3	2.53	0.44
1:R:224:TRP:CE2	1:R:289:ARG:HD3	2.52	0.44
1:R:332:GLN:HE21	1:R:395:MET:HE3	1.82	0.44
1:V:388:LEU:HD13	1:V:637:LEU:HD13	2.00	0.44
1:W:443:ASN:OD1	1:W:444:THR:N	2.51	0.44
1:X:242:TYR:OH	1:X:363:LEU:O	2.29	0.44
1:X:310:GLN:HE22	1:Y:643:VAL:HG22	1.82	0.44
1:X:443:ASN:OD1	1:X:444:THR:N	2.51	0.44
1:Y:610:LYS:HB2	1:Y:632:PRO:HG2	1.99	0.44
1:Z:388:LEU:HD13	1:Z:637:LEU:HD13	2.00	0.44
1:d:441:THR:HG22	1:l:486:VAL:HB	2.00	0.44
1:d:443:ASN:OD1	1:d:444:THR:N	2.51	0.44
1:o:443:ASN:OD1	1:o:444:THR:N	2.51	0.44
1:p:388:LEU:HD13	1:p:637:LEU:HD13	2.00	0.44
1:p:643:VAL:HG22	1:6:310:GLN:HE22	1.82	0.44
1:r:228:ARG:NH1	1:r:300:ARG:HG3	2.27	0.44
1:r:443:ASN:OD1	1:r:444:THR:N	2.51	0.44
1:s:380:THR:HG22	1:s:381:GLU:H	1.83	0.44
1:s:443:ASN:OD1	1:s:444:THR:N	2.51	0.44
1:t:224:TRP:CE2	1:t:289:ARG:HD3	2.52	0.44
1:t:310:GLN:HE22	1:6:643:VAL:HG22	1.82	0.44
1:v:443:ASN:OD1	1:v:444:THR:N	2.51	0.44
1:x:332:GLN:HE21	1:x:395:MET:HE3	1.82	0.44
1:x:443:ASN:OD1	1:x:444:THR:N	2.51	0.44
1:y:610:LYS:HB2	1:y:632:PRO:HG2	1.99	0.44
1:z:224:TRP:CE2	1:z:289:ARG:HD3	2.52	0.44
1:z:610:LYS:HB2	1:z:632:PRO:HG2	1.99	0.44
1:1:503:GLN:C	1:1:505:PRO:HD3	2.42	0.44
1:2:443:ASN:OD1	1:2:444:THR:N	2.51	0.44
1:5:441:THR:HG22	1:6:486:VAL:HB	2.00	0.44
1:8:388:LEU:HD13	1:8:637:LEU:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:VAL:HB	1:L:441:THR:HG22	2.00	0.44
1:D:380:THR:HG22	1:D:381:GLU:H	1.83	0.44
1:D:443:ASN:OD1	1:D:444:THR:N	2.51	0.44
1:F:306:ILE:HG22	1:F:309:ILE:HD11	2.00	0.44
1:F:610:LYS:HB2	1:F:632:PRO:HG2	2.00	0.44
1:G:224:TRP:CE2	1:G:289:ARG:HD3	2.52	0.44
1:G:443:ASN:OD1	1:G:444:THR:N	2.51	0.44
1:J:425:LYS:NZ	1:L:262:ALA:O	2.37	0.44
1:L:224:TRP:CE2	1:L:289:ARG:HD3	2.52	0.44
1:N:380:THR:HG22	1:N:381:GLU:H	1.83	0.44
1:O:247:TYR:OH	1:O:389:GLU:OE1	2.28	0.44
1:Q:610:LYS:HB2	1:Q:632:PRO:HG2	1.99	0.44
1:S:310:GLN:HE22	1:d:643:VAL:HG22	1.82	0.44
1:U:443:ASN:OD1	1:U:444:THR:N	2.51	0.44
1:Z:503:GLN:C	1:Z:505:PRO:HD3	2.42	0.44
1:e:380:THR:HG22	1:e:381:GLU:H	1.83	0.44
1:e:443:ASN:OD1	1:e:444:THR:N	2.51	0.44
1:e:610:LYS:HB2	1:e:632:PRO:HG2	1.99	0.44
1:g:310:GLN:HE22	1:l:643:VAL:HG22	1.82	0.44
1:g:610:LYS:HB2	1:g:632:PRO:HG2	1.99	0.44
1:h:388:LEU:HD13	1:h:637:LEU:HD13	2.00	0.44
1:k:380:THR:HG22	1:k:381:GLU:H	1.83	0.44
1:l:380:THR:HG22	1:l:381:GLU:H	1.83	0.44
1:n:443:ASN:OD1	1:n:444:THR:N	2.51	0.44
1:t:486:VAL:HB	1:v:441:THR:HG22	2.00	0.44
1:u:242:TYR:OH	1:u:363:LEU:O	2.29	0.44
1:v:610:LYS:HB2	1:v:632:PRO:HG2	1.99	0.44
1:w:443:ASN:OD1	1:w:444:THR:N	2.51	0.44
1:w:678:GLU:OE2	1:w:680:SER:OG	2.22	0.44
1:1:380:THR:HG22	1:1:381:GLU:H	1.83	0.44
1:1:441:THR:HG22	1:2:486:VAL:HB	2.00	0.44
1:3:306:ILE:HG22	1:3:309:ILE:HD11	2.00	0.44
1:4:443:ASN:OD1	1:4:444:THR:N	2.51	0.44
1:4:678:GLU:OE2	1:4:680:SER:OG	2.22	0.44
1:5:503:GLN:C	1:5:505:PRO:HD3	2.42	0.44
1:5:610:LYS:HB2	1:5:632:PRO:HG2	2.00	0.44
1:6:443:ASN:OD1	1:6:444:THR:N	2.51	0.44
1:8:503:GLN:C	1:8:505:PRO:HD3	2.42	0.44
1:A:610:LYS:HB2	1:A:632:PRO:HG2	1.99	0.43
1:B:228:ARG:NH1	1:B:300:ARG:HG3	2.27	0.43
1:B:380:THR:HG22	1:B:381:GLU:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:441:THR:HG22	1:J:486:VAL:HB	2.00	0.43
1:C:443:ASN:OD1	1:C:444:THR:N	2.51	0.43
1:E:443:ASN:OD1	1:E:444:THR:N	2.51	0.43
1:E:476:ASN:CB	1:E:480:GLY:HA3	2.45	0.43
1:E:678:GLU:OE2	1:E:680:SER:OG	2.22	0.43
1:K:332:GLN:HE21	1:K:395:MET:HE3	1.82	0.43
1:K:443:ASN:OD1	1:K:444:THR:N	2.51	0.43
1:P:610:LYS:HB2	1:P:632:PRO:HG2	1.99	0.43
1:Q:332:GLN:HE21	1:Q:395:MET:HE3	1.82	0.43
1:S:610:LYS:HB2	1:S:632:PRO:HG2	1.99	0.43
1:U:306:ILE:HG22	1:U:309:ILE:HD11	2.00	0.43
1:a:224:TRP:CE2	1:a:289:ARG:HD3	2.52	0.43
1:a:306:ILE:HG22	1:a:309:ILE:HD11	2.00	0.43
1:c:610:LYS:HB2	1:c:632:PRO:HG2	1.99	0.43
1:g:443:ASN:OD1	1:g:444:THR:N	2.51	0.43
1:i:380:THR:HG22	1:i:381:GLU:H	1.83	0.43
1:j:306:ILE:HG22	1:j:309:ILE:HD11	2.00	0.43
1:k:443:ASN:OD1	1:k:444:THR:N	2.51	0.43
1:q:332:GLN:HE21	1:q:395:MET:HE3	1.82	0.43
1:q:441:THR:HG22	1:r:486:VAL:HB	2.00	0.43
1:r:610:LYS:HB2	1:r:632:PRO:HG2	1.99	0.43
1:s:306:ILE:HG22	1:s:309:ILE:HD11	2.00	0.43
1:t:242:TYR:OH	1:t:363:LEU:O	2.29	0.43
1:t:643:VAL:HG22	1:y:310:GLN:HE22	1.82	0.43
1:w:476:ASN:CB	1:w:480:GLY:HA3	2.45	0.43
1:y:224:TRP:CE2	1:y:289:ARG:HD3	2.52	0.43
1:y:306:ILE:HG22	1:y:309:ILE:HD11	2.00	0.43
1:1:228:ARG:NH1	1:1:300:ARG:HG3	2.27	0.43
1:2:380:THR:HG22	1:2:381:GLU:H	1.83	0.43
1:3:224:TRP:CE2	1:3:289:ARG:HD3	2.52	0.43
1:3:380:THR:HG22	1:3:381:GLU:H	1.83	0.43
1:D:441:THR:HG22	1:N:486:VAL:HB	2.00	0.43
1:E:242:TYR:OH	1:E:363:LEU:O	2.29	0.43
1:F:332:GLN:HE21	1:F:395:MET:HE3	1.82	0.43
1:H:503:GLN:C	1:H:505:PRO:HD3	2.42	0.43
1:L:610:LYS:HB2	1:L:632:PRO:HG2	2.00	0.43
1:M:242:TYR:OH	1:M:363:LEU:O	2.29	0.43
1:O:643:VAL:HG22	1:d:310:GLN:HE22	1.83	0.43
1:Q:678:GLU:OE2	1:Q:680:SER:OG	2.22	0.43
1:X:388:LEU:HD13	1:X:637:LEU:HD13	2.00	0.43
1:Y:224:TRP:CE2	1:Y:289:ARG:HD3	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:380:THR:HG22	1:a:381:GLU:H	1.83	0.43
1:c:380:THR:HG22	1:c:381:GLU:H	1.83	0.43
1:c:443:ASN:OD1	1:c:444:THR:N	2.51	0.43
1:h:242:TYR:OH	1:h:363:LEU:O	2.29	0.43
1:i:503:GLN:C	1:i:505:PRO:HD3	2.42	0.43
1:i:633:PRO:HA	1:i:634:PRO:HD3	1.90	0.43
1:k:242:TYR:OH	1:k:363:LEU:O	2.29	0.43
1:p:224:TRP:CE2	1:p:289:ARG:HD3	2.52	0.43
1:t:443:ASN:OD1	1:t:444:THR:N	2.51	0.43
1:v:310:GLN:HE22	1:w:643:VAL:HG22	1.82	0.43
1:w:486:VAL:HB	1:y:441:THR:HG22	2.00	0.43
1:w:515:LEU:HD23	1:w:561:VAL:HG11	1.99	0.43
1:x:380:THR:HG22	1:x:381:GLU:H	1.83	0.43
1:4:332:GLN:HE21	1:4:395:MET:HE3	1.82	0.43
1:6:441:THR:HG22	1:7:486:VAL:HB	2.00	0.43
1:7:224:TRP:CE2	1:7:289:ARG:HD3	2.52	0.43
1:7:418:ALA:N	1:7:720:LEU:O	2.41	0.43
1:A:224:TRP:CE2	1:A:289:ARG:HD3	2.52	0.43
1:C:610:LYS:HB2	1:C:632:PRO:HG2	2.00	0.43
1:F:224:TRP:CE2	1:F:289:ARG:HD3	2.53	0.43
1:I:242:TYR:OH	1:I:363:LEU:O	2.29	0.43
1:P:306:ILE:HG22	1:P:309:ILE:HD11	2.00	0.43
1:P:443:ASN:OD1	1:P:444:THR:N	2.51	0.43
1:S:228:ARG:NH1	1:S:300:ARG:HG3	2.27	0.43
1:T:242:TYR:OH	1:T:363:LEU:O	2.29	0.43
1:T:380:THR:HG22	1:T:381:GLU:H	1.83	0.43
1:T:467:GLY:HA3	1:T:596:TRP:HB3	2.01	0.43
1:V:224:TRP:CE2	1:V:289:ARG:HD3	2.52	0.43
1:V:503:GLN:C	1:V:505:PRO:HD3	2.42	0.43
1:W:441:THR:HG22	1:Y:486:VAL:HB	2.00	0.43
1:W:467:GLY:HA3	1:W:596:TRP:HB3	2.01	0.43
1:W:482:ASN:HB3	1:W:483:ARG:H	1.61	0.43
1:Y:418:ALA:N	1:Y:720:LEU:O	2.41	0.43
1:b:224:TRP:CE2	1:b:289:ARG:HD3	2.52	0.43
1:b:467:GLY:HA3	1:b:596:TRP:HB3	2.01	0.43
1:d:380:THR:HG22	1:d:381:GLU:H	1.83	0.43
1:f:443:ASN:OD1	1:f:444:THR:N	2.51	0.43
1:f:467:GLY:HA3	1:f:596:TRP:HB3	2.01	0.43
1:i:610:LYS:HB2	1:i:632:PRO:HG2	1.99	0.43
1:j:610:LYS:HB2	1:j:632:PRO:HG2	1.99	0.43
1:l:643:VAL:HG22	1:n:310:GLN:HE22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:380:THR:HG22	1:n:381:GLU:H	1.83	0.43
1:o:388:LEU:HD13	1:o:637:LEU:HD13	2.00	0.43
1:p:443:ASN:OD1	1:p:444:THR:N	2.51	0.43
1:v:224:TRP:CE2	1:v:289:ARG:HD3	2.52	0.43
1:v:503:GLN:C	1:v:505:PRO:HD3	2.42	0.43
1:y:332:GLN:HE21	1:y:395:MET:HE3	1.82	0.43
1:1:306:ILE:HG22	1:1:309:ILE:HD11	2.00	0.43
1:4:610:LYS:HB2	1:4:632:PRO:HG2	1.99	0.43
1:6:467:GLY:HA3	1:6:596:TRP:HB3	2.01	0.43
1:B:306:ILE:HG22	1:B:309:ILE:HD11	2.00	0.43
1:B:443:ASN:OD1	1:B:444:THR:N	2.51	0.43
1:B:610:LYS:HB2	1:B:632:PRO:HG2	1.99	0.43
1:C:224:TRP:CE2	1:C:289:ARG:HD3	2.53	0.43
1:D:242:TYR:OH	1:D:363:LEU:O	2.29	0.43
1:D:467:GLY:HA3	1:D:596:TRP:HB3	2.01	0.43
1:E:486:VAL:HB	1:F:441:THR:HG22	2.00	0.43
1:F:310:GLN:HB3	1:G:328:THR:HG21	2.00	0.43
1:G:242:TYR:OH	1:G:363:LEU:O	2.29	0.43
1:H:443:ASN:OD1	1:H:444:THR:N	2.51	0.43
1:K:467:GLY:HA3	1:K:596:TRP:HB3	2.01	0.43
1:K:610:LYS:HB2	1:K:632:PRO:HG2	1.99	0.43
1:M:306:ILE:HG22	1:M:309:ILE:HD11	2.00	0.43
1:N:482:ASN:HB3	1:N:483:ARG:H	1.61	0.43
1:N:503:GLN:C	1:N:505:PRO:HD3	2.42	0.43
1:O:328:THR:HG21	1:d:310:GLN:HB3	2.00	0.43
1:O:467:GLY:HA3	1:O:596:TRP:HB3	2.01	0.43
1:Q:380:THR:HG22	1:Q:381:GLU:H	1.83	0.43
1:W:380:THR:HG22	1:W:381:GLU:H	1.83	0.43
1:W:476:ASN:CB	1:W:480:GLY:HA3	2.45	0.43
1:X:486:VAL:HB	1:e:441:THR:HG22	2.00	0.43
1:Z:380:THR:HG22	1:Z:381:GLU:H	1.83	0.43
1:Z:467:GLY:HA3	1:Z:596:TRP:HB3	2.01	0.43
1:a:467:GLY:HA3	1:a:596:TRP:HB3	2.01	0.43
1:b:443:ASN:OD1	1:b:444:THR:N	2.51	0.43
1:c:356:PHE:HA	1:c:357:PRO:HD3	1.89	0.43
1:g:224:TRP:CE2	1:g:289:ARG:HD3	2.52	0.43
1:i:306:ILE:HG22	1:i:309:ILE:HD11	2.00	0.43
1:i:486:VAL:HB	1:k:441:THR:HG22	2.00	0.43
1:l:467:GLY:HA3	1:l:596:TRP:HB3	2.01	0.43
1:m:467:GLY:HA3	1:m:596:TRP:HB3	2.01	0.43
1:q:388:LEU:HD13	1:q:637:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:467:GLY:HA3	1:2:596:TRP:HB3	2.01	0.43
1:3:310:GLN:HB3	1:8:328:THR:HG21	1.99	0.43
1:3:310:GLN:HE22	1:8:643:VAL:HG22	1.83	0.43
1:5:443:ASN:OD1	1:5:444:THR:N	2.51	0.43
1:6:380:THR:HG22	1:6:381:GLU:H	1.83	0.43
1:8:380:THR:HG22	1:8:381:GLU:H	1.83	0.43
1:A:503:GLN:C	1:A:505:PRO:HD3	2.42	0.43
1:F:310:GLN:HE22	1:G:643:VAL:HG22	1.82	0.43
1:G:467:GLY:HA3	1:G:596:TRP:HB3	2.01	0.43
1:I:467:GLY:HA3	1:I:596:TRP:HB3	2.01	0.43
1:J:467:GLY:HA3	1:J:596:TRP:HB3	2.01	0.43
1:L:380:THR:HG22	1:L:381:GLU:H	1.83	0.43
1:R:441:THR:HG22	1:S:486:VAL:HB	2.00	0.43
1:V:443:ASN:OD1	1:V:444:THR:N	2.51	0.43
1:V:486:VAL:HB	1:X:441:THR:HG22	2.00	0.43
1:Y:310:GLN:HB3	1:4:328:THR:HG21	2.01	0.43
1:f:224:TRP:CE2	1:f:289:ARG:HD3	2.52	0.43
1:h:306:ILE:HG22	1:h:309:ILE:HD11	2.00	0.43
1:h:380:THR:HG22	1:h:381:GLU:H	1.83	0.43
1:h:610:LYS:HB2	1:h:632:PRO:HG2	1.99	0.43
1:j:443:ASN:OD1	1:j:444:THR:N	2.51	0.43
1:k:467:GLY:HA3	1:k:596:TRP:HB3	2.01	0.43
1:m:380:THR:HG22	1:m:381:GLU:H	1.83	0.43
1:n:224:TRP:CE2	1:n:289:ARG:HD3	2.52	0.43
1:p:503:GLN:C	1:p:505:PRO:HD3	2.42	0.43
1:q:242:TYR:OH	1:q:363:LEU:O	2.29	0.43
1:u:467:GLY:HA3	1:u:596:TRP:HB3	2.01	0.43
1:1:443:ASN:OD1	1:1:444:THR:N	2.51	0.43
1:3:467:GLY:HA3	1:3:596:TRP:HB3	2.01	0.43
1:4:467:GLY:HA3	1:4:596:TRP:HB3	2.01	0.43
1:6:476:ASN:CB	1:6:480:GLY:HA3	2.45	0.43
1:7:306:ILE:HG22	1:7:309:ILE:HD11	2.00	0.43
1:8:467:GLY:HA3	1:8:596:TRP:HB3	2.01	0.43
1:A:310:GLN:HE22	1:E:643:VAL:HG22	1.82	0.43
1:C:388:LEU:HD13	1:C:637:LEU:HD13	2.00	0.43
1:E:515:LEU:HD23	1:E:561:VAL:HG11	1.99	0.43
1:G:310:GLN:HE22	1:W:643:VAL:HG22	1.83	0.43
1:H:467:GLY:HA3	1:H:596:TRP:HB3	2.01	0.43
1:H:486:VAL:HB	1:Y:441:THR:HG22	2.00	0.43
1:K:441:THR:HG22	1:a:486:VAL:HB	2.00	0.43
1:K:633:PRO:HA	1:K:634:PRO:HD3	1.90	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:380:THR:HG22	1:M:381:GLU:H	1.83	0.43
1:M:610:LYS:HB2	1:M:632:PRO:HG2	1.99	0.43
1:N:610:LYS:HB2	1:N:632:PRO:HG2	1.99	0.43
1:R:388:LEU:HD13	1:R:637:LEU:HD13	2.00	0.43
1:R:467:GLY:HA3	1:R:596:TRP:HB3	2.01	0.43
1:R:486:VAL:HB	1:U:441:THR:HG22	2.00	0.43
1:T:441:THR:HG22	1:d:486:VAL:HB	2.00	0.43
1:T:515:LEU:HD23	1:T:561:VAL:HG11	1.99	0.43
1:c:306:ILE:HG22	1:c:309:ILE:HD11	2.00	0.43
1:c:441:THR:HG22	1:o:486:VAL:HB	2.00	0.43
1:d:224:TRP:CE2	1:d:289:ARG:HD3	2.52	0.43
1:f:486:VAL:HB	1:g:441:THR:HG22	2.00	0.43
1:g:486:VAL:HB	1:h:441:THR:HG22	2.00	0.43
1:i:224:TRP:CE2	1:i:289:ARG:HD3	2.52	0.43
1:l:328:THR:HG21	1:n:310:GLN:HB3	2.00	0.43
1:m:515:LEU:HD23	1:m:561:VAL:HG11	1.99	0.43
1:q:467:GLY:HA3	1:q:596:TRP:HB3	2.01	0.43
1:t:467:GLY:HA3	1:t:596:TRP:HB3	2.01	0.43
1:1:610:LYS:HB2	1:1:632:PRO:HG2	2.00	0.43
1:5:428:ASN:HB3	1:5:431:VAL:HG22	2.01	0.43
1:B:428:ASN:HB3	1:B:431:VAL:HG22	2.01	0.43
1:C:428:ASN:HB3	1:C:431:VAL:HG22	2.01	0.43
1:C:441:THR:HG22	1:b:486:VAL:HB	2.00	0.43
1:C:633:PRO:HA	1:C:634:PRO:HD3	1.90	0.43
1:E:224:TRP:CE2	1:E:289:ARG:HD3	2.52	0.43
1:E:425:LYS:NZ	1:Q:262:ALA:O	2.37	0.43
1:H:428:ASN:HB3	1:H:431:VAL:HG22	2.01	0.43
1:K:328:THR:HG21	1:7:310:GLN:HB3	2.01	0.43
1:N:224:TRP:CE2	1:N:289:ARG:HD3	2.53	0.43
1:N:306:ILE:HG22	1:N:309:ILE:HD11	2.00	0.43
1:N:428:ASN:HB3	1:N:431:VAL:HG22	2.01	0.43
1:N:467:GLY:HA3	1:N:596:TRP:HB3	2.01	0.43
1:P:310:GLN:HE22	1:Q:643:VAL:HG22	1.82	0.43
1:X:467:GLY:HA3	1:X:596:TRP:HB3	2.01	0.43
1:Y:306:ILE:HG22	1:Y:309:ILE:HD11	2.00	0.43
1:a:388:LEU:HD13	1:a:637:LEU:HD13	2.00	0.43
1:a:610:LYS:HB2	1:a:632:PRO:HG2	1.99	0.43
1:b:380:THR:HG22	1:b:381:GLU:H	1.83	0.43
1:b:428:ASN:HB3	1:b:431:VAL:HG22	2.01	0.43
1:e:306:ILE:HG22	1:e:309:ILE:HD11	2.00	0.43
1:f:441:THR:HG22	1:h:486:VAL:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:388:LEU:HD13	1:g:637:LEU:HD13	2.00	0.43
1:g:428:ASN:HB3	1:g:431:VAL:HG22	2.01	0.43
1:i:428:ASN:HB3	1:i:431:VAL:HG22	2.01	0.43
1:i:467:GLY:HA3	1:i:596:TRP:HB3	2.01	0.43
1:k:610:LYS:HB2	1:k:632:PRO:HG2	1.99	0.43
1:o:380:THR:HG22	1:o:381:GLU:H	1.83	0.43
1:o:441:THR:HG22	1:p:486:VAL:HB	2.00	0.43
1:o:467:GLY:HA3	1:o:596:TRP:HB3	2.01	0.43
1:p:306:ILE:HG22	1:p:309:ILE:HD11	2.00	0.43
1:q:486:VAL:HB	1:s:441:THR:HG22	2.00	0.43
1:v:428:ASN:HB3	1:v:431:VAL:HG22	2.01	0.43
1:w:380:THR:HG22	1:w:381:GLU:H	1.83	0.43
1:x:441:THR:HG22	1:y:486:VAL:HB	2.00	0.43
1:z:380:THR:HG22	1:z:381:GLU:H	1.83	0.43
1:1:428:ASN:HB3	1:1:431:VAL:HG22	2.01	0.43
1:3:610:LYS:HB2	1:3:632:PRO:HG2	1.99	0.43
1:5:467:GLY:HA3	1:5:596:TRP:HB3	2.01	0.43
1:5:486:VAL:HB	1:7:441:THR:HG22	2.00	0.43
1:7:476:ASN:CB	1:7:480:GLY:HA3	2.45	0.43
1:A:428:ASN:HB3	1:A:431:VAL:HG22	2.01	0.43
1:C:306:ILE:HG22	1:C:309:ILE:HD11	2.00	0.43
1:C:467:GLY:HA3	1:C:596:TRP:HB3	2.01	0.43
1:D:610:LYS:HB2	1:D:632:PRO:HG2	1.99	0.43
1:E:380:THR:HG22	1:E:381:GLU:H	1.83	0.43
1:F:443:ASN:OD1	1:F:444:THR:N	2.51	0.43
1:F:486:VAL:HB	1:Q:441:THR:HG22	2.00	0.43
1:I:515:LEU:HD23	1:I:561:VAL:HG11	1.99	0.43
1:I:610:LYS:HB2	1:I:632:PRO:HG2	1.99	0.43
1:J:306:ILE:HG22	1:J:309:ILE:HD11	2.00	0.43
1:N:310:GLN:HB3	1:m:328:THR:HG21	2.01	0.43
1:P:310:GLN:HB3	1:Q:328:THR:HG21	2.01	0.43
1:Q:388:LEU:HD13	1:Q:637:LEU:HD13	2.00	0.43
1:R:242:TYR:OH	1:R:363:LEU:O	2.29	0.43
1:S:380:THR:HG22	1:S:381:GLU:H	1.83	0.43
1:T:388:LEU:HD13	1:T:637:LEU:HD13	2.00	0.43
1:T:443:ASN:OD1	1:T:444:THR:N	2.51	0.43
1:U:610:LYS:HB2	1:U:632:PRO:HG2	1.99	0.43
1:V:242:TYR:OH	1:V:363:LEU:O	2.29	0.43
1:V:380:THR:HG22	1:V:381:GLU:H	1.83	0.43
1:Z:443:ASN:OD1	1:Z:444:THR:N	2.51	0.43
1:e:428:ASN:HB3	1:e:431:VAL:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:380:THR:HG22	1:f:381:GLU:H	1.83	0.43
1:f:428:ASN:HB3	1:f:431:VAL:HG22	2.01	0.43
1:g:467:GLY:HA3	1:g:596:TRP:HB3	2.01	0.43
1:g:633:PRO:HA	1:g:634:PRO:HD3	1.90	0.43
1:m:388:LEU:HD13	1:m:637:LEU:HD13	2.00	0.43
1:m:441:THR:HG22	1:n:486:VAL:HB	2.00	0.43
1:m:443:ASN:OD1	1:m:444:THR:N	2.51	0.43
1:n:306:ILE:HG22	1:n:309:ILE:HD11	2.00	0.43
1:o:428:ASN:HB3	1:o:431:VAL:HG22	2.01	0.43
1:q:247:TYR:OH	1:q:389:GLU:OE1	2.28	0.43
1:s:610:LYS:HB2	1:s:632:PRO:HG2	1.99	0.43
1:u:610:LYS:HB2	1:u:632:PRO:HG2	1.99	0.43
1:w:224:TRP:CE2	1:w:289:ARG:HD3	2.52	0.43
1:x:388:LEU:HD13	1:x:637:LEU:HD13	2.00	0.43
1:y:443:ASN:OD1	1:y:444:THR:N	2.51	0.43
1:1:418:ALA:N	1:1:720:LEU:O	2.41	0.43
1:3:388:LEU:HD13	1:3:637:LEU:HD13	2.00	0.43
1:5:306:ILE:HG22	1:5:309:ILE:HD11	2.00	0.43
1:6:482:ASN:HB3	1:6:483:ARG:H	1.61	0.43
1:8:443:ASN:OD1	1:8:444:THR:N	2.51	0.43
1:C:486:VAL:HB	1:M:441:THR:HG22	2.00	0.43
1:G:306:ILE:HG22	1:G:309:ILE:HD11	2.00	0.43
1:H:380:THR:HG22	1:H:381:GLU:H	1.83	0.43
1:H:388:LEU:HD13	1:H:637:LEU:HD13	2.00	0.43
1:I:306:ILE:HG22	1:I:309:ILE:HD11	2.00	0.43
1:M:443:ASN:OD1	1:M:444:THR:N	2.51	0.43
1:N:633:PRO:HA	1:N:634:PRO:HD3	1.90	0.43
1:R:428:ASN:HB3	1:R:431:VAL:HG22	2.01	0.43
1:T:328:THR:HG21	1:i:310:GLN:HB3	2.01	0.43
1:V:306:ILE:HG22	1:V:309:ILE:HD11	2.00	0.43
1:X:380:THR:HG22	1:X:381:GLU:H	1.83	0.43
1:X:428:ASN:HB3	1:X:431:VAL:HG22	2.01	0.43
1:Y:476:ASN:CB	1:Y:480:GLY:HA3	2.45	0.43
1:Z:505:PRO:HD2	1:3:460:THR:O	2.19	0.43
1:d:306:ILE:HG22	1:d:309:ILE:HD11	2.00	0.43
1:d:428:ASN:HB3	1:d:431:VAL:HG22	2.01	0.43
1:e:356:PHE:HA	1:e:357:PRO:HD3	1.89	0.43
1:h:428:ASN:HB3	1:h:431:VAL:HG22	2.01	0.43
1:h:443:ASN:OD1	1:h:444:THR:N	2.51	0.43
1:j:310:GLN:HB3	1:x:328:THR:HG21	2.01	0.43
1:j:310:GLN:HE22	1:x:643:VAL:HG22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:428:ASN:HB3	1:n:431:VAL:HG22	2.01	0.43
1:p:380:THR:HG22	1:p:381:GLU:H	1.83	0.43
1:s:418:ALA:N	1:s:720:LEU:O	2.41	0.43
1:u:515:LEU:HD23	1:u:561:VAL:HG11	1.99	0.43
1:v:467:GLY:HA3	1:v:596:TRP:HB3	2.01	0.43
1:x:633:PRO:HA	1:x:634:PRO:HD3	1.90	0.43
1:2:306:ILE:HG22	1:2:309:ILE:HD11	2.00	0.43
1:3:495:MET:SD	1:4:466:PRO:HD2	2.59	0.43
1:5:380:THR:HG22	1:5:381:GLU:H	1.83	0.43
1:5:388:LEU:HD13	1:5:637:LEU:HD13	2.00	0.43
1:A:467:GLY:HA3	1:A:596:TRP:HB3	2.01	0.43
1:E:388:LEU:HD13	1:E:637:LEU:HD13	2.00	0.43
1:E:610:LYS:HB2	1:E:632:PRO:HG2	1.99	0.43
1:G:356:PHE:HA	1:G:357:PRO:HD3	1.89	0.43
1:G:610:LYS:HB2	1:G:632:PRO:HG2	1.99	0.43
1:H:306:ILE:HG22	1:H:309:ILE:HD11	2.00	0.43
1:K:380:THR:HG22	1:K:381:GLU:H	1.83	0.43
1:M:428:ASN:HB3	1:M:431:VAL:HG22	2.01	0.43
1:M:486:VAL:HB	1:b:441:THR:HG22	2.00	0.43
1:P:428:ASN:HB3	1:P:431:VAL:HG22	2.01	0.43
1:Q:633:PRO:HA	1:Q:634:PRO:HD3	1.90	0.43
1:S:310:GLN:HB3	1:d:328:THR:HG21	2.01	0.43
1:c:428:ASN:HB3	1:c:431:VAL:HG22	2.01	0.43
1:g:306:ILE:HG22	1:g:309:ILE:HD11	2.00	0.43
1:r:380:THR:HG22	1:r:381:GLU:H	1.83	0.43
1:t:306:ILE:HG22	1:t:309:ILE:HD11	2.00	0.43
1:t:356:PHE:HA	1:t:357:PRO:HD3	1.89	0.43
1:u:306:ILE:HG22	1:u:309:ILE:HD11	2.00	0.43
1:w:425:LYS:NZ	1:x:262:ALA:O	2.37	0.43
1:x:306:ILE:HG22	1:x:309:ILE:HD11	2.00	0.43
1:B:418:ALA:N	1:B:720:LEU:O	2.41	0.42
1:D:505:PRO:HD2	1:P:460:THR:O	2.19	0.42
1:M:328:THR:HG21	1:c:310:GLN:HB3	2.01	0.42
1:V:467:GLY:HA3	1:V:596:TRP:HB3	2.01	0.42
1:Y:388:LEU:HD13	1:Y:637:LEU:HD13	2.00	0.42
1:d:388:LEU:HD13	1:d:637:LEU:HD13	2.00	0.42
1:i:443:ASN:OD1	1:i:444:THR:N	2.51	0.42
1:j:428:ASN:HB3	1:j:431:VAL:HG22	2.01	0.42
1:j:460:THR:O	1:k:505:PRO:HD2	2.19	0.42
1:k:482:ASN:HB3	1:k:483:ARG:H	1.61	0.42
1:m:310:GLN:HB3	1:s:328:THR:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:328:THR:HG21	1:r:310:GLN:HB3	2.01	0.42
1:n:388:LEU:HD13	1:n:637:LEU:HD13	2.00	0.42
1:p:328:THR:HG21	1:6:310:GLN:HB3	2.01	0.42
1:q:428:ASN:HB3	1:q:431:VAL:HG22	2.01	0.42
1:s:467:GLY:HA3	1:s:596:TRP:HB3	2.01	0.42
1:t:610:LYS:HB2	1:t:632:PRO:HG2	1.99	0.42
1:7:388:LEU:HD13	1:7:637:LEU:HD13	2.00	0.42
1:8:428:ASN:HB3	1:8:431:VAL:HG22	2.01	0.42
1:E:428:ASN:HB3	1:E:431:VAL:HG22	2.01	0.42
1:F:467:GLY:HA3	1:F:596:TRP:HB3	2.01	0.42
1:G:441:THR:HG22	1:I:486:VAL:HB	2.00	0.42
1:N:443:ASN:OD1	1:N:444:THR:N	2.51	0.42
1:Q:306:ILE:HG22	1:Q:309:ILE:HD11	2.00	0.42
1:S:441:THR:HG22	1:U:486:VAL:HB	2.00	0.42
1:S:467:GLY:HA3	1:S:596:TRP:HB3	2.01	0.42
1:U:467:GLY:HA3	1:U:596:TRP:HB3	2.01	0.42
1:V:328:THR:HG21	1:W:310:GLN:HB3	2.01	0.42
1:Y:467:GLY:HA3	1:Y:596:TRP:HB3	2.01	0.42
1:Z:328:THR:HG21	1:a:310:GLN:HB3	2.00	0.42
1:c:467:GLY:HA3	1:c:596:TRP:HB3	2.01	0.42
1:e:467:GLY:HA3	1:e:596:TRP:HB3	2.01	0.42
1:p:242:TYR:OH	1:p:363:LEU:O	2.29	0.42
1:p:467:GLY:HA3	1:p:596:TRP:HB3	2.01	0.42
1:r:467:GLY:HA3	1:r:596:TRP:HB3	2.01	0.42
1:w:388:LEU:HD13	1:w:637:LEU:HD13	2.00	0.42
1:w:428:ASN:HB3	1:w:431:VAL:HG22	2.01	0.42
1:w:610:LYS:HB2	1:w:632:PRO:HG2	1.99	0.42
1:y:467:GLY:HA3	1:y:596:TRP:HB3	2.01	0.42
1:z:482:ASN:HB3	1:z:483:ARG:H	1.61	0.42
1:4:380:THR:HG22	1:4:381:GLU:H	1.83	0.42
1:4:476:ASN:CB	1:4:480:GLY:HA3	2.45	0.42
1:B:356:PHE:HA	1:B:357:PRO:HD3	1.89	0.42
1:B:495:MET:SD	1:L:466:PRO:HD2	2.60	0.42
1:E:466:PRO:HD2	1:Q:495:MET:SD	2.60	0.42
1:F:356:PHE:HA	1:F:357:PRO:HD3	1.89	0.42
1:J:388:LEU:HD13	1:J:637:LEU:HD13	2.00	0.42
1:J:441:THR:HG22	1:L:486:VAL:HB	2.00	0.42
1:J:460:THR:O	1:L:505:PRO:HD2	2.20	0.42
1:K:428:ASN:HB3	1:K:431:VAL:HG22	2.01	0.42
1:M:495:MET:SD	1:b:466:PRO:HD2	2.59	0.42
1:R:306:ILE:HG22	1:R:309:ILE:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:633:PRO:HA	1:R:634:PRO:HD3	1.90	0.42
1:T:310:GLN:HB3	1:U:328:THR:HG21	2.01	0.42
1:U:418:ALA:N	1:U:720:LEU:O	2.41	0.42
1:V:428:ASN:HB3	1:V:431:VAL:HG22	2.01	0.42
1:Z:428:ASN:HB3	1:Z:431:VAL:HG22	2.01	0.42
1:Z:633:PRO:HA	1:Z:634:PRO:HD3	1.90	0.42
1:c:242:TYR:OH	1:c:363:LEU:O	2.29	0.42
1:e:310:GLN:HB3	1:h:328:THR:HG21	2.01	0.42
1:f:460:THR:O	1:h:505:PRO:HD2	2.20	0.42
1:g:310:GLN:HB3	1:l:328:THR:HG21	2.01	0.42
1:p:428:ASN:HB3	1:p:431:VAL:HG22	2.01	0.42
1:r:466:PRO:HD2	1:s:495:MET:SD	2.60	0.42
1:t:466:PRO:HD2	1:u:495:MET:SD	2.60	0.42
1:w:441:THR:HG22	1:x:486:VAL:HB	2.00	0.42
1:w:466:PRO:HD2	1:x:495:MET:SD	2.60	0.42
1:z:466:PRO:HD2	1:1:495:MET:SD	2.60	0.42
1:z:505:PRO:HD2	1:2:460:THR:O	2.20	0.42
1:1:466:PRO:HD2	1:2:495:MET:SD	2.60	0.42
1:2:388:LEU:HD13	1:2:637:LEU:HD13	2.00	0.42
1:3:262:ALA:O	1:4:425:LYS:NZ	2.38	0.42
1:4:633:PRO:HA	1:4:634:PRO:HD3	1.90	0.42
1:7:467:GLY:HA3	1:7:596:TRP:HB3	2.01	0.42
1:B:328:THR:HG21	1:C:310:GLN:HB3	2.01	0.42
1:B:466:PRO:HD2	1:J:495:MET:SD	2.60	0.42
1:D:328:THR:HG21	1:E:310:GLN:HB3	2.01	0.42
1:K:476:ASN:CB	1:K:480:GLY:HA3	2.45	0.42
1:L:467:GLY:HA3	1:L:596:TRP:HB3	2.01	0.42
1:L:482:ASN:HB3	1:L:483:ARG:H	1.61	0.42
1:M:505:PRO:HD2	1:b:460:THR:O	2.20	0.42
1:P:388:LEU:HD13	1:P:637:LEU:HD13	2.00	0.42
1:P:633:PRO:HA	1:P:634:PRO:HD3	1.90	0.42
1:R:443:ASN:OD1	1:R:444:THR:N	2.51	0.42
1:S:460:THR:O	1:U:505:PRO:HD2	2.20	0.42
1:S:466:PRO:HD2	1:U:495:MET:SD	2.60	0.42
1:T:466:PRO:HD2	1:d:495:MET:SD	2.60	0.42
1:U:476:ASN:CB	1:U:480:GLY:HA3	2.45	0.42
1:b:678:GLU:OE2	1:b:680:SER:OG	2.22	0.42
1:c:486:VAL:HB	1:p:441:THR:HG22	2.00	0.42
1:d:466:PRO:HD2	1:l:495:MET:SD	2.59	0.42
1:f:466:PRO:HD2	1:h:495:MET:SD	2.59	0.42
1:j:476:ASN:CB	1:j:480:GLY:HA3	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:328:THR:HG21	1:w:310:GLN:HB3	2.01	0.42
1:m:466:PRO:HD2	1:n:495:MET:SD	2.60	0.42
1:o:633:PRO:HA	1:o:634:PRO:HD3	1.90	0.42
1:q:306:ILE:HG22	1:q:309:ILE:HD11	2.00	0.42
1:q:633:PRO:HA	1:q:634:PRO:HD3	1.90	0.42
1:r:441:THR:HG22	1:s:486:VAL:HB	2.00	0.42
1:t:441:THR:HG22	1:u:486:VAL:HB	2.00	0.42
1:t:495:MET:SD	1:v:466:PRO:HD2	2.59	0.42
1:t:505:PRO:HD2	1:v:460:THR:O	2.19	0.42
1:u:380:THR:HG22	1:u:381:GLU:H	1.83	0.42
1:u:441:THR:HG22	1:v:486:VAL:HB	2.00	0.42
1:w:495:MET:SD	1:y:466:PRO:HD2	2.59	0.42
1:z:328:THR:HG21	1:4:310:GLN:HB3	2.01	0.42
1:z:486:VAL:HB	1:2:441:THR:HG22	2.00	0.42
1:3:486:VAL:HB	1:4:441:THR:HG22	2.00	0.42
1:4:428:ASN:HB3	1:4:431:VAL:HG22	2.01	0.42
1:6:460:THR:O	1:7:505:PRO:HD2	2.20	0.42
1:7:482:ASN:HB3	1:7:483:ARG:H	1.61	0.42
1:C:495:MET:SD	1:M:466:PRO:HD2	2.60	0.42
1:C:505:PRO:HD2	1:M:460:THR:O	2.20	0.42
1:E:441:THR:HG22	1:Q:486:VAL:HB	2.00	0.42
1:E:495:MET:SD	1:F:466:PRO:HD2	2.59	0.42
1:F:505:PRO:HD2	1:Q:460:THR:O	2.20	0.42
1:G:388:LEU:HD13	1:G:637:LEU:HD13	2.00	0.42
1:K:310:GLN:HB3	1:L:328:THR:HG21	2.01	0.42
1:Q:467:GLY:HA3	1:Q:596:TRP:HB3	2.01	0.42
1:R:466:PRO:HD2	1:S:495:MET:SD	2.60	0.42
1:T:428:ASN:HB3	1:T:431:VAL:HG22	2.01	0.42
1:W:460:THR:O	1:Y:505:PRO:HD2	2.20	0.42
1:a:460:THR:O	1:8:505:PRO:HD2	2.20	0.42
1:b:306:ILE:HG22	1:b:309:ILE:HD11	2.00	0.42
1:f:306:ILE:HG22	1:f:309:ILE:HD11	2.00	0.42
1:g:495:MET:SD	1:h:466:PRO:HD2	2.60	0.42
1:g:505:PRO:HD2	1:h:460:THR:O	2.20	0.42
1:j:388:LEU:HD13	1:j:637:LEU:HD13	2.00	0.42
1:j:466:PRO:HD2	1:k:495:MET:SD	2.59	0.42
1:m:428:ASN:HB3	1:m:431:VAL:HG22	2.01	0.42
1:q:443:ASN:OD1	1:q:444:THR:N	2.51	0.42
1:q:466:PRO:HD2	1:r:495:MET:SD	2.60	0.42
1:q:495:MET:SD	1:s:466:PRO:HD2	2.59	0.42
1:r:460:THR:O	1:s:505:PRO:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:380:THR:HG22	1:t:381:GLU:H	1.83	0.42
1:t:388:LEU:HD13	1:t:637:LEU:HD13	2.00	0.42
1:x:460:THR:O	1:y:505:PRO:HD2	2.20	0.42
1:z:428:ASN:HB3	1:z:431:VAL:HG22	2.01	0.42
1:z:467:GLY:HA3	1:z:596:TRP:HB3	2.01	0.42
1:A:486:VAL:HB	1:I:441:THR:HG22	2.00	0.42
1:B:467:GLY:HA3	1:B:596:TRP:HB3	2.01	0.42
1:F:495:MET:SD	1:Q:466:PRO:HD2	2.60	0.42
1:G:466:PRO:HD2	1:I:495:MET:SD	2.60	0.42
1:L:428:ASN:HB3	1:L:431:VAL:HG22	2.01	0.42
1:O:495:MET:SD	1:n:466:PRO:HD2	2.59	0.42
1:P:476:ASN:CB	1:P:480:GLY:HA3	2.45	0.42
1:R:495:MET:SD	1:U:466:PRO:HD2	2.60	0.42
1:S:482:ASN:HB3	1:S:483:ARG:H	1.61	0.42
1:T:460:THR:O	1:d:505:PRO:HD2	2.20	0.42
1:V:441:THR:HG22	1:e:486:VAL:HB	2.00	0.42
1:W:428:ASN:HB3	1:W:431:VAL:HG22	2.01	0.42
1:X:328:THR:HG21	1:f:310:GLN:HB3	2.01	0.42
1:b:310:GLN:HB3	1:o:328:THR:HG21	2.01	0.42
1:d:476:ASN:CB	1:d:480:GLY:HA3	2.45	0.42
1:f:242:TYR:OH	1:f:363:LEU:O	2.29	0.42
1:i:476:ASN:CB	1:i:480:GLY:HA3	2.45	0.42
1:i:505:PRO:HD2	1:k:460:THR:O	2.20	0.42
1:m:460:THR:O	1:n:505:PRO:HD2	2.20	0.42
1:o:466:PRO:HD2	1:p:495:MET:SD	2.60	0.42
1:p:310:GLN:HB3	1:q:328:THR:HG21	2.01	0.42
1:r:482:ASN:HB3	1:r:483:ARG:H	1.61	0.42
1:t:328:THR:HG21	1:y:310:GLN:HB3	2.01	0.42
1:w:467:GLY:HA3	1:w:596:TRP:HB3	2.01	0.42
1:x:466:PRO:HD2	1:y:495:MET:SD	2.60	0.42
1:x:467:GLY:HA3	1:x:596:TRP:HB3	2.01	0.42
1:z:476:ASN:CB	1:z:480:GLY:HA3	2.45	0.42
1:1:460:THR:O	1:2:505:PRO:HD2	2.20	0.42
1:2:310:GLN:HB3	1:3:328:THR:HG21	2.01	0.42
1:7:380:THR:HG22	1:7:381:GLU:H	1.83	0.42
1:B:460:THR:O	1:J:505:PRO:HD2	2.20	0.42
1:D:460:THR:O	1:N:505:PRO:HD2	2.20	0.42
1:D:495:MET:SD	1:P:466:PRO:HD2	2.59	0.42
1:E:467:GLY:HA3	1:E:596:TRP:HB3	2.01	0.42
1:H:328:THR:HG21	1:Z:310:GLN:HB3	2.01	0.42
1:H:460:THR:O	1:W:505:PRO:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:380:THR:HG22	1:I:381:GLU:H	1.83	0.42
1:K:466:PRO:HD2	1:a:495:MET:SD	2.60	0.42
1:Q:428:ASN:HB3	1:Q:431:VAL:HG22	2.01	0.42
1:R:328:THR:HG21	1:V:310:GLN:HB3	2.01	0.42
1:U:428:ASN:HB3	1:U:431:VAL:HG22	2.01	0.42
1:V:495:MET:SD	1:X:466:PRO:HD2	2.60	0.42
1:Y:380:THR:HG22	1:Y:381:GLU:H	1.83	0.42
1:a:441:THR:HG22	1:8:486:VAL:H	1.85	0.42
1:a:466:PRO:HD2	1:8:495:MET:SD	2.59	0.42
1:b:242:TYR:OH	1:b:363:LEU:O	2.29	0.42
1:e:242:TYR:OH	1:e:363:LEU:O	2.29	0.42
1:y:356:PHE:HA	1:y:357:PRO:HD3	1.89	0.42
1:y:428:ASN:HB3	1:y:431:VAL:HG22	2.01	0.42
1:1:467:GLY:HA3	1:1:596:TRP:HB3	2.01	0.42
1:5:460:THR:O	1:6:505:PRO:HD2	2.19	0.42
1:5:476:ASN:CB	1:5:480:GLY:HA3	2.45	0.42
1:6:428:ASN:HB3	1:6:431:VAL:HG22	2.01	0.42
1:A:460:THR:O	1:G:505:PRO:HD2	2.20	0.42
1:F:302:LEU:HD13	1:F:671:MET:HG2	2.02	0.42
1:F:428:ASN:HB3	1:F:431:VAL:HG22	2.01	0.42
1:G:380:THR:HG22	1:G:381:GLU:H	1.83	0.42
1:L:310:GLN:HB3	1:b:328:THR:HG21	2.01	0.42
1:L:476:ASN:CB	1:L:480:GLY:HA3	2.45	0.42
1:M:467:GLY:HA3	1:M:596:TRP:HB3	2.01	0.42
1:P:467:GLY:HA3	1:P:596:TRP:HB3	2.01	0.42
1:R:460:THR:O	1:S:505:PRO:HD2	2.20	0.42
1:X:495:MET:SD	1:e:466:PRO:HD2	2.59	0.42
1:Z:349:THR:HB	1:3:431:VAL:HG23	2.02	0.42
1:Z:495:MET:SD	1:3:466:PRO:HD2	2.60	0.42
1:j:633:PRO:HA	1:j:634:PRO:HD3	1.90	0.42
1:q:460:THR:O	1:r:505:PRO:HD2	2.20	0.42
1:s:428:ASN:HB3	1:s:431:VAL:HG22	2.01	0.42
1:t:460:THR:O	1:u:505:PRO:HD2	2.20	0.42
1:v:476:ASN:CB	1:v:480:GLY:HA3	2.45	0.42
1:x:302:LEU:HD13	1:x:671:MET:HG2	2.02	0.42
1:x:428:ASN:HB3	1:x:431:VAL:HG22	2.01	0.42
1:5:328:THR:HG21	1:8:310:GLN:HB3	2.01	0.42
1:C:466:PRO:HD2	1:b:495:MET:SD	2.60	0.42
1:E:505:PRO:HD2	1:F:460:THR:O	2.19	0.42
1:G:310:GLN:HB3	1:W:328:THR:HG21	2.01	0.42
1:H:495:MET:SD	1:Y:466:PRO:HD2	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:466:PRO:HD2	1:L:495:MET:SD	2.59	0.42
1:Q:270:TRP:CE2	1:Q:639:LYS:HD2	2.55	0.42
1:Q:302:LEU:HD13	1:Q:671:MET:HG2	2.02	0.42
1:W:466:PRO:HD2	1:Y:495:MET:SD	2.59	0.42
1:X:633:PRO:HA	1:X:634:PRO:HD3	1.90	0.42
1:a:482:ASN:HB3	1:a:483:ARG:H	1.61	0.42
1:c:466:PRO:HD2	1:o:495:MET:SD	2.59	0.42
1:d:467:GLY:HA3	1:d:596:TRP:HB3	2.01	0.42
1:f:328:THR:HG21	1:z:310:GLN:HB3	2.01	0.42
1:f:678:GLU:OE2	1:f:680:SER:OG	2.22	0.42
1:h:310:GLN:HB3	1:i:328:THR:HG21	2.01	0.42
1:h:467:GLY:HA3	1:h:596:TRP:HB3	2.01	0.42
1:i:466:PRO:HD2	1:j:495:MET:SD	2.60	0.42
1:j:467:GLY:HA3	1:j:596:TRP:HB3	2.01	0.42
1:n:467:GLY:HA3	1:n:596:TRP:HB3	2.01	0.42
1:y:302:LEU:HD13	1:y:671:MET:HG2	2.02	0.42
1:z:495:MET:SD	1:2:466:PRO:HD2	2.59	0.42
1:3:302:LEU:HD13	1:3:671:MET:HG2	2.02	0.42
1:8:633:PRO:HA	1:8:634:PRO:HD3	1.90	0.42
1:A:328:THR:HG21	1:B:310:GLN:HB3	2.01	0.42
1:B:270:TRP:CE2	1:B:639:LYS:HD2	2.55	0.42
1:D:466:PRO:HD2	1:N:495:MET:SD	2.59	0.42
1:G:441:THR:HG22	1:I:486:VAL:H	1.85	0.42
1:I:270:TRP:CE2	1:I:639:LYS:HD2	2.55	0.42
1:N:460:THR:O	1:P:505:PRO:HD2	2.20	0.42
1:N:466:PRO:HD2	1:P:495:MET:SD	2.60	0.42
1:N:476:ASN:CB	1:N:480:GLY:HA3	2.45	0.42
1:P:482:ASN:HB3	1:P:483:ARG:H	1.61	0.42
1:Y:270:TRP:CE2	1:Y:639:LYS:HD2	2.55	0.42
1:Y:482:ASN:HB3	1:Y:483:ARG:H	1.61	0.42
1:Z:302:LEU:HD13	1:Z:671:MET:HG2	2.02	0.42
1:d:441:THR:HG22	1:l:486:VAL:H	1.85	0.42
1:f:495:MET:SD	1:g:466:PRO:HD2	2.60	0.42
1:g:328:THR:HG21	1:k:310:GLN:HB3	2.01	0.42
1:h:482:ASN:HB3	1:h:483:ARG:H	1.61	0.42
1:i:460:THR:O	1:j:505:PRO:HD2	2.20	0.42
1:k:270:TRP:CE2	1:k:639:LYS:HD2	2.55	0.42
1:k:302:LEU:HD13	1:k:671:MET:HG2	2.02	0.42
1:m:247:TYR:OH	1:m:389:GLU:OE1	2.28	0.42
1:n:476:ASN:CB	1:n:480:GLY:HA3	2.45	0.42
1:o:441:THR:HG22	1:p:486:VAL:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:302:LEU:HD13	1:q:671:MET:HG2	2.02	0.42
1:r:428:ASN:HB3	1:r:431:VAL:HG22	2.01	0.42
1:w:505:PRO:HD2	1:y:460:THR:O	2.20	0.42
1:3:349:THR:HB	1:4:431:VAL:HG23	2.02	0.42
1:5:495:MET:SD	1:7:466:PRO:HD2	2.60	0.42
1:6:466:PRO:HD2	1:7:495:MET:SD	2.59	0.42
1:A:476:ASN:CB	1:A:480:GLY:HA3	2.45	0.41
1:B:302:LEU:HD13	1:B:671:MET:HG2	2.02	0.41
1:D:302:LEU:HD13	1:D:671:MET:HG2	2.02	0.41
1:G:270:TRP:CE2	1:G:639:LYS:HD2	2.55	0.41
1:H:431:VAL:HG23	1:W:349:THR:HB	2.02	0.41
1:H:476:ASN:CB	1:H:480:GLY:HA3	2.45	0.41
1:J:310:GLN:HB3	1:a:328:THR:HG21	2.02	0.41
1:K:441:THR:HG22	1:a:486:VAL:H	1.85	0.41
1:O:486:VAL:H	1:n:441:THR:HG22	1.85	0.41
1:R:302:LEU:HD13	1:R:671:MET:HG2	2.02	0.41
1:U:310:GLN:HB3	1:e:328:THR:HG21	2.01	0.41
1:V:486:VAL:H	1:X:441:THR:HG22	1.86	0.41
1:X:310:GLN:HB3	1:Y:328:THR:HG21	2.01	0.41
1:X:486:VAL:H	1:e:441:THR:HG22	1.85	0.41
1:a:302:LEU:HD13	1:a:671:MET:HG2	2.02	0.41
1:a:428:ASN:HB3	1:a:431:VAL:HG22	2.01	0.41
1:b:302:LEU:HD13	1:b:671:MET:HG2	2.02	0.41
1:i:495:MET:SD	1:k:466:PRO:HD2	2.59	0.41
1:k:620:PRO:HD2	2:cA:997:DA:C2'	2.48	0.41
1:t:310:GLN:HB3	1:6:328:THR:HG21	2.01	0.41
1:v:328:THR:HG21	1:1:310:GLN:HB3	2.01	0.41
1:x:270:TRP:CE2	1:x:639:LYS:HD2	2.55	0.41
1:1:270:TRP:CE2	1:1:639:LYS:HD2	2.55	0.41
1:1:356:PHE:HA	1:1:357:PRO:HD3	1.89	0.41
1:3:505:PRO:HD2	1:4:460:THR:O	2.19	0.41
1:5:431:VAL:HG23	1:6:349:THR:HB	2.02	0.41
1:8:302:LEU:HD13	1:8:671:MET:HG2	2.02	0.41
1:A:466:PRO:HD2	1:G:495:MET:SD	2.60	0.41
1:C:328:THR:HG21	1:D:310:GLN:HB3	2.01	0.41
1:D:270:TRP:CE2	1:D:639:LYS:HD2	2.55	0.41
1:D:428:ASN:HB3	1:D:431:VAL:HG22	2.01	0.41
1:E:270:TRP:CE2	1:E:639:LYS:HD2	2.55	0.41
1:F:270:TRP:CE2	1:F:639:LYS:HD2	2.55	0.41
1:H:270:TRP:CE2	1:H:639:LYS:HD2	2.55	0.41
1:H:466:PRO:HD2	1:W:495:MET:SD	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:486:VAL:H	1:8:441:THR:HG22	1.85	0.41
1:L:270:TRP:CE2	1:L:639:LYS:HD2	2.55	0.41
1:M:270:TRP:CE2	1:M:639:LYS:HD2	2.55	0.41
1:M:310:GLN:HB3	1:N:328:THR:HG21	2.01	0.41
1:O:310:GLN:HB3	1:P:328:THR:HG21	2.01	0.41
1:R:505:PRO:HD2	1:U:460:THR:O	2.20	0.41
1:V:505:PRO:HD2	1:X:460:THR:O	2.20	0.41
1:Z:441:THR:HG22	1:4:486:VAL:H	1.85	0.41
1:c:302:LEU:HD13	1:c:671:MET:HG2	2.02	0.41
1:c:328:THR:HG21	1:s:310:GLN:HB3	2.01	0.41
1:c:441:THR:HG22	1:o:486:VAL:H	1.86	0.41
1:d:460:THR:O	1:l:505:PRO:HD2	2.20	0.41
1:f:302:LEU:HD13	1:f:671:MET:HG2	2.02	0.41
1:f:505:PRO:HD2	1:g:460:THR:O	2.20	0.41
1:h:302:LEU:HD13	1:h:671:MET:HG2	2.02	0.41
1:j:482:ASN:HB3	1:j:483:ARG:H	1.61	0.41
1:o:310:GLN:HB3	1:7:328:THR:HG21	2.01	0.41
1:o:460:THR:O	1:p:505:PRO:HD2	2.20	0.41
1:t:270:TRP:CE2	1:t:639:LYS:HD2	2.55	0.41
1:u:270:TRP:CE2	1:u:639:LYS:HD2	2.55	0.41
1:u:302:LEU:HD13	1:u:671:MET:HG2	2.02	0.41
1:u:328:THR:HG21	1:5:310:GLN:HB3	2.01	0.41
1:u:428:ASN:HB3	1:u:431:VAL:HG22	2.01	0.41
1:v:310:GLN:HB3	1:w:328:THR:HG21	2.01	0.41
1:w:356:PHE:HA	1:w:357:PRO:HD3	1.89	0.41
1:y:270:TRP:CE2	1:y:639:LYS:HD2	2.55	0.41
1:z:270:TRP:CE2	1:z:639:LYS:HD2	2.55	0.41
1:1:302:LEU:HD13	1:1:671:MET:HG2	2.02	0.41
1:3:428:ASN:HB3	1:3:431:VAL:HG22	2.01	0.41
1:5:466:PRO:HD2	1:6:495:MET:SD	2.59	0.41
1:7:270:TRP:CE2	1:7:639:LYS:HD2	2.55	0.41
1:8:270:TRP:CE2	1:8:639:LYS:HD2	2.55	0.41
1:A:441:THR:HG22	1:G:486:VAL:H	1.85	0.41
1:A:681:LYS:HG3	1:G:391:PHE:CE1	2.55	0.41
1:C:460:THR:O	1:b:505:PRO:HD2	2.20	0.41
1:H:310:GLN:HB3	1:I:328:THR:HG21	2.01	0.41
1:I:428:ASN:HB3	1:I:431:VAL:HG22	2.01	0.41
1:J:428:ASN:HB3	1:J:431:VAL:HG22	2.01	0.41
1:N:302:LEU:HD13	1:N:671:MET:HG2	2.02	0.41
1:O:391:PHE:CE1	1:n:681:LYS:HG3	2.55	0.41
1:R:356:PHE:CE2	1:R:358:PRO:HG2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:428:ASN:HB3	1:S:431:VAL:HG22	2.01	0.41
1:V:270:TRP:CE2	1:V:639:LYS:HD2	2.55	0.41
1:V:466:PRO:HD2	1:e:495:MET:SD	2.60	0.41
1:Z:270:TRP:CE2	1:Z:639:LYS:HD2	2.55	0.41
1:Z:486:VAL:H	1:3:441:THR:HG22	1.86	0.41
1:a:270:TRP:CE2	1:a:639:LYS:HD2	2.55	0.41
1:c:495:MET:SD	1:p:466:PRO:HD2	2.60	0.41
1:d:681:LYS:HG3	1:l:391:PHE:CE1	2.55	0.41
1:e:302:LEU:HD13	1:e:671:MET:HG2	2.02	0.41
1:h:270:TRP:CE2	1:h:639:LYS:HD2	2.55	0.41
1:i:270:TRP:CE2	1:i:639:LYS:HD2	2.55	0.41
1:i:302:LEU:HD13	1:i:671:MET:HG2	2.02	0.41
1:i:356:PHE:CE2	1:i:358:PRO:HG2	2.56	0.41
1:i:356:PHE:HA	1:i:357:PRO:HD3	1.89	0.41
1:i:441:THR:HG22	1:j:486:VAL:H	1.86	0.41
1:j:328:THR:HG21	1:l:310:GLN:HB3	2.01	0.41
1:j:356:PHE:HA	1:j:357:PRO:HD3	1.89	0.41
1:k:428:ASN:HB3	1:k:431:VAL:HG22	2.01	0.41
1:l:428:ASN:HB3	1:l:431:VAL:HG22	2.01	0.41
1:q:356:PHE:CE2	1:q:358:PRO:HG2	2.56	0.41
1:q:505:PRO:HD2	1:s:460:THR:O	2.20	0.41
1:r:302:LEU:HD13	1:r:671:MET:HG2	2.02	0.41
1:t:428:ASN:HB3	1:t:431:VAL:HG22	2.01	0.41
1:u:460:THR:O	1:v:505:PRO:HD2	2.20	0.41
1:v:302:LEU:HD13	1:v:671:MET:HG2	2.02	0.41
1:w:270:TRP:CE2	1:w:639:LYS:HD2	2.55	0.41
1:x:356:PHE:CE2	1:x:358:PRO:HG2	2.56	0.41
1:3:486:VAL:H	1:4:441:THR:HG22	1.85	0.41
1:5:270:TRP:CE2	1:5:639:LYS:HD2	2.56	0.41
1:A:270:TRP:CE2	1:A:639:LYS:HD2	2.55	0.41
1:A:302:LEU:HD13	1:A:671:MET:HG2	2.02	0.41
1:A:486:VAL:H	1:I:441:THR:HG22	1.86	0.41
1:A:505:PRO:HD2	1:I:460:THR:O	2.20	0.41
1:C:515:LEU:HD21	1:b:498:GLU:HA	2.03	0.41
1:D:515:LEU:HD21	1:N:498:GLU:HA	2.03	0.41
1:H:302:LEU:HD13	1:H:671:MET:HG2	2.02	0.41
1:J:302:LEU:HD13	1:J:671:MET:HG2	2.02	0.41
1:K:270:TRP:CE2	1:K:639:LYS:HD2	2.55	0.41
1:N:270:TRP:CE2	1:N:639:LYS:HD2	2.55	0.41
1:N:356:PHE:CE2	1:N:358:PRO:HG2	2.56	0.41
1:N:441:THR:HG22	1:P:486:VAL:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:428:ASN:HB3	1:O:431:VAL:HG22	2.01	0.41
1:O:460:THR:O	1:m:505:PRO:HD2	2.21	0.41
1:O:505:PRO:HD2	1:n:460:THR:O	2.20	0.41
1:Q:356:PHE:CE2	1:Q:358:PRO:HG2	2.56	0.41
1:R:349:THR:HB	1:U:431:VAL:HG23	2.03	0.41
1:S:270:TRP:CE2	1:S:639:LYS:HD2	2.55	0.41
1:S:302:LEU:HD13	1:S:671:MET:HG2	2.02	0.41
1:S:356:PHE:CE2	1:S:358:PRO:HG2	2.56	0.41
1:T:247:TYR:OH	1:T:389:GLU:OE1	2.28	0.41
1:T:505:PRO:HD2	1:l:460:THR:O	2.21	0.41
1:W:356:PHE:CE2	1:W:358:PRO:HG2	2.56	0.41
1:X:356:PHE:CE2	1:X:358:PRO:HG2	2.56	0.41
1:f:498:GLU:HA	1:g:515:LEU:HD21	2.03	0.41
1:g:644:PRO:HG3	1:k:360:VAL:HG11	2.03	0.41
1:o:356:PHE:CE2	1:o:358:PRO:HG2	2.56	0.41
1:p:270:TRP:CE2	1:p:639:LYS:HD2	2.55	0.41
1:r:270:TRP:CE2	1:r:639:LYS:HD2	2.55	0.41
1:r:356:PHE:CE2	1:r:358:PRO:HG2	2.56	0.41
1:s:270:TRP:CE2	1:s:639:LYS:HD2	2.55	0.41
1:t:620:PRO:HD2	2:mA:997:DA:C2'	2.48	0.41
1:z:356:PHE:CE2	1:z:358:PRO:HG2	2.56	0.41
1:z:441:THR:HG22	1:1:486:VAL:H	1.86	0.41
1:2:428:ASN:HB3	1:2:431:VAL:HG22	2.01	0.41
1:3:270:TRP:CE2	1:3:639:LYS:HD2	2.55	0.41
1:5:302:LEU:HD13	1:5:671:MET:HG2	2.02	0.41
1:6:356:PHE:CE2	1:6:358:PRO:HG2	2.56	0.41
1:7:428:ASN:HB3	1:7:431:VAL:HG22	2.01	0.41
1:A:310:GLN:HB3	1:E:328:THR:HG21	2.01	0.41
1:B:486:VAL:H	1:L:441:THR:HG22	1.86	0.41
1:C:356:PHE:CE2	1:C:358:PRO:HG2	2.56	0.41
1:C:441:THR:HG22	1:b:486:VAL:H	1.86	0.41
1:E:356:PHE:HA	1:E:357:PRO:HD3	1.89	0.41
1:G:360:VAL:HG11	1:W:644:PRO:HG3	2.03	0.41
1:G:428:ASN:HB3	1:G:431:VAL:HG22	2.01	0.41
1:H:482:ASN:HB3	1:H:483:ARG:H	1.61	0.41
1:I:302:LEU:HD13	1:I:671:MET:HG2	2.02	0.41
1:L:356:PHE:CE2	1:L:358:PRO:HG2	2.56	0.41
1:M:302:LEU:HD13	1:M:671:MET:HG2	2.02	0.41
1:M:482:ASN:HB3	1:M:483:ARG:H	1.61	0.41
1:O:466:PRO:HD2	1:m:495:MET:SD	2.61	0.41
1:P:302:LEU:HD13	1:P:671:MET:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:356:PHE:HA	1:P:357:PRO:HD3	1.89	0.41
1:U:270:TRP:CE2	1:U:639:LYS:HD2	2.55	0.41
1:V:302:LEU:HD13	1:V:671:MET:HG2	2.02	0.41
1:V:391:PHE:CE1	1:X:681:LYS:HG3	2.56	0.41
1:V:460:THR:O	1:e:505:PRO:HD2	2.20	0.41
1:X:391:PHE:CE1	1:e:681:LYS:HG3	2.56	0.41
1:Y:428:ASN:HB3	1:Y:431:VAL:HG22	2.01	0.41
1:Z:356:PHE:HA	1:Z:357:PRO:HD3	1.89	0.41
1:a:431:VAL:HG23	1:8:349:THR:HB	2.03	0.41
1:c:505:PRO:HD2	1:p:460:THR:O	2.20	0.41
1:c:681:LYS:HG3	1:o:391:PHE:CE1	2.56	0.41
1:d:515:LEU:HD21	1:l:498:GLU:HA	2.03	0.41
1:e:678:GLU:OE2	1:e:680:SER:OG	2.22	0.41
1:g:302:LEU:HD13	1:g:671:MET:HG2	2.02	0.41
1:k:418:ALA:N	1:k:720:LEU:O	2.41	0.41
1:n:270:TRP:CE2	1:n:639:LYS:HD2	2.55	0.41
1:o:681:LYS:HG3	1:p:391:PHE:CE1	2.56	0.41
1:p:302:LEU:HD13	1:p:671:MET:HG2	2.02	0.41
1:u:441:THR:HG22	1:v:486:VAL:H	1.86	0.41
1:v:270:TRP:CE2	1:v:639:LYS:HD2	2.55	0.41
1:w:441:THR:HG22	1:x:486:VAL:H	1.86	0.41
1:1:356:PHE:CE2	1:1:358:PRO:HG2	2.56	0.41
1:2:302:LEU:HD13	1:2:671:MET:HG2	2.02	0.41
1:3:391:PHE:CE1	1:4:681:LYS:HG3	2.55	0.41
1:3:498:GLU:HA	1:4:515:LEU:HD21	2.02	0.41
1:4:270:TRP:CE2	1:4:639:LYS:HD2	2.55	0.41
1:B:242:TYR:OH	1:B:363:LEU:O	2.29	0.41
1:B:441:THR:HG22	1:J:486:VAL:H	1.86	0.41
1:C:302:LEU:HD13	1:C:671:MET:HG2	2.02	0.41
1:C:644:PRO:HG3	1:D:360:VAL:HG11	2.03	0.41
1:D:498:GLU:HA	1:P:515:LEU:HD21	2.02	0.41
1:O:476:ASN:CB	1:O:480:GLY:HA3	2.45	0.41
1:O:498:GLU:HA	1:n:515:LEU:HD21	2.03	0.41
1:R:441:THR:HG22	1:S:486:VAL:H	1.86	0.41
1:S:356:PHE:HA	1:S:357:PRO:HD3	1.89	0.41
1:S:515:LEU:HD21	1:U:498:GLU:HA	2.03	0.41
1:T:495:MET:SD	1:l:466:PRO:HD2	2.61	0.41
1:V:356:PHE:HA	1:V:357:PRO:HD3	1.89	0.41
1:b:356:PHE:CE2	1:b:358:PRO:HG2	2.56	0.41
1:c:247:TYR:OH	1:c:389:GLU:OE1	2.28	0.41
1:d:270:TRP:CE2	1:d:639:LYS:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:356:PHE:CE2	1:f:358:PRO:HG2	2.56	0.41
1:f:486:VAL:H	1:g:441:THR:HG22	1.86	0.41
1:g:356:PHE:CE2	1:g:358:PRO:HG2	2.56	0.41
1:l:270:TRP:CE2	1:l:639:LYS:HD2	2.55	0.41
1:q:349:THR:HB	1:s:431:VAL:HG23	2.03	0.41
1:q:441:THR:HG22	1:r:486:VAL:H	1.86	0.41
1:r:356:PHE:HA	1:r:357:PRO:HD3	1.89	0.41
1:r:515:LEU:HD21	1:s:498:GLU:HA	2.03	0.41
1:t:498:GLU:HA	1:v:515:LEU:HD21	2.03	0.41
1:2:270:TRP:CE2	1:2:639:LYS:HD2	2.55	0.41
1:3:482:ASN:HB3	1:3:483:ARG:H	1.61	0.41
1:5:505:PRO:HD2	1:7:460:THR:O	2.20	0.41
1:B:356:PHE:CE2	1:B:358:PRO:HG2	2.56	0.41
1:D:441:THR:HG22	1:N:486:VAL:H	1.86	0.41
1:E:441:THR:HG22	1:Q:486:VAL:H	1.86	0.41
1:F:360:VAL:HG11	1:G:644:PRO:HG3	2.02	0.41
1:H:505:PRO:HD2	1:Y:460:THR:O	2.20	0.41
1:J:270:TRP:CE2	1:J:639:LYS:HD2	2.55	0.41
1:J:681:LYS:HG3	1:L:391:PHE:CE1	2.56	0.41
1:K:431:VAL:HG23	1:a:349:THR:HB	2.03	0.41
1:M:356:PHE:CE2	1:M:358:PRO:HG2	2.56	0.41
1:N:356:PHE:HA	1:N:357:PRO:HD3	1.89	0.41
1:O:270:TRP:CE2	1:O:639:LYS:HD2	2.55	0.41
1:X:505:PRO:HD2	1:e:460:THR:O	2.20	0.41
1:e:356:PHE:CE2	1:e:358:PRO:HG2	2.56	0.41
1:h:356:PHE:CE2	1:h:358:PRO:HG2	2.56	0.41
1:i:498:GLU:HA	1:k:515:LEU:HD21	2.03	0.41
1:j:302:LEU:HD13	1:j:671:MET:HG2	2.02	0.41
1:r:242:TYR:OH	1:r:363:LEU:O	2.29	0.41
1:t:360:VAL:HG11	1:6:644:PRO:HG3	2.03	0.41
1:w:460:THR:O	1:x:505:PRO:HD2	2.20	0.41
1:w:681:LYS:HG3	1:x:391:PHE:CE1	2.56	0.41
1:z:302:LEU:HD13	1:z:671:MET:HG2	2.02	0.41
1:z:391:PHE:CE1	1:2:681:LYS:HG3	2.56	0.41
1:z:460:THR:O	1:1:505:PRO:HD2	2.20	0.41
1:1:441:THR:HG22	1:2:486:VAL:H	1.86	0.41
1:3:360:VAL:HG11	1:8:644:PRO:HG3	2.02	0.41
1:A:498:GLU:HA	1:I:515:LEU:HD21	2.03	0.41
1:A:515:LEU:HD21	1:G:498:GLU:HA	2.03	0.41
1:B:431:VAL:HG23	1:J:349:THR:HB	2.03	0.41
1:B:515:LEU:HD21	1:J:498:GLU:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:302:LEU:HD13	1:E:671:MET:HG2	2.02	0.41
1:I:356:PHE:CE2	1:I:358:PRO:HG2	2.56	0.41
1:J:515:LEU:HD21	1:L:498:GLU:HA	2.03	0.41
1:K:302:LEU:HD13	1:K:671:MET:HG2	2.02	0.41
1:K:356:PHE:CE2	1:K:358:PRO:HG2	2.56	0.41
1:K:505:PRO:HD2	1:8:460:THR:O	2.21	0.41
1:L:302:LEU:HD13	1:L:671:MET:HG2	2.02	0.41
1:M:391:PHE:CE1	1:b:681:LYS:HG3	2.56	0.41
1:R:270:TRP:CE2	1:R:639:LYS:HD2	2.55	0.41
1:R:498:GLU:HA	1:U:515:LEU:HD21	2.03	0.41
1:R:644:PRO:HG3	1:V:360:VAL:HG11	2.03	0.41
1:T:645:GLY:O	1:T:647:ILE:HD12	2.21	0.41
1:X:302:LEU:HD13	1:X:671:MET:HG2	2.02	0.41
1:Z:681:LYS:HG3	1:4:391:PHE:CE1	2.56	0.41
1:c:356:PHE:CE2	1:c:358:PRO:HG2	2.56	0.41
1:c:460:THR:O	1:o:505:PRO:HD2	2.20	0.41
1:c:482:ASN:HB3	1:c:483:ARG:H	1.61	0.41
1:e:247:TYR:OH	1:e:389:GLU:OE1	2.28	0.41
1:f:515:LEU:HD21	1:h:498:GLU:HA	2.03	0.41
1:g:270:TRP:CE2	1:g:639:LYS:HD2	2.55	0.41
1:j:515:LEU:HD21	1:k:498:GLU:HA	2.03	0.41
1:l:476:ASN:CB	1:l:480:GLY:HA3	2.45	0.41
1:o:302:LEU:HD13	1:o:671:MET:HG2	2.02	0.41
1:p:360:VAL:HG11	1:q:644:PRO:HG3	2.03	0.41
1:q:310:GLN:HB3	1:y:328:THR:HG21	2.01	0.41
1:s:645:GLY:O	1:s:647:ILE:HD12	2.21	0.41
1:t:515:LEU:HD21	1:u:498:GLU:HA	2.03	0.41
1:u:515:LEU:HD21	1:v:498:GLU:HA	2.03	0.41
1:x:681:LYS:HG3	1:y:391:PHE:CE1	2.56	0.41
1:z:645:GLY:O	1:z:647:ILE:HD12	2.21	0.41
1:6:270:TRP:CE2	1:6:639:LYS:HD2	2.55	0.41
1:A:356:PHE:CE2	1:A:358:PRO:HG2	2.56	0.41
1:A:360:VAL:HG11	1:E:644:PRO:HG3	2.03	0.41
1:A:380:THR:HG22	1:A:381:GLU:H	1.83	0.41
1:A:431:VAL:HG23	1:G:349:THR:HB	2.03	0.41
1:B:391:PHE:CE1	1:L:681:LYS:HG3	2.56	0.41
1:B:505:PRO:HD2	1:L:460:THR:O	2.20	0.41
1:C:270:TRP:CE2	1:C:639:LYS:HD2	2.55	0.41
1:C:486:VAL:H	1:M:441:THR:HG22	1.85	0.41
1:D:356:PHE:HA	1:D:357:PRO:HD3	1.89	0.41
1:D:418:ALA:N	1:D:720:LEU:O	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:460:THR:O	1:Q:505:PRO:HD2	2.20	0.41
1:E:515:LEU:HD21	1:Q:498:GLU:HA	2.03	0.41
1:E:645:GLY:O	1:E:647:ILE:HD12	2.21	0.41
1:E:681:LYS:HG3	1:Q:391:PHE:CE1	2.56	0.41
1:F:328:THR:HG21	1:R:310:GLN:HB3	2.01	0.41
1:F:356:PHE:CE2	1:F:358:PRO:HG2	2.56	0.41
1:F:391:PHE:CE1	1:Q:681:LYS:HG3	2.56	0.41
1:G:460:THR:O	1:I:505:PRO:HD2	2.21	0.41
1:G:515:LEU:HD21	1:I:498:GLU:HA	2.03	0.41
1:H:349:THR:HB	1:Y:431:VAL:HG23	2.03	0.41
1:H:356:PHE:CE2	1:H:358:PRO:HG2	2.56	0.41
1:H:422:ASN:OD1	1:H:423:LEU:N	2.54	0.41
1:J:356:PHE:CE2	1:J:358:PRO:HG2	2.56	0.41
1:J:431:VAL:HG23	1:L:349:THR:HB	2.03	0.41
1:K:356:PHE:HA	1:K:357:PRO:HD3	1.89	0.41
1:K:391:PHE:CE1	1:8:681:LYS:HG3	2.56	0.41
1:K:422:ASN:OD1	1:K:423:LEU:N	2.54	0.41
1:K:645:GLY:O	1:K:647:ILE:HD12	2.21	0.41
1:K:681:LYS:HG3	1:a:391:PHE:CE1	2.56	0.41
1:L:645:GLY:O	1:L:647:ILE:HD12	2.21	0.41
1:M:422:ASN:OD1	1:M:423:LEU:N	2.54	0.41
1:M:498:GLU:HA	1:b:515:LEU:HD21	2.03	0.41
1:N:431:VAL:HG23	1:P:349:THR:HB	2.03	0.41
1:O:422:ASN:OD1	1:O:423:LEU:N	2.54	0.41
1:O:681:LYS:HG3	1:m:391:PHE:CE1	2.56	0.41
1:P:356:PHE:CE2	1:P:358:PRO:HG2	2.56	0.41
1:R:380:THR:HG22	1:R:381:GLU:H	1.83	0.41
1:R:486:VAL:H	1:U:441:THR:HG22	1.86	0.41
1:S:422:ASN:OD1	1:S:423:LEU:N	2.54	0.41
1:S:681:LYS:HG3	1:U:391:PHE:CE1	2.56	0.41
1:T:391:PHE:CE1	1:l:681:LYS:HG3	2.56	0.41
1:T:515:LEU:HD21	1:d:498:GLU:HA	2.03	0.41
1:U:302:LEU:HD13	1:U:671:MET:HG2	2.02	0.41
1:U:422:ASN:OD1	1:U:423:LEU:N	2.54	0.41
1:U:645:GLY:O	1:U:647:ILE:HD12	2.21	0.41
1:V:356:PHE:CE2	1:V:358:PRO:HG2	2.56	0.41
1:V:498:GLU:HA	1:X:515:LEU:HD21	2.03	0.41
1:V:644:PRO:HG3	1:W:360:VAL:HG11	2.03	0.41
1:W:270:TRP:CE2	1:W:639:LYS:HD2	2.55	0.41
1:W:441:THR:HG22	1:Y:486:VAL:H	1.86	0.41
1:W:515:LEU:HD21	1:Y:498:GLU:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:644:PRO:HG3	1:a:360:VAL:HG11	2.03	0.41
1:c:498:GLU:HA	1:p:515:LEU:HD21	2.03	0.41
1:d:302:LEU:HD13	1:d:671:MET:HG2	2.02	0.41
1:d:645:GLY:O	1:d:647:ILE:HD12	2.21	0.41
1:e:645:GLY:O	1:e:647:ILE:HD12	2.21	0.41
1:f:681:LYS:HG3	1:h:391:PHE:CE1	2.56	0.41
1:g:486:VAL:H	1:h:441:THR:HG22	1.85	0.41
1:h:422:ASN:OD1	1:h:423:LEU:N	2.54	0.41
1:i:431:VAL:HG23	1:j:349:THR:HB	2.03	0.41
1:i:486:VAL:H	1:k:441:THR:HG22	1.86	0.41
1:k:644:PRO:HG3	1:w:360:VAL:HG11	2.03	0.41
1:l:422:ASN:OD1	1:l:423:LEU:N	2.54	0.41
1:m:441:THR:HG22	1:n:486:VAL:H	1.85	0.41
1:m:515:LEU:HD21	1:n:498:GLU:HA	2.03	0.41
1:m:645:GLY:O	1:m:647:ILE:HD12	2.21	0.41
1:n:302:LEU:HD13	1:n:671:MET:HG2	2.02	0.41
1:n:645:GLY:O	1:n:647:ILE:HD12	2.21	0.41
1:o:515:LEU:HD21	1:p:498:GLU:HA	2.03	0.41
1:p:356:PHE:HA	1:p:357:PRO:HD3	1.89	0.41
1:p:356:PHE:CE2	1:p:358:PRO:HG2	2.56	0.41
1:p:644:PRO:HG3	1:6:360:VAL:HG11	2.03	0.41
1:q:270:TRP:CE2	1:q:639:LYS:HD2	2.55	0.41
1:q:486:VAL:H	1:s:441:THR:HG22	1.86	0.41
1:r:328:THR:HG21	1:x:310:GLN:HB3	2.01	0.41
1:r:422:ASN:OD1	1:r:423:LEU:N	2.54	0.41
1:r:681:LYS:HG3	1:s:391:PHE:CE1	2.56	0.41
1:s:302:LEU:HD13	1:s:671:MET:HG2	2.02	0.41
1:s:422:ASN:OD1	1:s:423:LEU:N	2.54	0.41
1:t:349:THR:HB	1:v:431:VAL:HG23	2.03	0.41
1:t:391:PHE:CE1	1:v:681:LYS:HG3	2.56	0.41
1:t:441:THR:HG22	1:u:486:VAL:H	1.86	0.41
1:u:356:PHE:CE2	1:u:358:PRO:HG2	2.56	0.41
1:u:431:VAL:HG23	1:v:349:THR:HB	2.03	0.41
1:v:380:THR:HG22	1:v:381:GLU:H	1.83	0.41
1:v:620:PRO:HD2	2:oA:997:DA:C2'	2.48	0.41
1:w:302:LEU:HD13	1:w:671:MET:HG2	2.02	0.41
1:w:486:VAL:H	1:y:441:THR:HG22	1.85	0.41
1:w:645:GLY:O	1:w:647:ILE:HD12	2.21	0.41
1:y:356:PHE:CE2	1:y:358:PRO:HG2	2.56	0.41
1:z:349:THR:HB	1:2:431:VAL:HG23	2.03	0.41
1:z:498:GLU:HA	1:2:515:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:681:LYS:HG3	1:1:391:PHE:CE1	2.56	0.41
1:1:431:VAL:HG23	1:2:349:THR:HB	2.03	0.41
1:1:515:LEU:HD21	1:2:498:GLU:HA	2.03	0.41
1:2:356:PHE:CE2	1:2:358:PRO:HG2	2.56	0.41
1:3:356:PHE:CE2	1:3:358:PRO:HG2	2.56	0.41
1:4:302:LEU:HD13	1:4:671:MET:HG2	2.02	0.41
1:4:356:PHE:CE2	1:4:358:PRO:HG2	2.56	0.41
1:4:422:ASN:OD1	1:4:423:LEU:N	2.54	0.41
1:5:349:THR:HB	1:7:431:VAL:HG23	2.03	0.41
1:5:356:PHE:CE2	1:5:358:PRO:HG2	2.56	0.41
1:5:422:ASN:OD1	1:5:423:LEU:N	2.54	0.41
1:5:482:ASN:HB3	1:5:483:ARG:H	1.61	0.41
1:6:431:VAL:HG23	1:7:349:THR:HB	2.03	0.41
1:6:441:THR:HG22	1:7:486:VAL:H	1.86	0.41
1:6:515:LEU:HD21	1:7:498:GLU:HA	2.03	0.41
1:8:356:PHE:CE2	1:8:358:PRO:HG2	2.56	0.41
1:A:349:THR:HB	1:I:431:VAL:HG23	2.03	0.41
1:A:495:MET:SD	1:I:466:PRO:HD2	2.60	0.41
1:C:422:ASN:OD1	1:C:423:LEU:N	2.54	0.41
1:D:644:PRO:HG3	1:E:360:VAL:HG11	2.03	0.41
1:G:302:LEU:HD13	1:G:671:MET:HG2	2.02	0.41
1:G:356:PHE:CE2	1:G:358:PRO:HG2	2.56	0.41
1:I:360:VAL:HG11	1:J:644:PRO:HG3	2.03	0.41
1:K:460:THR:O	1:a:505:PRO:HD2	2.20	0.41
1:O:349:THR:HB	1:n:431:VAL:HG23	2.03	0.41
1:Q:422:ASN:OD1	1:Q:423:LEU:N	2.54	0.41
1:S:242:TYR:OH	1:S:363:LEU:O	2.29	0.41
1:T:441:THR:HG22	1:d:486:VAL:H	1.85	0.41
1:V:476:ASN:CB	1:V:480:GLY:HA3	2.45	0.41
1:W:431:VAL:HG23	1:Y:349:THR:HB	2.03	0.41
1:X:645:GLY:O	1:X:647:ILE:HD12	2.21	0.41
1:Z:356:PHE:CE2	1:Z:358:PRO:HG2	2.56	0.41
1:Z:422:ASN:OD1	1:Z:423:LEU:N	2.54	0.41
1:Z:460:THR:O	1:4:505:PRO:HD2	2.21	0.41
1:a:356:PHE:CE2	1:a:358:PRO:HG2	2.56	0.41
1:c:270:TRP:CE2	1:c:639:LYS:HD2	2.55	0.41
1:c:645:GLY:O	1:c:647:ILE:HD12	2.21	0.41
1:e:270:TRP:CE2	1:e:639:LYS:HD2	2.55	0.41
1:f:644:PRO:HG3	1:z:360:VAL:HG11	2.03	0.41
1:g:422:ASN:OD1	1:g:423:LEU:N	2.54	0.41
1:j:270:TRP:CE2	1:j:639:LYS:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:356:PHE:CE2	1:j:358:PRO:HG2	2.56	0.41
1:k:356:PHE:HA	1:k:357:PRO:HD3	1.89	0.41
1:n:633:PRO:HA	1:n:634:PRO:HD3	1.90	0.41
1:q:380:THR:HG22	1:q:381:GLU:H	1.83	0.41
1:q:498:GLU:HA	1:s:515:LEU:HD21	2.03	0.41
1:t:486:VAL:H	1:v:441:THR:HG22	1.86	0.41
1:u:466:PRO:HD2	1:v:495:MET:SD	2.60	0.41
1:v:360:VAL:HG11	1:w:644:PRO:HG3	2.03	0.41
1:w:515:LEU:HD21	1:x:498:GLU:HA	2.03	0.41
1:y:476:ASN:CB	1:y:480:GLY:HA3	2.45	0.41
1:4:645:GLY:O	1:4:647:ILE:HD12	2.21	0.41
1:8:356:PHE:HA	1:8:357:PRO:HD3	1.89	0.41
1:8:422:ASN:OD1	1:8:423:LEU:N	2.54	0.41
1:8:645:GLY:O	1:8:647:ILE:HD12	2.21	0.41
1:B:645:GLY:O	1:B:647:ILE:HD12	2.21	0.40
1:E:349:THR:HB	1:F:431:VAL:HG23	2.03	0.40
1:E:486:VAL:H	1:F:441:THR:HG22	1.86	0.40
1:G:645:GLY:O	1:G:647:ILE:HD12	2.21	0.40
1:H:644:PRO:HG3	1:Z:360:VAL:HG11	2.03	0.40
1:L:360:VAL:HG11	1:b:644:PRO:HG3	2.03	0.40
1:L:422:ASN:OD1	1:L:423:LEU:N	2.54	0.40
1:P:270:TRP:CE2	1:P:639:LYS:HD2	2.55	0.40
1:Q:310:GLN:HB3	1:S:328:THR:HG21	2.01	0.40
1:T:422:ASN:OD1	1:T:423:LEU:N	2.54	0.40
1:T:431:VAL:HG23	1:d:349:THR:HB	2.03	0.40
1:T:486:VAL:H	1:l:441:THR:HG22	1.85	0.40
1:V:515:LEU:HD21	1:e:498:GLU:HA	2.03	0.40
1:V:645:GLY:O	1:V:647:ILE:HD12	2.21	0.40
1:X:270:TRP:CE2	1:X:639:LYS:HD2	2.55	0.40
1:Y:302:LEU:HD13	1:Y:671:MET:HG2	2.02	0.40
1:Y:422:ASN:OD1	1:Y:423:LEU:N	2.54	0.40
1:Z:391:PHE:CE1	1:3:681:LYS:HG3	2.56	0.40
1:a:681:LYS:HG3	1:8:391:PHE:CE1	2.55	0.40
1:d:418:ALA:N	1:d:720:LEU:O	2.41	0.40
1:d:431:VAL:HG23	1:l:349:THR:HB	2.03	0.40
1:d:633:PRO:HA	1:d:634:PRO:HD3	1.90	0.40
1:e:482:ASN:HB3	1:e:483:ARG:H	1.61	0.40
1:j:681:LYS:HG3	1:k:391:PHE:CE1	2.56	0.40
1:m:422:ASN:OD1	1:m:423:LEU:N	2.54	0.40
1:n:418:ALA:N	1:n:720:LEU:O	2.41	0.40
1:o:270:TRP:CE2	1:o:639:LYS:HD2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:645:GLY:O	1:o:647:ILE:HD12	2.21	0.40
1:p:476:ASN:CB	1:p:480:GLY:HA3	2.45	0.40
1:p:645:GLY:O	1:p:647:ILE:HD12	2.21	0.40
1:r:644:PRO:HG3	1:x:360:VAL:HG11	2.03	0.40
1:t:356:PHE:CE2	1:t:358:PRO:HG2	2.56	0.40
1:t:431:VAL:HG23	1:u:349:THR:HB	2.03	0.40
1:u:360:VAL:HG11	1:2:644:PRO:HG3	2.03	0.40
1:u:422:ASN:OD1	1:u:423:LEU:N	2.54	0.40
1:v:356:PHE:CE2	1:v:358:PRO:HG2	2.56	0.40
1:z:431:VAL:HG23	1:1:349:THR:HB	2.03	0.40
1:1:645:GLY:O	1:1:647:ILE:HD12	2.21	0.40
1:2:418:ALA:N	1:2:720:LEU:O	2.41	0.40
1:7:302:LEU:HD13	1:7:671:MET:HG2	2.02	0.40
1:7:356:PHE:CE2	1:7:358:PRO:HG2	2.56	0.40
1:7:422:ASN:OD1	1:7:423:LEU:N	2.54	0.40
1:A:391:PHE:CE1	1:I:681:LYS:HG3	2.56	0.40
1:B:422:ASN:OD1	1:B:423:LEU:N	2.54	0.40
1:D:391:PHE:CE1	1:P:681:LYS:HG3	2.56	0.40
1:F:422:ASN:OD1	1:F:423:LEU:N	2.54	0.40
1:F:476:ASN:CB	1:F:480:GLY:HA3	2.45	0.40
1:H:515:LEU:HD21	1:W:498:GLU:HA	2.03	0.40
1:I:310:GLN:HB3	1:J:328:THR:HG21	2.01	0.40
1:I:422:ASN:OD1	1:I:423:LEU:N	2.54	0.40
1:J:645:GLY:O	1:J:647:ILE:HD12	2.21	0.40
1:K:515:LEU:HD21	1:a:498:GLU:HA	2.03	0.40
1:M:633:PRO:HA	1:M:634:PRO:HD3	1.90	0.40
1:M:644:PRO:HG3	1:c:360:VAL:HG11	2.03	0.40
1:N:422:ASN:OD1	1:N:423:LEU:N	2.54	0.40
1:O:302:LEU:HD13	1:O:671:MET:HG2	2.02	0.40
1:O:356:PHE:CE2	1:O:358:PRO:HG2	2.56	0.40
1:P:422:ASN:OD1	1:P:423:LEU:N	2.54	0.40
1:Q:360:VAL:HG11	1:S:644:PRO:HG3	2.03	0.40
1:U:356:PHE:CE2	1:U:358:PRO:HG2	2.56	0.40
1:V:681:LYS:HG3	1:e:391:PHE:CE1	2.56	0.40
1:Y:356:PHE:CE2	1:Y:358:PRO:HG2	2.56	0.40
1:Z:645:GLY:O	1:Z:647:ILE:HD12	2.21	0.40
1:c:486:VAL:H	1:p:441:THR:HG22	1.86	0.40
1:e:620:PRO:HD2	2:WA:997:DA:C2'	2.48	0.40
1:f:441:THR:HG22	1:h:486:VAL:H	1.85	0.40
1:i:422:ASN:OD1	1:i:423:LEU:N	2.54	0.40
1:i:681:LYS:HG3	1:j:391:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:302:LEU:HD13	1:l:671:MET:HG2	2.02	0.40
1:l:356:PHE:CE2	1:l:358:PRO:HG2	2.56	0.40
1:m:431:VAL:HG23	1:n:349:THR:HB	2.03	0.40
1:n:356:PHE:CE2	1:n:358:PRO:HG2	2.56	0.40
1:o:422:ASN:OD1	1:o:423:LEU:N	2.54	0.40
1:t:302:LEU:HD13	1:t:671:MET:HG2	2.02	0.40
1:t:645:GLY:O	1:t:647:ILE:HD12	2.21	0.40
1:u:310:GLN:HB3	1:2:328:THR:HG21	2.01	0.40
1:w:356:PHE:CE2	1:w:358:PRO:HG2	2.56	0.40
1:x:422:ASN:OD1	1:x:423:LEU:N	2.54	0.40
1:x:482:ASN:HB3	1:x:483:ARG:H	1.61	0.40
1:z:356:PHE:HA	1:z:357:PRO:HD3	1.89	0.40
1:z:422:ASN:OD1	1:z:423:LEU:N	2.54	0.40
1:1:422:ASN:OD1	1:1:423:LEU:N	2.54	0.40
1:3:356:PHE:HA	1:3:357:PRO:HD3	1.89	0.40
1:3:547:MET:HE1	1:4:436:TYR:CD1	2.56	0.40
1:4:356:PHE:HA	1:4:357:PRO:HD3	1.89	0.40
1:5:515:LEU:HD21	1:6:498:GLU:HA	2.03	0.40
1:5:644:PRO:HG3	1:8:360:VAL:HG11	2.04	0.40
1:6:302:LEU:HD13	1:6:671:MET:HG2	2.02	0.40
1:6:681:LYS:HG3	1:7:391:PHE:CE1	2.56	0.40
1:B:482:ASN:HB3	1:B:483:ARG:H	1.61	0.40
1:D:422:ASN:OD1	1:D:423:LEU:N	2.54	0.40
1:E:356:PHE:CE2	1:E:358:PRO:HG2	2.56	0.40
1:F:645:GLY:O	1:F:647:ILE:HD12	2.21	0.40
1:H:486:VAL:H	1:Y:441:THR:HG22	1.86	0.40
1:I:645:GLY:O	1:I:647:ILE:HD12	2.21	0.40
1:J:620:PRO:HD2	2:9:997:DA:C2'	2.48	0.40
1:O:441:THR:HG22	1:m:486:VAL:H	1.85	0.40
1:W:422:ASN:OD1	1:W:423:LEU:N	2.54	0.40
1:W:681:LYS:HG3	1:Y:391:PHE:CE1	2.56	0.40
1:X:422:ASN:OD1	1:X:423:LEU:N	2.54	0.40
1:X:498:GLU:HA	1:e:515:LEU:HD21	2.03	0.40
1:Z:547:MET:HE1	1:3:436:TYR:CD1	2.57	0.40
1:a:356:PHE:HA	1:a:357:PRO:HD3	1.89	0.40
1:c:391:PHE:CE1	1:p:681:LYS:HG3	2.56	0.40
1:c:422:ASN:OD1	1:c:423:LEU:N	2.54	0.40
1:j:422:ASN:OD1	1:j:423:LEU:N	2.54	0.40
1:s:356:PHE:CE2	1:s:358:PRO:HG2	2.56	0.40
1:t:644:PRO:HG3	1:y:360:VAL:HG11	2.03	0.40
1:u:645:GLY:O	1:u:647:ILE:HD12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:681:LYS:HG3	1:v:391:PHE:CE1	2.56	0.40
1:w:349:THR:HB	1:y:431:VAL:HG23	2.03	0.40
1:w:431:VAL:HG23	1:x:349:THR:HB	2.03	0.40
1:y:422:ASN:OD1	1:y:423:LEU:N	2.54	0.40
1:1:515:LEU:HD22	1:1:556:GLN:OE1	2.22	0.40
1:2:360:VAL:HG11	1:3:644:PRO:HG3	2.03	0.40
1:2:645:GLY:O	1:2:647:ILE:HD12	2.21	0.40
1:A:515:LEU:HD22	1:A:556:GLN:OE1	2.22	0.40
1:A:645:GLY:O	1:A:647:ILE:HD12	2.21	0.40
1:C:498:GLU:HA	1:M:515:LEU:HD21	2.03	0.40
1:E:431:VAL:HG23	1:Q:349:THR:HB	2.03	0.40
1:F:486:VAL:H	1:Q:441:THR:HG22	1.86	0.40
1:F:498:GLU:HA	1:Q:515:LEU:HD21	2.03	0.40
1:J:441:THR:HG22	1:L:486:VAL:H	1.86	0.40
1:M:486:VAL:H	1:b:441:THR:HG22	1.85	0.40
1:R:391:PHE:CE1	1:U:681:LYS:HG3	2.56	0.40
1:R:425:LYS:NZ	1:S:262:ALA:O	2.37	0.40
1:R:681:LYS:HG3	1:S:391:PHE:CE1	2.56	0.40
1:T:270:TRP:CE2	1:T:639:LYS:HD2	2.55	0.40
1:T:356:PHE:CE2	1:T:358:PRO:HG2	2.56	0.40
1:V:441:THR:HG22	1:e:486:VAL:H	1.86	0.40
1:W:302:LEU:HD13	1:W:671:MET:HG2	2.02	0.40
1:Z:431:VAL:HG23	1:4:349:THR:HB	2.04	0.40
1:a:436:TYR:CD1	1:8:547:MET:HE1	2.57	0.40
1:c:410:GLU:OE2	2:TA:996:DA:N6	2.53	0.40
1:c:515:LEU:HD21	1:o:498:GLU:HA	2.03	0.40
1:d:356:PHE:CE2	1:d:358:PRO:HG2	2.56	0.40
1:e:360:VAL:HG11	1:h:644:PRO:HG3	2.03	0.40
1:e:422:ASN:OD1	1:e:423:LEU:N	2.54	0.40
1:g:360:VAL:HG11	1:1:644:PRO:HG3	2.03	0.40
1:i:410:GLU:OE2	2:aA:996:DA:N6	2.53	0.40
1:m:270:TRP:CE2	1:m:639:LYS:HD2	2.55	0.40
1:m:681:LYS:HG3	1:n:391:PHE:CE1	2.56	0.40
1:p:422:ASN:OD1	1:p:423:LEU:N	2.54	0.40
1:q:391:PHE:CE1	1:s:681:LYS:HG3	2.56	0.40
1:t:422:ASN:OD1	1:t:423:LEU:N	2.54	0.40
1:w:391:PHE:CE1	1:y:681:LYS:HG3	2.56	0.40
1:x:441:THR:HG22	1:y:486:VAL:H	1.86	0.40
1:x:515:LEU:HD21	1:y:498:GLU:HA	2.03	0.40
1:y:645:GLY:O	1:y:647:ILE:HD12	2.21	0.40
1:z:425:LYS:NZ	1:1:262:ALA:O	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:436:TYR:CD1	1:1:547:MET:HE1	2.57	0.40
1:5:645:GLY:O	1:5:647:ILE:HD12	2.21	0.40
1:6:436:TYR:CD1	1:7:547:MET:HE1	2.57	0.40
1:B:349:THR:HB	1:L:431:VAL:HG23	2.03	0.40
1:B:515:LEU:HD22	1:B:556:GLN:OE1	2.22	0.40
1:B:547:MET:HE1	1:L:436:TYR:CD1	2.57	0.40
1:B:644:PRO:HG3	1:C:360:VAL:HG11	2.03	0.40
1:E:391:PHE:CE1	1:F:681:LYS:HG3	2.56	0.40
1:G:422:ASN:OD1	1:G:423:LEU:N	2.54	0.40
1:H:416:SER:HB2	1:H:717:THR:HB	2.04	0.40
1:H:645:GLY:O	1:H:647:ILE:HD12	2.21	0.40
1:K:349:THR:HB	1:8:431:VAL:HG23	2.04	0.40
1:N:360:VAL:HG11	1:m:644:PRO:HG3	2.03	0.40
1:N:410:GLU:OE2	2:DA:996:DA:N6	2.53	0.40
1:O:360:VAL:HG11	1:P:644:PRO:HG3	2.03	0.40
1:S:410:GLU:OE2	2:IA:996:DA:N6	2.53	0.40
1:T:681:LYS:HG3	1:d:391:PHE:CE1	2.56	0.40
1:U:356:PHE:HA	1:U:357:PRO:HD3	1.89	0.40
1:V:422:ASN:OD1	1:V:423:LEU:N	2.54	0.40
1:W:436:TYR:CD1	1:Y:547:MET:HE1	2.57	0.40
1:Z:498:GLU:HA	1:3:515:LEU:HD21	2.03	0.40
1:a:515:LEU:HD21	1:8:498:GLU:HA	2.03	0.40
1:d:410:GLU:OE2	2:VA:996:DA:N6	2.53	0.40
1:e:410:GLU:OE2	2:WA:996:DA:N6	2.53	0.40
1:g:498:GLU:HA	1:h:515:LEU:HD21	2.03	0.40
1:h:645:GLY:O	1:h:647:ILE:HD12	2.21	0.40
1:k:356:PHE:CE2	1:k:358:PRO:HG2	2.56	0.40
1:k:422:ASN:OD1	1:k:423:LEU:N	2.54	0.40
1:m:356:PHE:CE2	1:m:358:PRO:HG2	2.56	0.40
1:q:515:LEU:HD21	1:r:498:GLU:HA	2.03	0.40
1:q:678:GLU:OE2	1:q:680:SER:OG	2.22	0.40
1:q:681:LYS:HG3	1:r:391:PHE:CE1	2.56	0.40
1:r:410:GLU:OE2	2:kA:996:DA:N6	2.53	0.40
1:v:515:LEU:HD22	1:v:556:GLN:OE1	2.22	0.40
1:v:644:PRO:HG3	1:1:360:VAL:HG11	2.03	0.40
1:v:645:GLY:O	1:v:647:ILE:HD12	2.21	0.40
1:y:416:SER:HB2	1:y:717:THR:HB	2.04	0.40
1:y:515:LEU:HD22	1:y:556:GLN:OE1	2.22	0.40
1:2:620:PRO:HD2	2:vA:997:DA:C2'	2.48	0.40
1:5:416:SER:HB2	1:5:717:THR:HB	2.04	0.40
1:5:486:VAL:H	1:7:441:THR:HG22	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:422:ASN:OD1	1:6:423:LEU:N	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	2	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	3	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	4	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	5	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	6	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	7	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	8	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	A	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	B	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	C	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	D	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	E	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	F	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	G	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	H	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	I	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	J	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	K	516/724 (71%)	503 (98%)	13 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	L	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	M	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	N	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	O	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	P	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	Q	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	R	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	S	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	T	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	U	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	V	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	W	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	X	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	Y	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	Z	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	a	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	b	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	c	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	d	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	e	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	f	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	g	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	h	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	i	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	j	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	k	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	l	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	m	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	n	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	o	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	p	516/724 (71%)	503 (98%)	13 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	q	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	r	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	s	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	t	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	u	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	v	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	w	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	x	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	y	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
1	z	516/724 (71%)	503 (98%)	13 (2%)	0	100	100
All	All	30960/43440 (71%)	30180 (98%)	780 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	2	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	3	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	4	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	5	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	6	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	7	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	8	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	A	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	B	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	C	451/613 (74%)	450 (100%)	1 (0%)	87	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	E	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	F	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	G	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	H	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	I	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	J	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	K	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	L	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	M	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	N	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	O	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	P	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	Q	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	R	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	S	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	T	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	U	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	V	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	W	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	X	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	Y	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	Z	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	a	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	b	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	c	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	d	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	e	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	f	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	g	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	h	451/613 (74%)	450 (100%)	1 (0%)	87	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	i	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	j	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	k	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	l	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	m	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	n	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	o	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	p	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	q	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	r	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	s	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	t	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	u	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	v	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	w	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	x	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	y	451/613 (74%)	450 (100%)	1 (0%)	87	87
1	z	451/613 (74%)	450 (100%)	1 (0%)	87	87
All	All	27060/36780 (74%)	27000 (100%)	60 (0%)	85	87

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

Mol	Chain	Res	Type
1	A	523	LEU
1	B	523	LEU
1	C	523	LEU
1	D	523	LEU
1	E	523	LEU
1	F	523	LEU
1	G	523	LEU
1	H	523	LEU
1	I	523	LEU
1	J	523	LEU
1	K	523	LEU
1	L	523	LEU
1	M	523	LEU

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Mol	Chain	Res	Type
1	N	523	LEU
1	O	523	LEU
1	P	523	LEU
1	Q	523	LEU
1	R	523	LEU
1	S	523	LEU
1	T	523	LEU
1	U	523	LEU
1	V	523	LEU
1	W	523	LEU
1	X	523	LEU
1	Y	523	LEU
1	Z	523	LEU
1	a	523	LEU
1	b	523	LEU
1	c	523	LEU
1	d	523	LEU
1	e	523	LEU
1	f	523	LEU
1	g	523	LEU
1	h	523	LEU
1	i	523	LEU
1	j	523	LEU
1	k	523	LEU
1	l	523	LEU
1	m	523	LEU
1	n	523	LEU
1	o	523	LEU
1	p	523	LEU
1	q	523	LEU
1	r	523	LEU
1	s	523	LEU
1	t	523	LEU
1	u	523	LEU
1	v	523	LEU
1	w	523	LEU
1	x	523	LEU
1	y	523	LEU
1	z	523	LEU
1	1	523	LEU
1	2	523	LEU
1	3	523	LEU

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Mol	Chain	Res	Type
1	4	523	LEU
1	5	523	LEU
1	6	523	LEU
1	7	523	LEU
1	8	523	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (802) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	245	HIS
1	A	261	ASN
1	A	308	ASN
1	A	326	ASN
1	A	332	GLN
1	A	340	GLN
1	A	459	ASN
1	A	463	ASN
1	A	476	ASN
1	A	503	GLN
1	A	509	ASN
1	A	525	ASN
1	A	573	ASN
1	A	631	HIS
1	B	219	HIS
1	B	245	HIS
1	B	261	ASN
1	B	326	ASN
1	B	332	GLN
1	B	459	ASN
1	B	463	ASN
1	B	476	ASN
1	B	503	GLN
1	B	509	ASN
1	B	525	ASN
1	B	535	ASN
1	B	546	ASN
1	B	617	HIS
1	B	631	HIS
1	C	219	HIS
1	C	245	HIS
1	C	261	ASN
1	C	308	ASN

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Mol	Chain	Res	Type
1	C	326	ASN
1	C	332	GLN
1	C	463	ASN
1	C	476	ASN
1	C	509	ASN
1	C	525	ASN
1	C	535	ASN
1	C	546	ASN
1	C	631	HIS
1	D	245	HIS
1	D	261	ASN
1	D	326	ASN
1	D	332	GLN
1	D	463	ASN
1	D	476	ASN
1	D	503	GLN
1	D	509	ASN
1	D	525	ASN
1	D	535	ASN
1	D	573	ASN
1	D	631	HIS
1	E	219	HIS
1	E	245	HIS
1	E	261	ASN
1	E	326	ASN
1	E	332	GLN
1	E	463	ASN
1	E	476	ASN
1	E	509	ASN
1	E	525	ASN
1	E	535	ASN
1	E	573	ASN
1	E	617	HIS
1	E	631	HIS
1	F	245	HIS
1	F	261	ASN
1	F	326	ASN
1	F	332	GLN
1	F	463	ASN
1	F	476	ASN
1	F	503	GLN
1	F	509	ASN

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Mol	Chain	Res	Type
1	F	525	ASN
1	F	535	ASN
1	F	573	ASN
1	F	631	HIS
1	G	219	HIS
1	G	245	HIS
1	G	261	ASN
1	G	308	ASN
1	G	326	ASN
1	G	332	GLN
1	G	459	ASN
1	G	463	ASN
1	G	476	ASN
1	G	503	GLN
1	G	509	ASN
1	G	525	ASN
1	G	535	ASN
1	G	573	ASN
1	G	574	GLN
1	G	631	HIS
1	H	219	HIS
1	H	245	HIS
1	H	261	ASN
1	H	326	ASN
1	H	332	GLN
1	H	463	ASN
1	H	476	ASN
1	H	509	ASN
1	H	525	ASN
1	H	535	ASN
1	H	573	ASN
1	H	631	HIS
1	I	219	HIS
1	I	245	HIS
1	I	261	ASN
1	I	308	ASN
1	I	326	ASN
1	I	332	GLN
1	I	459	ASN
1	I	463	ASN
1	I	476	ASN
1	I	503	GLN

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Mol	Chain	Res	Type
1	I	509	ASN
1	I	525	ASN
1	I	535	ASN
1	I	573	ASN
1	I	617	HIS
1	I	631	HIS
1	J	219	HIS
1	J	245	HIS
1	J	261	ASN
1	J	308	ASN
1	J	326	ASN
1	J	332	GLN
1	J	463	ASN
1	J	476	ASN
1	J	503	GLN
1	J	509	ASN
1	J	525	ASN
1	J	535	ASN
1	J	573	ASN
1	J	631	HIS
1	K	219	HIS
1	K	245	HIS
1	K	261	ASN
1	K	308	ASN
1	K	326	ASN
1	K	332	GLN
1	K	463	ASN
1	K	476	ASN
1	K	509	ASN
1	K	525	ASN
1	K	573	ASN
1	K	617	HIS
1	K	631	HIS
1	L	219	HIS
1	L	245	HIS
1	L	261	ASN
1	L	308	ASN
1	L	326	ASN
1	L	332	GLN
1	L	459	ASN
1	L	463	ASN
1	L	476	ASN

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Mol	Chain	Res	Type
1	L	509	ASN
1	L	525	ASN
1	L	535	ASN
1	L	573	ASN
1	L	574	GLN
1	L	617	HIS
1	L	631	HIS
1	M	219	HIS
1	M	245	HIS
1	M	261	ASN
1	M	326	ASN
1	M	332	GLN
1	M	463	ASN
1	M	476	ASN
1	M	503	GLN
1	M	509	ASN
1	M	525	ASN
1	M	535	ASN
1	M	574	GLN
1	M	617	HIS
1	M	631	HIS
1	N	219	HIS
1	N	245	HIS
1	N	261	ASN
1	N	326	ASN
1	N	332	GLN
1	N	340	GLN
1	N	463	ASN
1	N	476	ASN
1	N	509	ASN
1	N	525	ASN
1	N	546	ASN
1	N	573	ASN
1	N	631	HIS
1	O	219	HIS
1	O	245	HIS
1	O	261	ASN
1	O	326	ASN
1	O	332	GLN
1	O	459	ASN
1	O	463	ASN
1	O	476	ASN

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Mol	Chain	Res	Type
1	O	509	ASN
1	O	525	ASN
1	O	535	ASN
1	O	573	ASN
1	O	617	HIS
1	O	631	HIS
1	P	245	HIS
1	P	261	ASN
1	P	326	ASN
1	P	332	GLN
1	P	459	ASN
1	P	463	ASN
1	P	476	ASN
1	P	509	ASN
1	P	525	ASN
1	P	535	ASN
1	P	617	HIS
1	P	631	HIS
1	Q	219	HIS
1	Q	245	HIS
1	Q	261	ASN
1	Q	308	ASN
1	Q	326	ASN
1	Q	332	GLN
1	Q	459	ASN
1	Q	463	ASN
1	Q	476	ASN
1	Q	509	ASN
1	Q	525	ASN
1	Q	535	ASN
1	Q	573	ASN
1	Q	631	HIS
1	R	245	HIS
1	R	261	ASN
1	R	326	ASN
1	R	332	GLN
1	R	463	ASN
1	R	476	ASN
1	R	509	ASN
1	R	525	ASN
1	R	535	ASN
1	R	573	ASN

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Mol	Chain	Res	Type
1	R	574	GLN
1	R	631	HIS
1	S	245	HIS
1	S	261	ASN
1	S	326	ASN
1	S	332	GLN
1	S	463	ASN
1	S	476	ASN
1	S	509	ASN
1	S	525	ASN
1	S	573	ASN
1	S	617	HIS
1	S	631	HIS
1	T	219	HIS
1	T	245	HIS
1	T	261	ASN
1	T	326	ASN
1	T	332	GLN
1	T	463	ASN
1	T	476	ASN
1	T	503	GLN
1	T	509	ASN
1	T	525	ASN
1	T	535	ASN
1	T	573	ASN
1	T	631	HIS
1	U	219	HIS
1	U	245	HIS
1	U	261	ASN
1	U	326	ASN
1	U	332	GLN
1	U	463	ASN
1	U	476	ASN
1	U	509	ASN
1	U	525	ASN
1	U	535	ASN
1	U	617	HIS
1	U	631	HIS
1	V	219	HIS
1	V	245	HIS
1	V	261	ASN
1	V	326	ASN

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Mol	Chain	Res	Type
1	V	332	GLN
1	V	463	ASN
1	V	476	ASN
1	V	509	ASN
1	V	525	ASN
1	V	535	ASN
1	V	573	ASN
1	V	574	GLN
1	V	631	HIS
1	W	219	HIS
1	W	245	HIS
1	W	261	ASN
1	W	326	ASN
1	W	332	GLN
1	W	459	ASN
1	W	463	ASN
1	W	476	ASN
1	W	509	ASN
1	W	525	ASN
1	W	535	ASN
1	W	546	ASN
1	W	573	ASN
1	W	617	HIS
1	W	631	HIS
1	X	245	HIS
1	X	261	ASN
1	X	326	ASN
1	X	332	GLN
1	X	340	GLN
1	X	463	ASN
1	X	476	ASN
1	X	509	ASN
1	X	525	ASN
1	X	535	ASN
1	X	573	ASN
1	X	617	HIS
1	X	631	HIS
1	Y	219	HIS
1	Y	245	HIS
1	Y	261	ASN
1	Y	326	ASN
1	Y	332	GLN

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Mol	Chain	Res	Type
1	Y	463	ASN
1	Y	476	ASN
1	Y	503	GLN
1	Y	509	ASN
1	Y	525	ASN
1	Y	617	HIS
1	Y	631	HIS
1	Z	219	HIS
1	Z	245	HIS
1	Z	261	ASN
1	Z	326	ASN
1	Z	332	GLN
1	Z	459	ASN
1	Z	463	ASN
1	Z	476	ASN
1	Z	509	ASN
1	Z	525	ASN
1	Z	535	ASN
1	Z	573	ASN
1	Z	574	GLN
1	Z	617	HIS
1	Z	631	HIS
1	a	245	HIS
1	a	261	ASN
1	a	326	ASN
1	a	332	GLN
1	a	463	ASN
1	a	476	ASN
1	a	509	ASN
1	a	525	ASN
1	a	546	ASN
1	a	573	ASN
1	a	574	GLN
1	a	617	HIS
1	a	631	HIS
1	b	219	HIS
1	b	245	HIS
1	b	261	ASN
1	b	326	ASN
1	b	332	GLN
1	b	459	ASN
1	b	463	ASN

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Mol	Chain	Res	Type
1	b	476	ASN
1	b	509	ASN
1	b	525	ASN
1	b	535	ASN
1	b	573	ASN
1	b	631	HIS
1	c	219	HIS
1	c	245	HIS
1	c	261	ASN
1	c	326	ASN
1	c	332	GLN
1	c	463	ASN
1	c	476	ASN
1	c	509	ASN
1	c	525	ASN
1	c	535	ASN
1	c	573	ASN
1	c	631	HIS
1	d	245	HIS
1	d	261	ASN
1	d	326	ASN
1	d	332	GLN
1	d	463	ASN
1	d	476	ASN
1	d	509	ASN
1	d	525	ASN
1	d	535	ASN
1	d	573	ASN
1	d	631	HIS
1	e	219	HIS
1	e	245	HIS
1	e	261	ASN
1	e	326	ASN
1	e	332	GLN
1	e	463	ASN
1	e	476	ASN
1	e	509	ASN
1	e	525	ASN
1	e	535	ASN
1	e	573	ASN
1	e	631	HIS
1	f	219	HIS

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Mol	Chain	Res	Type
1	f	245	HIS
1	f	261	ASN
1	f	308	ASN
1	f	326	ASN
1	f	332	GLN
1	f	459	ASN
1	f	463	ASN
1	f	476	ASN
1	f	509	ASN
1	f	525	ASN
1	f	535	ASN
1	f	573	ASN
1	f	631	HIS
1	g	219	HIS
1	g	245	HIS
1	g	261	ASN
1	g	326	ASN
1	g	332	GLN
1	g	463	ASN
1	g	476	ASN
1	g	509	ASN
1	g	525	ASN
1	g	535	ASN
1	g	546	ASN
1	g	573	ASN
1	g	617	HIS
1	g	631	HIS
1	h	219	HIS
1	h	245	HIS
1	h	261	ASN
1	h	326	ASN
1	h	332	GLN
1	h	463	ASN
1	h	476	ASN
1	h	503	GLN
1	h	509	ASN
1	h	525	ASN
1	h	535	ASN
1	h	546	ASN
1	h	574	GLN
1	h	617	HIS
1	h	631	HIS

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Mol	Chain	Res	Type
1	i	219	HIS
1	i	245	HIS
1	i	261	ASN
1	i	326	ASN
1	i	332	GLN
1	i	459	ASN
1	i	463	ASN
1	i	476	ASN
1	i	503	GLN
1	i	509	ASN
1	i	525	ASN
1	i	546	ASN
1	i	573	ASN
1	i	631	HIS
1	j	245	HIS
1	j	261	ASN
1	j	326	ASN
1	j	332	GLN
1	j	463	ASN
1	j	476	ASN
1	j	503	GLN
1	j	509	ASN
1	j	525	ASN
1	j	535	ASN
1	j	617	HIS
1	j	631	HIS
1	k	245	HIS
1	k	261	ASN
1	k	326	ASN
1	k	332	GLN
1	k	459	ASN
1	k	463	ASN
1	k	476	ASN
1	k	509	ASN
1	k	525	ASN
1	k	535	ASN
1	k	573	ASN
1	k	631	HIS
1	l	219	HIS
1	l	245	HIS
1	l	261	ASN
1	l	326	ASN

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Mol	Chain	Res	Type
1	l	332	GLN
1	l	459	ASN
1	l	463	ASN
1	l	476	ASN
1	l	509	ASN
1	l	525	ASN
1	l	535	ASN
1	l	573	ASN
1	l	617	HIS
1	l	631	HIS
1	m	219	HIS
1	m	245	HIS
1	m	261	ASN
1	m	326	ASN
1	m	332	GLN
1	m	463	ASN
1	m	476	ASN
1	m	503	GLN
1	m	509	ASN
1	m	525	ASN
1	m	535	ASN
1	m	573	ASN
1	m	631	HIS
1	n	219	HIS
1	n	245	HIS
1	n	261	ASN
1	n	326	ASN
1	n	332	GLN
1	n	463	ASN
1	n	476	ASN
1	n	509	ASN
1	n	525	ASN
1	n	535	ASN
1	n	573	ASN
1	n	631	HIS
1	o	245	HIS
1	o	261	ASN
1	o	326	ASN
1	o	332	GLN
1	o	340	GLN
1	o	459	ASN
1	o	463	ASN

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Mol	Chain	Res	Type
1	o	476	ASN
1	o	509	ASN
1	o	525	ASN
1	o	535	ASN
1	o	573	ASN
1	o	617	HIS
1	o	631	HIS
1	p	219	HIS
1	p	245	HIS
1	p	261	ASN
1	p	326	ASN
1	p	332	GLN
1	p	463	ASN
1	p	476	ASN
1	p	503	GLN
1	p	509	ASN
1	p	525	ASN
1	p	535	ASN
1	p	573	ASN
1	p	631	HIS
1	q	245	HIS
1	q	261	ASN
1	q	326	ASN
1	q	332	GLN
1	q	463	ASN
1	q	476	ASN
1	q	509	ASN
1	q	525	ASN
1	q	535	ASN
1	q	573	ASN
1	q	574	GLN
1	q	631	HIS
1	r	219	HIS
1	r	245	HIS
1	r	261	ASN
1	r	326	ASN
1	r	332	GLN
1	r	463	ASN
1	r	476	ASN
1	r	509	ASN
1	r	525	ASN
1	r	535	ASN

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Mol	Chain	Res	Type
1	r	573	ASN
1	r	617	HIS
1	r	631	HIS
1	s	219	HIS
1	s	245	HIS
1	s	261	ASN
1	s	326	ASN
1	s	332	GLN
1	s	463	ASN
1	s	476	ASN
1	s	509	ASN
1	s	525	ASN
1	s	617	HIS
1	s	631	HIS
1	t	219	HIS
1	t	245	HIS
1	t	261	ASN
1	t	308	ASN
1	t	326	ASN
1	t	332	GLN
1	t	459	ASN
1	t	463	ASN
1	t	476	ASN
1	t	503	GLN
1	t	509	ASN
1	t	525	ASN
1	t	535	ASN
1	t	573	ASN
1	t	574	GLN
1	t	631	HIS
1	u	219	HIS
1	u	245	HIS
1	u	261	ASN
1	u	326	ASN
1	u	332	GLN
1	u	459	ASN
1	u	463	ASN
1	u	476	ASN
1	u	503	GLN
1	u	509	ASN
1	u	525	ASN
1	u	535	ASN

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Mol	Chain	Res	Type
1	u	573	ASN
1	u	631	HIS
1	v	219	HIS
1	v	245	HIS
1	v	261	ASN
1	v	308	ASN
1	v	326	ASN
1	v	332	GLN
1	v	340	GLN
1	v	459	ASN
1	v	463	ASN
1	v	476	ASN
1	v	503	GLN
1	v	509	ASN
1	v	525	ASN
1	v	573	ASN
1	v	631	HIS
1	w	219	HIS
1	w	245	HIS
1	w	261	ASN
1	w	308	ASN
1	w	326	ASN
1	w	332	GLN
1	w	463	ASN
1	w	476	ASN
1	w	509	ASN
1	w	525	ASN
1	w	535	ASN
1	w	573	ASN
1	w	617	HIS
1	w	631	HIS
1	x	219	HIS
1	x	245	HIS
1	x	261	ASN
1	x	308	ASN
1	x	326	ASN
1	x	332	GLN
1	x	459	ASN
1	x	463	ASN
1	x	476	ASN
1	x	509	ASN
1	x	525	ASN

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Mol	Chain	Res	Type
1	x	535	ASN
1	x	631	HIS
1	y	245	HIS
1	y	261	ASN
1	y	326	ASN
1	y	332	GLN
1	y	463	ASN
1	y	476	ASN
1	y	503	GLN
1	y	509	ASN
1	y	525	ASN
1	y	573	ASN
1	y	631	HIS
1	z	219	HIS
1	z	245	HIS
1	z	261	ASN
1	z	308	ASN
1	z	326	ASN
1	z	332	GLN
1	z	463	ASN
1	z	476	ASN
1	z	509	ASN
1	z	525	ASN
1	z	535	ASN
1	z	573	ASN
1	z	574	GLN
1	z	617	HIS
1	z	631	HIS
1	1	219	HIS
1	1	245	HIS
1	1	261	ASN
1	1	308	ASN
1	1	326	ASN
1	1	332	GLN
1	1	459	ASN
1	1	463	ASN
1	1	476	ASN
1	1	509	ASN
1	1	525	ASN
1	1	535	ASN
1	1	546	ASN
1	1	617	HIS

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Mol	Chain	Res	Type
1	1	631	HIS
1	2	219	HIS
1	2	245	HIS
1	2	261	ASN
1	2	308	ASN
1	2	326	ASN
1	2	332	GLN
1	2	463	ASN
1	2	476	ASN
1	2	503	GLN
1	2	509	ASN
1	2	525	ASN
1	2	535	ASN
1	2	573	ASN
1	2	631	HIS
1	3	245	HIS
1	3	261	ASN
1	3	326	ASN
1	3	332	GLN
1	3	463	ASN
1	3	476	ASN
1	3	509	ASN
1	3	525	ASN
1	3	535	ASN
1	3	546	ASN
1	3	573	ASN
1	3	617	HIS
1	3	631	HIS
1	4	219	HIS
1	4	245	HIS
1	4	261	ASN
1	4	308	ASN
1	4	326	ASN
1	4	332	GLN
1	4	463	ASN
1	4	476	ASN
1	4	503	GLN
1	4	509	ASN
1	4	525	ASN
1	4	573	ASN
1	4	631	HIS
1	5	219	HIS

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Mol	Chain	Res	Type
1	5	245	HIS
1	5	261	ASN
1	5	326	ASN
1	5	332	GLN
1	5	463	ASN
1	5	476	ASN
1	5	509	ASN
1	5	525	ASN
1	5	535	ASN
1	5	573	ASN
1	5	617	HIS
1	5	631	HIS
1	6	219	HIS
1	6	245	HIS
1	6	261	ASN
1	6	326	ASN
1	6	332	GLN
1	6	459	ASN
1	6	463	ASN
1	6	476	ASN
1	6	509	ASN
1	6	525	ASN
1	6	535	ASN
1	6	546	ASN
1	6	573	ASN
1	6	617	HIS
1	6	631	HIS
1	7	219	HIS
1	7	245	HIS
1	7	261	ASN
1	7	326	ASN
1	7	332	GLN
1	7	340	GLN
1	7	463	ASN
1	7	476	ASN
1	7	503	GLN
1	7	509	ASN
1	7	525	ASN
1	7	573	ASN
1	7	617	HIS
1	7	631	HIS
1	8	219	HIS

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Mol	Chain	Res	Type
1	8	245	HIS
1	8	261	ASN
1	8	326	ASN
1	8	332	GLN
1	8	463	ASN
1	8	476	ASN
1	8	509	ASN
1	8	525	ASN
1	8	535	ASN
1	8	573	ASN
1	8	574	GLN
1	8	617	HIS
1	8	631	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-46749. These allow visual inspection of the internal detail of the map and identification of artifacts.

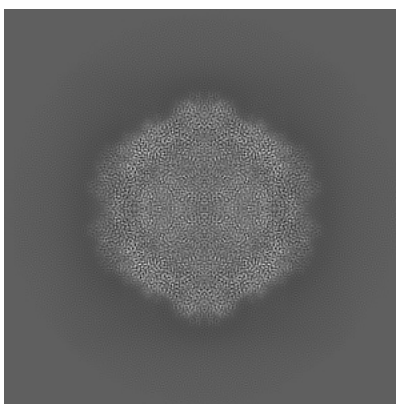
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

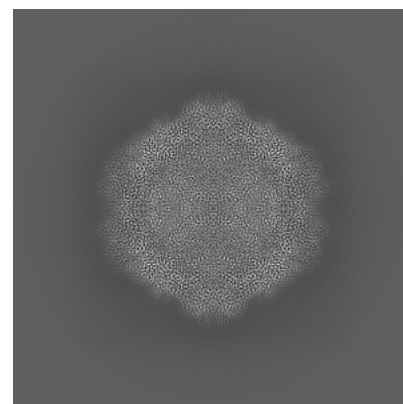
6.1.1 Primary map



X

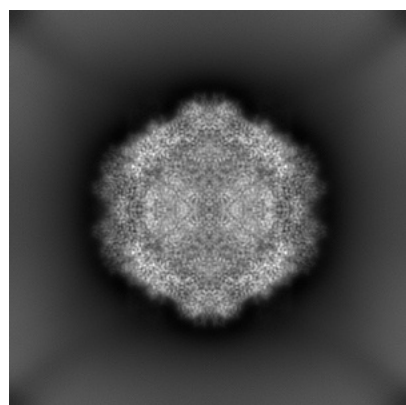


Y

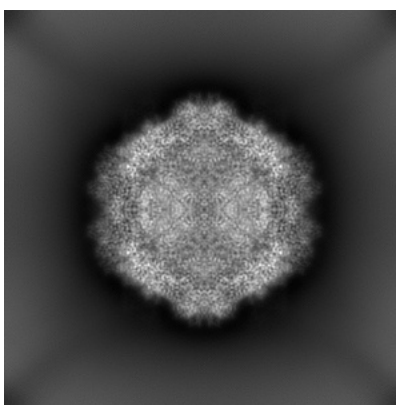


Z

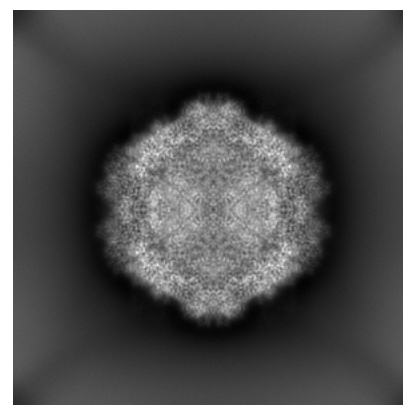
6.1.2 Raw map



X



Y

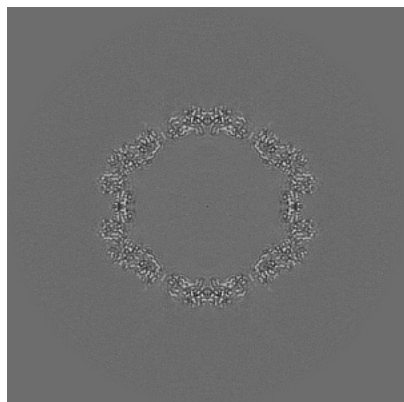


Z

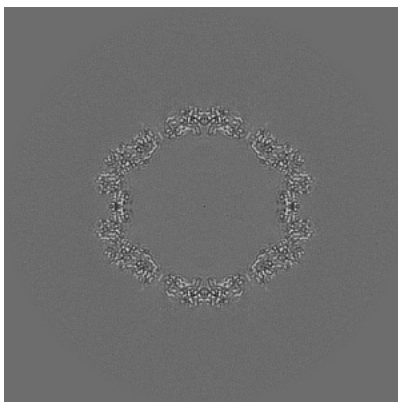
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

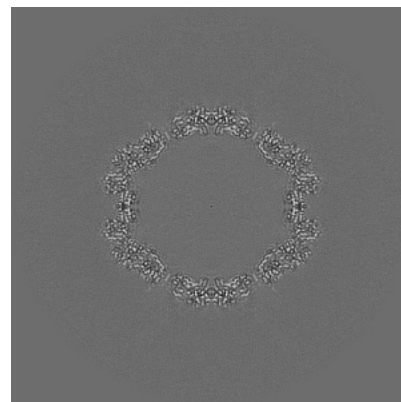
6.2.1 Primary map



X Index: 250

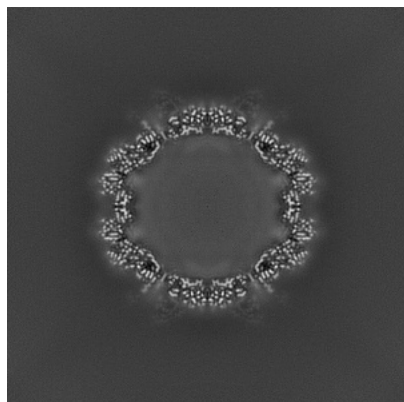


Y Index: 250

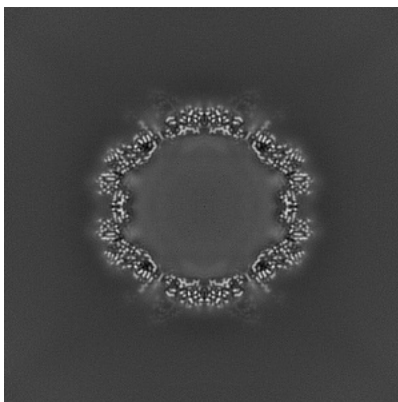


Z Index: 250

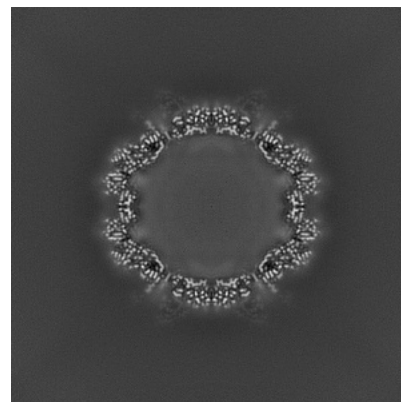
6.2.2 Raw map



X Index: 250



Y Index: 250

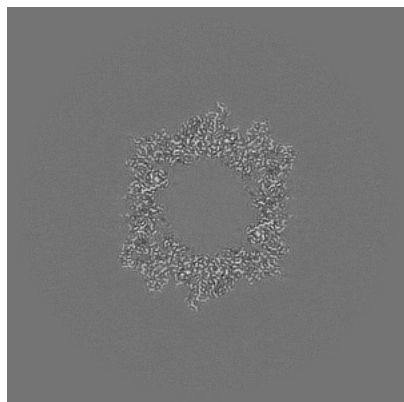


Z Index: 250

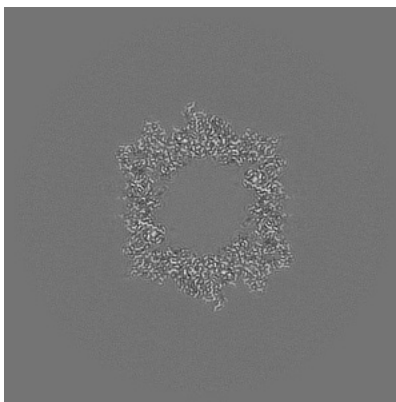
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

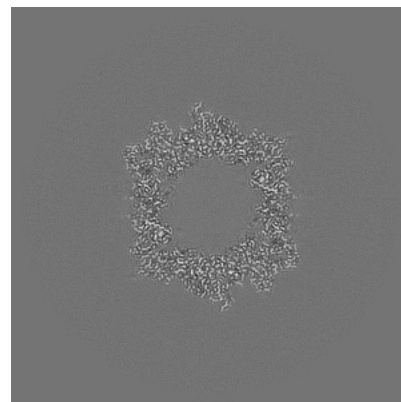
6.3.1 Primary map



X Index: 320

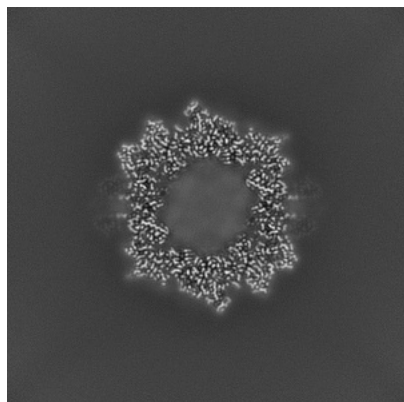


Y Index: 180

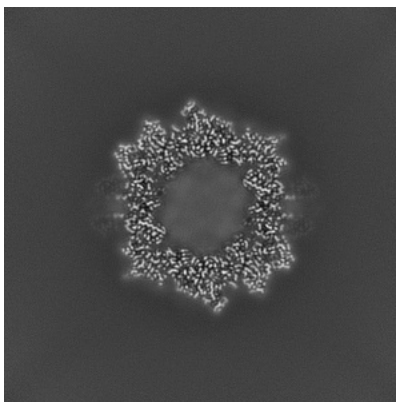


Z Index: 180

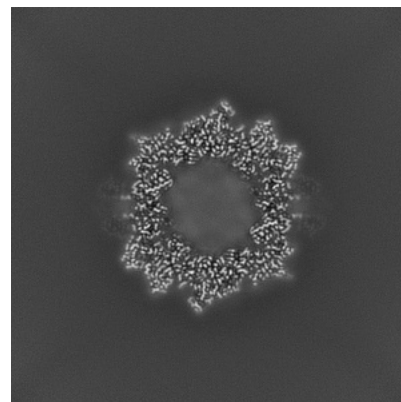
6.3.2 Raw map



X Index: 180



Y Index: 180

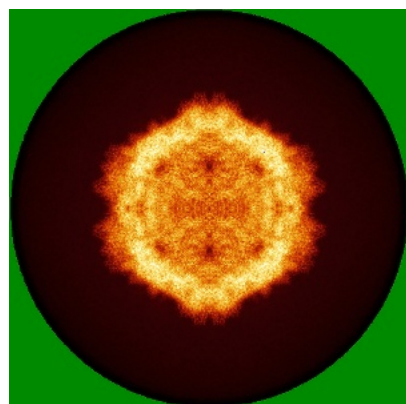


Z Index: 320

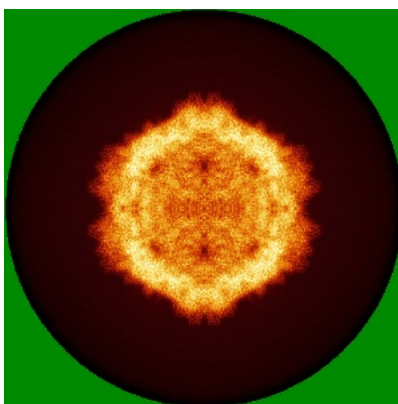
The images above show the largest variance slices of the map in three orthogonal directions.

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

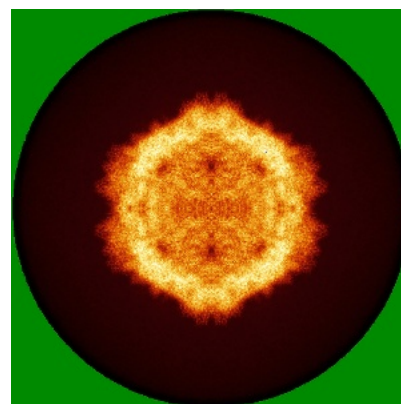
6.4.1 Primary map



X

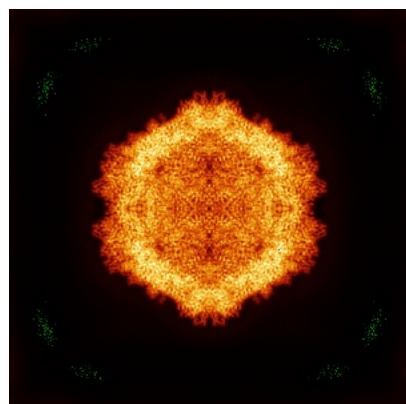


Y

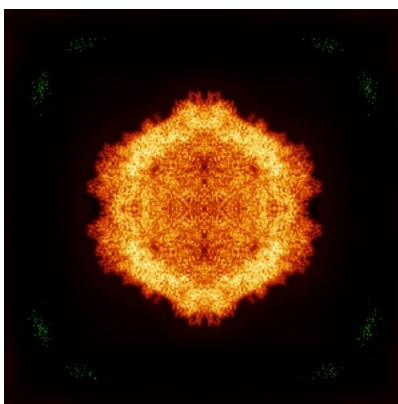


Z

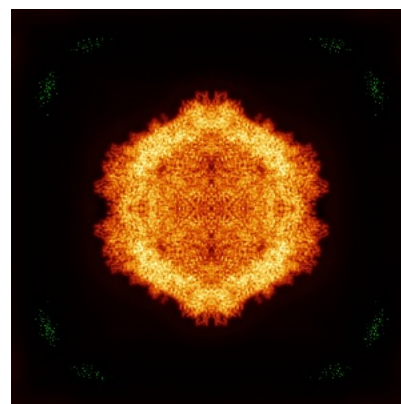
6.4.2 Raw map



X



Y

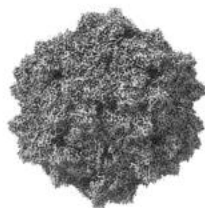


Z

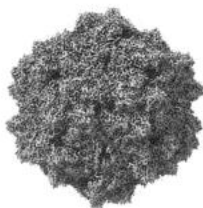
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

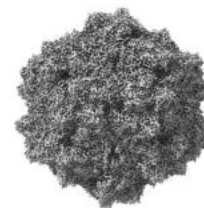
6.5.1 Primary map



X



Y



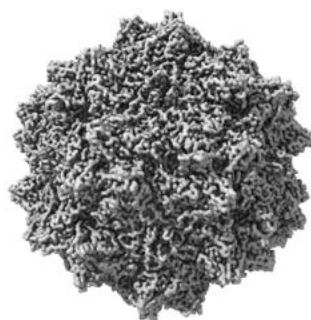
Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. 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.

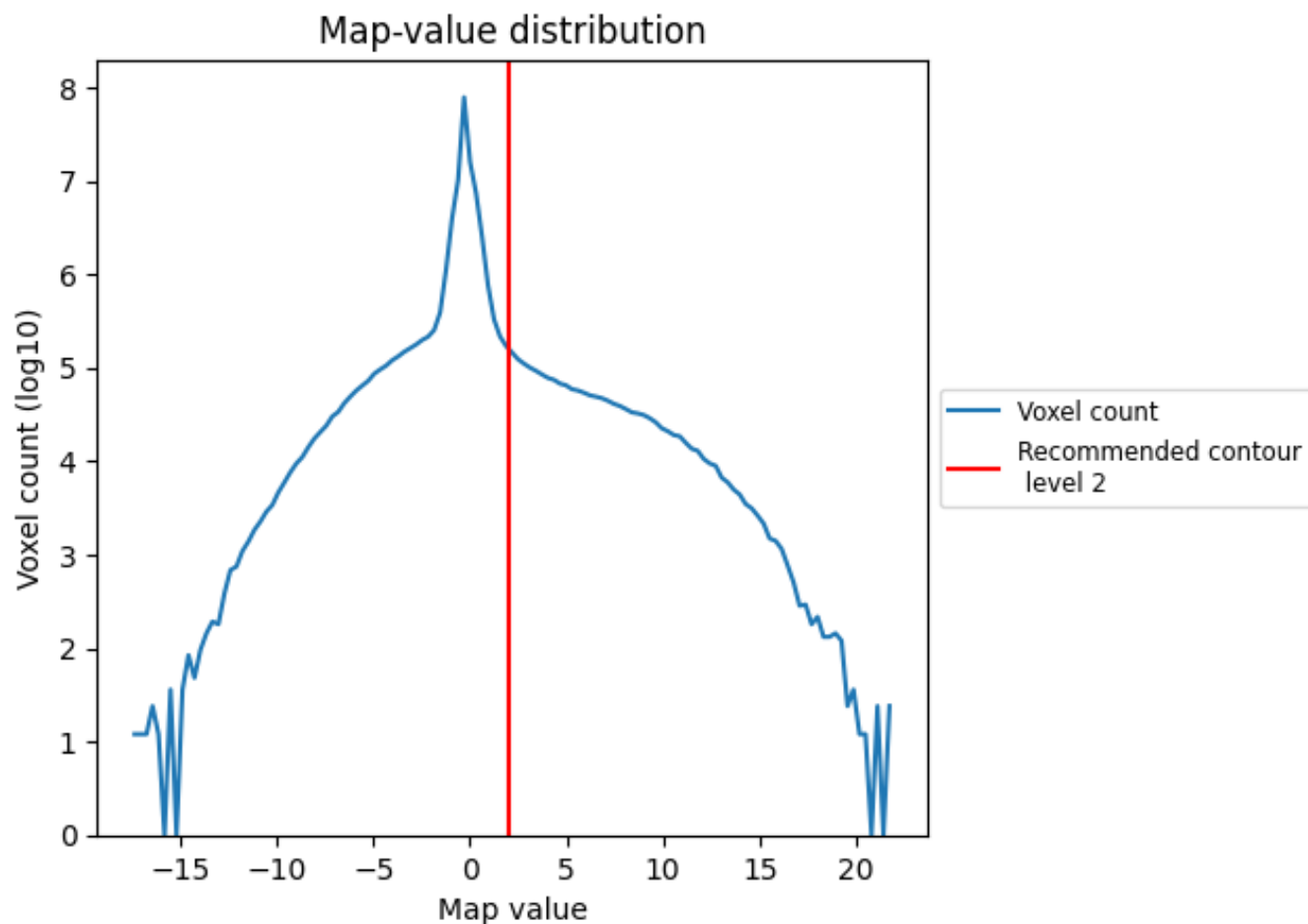
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

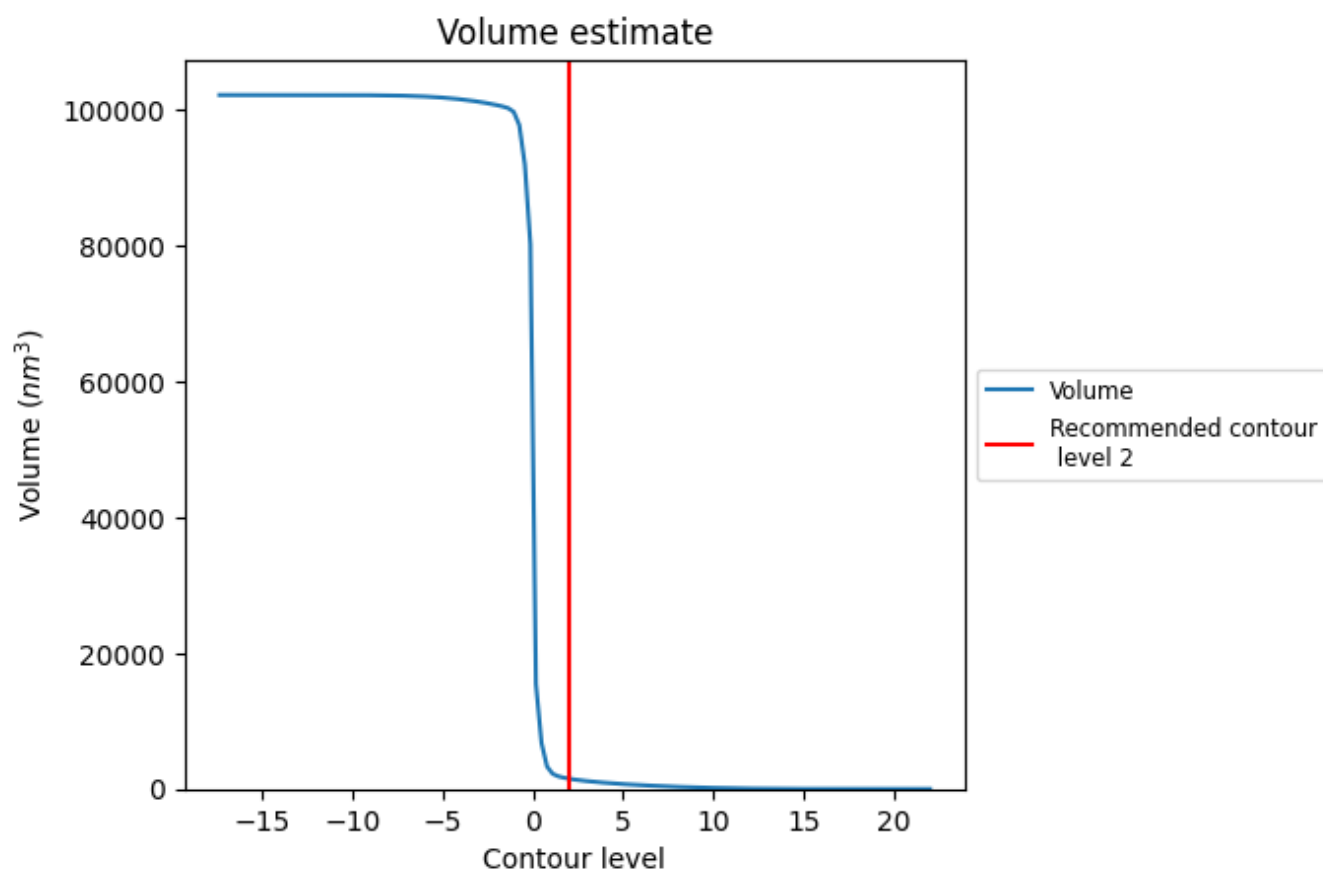
This section contains the results of statistical analysis of the map.

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.

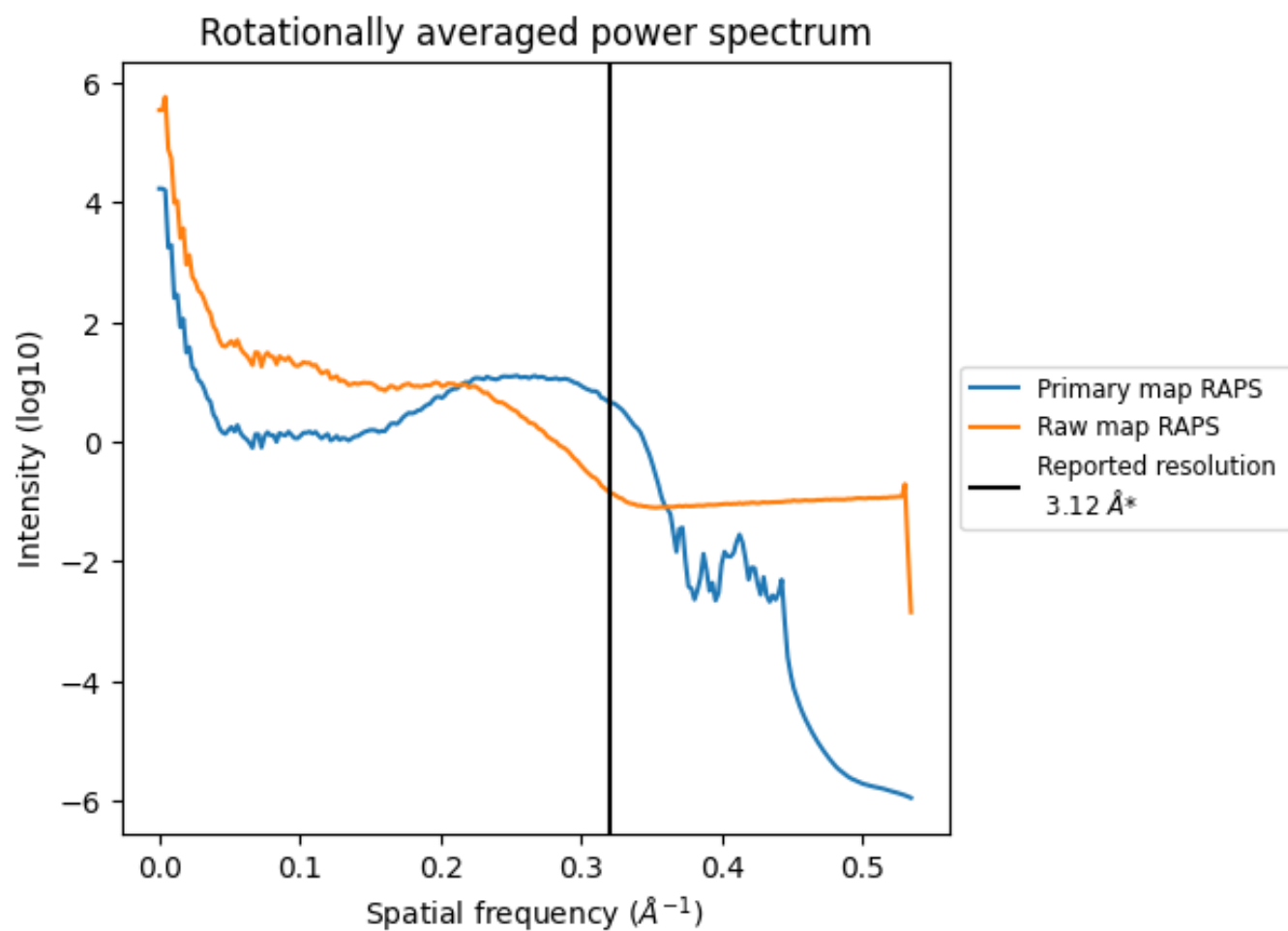
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1520 nm^3 ; this corresponds to an approximate mass of 1373 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 ⓘ

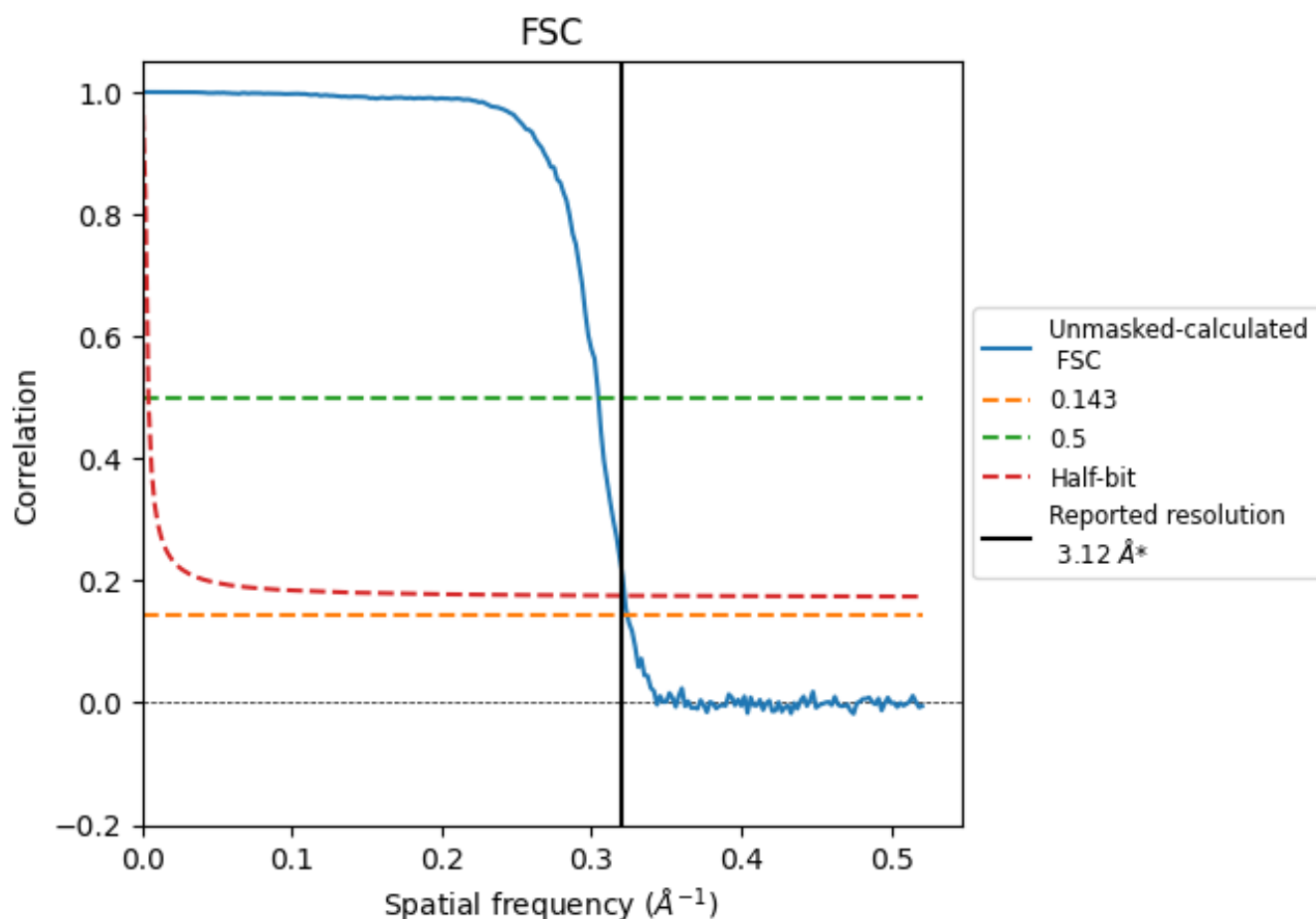


*Reported resolution corresponds to spatial frequency of 0.321 Å⁻¹

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 0.321 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

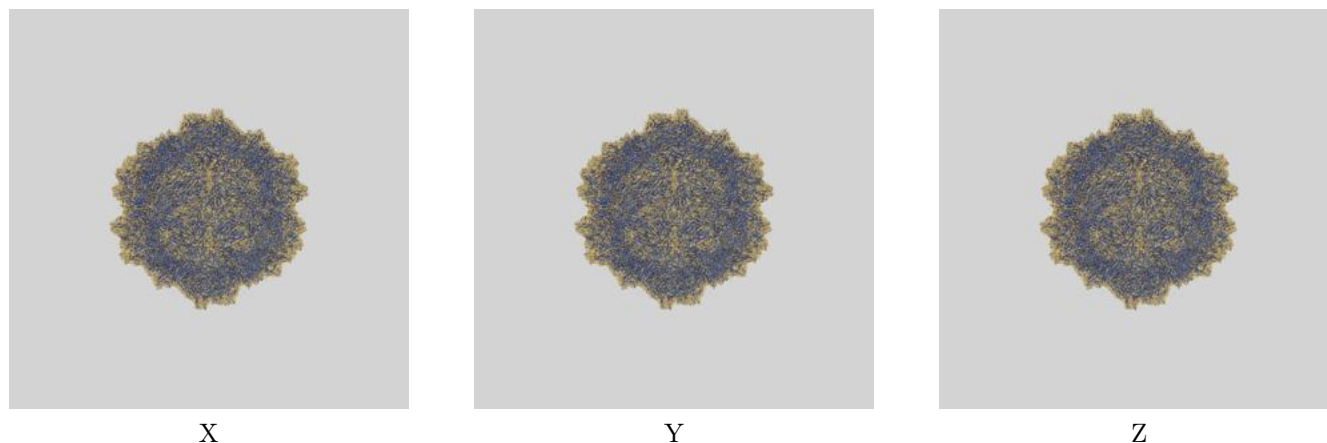
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.12	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.09	3.28	3.10

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

9 Map-model fit [i](#)

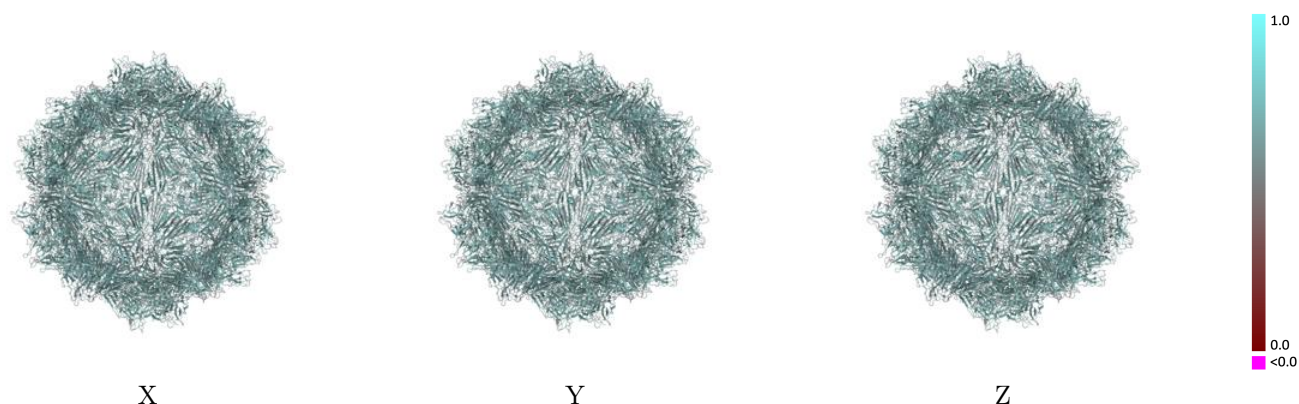
This section contains information regarding the fit between EMDB map EMD-46749 and PDB model 9DCC. Per-residue inclusion information can be found in [section 3](#) on [page 14](#).

9.1 Map-model overlay [i](#)



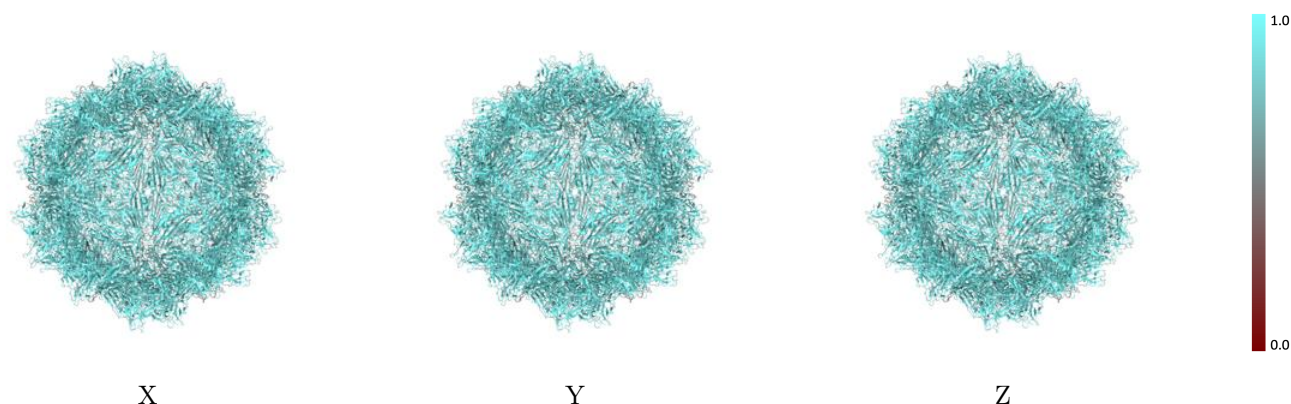
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



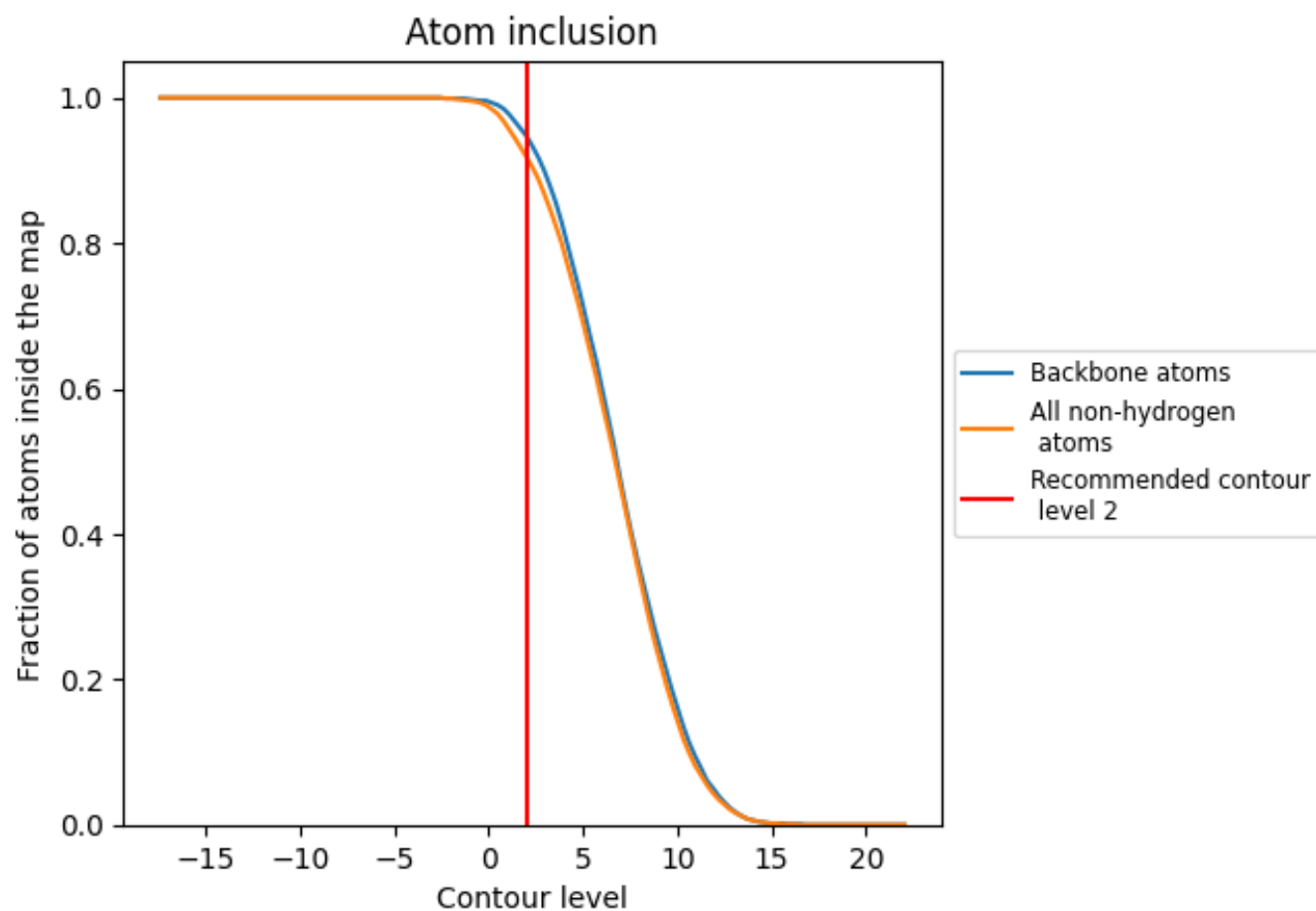
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2).

9.4 Atom inclusion [i](#)



At the recommended contour level, 95% of all backbone atoms, 92% 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) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9190	 0.6240
0	 0.5480	 0.5410
0A	 0.5480	 0.5400
1	 0.9230	 0.6250
1A	 0.5480	 0.5460
2	 0.9230	 0.6250
2A	 0.5710	 0.5480
3	 0.9230	 0.6250
3A	 0.5710	 0.5540
4	 0.9220	 0.6250
4A	 0.5480	 0.5490
5	 0.9230	 0.6250
5A	 0.5480	 0.5420
6	 0.9230	 0.6250
7	 0.9230	 0.6250
8	 0.9240	 0.6260
9	 0.5950	 0.5400
A	 0.9240	 0.6260
AA	 0.5480	 0.5340
B	 0.9230	 0.6250
BA	 0.5950	 0.5370
C	 0.9220	 0.6240
CA	 0.5710	 0.5560
D	 0.9230	 0.6250
DA	 0.5480	 0.5380
E	 0.9240	 0.6260
EA	 0.5710	 0.5510
F	 0.9240	 0.6250
FA	 0.5480	 0.5420
G	 0.9230	 0.6250
GA	 0.5480	 0.5430
H	 0.9230	 0.6250
HA	 0.5950	 0.5370
I	 0.9220	 0.6250
IA	 0.5950	 0.5400



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Chain	Atom inclusion	Q-score
J	 0.9230	 0.6250
JA	 0.5950	 0.5400
K	 0.9220	 0.6240
KA	 0.5480	 0.5400
L	 0.9230	 0.6250
LA	 0.5950	 0.5360
M	 0.9240	 0.6250
MA	 0.5480	 0.5390
N	 0.9230	 0.6250
NA	 0.5480	 0.5470
O	 0.9240	 0.6250
OA	 0.5710	 0.5550
P	 0.9230	 0.6250
PA	 0.5480	 0.5380
Q	 0.9220	 0.6250
QA	 0.5710	 0.5610
R	 0.9230	 0.6250
RA	 0.5480	 0.5440
S	 0.9230	 0.6250
SA	 0.5480	 0.5380
T	 0.9220	 0.6250
TA	 0.5480	 0.5370
U	 0.9230	 0.6260
UA	 0.5480	 0.5390
V	 0.9220	 0.6250
VA	 0.5480	 0.5390
W	 0.9230	 0.6260
WA	 0.5480	 0.5450
X	 0.9240	 0.6250
XA	 0.5480	 0.5420
Y	 0.9230	 0.6250
YA	 0.5480	 0.5430
Z	 0.9240	 0.6260
ZA	 0.5710	 0.5580
a	 0.9240	 0.6250
aA	 0.5480	 0.5310
b	 0.9240	 0.6250
bA	 0.5480	 0.5460
c	 0.9240	 0.6260
cA	 0.5480	 0.5440
d	 0.9240	 0.6250
dA	 0.5710	 0.5590

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Chain	Atom inclusion	Q-score
e	 0.9240	 0.6260
eA	 0.5480	 0.5380
f	 0.9240	 0.6250
fA	 0.5480	 0.5420
g	 0.9220	 0.6250
gA	 0.5480	 0.5460
h	 0.9240	 0.6260
hA	 0.5710	 0.5520
i	 0.9230	 0.6240
iA	 0.5480	 0.5370
j	 0.9230	 0.6250
jA	 0.5950	 0.5350
k	 0.9230	 0.6260
kA	 0.5950	 0.5440
l	 0.9240	 0.6250
lA	 0.5950	 0.5400
m	 0.9220	 0.6250
mA	 0.5710	 0.5530
n	 0.9240	 0.6250
nA	 0.5480	 0.5450
o	 0.9240	 0.6250
oA	 0.5480	 0.5470
p	 0.9220	 0.6250
pA	 0.5710	 0.5540
q	 0.9230	 0.6250
qA	 0.5710	 0.5550
r	 0.9230	 0.6250
rA	 0.5480	 0.5460
s	 0.9230	 0.6250
sA	 0.5480	 0.5390
t	 0.9240	 0.6250
tA	 0.5950	 0.5340
u	 0.9220	 0.6240
uA	 0.5950	 0.5430
v	 0.9240	 0.6250
vA	 0.5950	 0.5340
w	 0.9240	 0.6250
wA	 0.5480	 0.5400
x	 0.9220	 0.6240
xA	 0.5480	 0.5340
y	 0.9240	 0.6250
yA	 0.5480	 0.5380

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Chain	Atom inclusion	Q-score
z	 0.9230	 0.6250
zA	 0.5480	 0.5340