Full wwPDB EM Validation Report

Jul 16, 2025 – 03:36 PM EDT

PDB ID	:	9NBG / pdb_00009nbg
EMDB ID	:	EMD-49228
Title	:	H-1 Parvovirus VLP - Glycan [s(Lex)2]
Authors	:	Busuttil, K.B.; Bennett, A.B.; McKenna, R.
Deposited on	:	2025-02-13
Resolution	:	2.57 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:

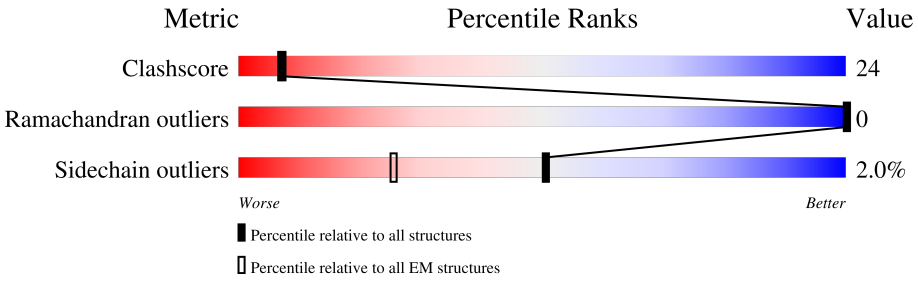
EMDB validation analysis	:	0.0.1.dev118
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.44

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.57 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	1	559	65% 33% ·
1	2	559	65% 34% ·
1	3	559	65% 34% ·
1	4	559	65% 33% ·
1	5	559	65% 34% ·
1	6	559	65% 34% ·
1	7	559	65% 34% ·
1	8	559	66% 32% ·

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Mol	Chain	Length	Quality of chain
1	A	559	65% 33%
1	B	559	65% 33%
1	C	559	65% 34%
1	D	559	65% 34%
1	E	559	65% 33%
1	F	559	65% 34%
1	G	559	65% 33%
1	H	559	65% 34%
1	I	559	64% 34%
1	J	559	65% 34%
1	K	559	65% 33%
1	L	559	65% 34%
1	M	559	65% 34%
1	N	559	65% 34%
1	O	559	65% 33%
1	P	559	65% 34%
1	Q	559	64% 34%
1	R	559	64% 35%
1	S	559	65% 34%
1	T	559	65% 33%
1	U	559	65% 33%
1	V	559	65% 33%
1	W	559	65% 34%
1	X	559	65% 34%
1	Y	559	65% 33%

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Mol	Chain	Length	Quality of chain
1	Z	559	65% 33%
1	a	559	65% 33%
1	b	559	65% 33%
1	c	559	65% 34%
1	d	559	65% 33%
1	e	559	65% 34%
1	f	559	65% 33%
1	g	559	65% 34%
1	h	559	65% 33%
1	i	559	65% 33%
1	j	559	65% 34%
1	k	559	65% 34%
1	l	559	65% 34%
1	m	559	65% 33%
1	n	559	65% 33%
1	o	559	65% 33%
1	p	559	65% 34%
1	q	559	64% 35%
1	r	559	65% 34%
1	s	559	65% 34%
1	t	559	65% 33%
1	u	559	65% 34%
1	v	559	65% 33%
1	w	559	65% 34%
1	x	559	64% 34%

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Mol	Chain	Length	Quality of chain
1	y	559	65% 33%
1	z	559	65% 34%
2	1A	3	100% 100%
2	2A	3	100% 100%
2	4A	3	100% 100%
2	5A	3	100% 100%
2	7A	3	100% 100%
2	8A	3	100% 100%
2	9	3	100% 100%
2	AA	3	100% 100%
2	AB	3	100% 100%
2	BB	3	100% 100%
2	CA	3	100% 100%
2	DA	3	100% 100%
2	DB	3	100% 100%
2	EB	3	100% 100%
2	FA	3	100% 100%
2	GA	3	100% 100%
2	GB	3	100% 100%
2	HB	3	100% 100%
2	IA	3	100% 100%
2	JA	3	100% 100%
2	JB	3	100% 100%
2	KB	3	100% 100%
2	LA	3	100% 100%

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Mol	Chain	Length	Quality of chain
2	MA	3	100% 100%
2	MB	3	100% 100%
2	NB	3	100% 100%
2	OA	3	100% 100%
2	PA	3	100% 100%
2	PB	3	100% 100%
2	QB	3	100% 100%
2	RA	3	100% 100%
2	SA	3	100% 100%
2	SB	3	100% 100%
2	TB	3	100% 100%
2	UA	3	100% 100%
2	VA	3	100% 100%
2	VB	3	100% 100%
2	WB	3	100% 100%
2	XA	3	100% 100%
2	YA	3	100% 100%
2	YB	3	100% 100%
2	ZB	3	100% 100%
2	aA	3	100% 100%
2	bA	3	100% 100%
2	dA	3	100% 100%
2	eA	3	100% 100%
2	gA	3	100% 100%
2	hA	3	100% 100%

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Mol	Chain	Length	Quality of chain
2	jA	3	100% 100%
2	kA	3	100% 100%
2	mA	3	100% 100%
2	nA	3	100% 100%
2	pA	3	100% 100%
2	qA	3	100% 100%
2	sA	3	100% 100%
2	tA	3	100% 100%
2	vA	3	100% 100%
2	wA	3	100% 100%
2	yA	3	100% 100%
2	zA	3	100% 100%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 267000 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 Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	B	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	C	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	D	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	E	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	F	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	G	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	H	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	I	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	J	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	K	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	L	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	M	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	N	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	O	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	P	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	Q	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	S	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	T	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	U	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	V	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	W	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	X	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	Y	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	Z	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	a	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	b	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	c	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	d	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	e	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	f	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	g	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	h	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	i	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	j	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	k	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	l	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	n	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	o	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	p	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	q	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	r	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	s	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	t	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	u	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	v	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	w	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	x	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	y	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	z	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	1	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	2	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	3	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	4	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	5	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	6	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		
1	7	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		

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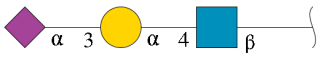
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	559	Total	C	N	O	S	0	0
			4404	2784	761	842	17		

- Molecule 2 is an oligosaccharide called N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galact opyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				AltConf	Trace
2	9	3	Total	C	N	O	0	0
			46	25	2	19		
2	AA	3	Total	C	N	O	0	0
			46	25	2	19		
2	CA	3	Total	C	N	O	0	0
			46	25	2	19		
2	DA	3	Total	C	N	O	0	0
			46	25	2	19		
2	FA	3	Total	C	N	O	0	0
			46	25	2	19		
2	GA	3	Total	C	N	O	0	0
			46	25	2	19		
2	IA	3	Total	C	N	O	0	0
			46	25	2	19		
2	JA	3	Total	C	N	O	0	0
			46	25	2	19		
2	LA	3	Total	C	N	O	0	0
			46	25	2	19		
2	MA	3	Total	C	N	O	0	0
			46	25	2	19		
2	OA	3	Total	C	N	O	0	0
			46	25	2	19		
2	PA	3	Total	C	N	O	0	0
			46	25	2	19		
2	RA	3	Total	C	N	O	0	0
			46	25	2	19		
2	SA	3	Total	C	N	O	0	0
			46	25	2	19		
2	UA	3	Total	C	N	O	0	0
			46	25	2	19		
2	VA	3	Total	C	N	O	0	0
			46	25	2	19		

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Mol	Chain	Residues	Atoms				AltConf	Trace
2	XA	3	Total	C	N	O	0	0
			46	25	2	19		
2	YA	3	Total	C	N	O	0	0
			46	25	2	19		
2	aA	3	Total	C	N	O	0	0
			46	25	2	19		
2	bA	3	Total	C	N	O	0	0
			46	25	2	19		
2	dA	3	Total	C	N	O	0	0
			46	25	2	19		
2	eA	3	Total	C	N	O	0	0
			46	25	2	19		
2	gA	3	Total	C	N	O	0	0
			46	25	2	19		
2	hA	3	Total	C	N	O	0	0
			46	25	2	19		
2	jA	3	Total	C	N	O	0	0
			46	25	2	19		
2	kA	3	Total	C	N	O	0	0
			46	25	2	19		
2	mA	3	Total	C	N	O	0	0
			46	25	2	19		
2	nA	3	Total	C	N	O	0	0
			46	25	2	19		
2	pA	3	Total	C	N	O	0	0
			46	25	2	19		
2	qA	3	Total	C	N	O	0	0
			46	25	2	19		
2	sA	3	Total	C	N	O	0	0
			46	25	2	19		
2	tA	3	Total	C	N	O	0	0
			46	25	2	19		
2	vA	3	Total	C	N	O	0	0
			46	25	2	19		
2	wA	3	Total	C	N	O	0	0
			46	25	2	19		
2	yA	3	Total	C	N	O	0	0
			46	25	2	19		
2	zA	3	Total	C	N	O	0	0
			46	25	2	19		
2	1A	3	Total	C	N	O	0	0
			46	25	2	19		

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Mol	Chain	Residues	Atoms				AltConf	Trace
2	2A	3	Total	C	N	O	0	0
			46	25	2	19		
2	4A	3	Total	C	N	O	0	0
			46	25	2	19		
2	5A	3	Total	C	N	O	0	0
			46	25	2	19		
2	7A	3	Total	C	N	O	0	0
			46	25	2	19		
2	8A	3	Total	C	N	O	0	0
			46	25	2	19		
2	AB	3	Total	C	N	O	0	0
			46	25	2	19		
2	BB	3	Total	C	N	O	0	0
			46	25	2	19		
2	DB	3	Total	C	N	O	0	0
			46	25	2	19		
2	EB	3	Total	C	N	O	0	0
			46	25	2	19		
2	GB	3	Total	C	N	O	0	0
			46	25	2	19		
2	HB	3	Total	C	N	O	0	0
			46	25	2	19		
2	JB	3	Total	C	N	O	0	0
			46	25	2	19		
2	KB	3	Total	C	N	O	0	0
			46	25	2	19		
2	MB	3	Total	C	N	O	0	0
			46	25	2	19		
2	NB	3	Total	C	N	O	0	0
			46	25	2	19		
2	PB	3	Total	C	N	O	0	0
			46	25	2	19		
2	QB	3	Total	C	N	O	0	0
			46	25	2	19		
2	SB	3	Total	C	N	O	0	0
			46	25	2	19		
2	TB	3	Total	C	N	O	0	0
			46	25	2	19		
2	VB	3	Total	C	N	O	0	0
			46	25	2	19		
2	WB	3	Total	C	N	O	0	0
			46	25	2	19		

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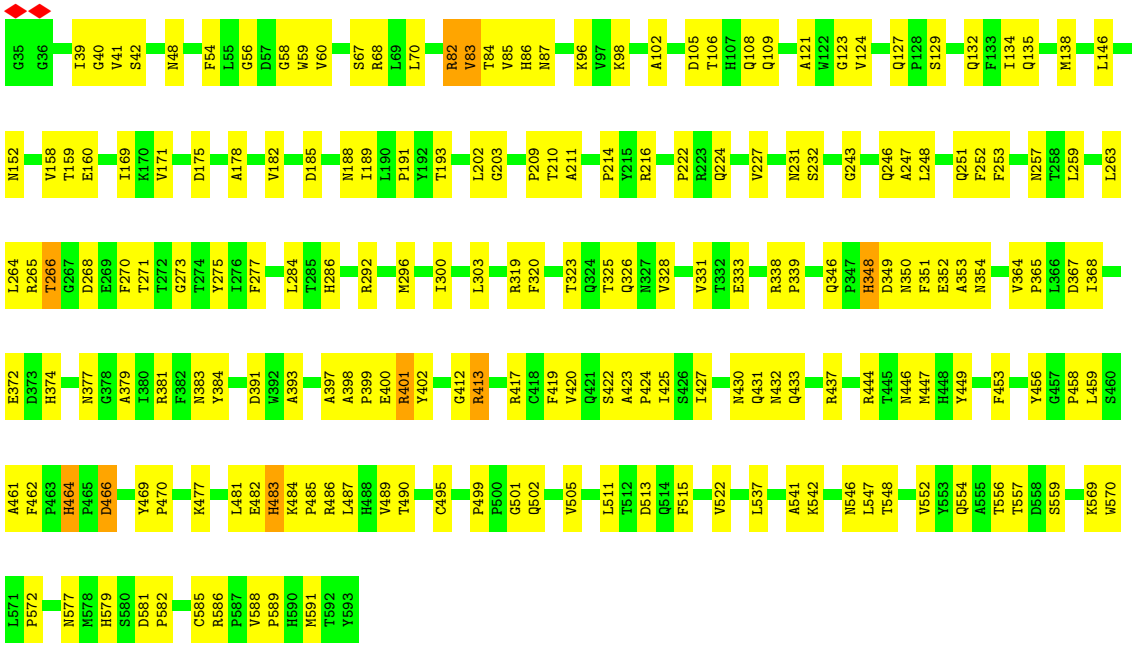
Mol	Chain	Residues	Atoms				AltConf	Trace
2	YB	3	Total	C	N	O	0	0
			46	25	2	19		
2	ZB	3	Total	C	N	O	0	0
			46	25	2	19		

3 Residue-property plots (i)

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

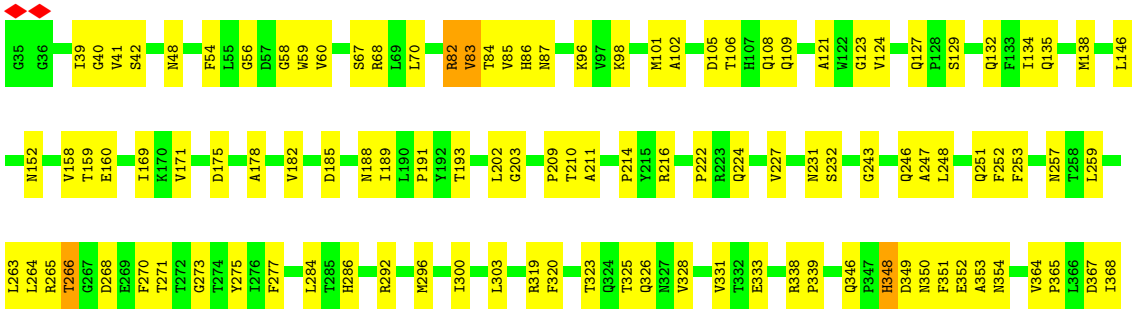
• Molecule 1: Major capsid protein

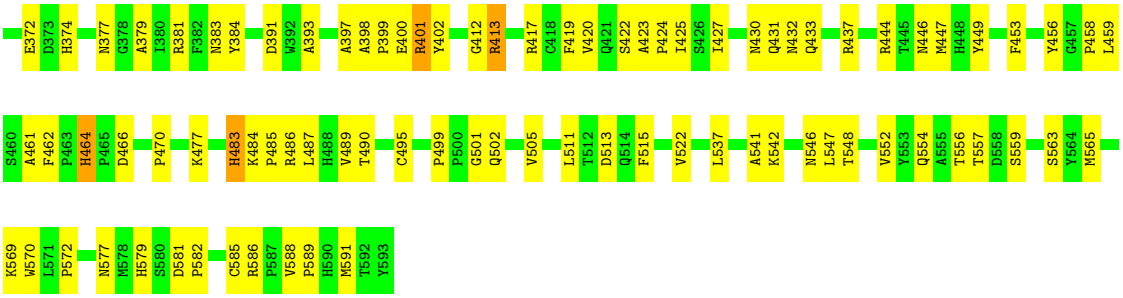
Chain A:



• Molecule 1: Major capsid protein

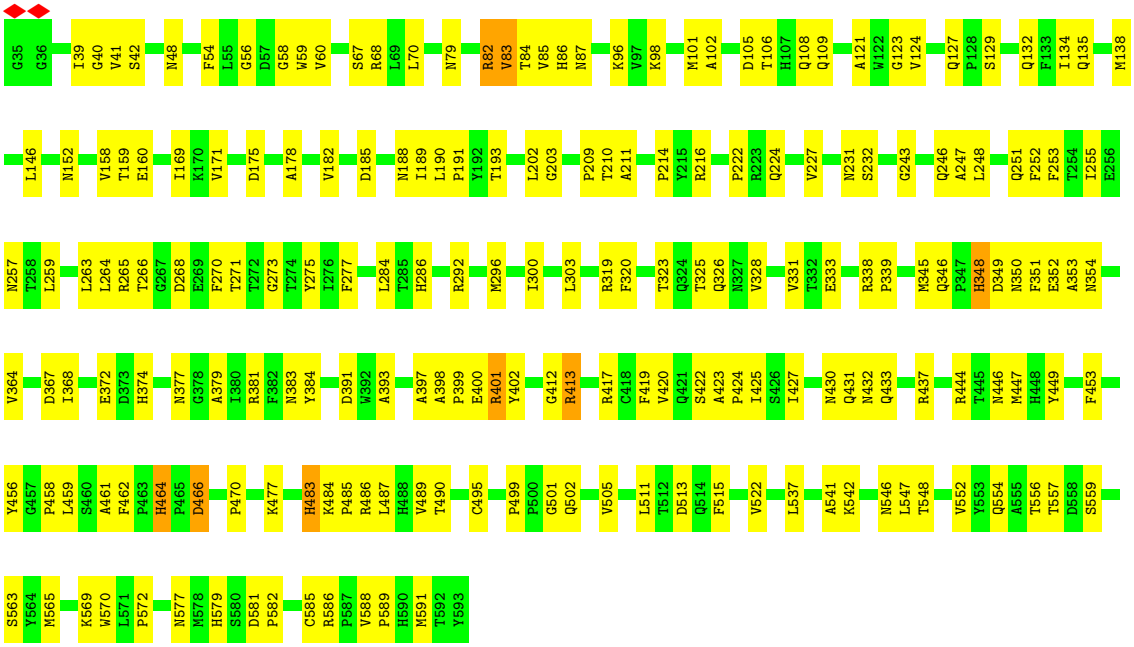
Chain B:





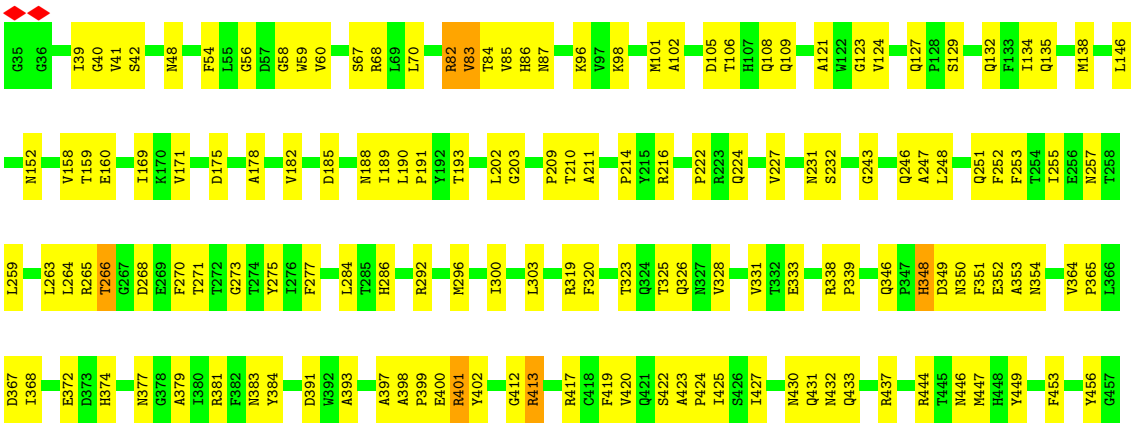
• Molecule 1: Major capsid protein

Chain C:



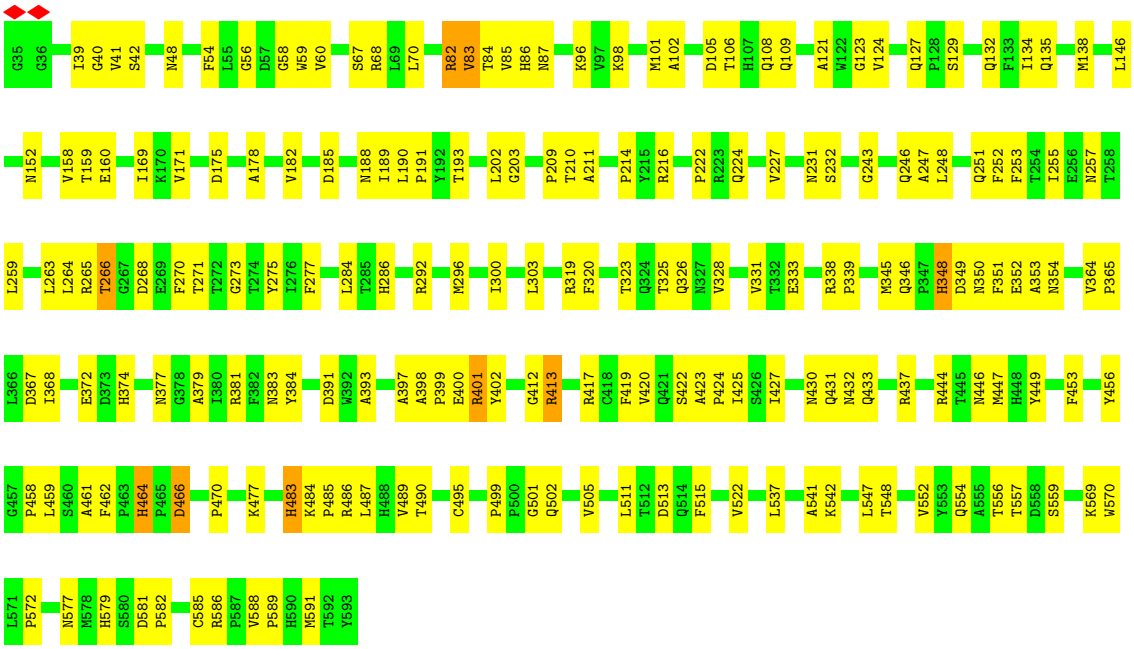
• Molecule 1: Major capsid protein

Chain D:



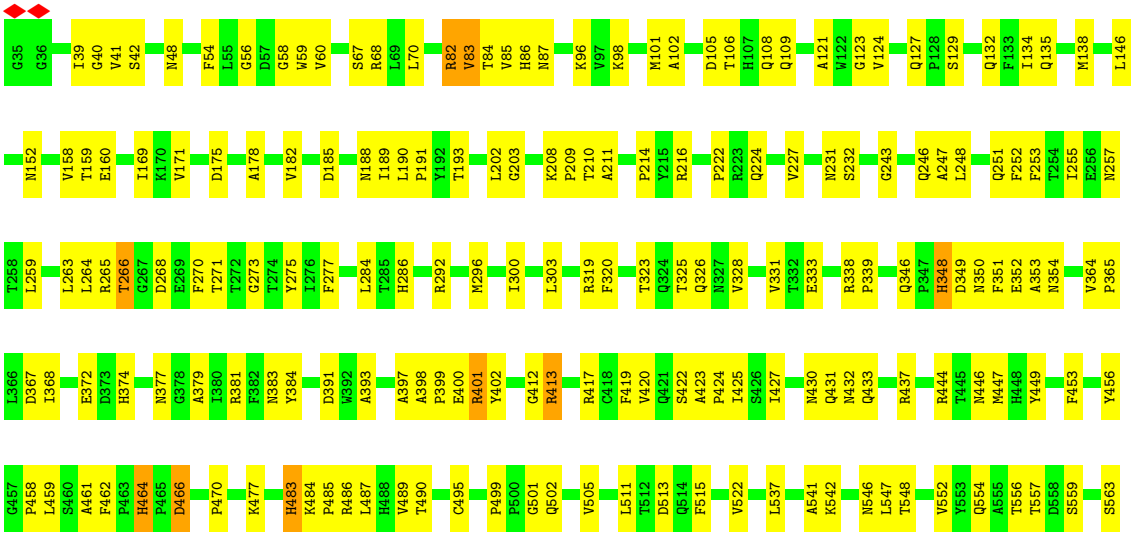
• Molecule 1: Major capsid protein

Chain E:



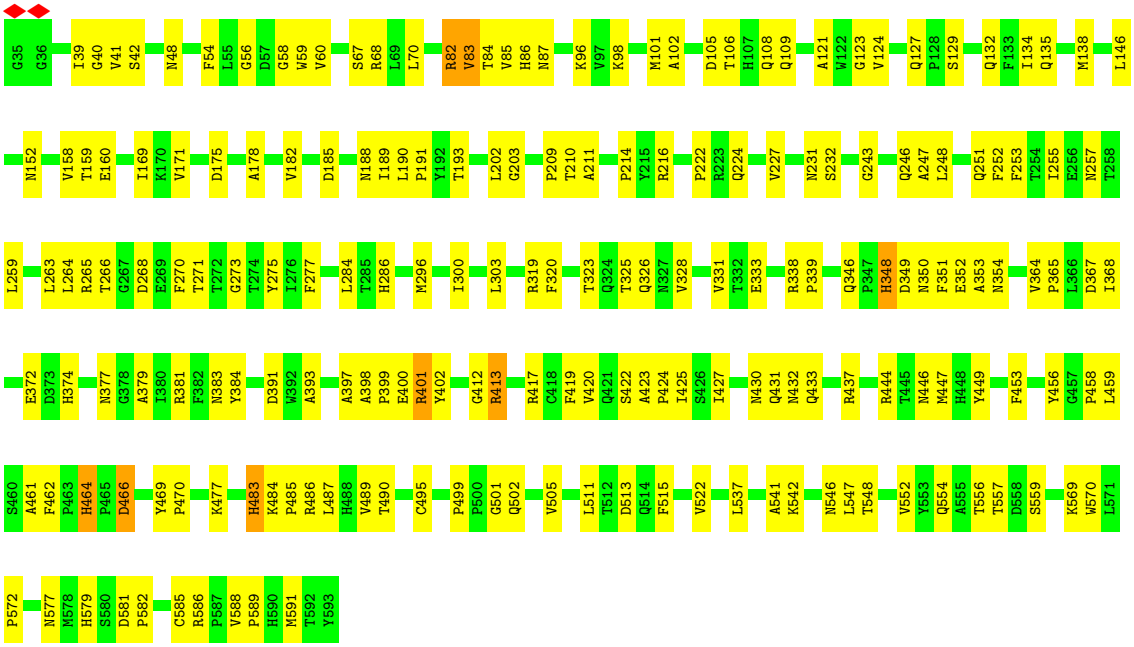
• Molecule 1: Major capsid protein

Chain F:



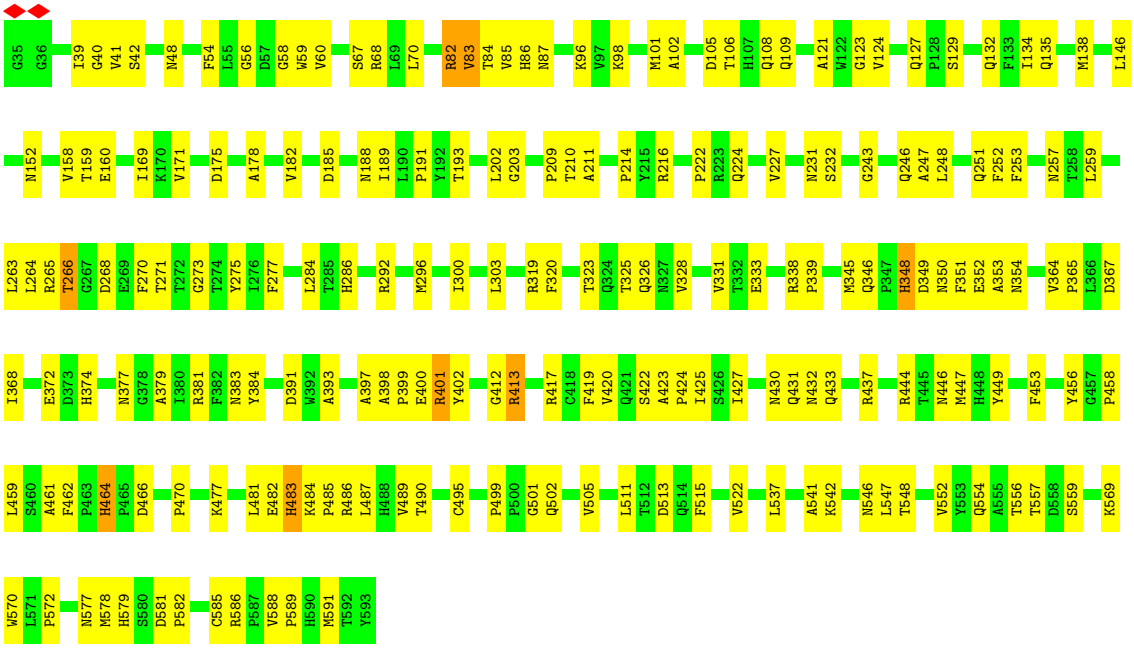
• Molecule 1: Major capsid protein

Chain G:



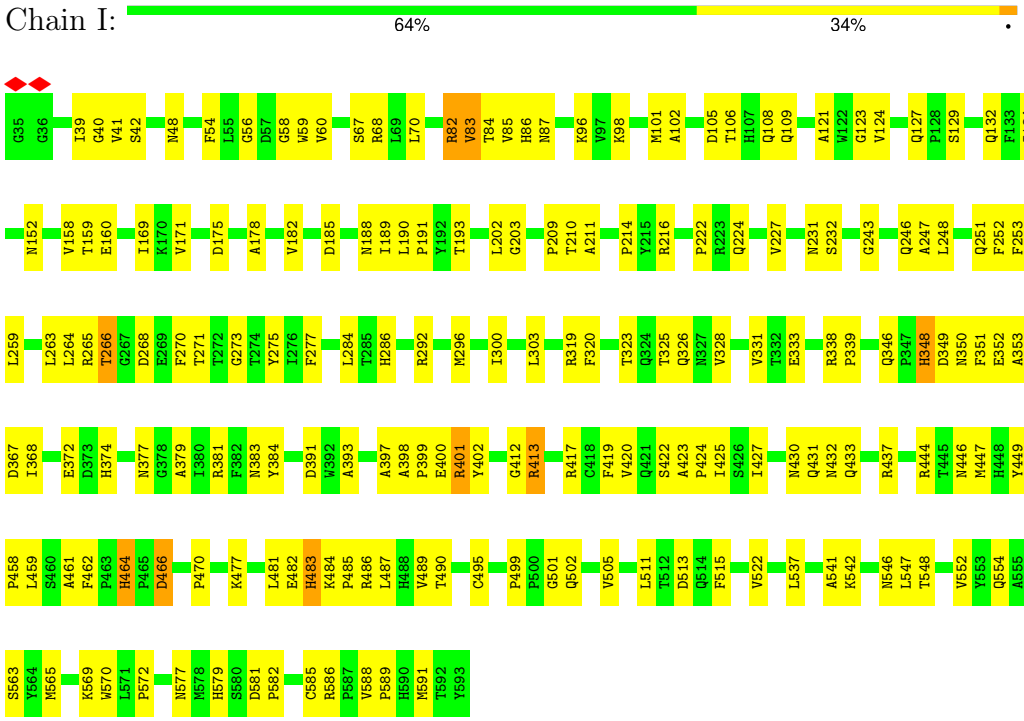
• Molecule 1: Major capsid protein

Chain H:



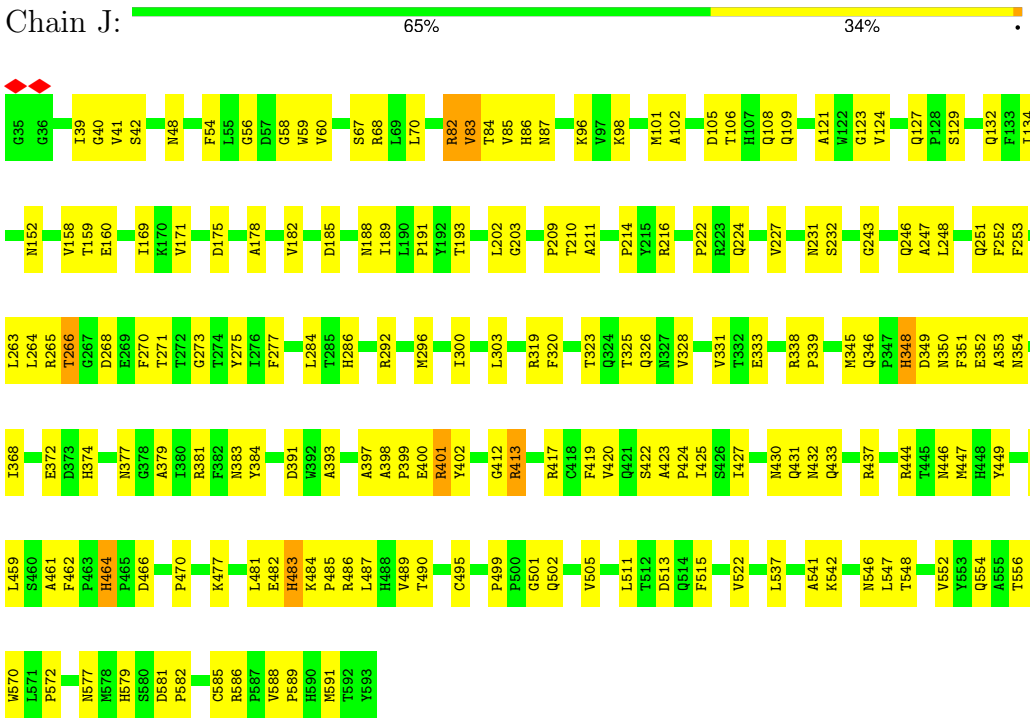
• Molecule 1: Major capsid protein

Chain I:



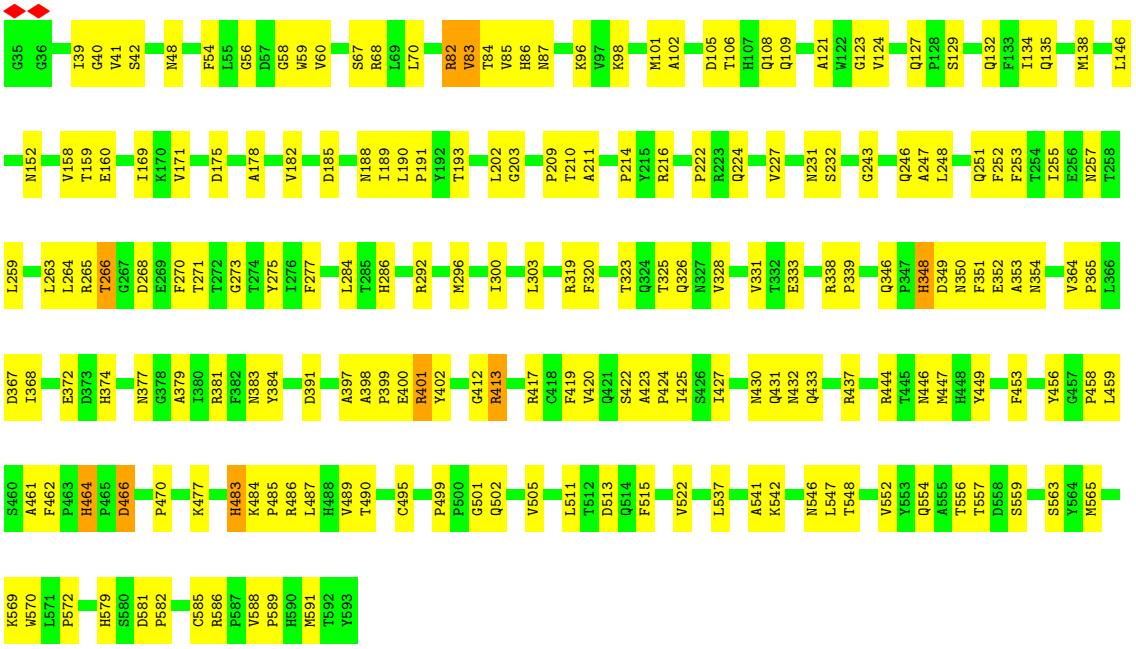
• Molecule 1: Major capsid protein

Chain J:



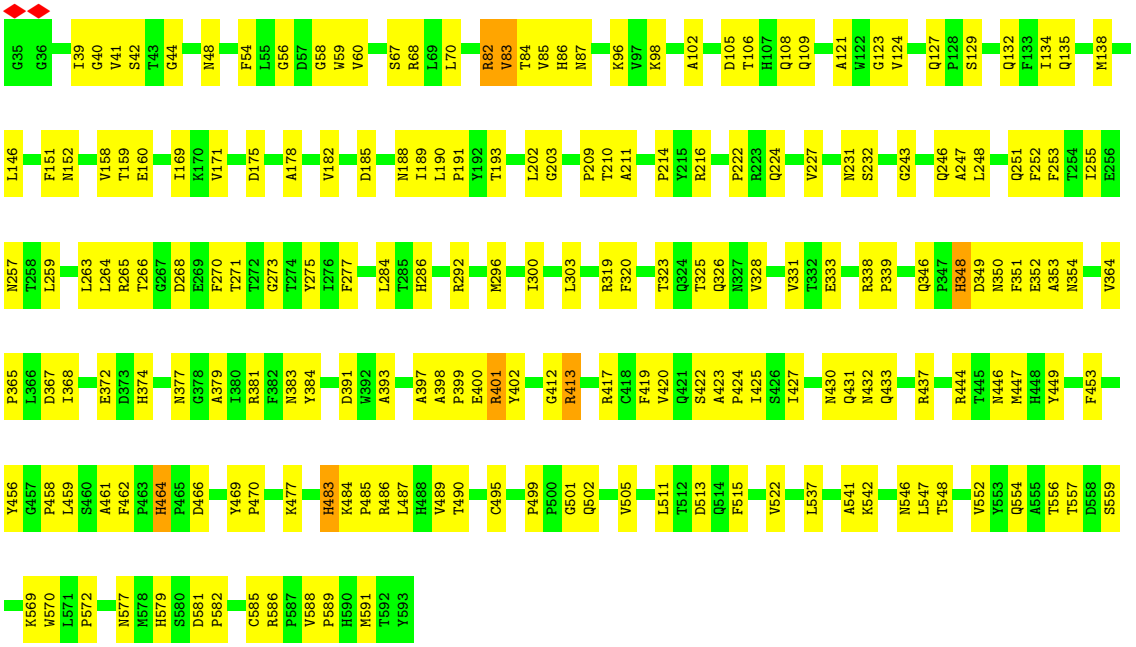
• Molecule 1: Major capsid protein

Chain K:



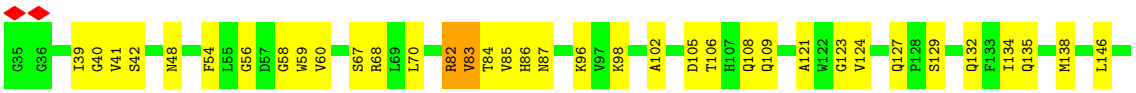
• Molecule 1: Major capsid protein

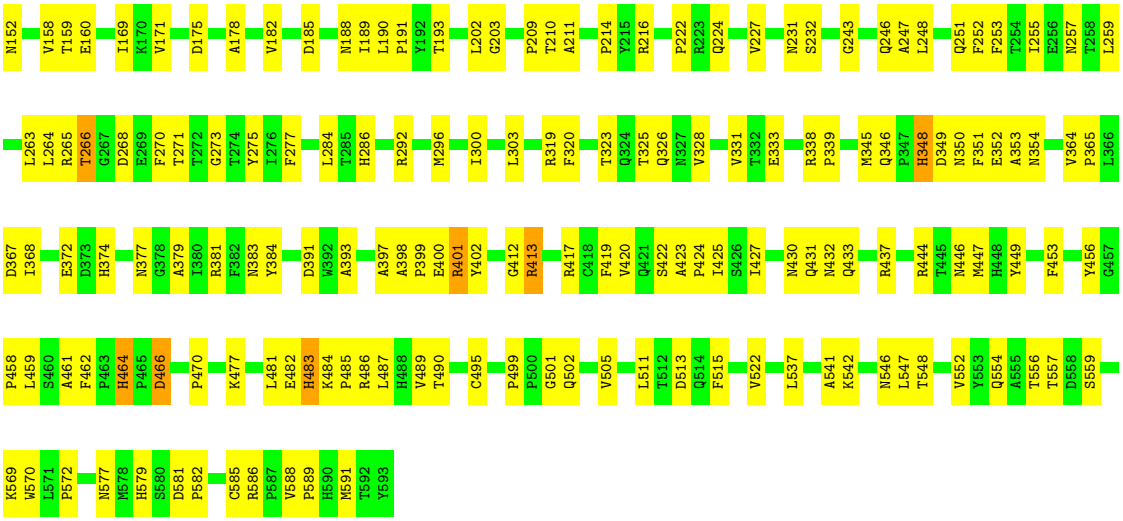
Chain L:



• Molecule 1: Major capsid protein

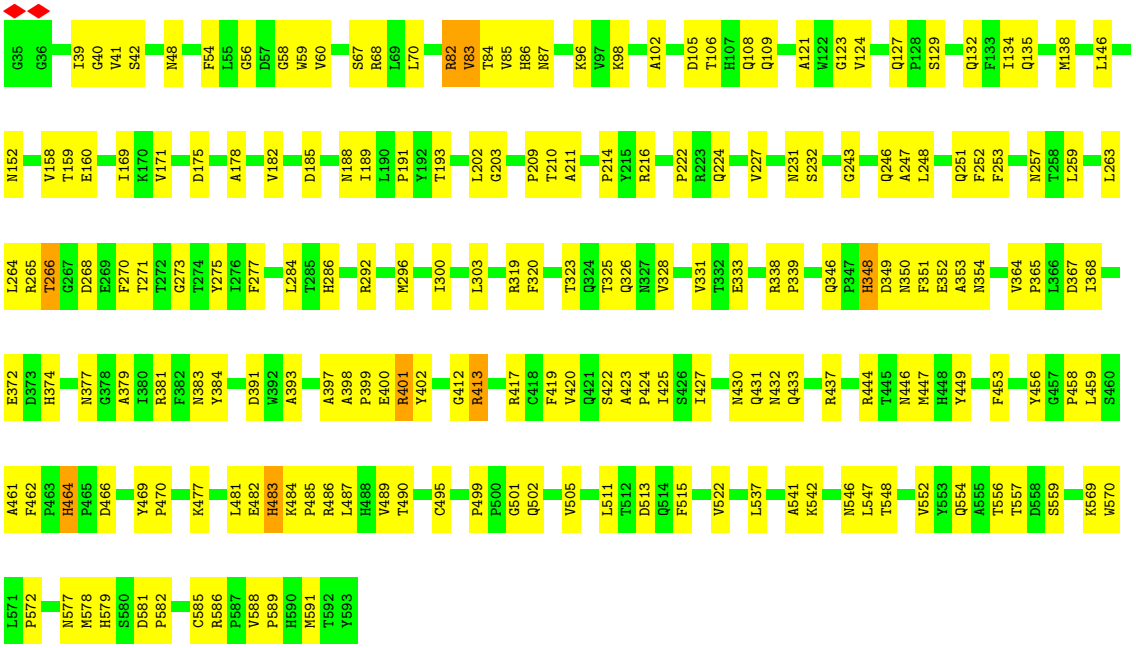
Chain M:





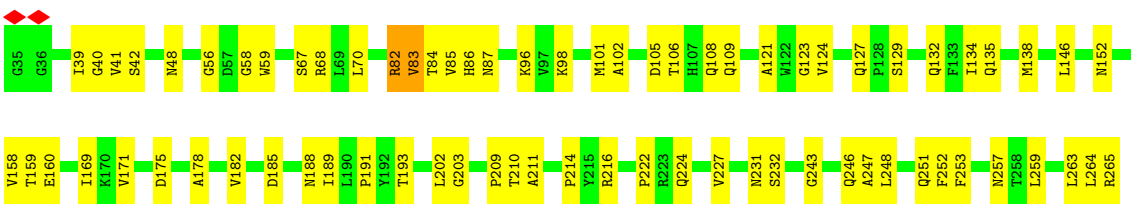
• Molecule 1: Major capsid protein

Chain N:



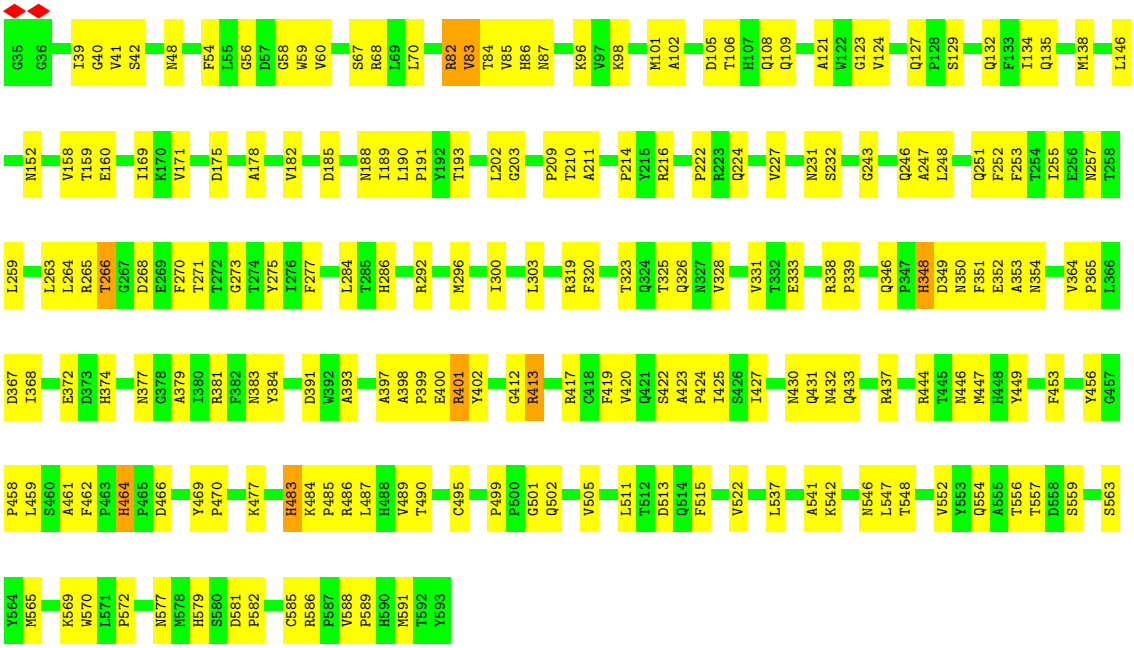
• Molecule 1: Major capsid protein

Chain O:



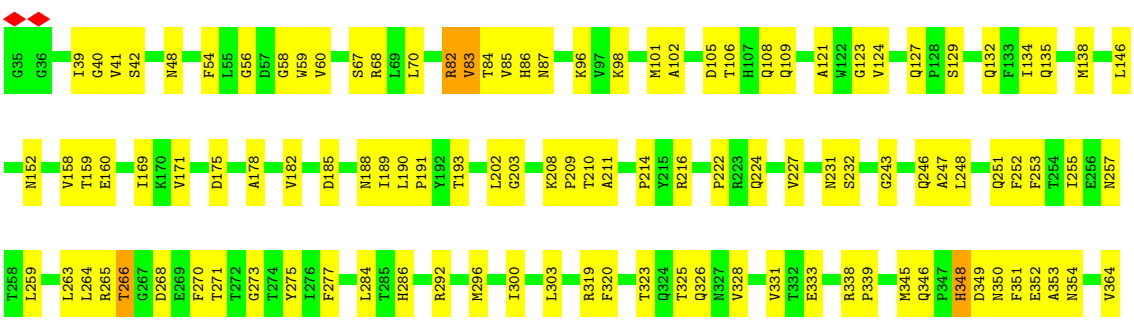
• Molecule 1: Major capsid protein

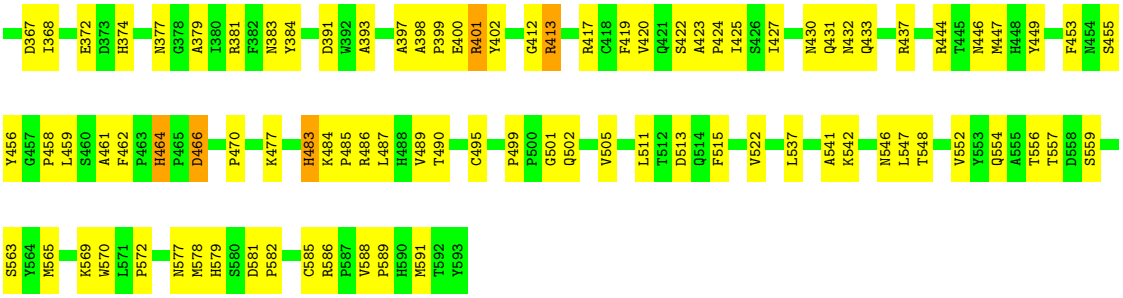
Chain P:



• Molecule 1: Major capsid protein

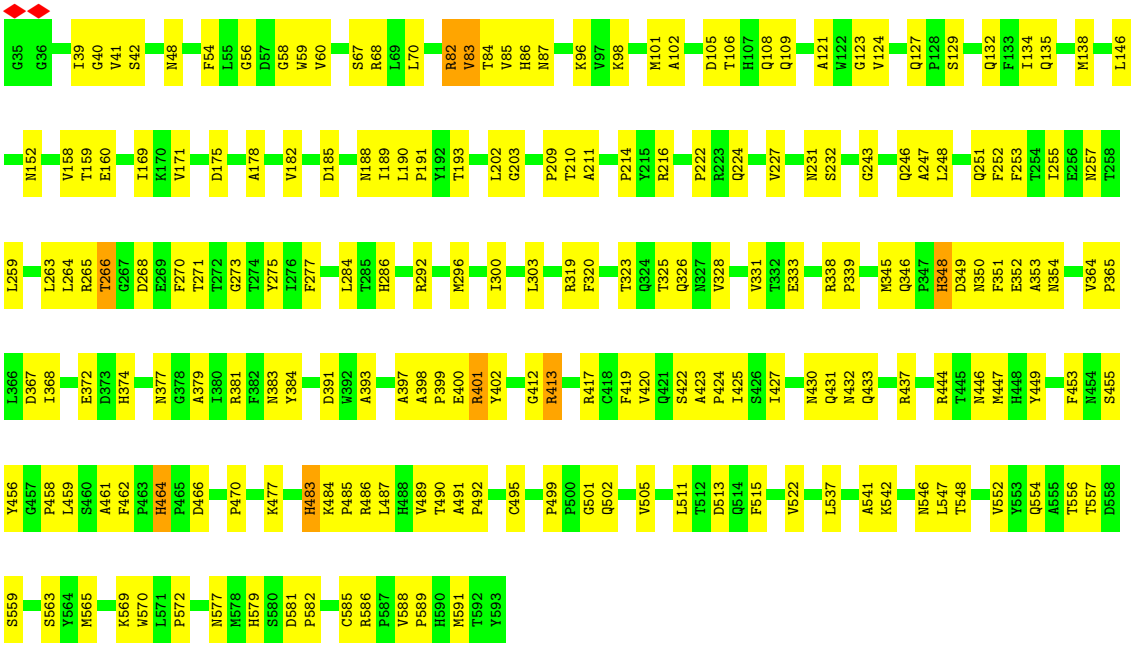
Chain Q:





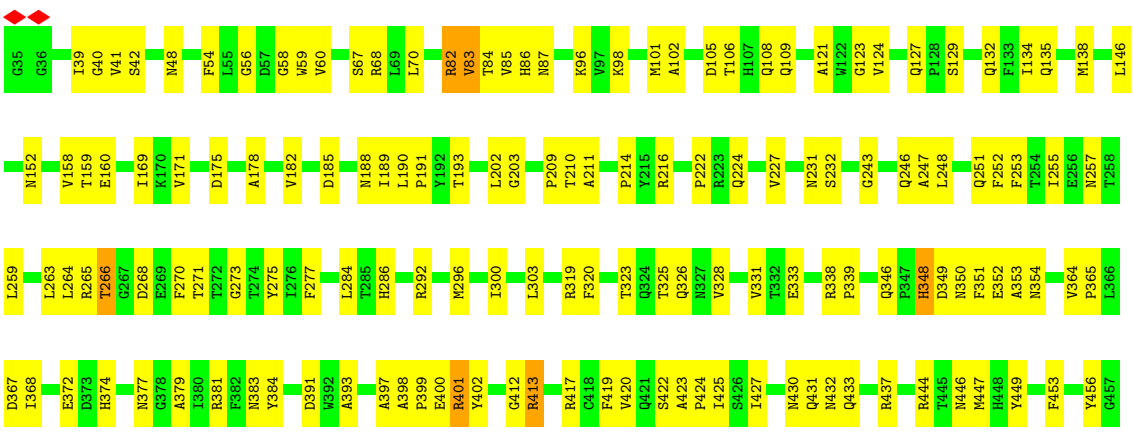
• Molecule 1: Major capsid protein

Chain R:



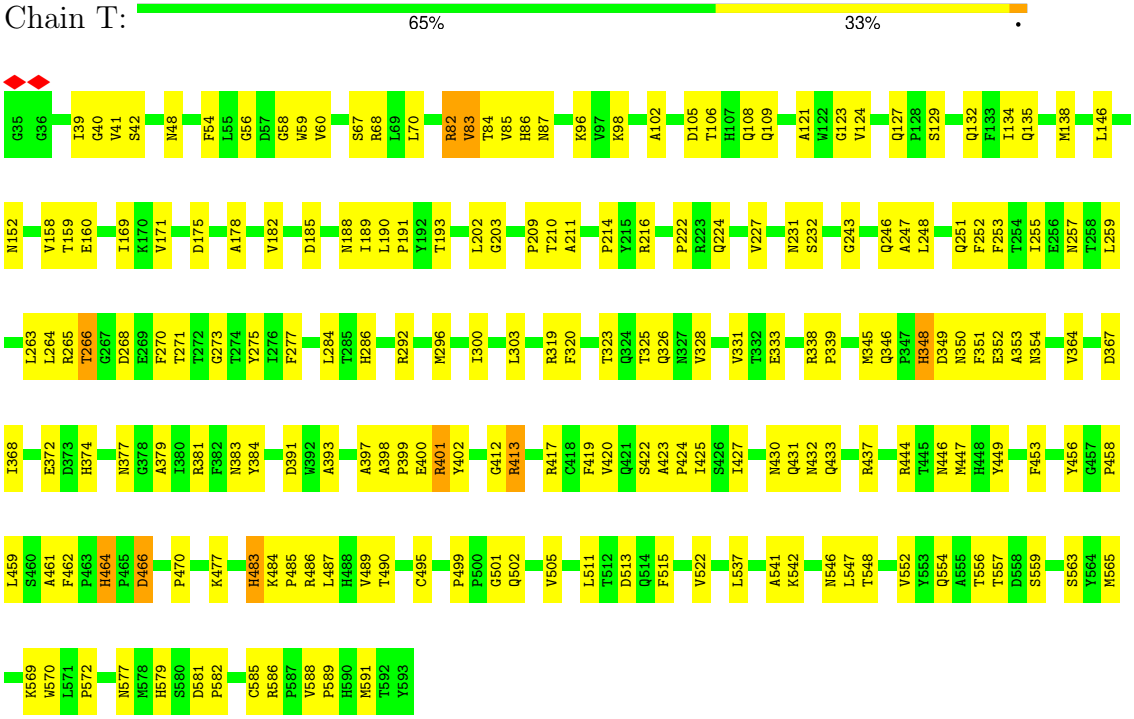
• Molecule 1: Major capsid protein

Chain S:



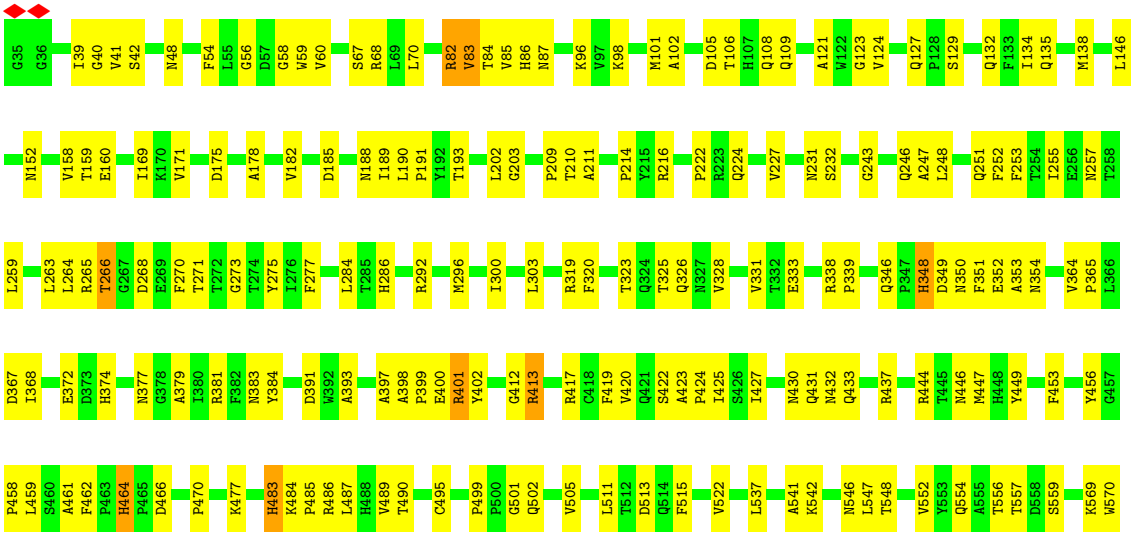
• Molecule 1: Major capsid protein

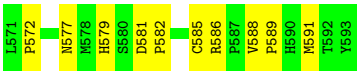
Chain T:



• Molecule 1: Major capsid protein

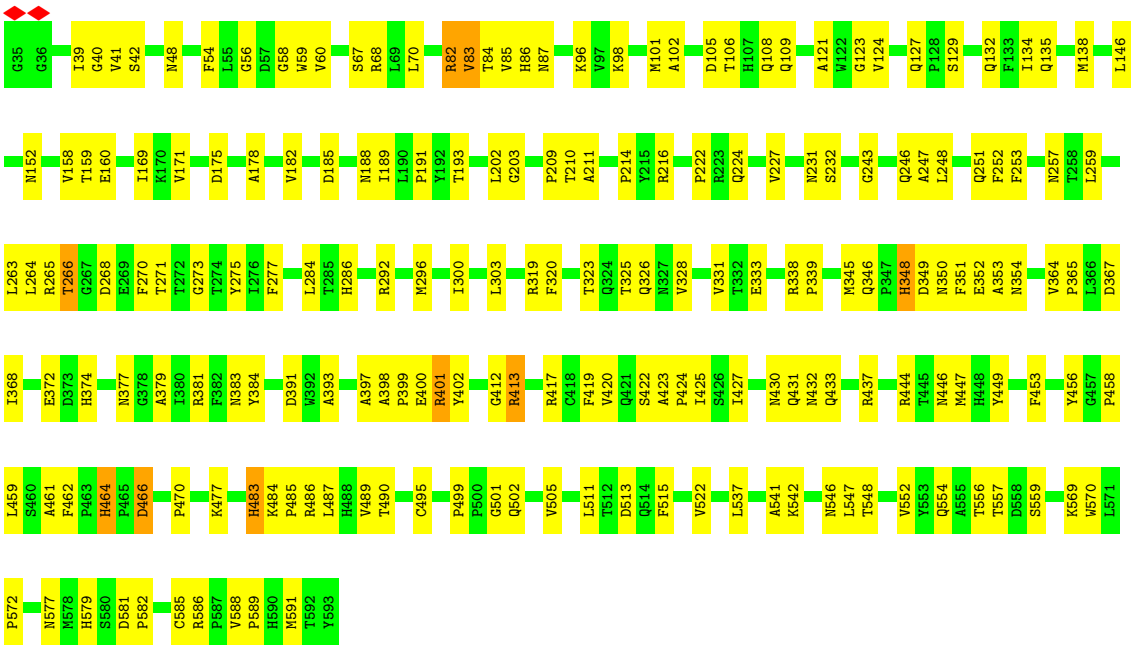
Chain U:





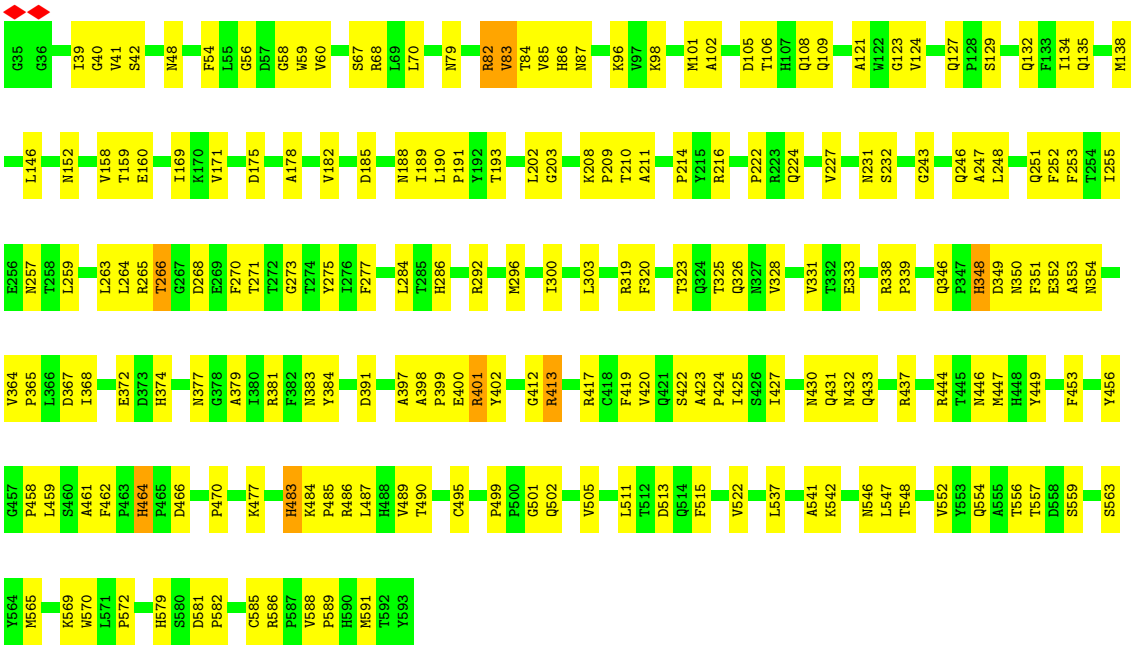
• Molecule 1: Major capsid protein

Chain V:



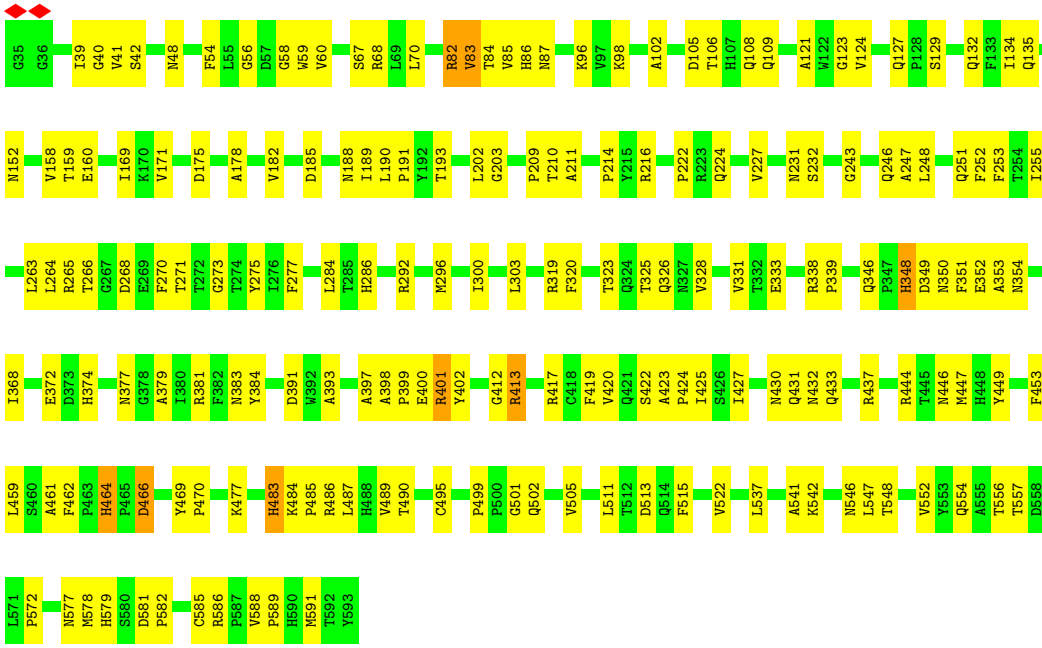
• Molecule 1: Major capsid protein

Chain W:



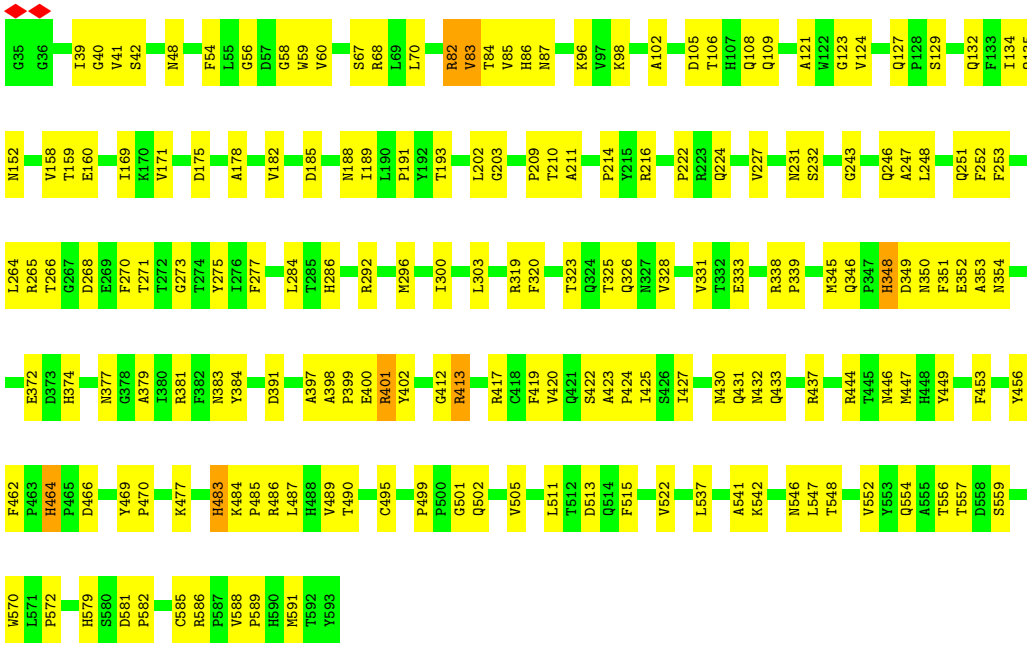
• Molecule 1: Major capsid protein

Chain X:



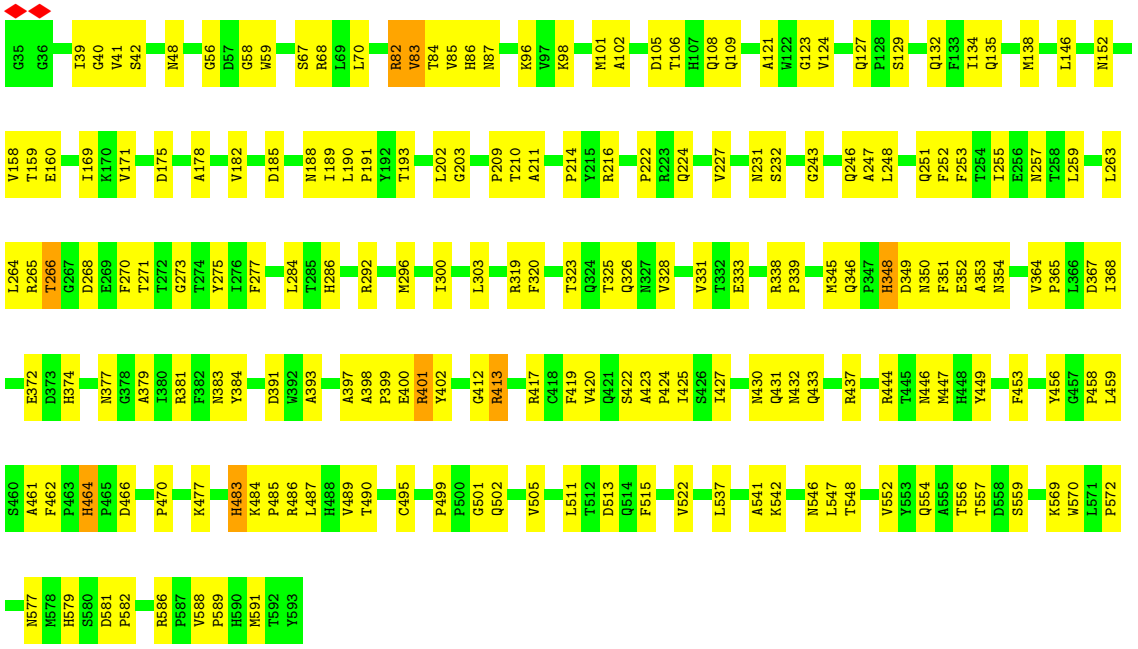
• Molecule 1: Major capsid protein

Chain Y:



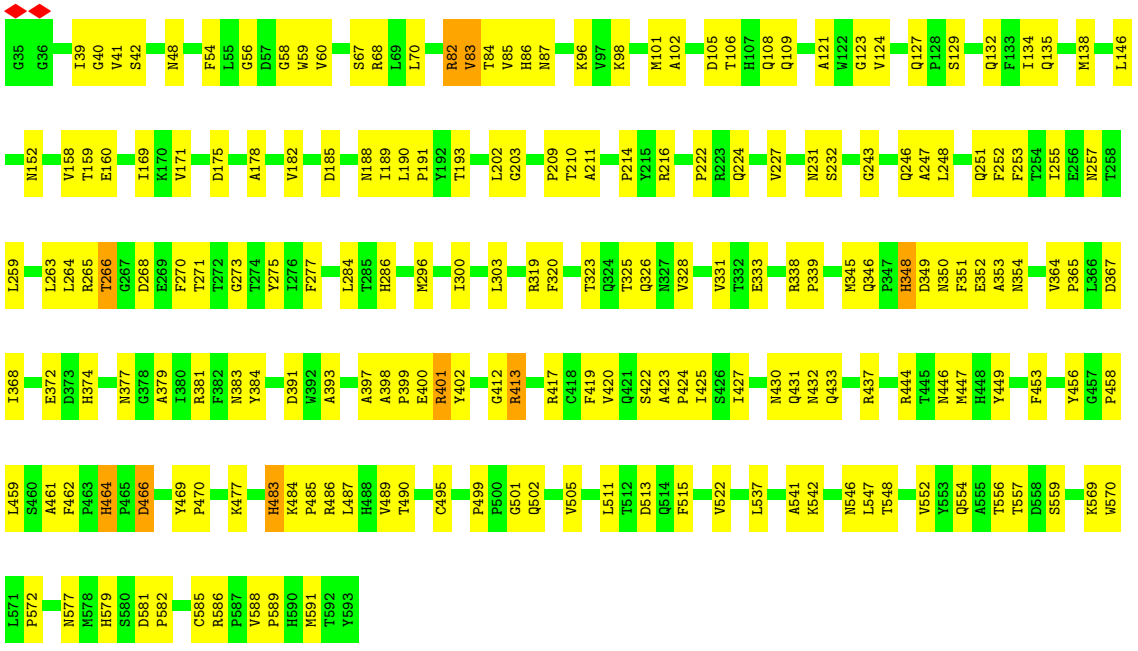
• Molecule 1: Major capsid protein

Chain Z:



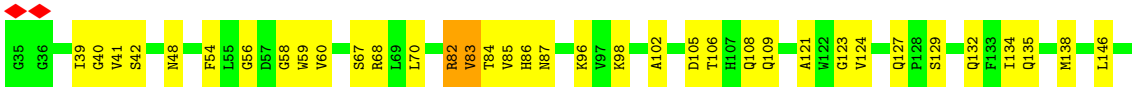
• Molecule 1: Major capsid protein

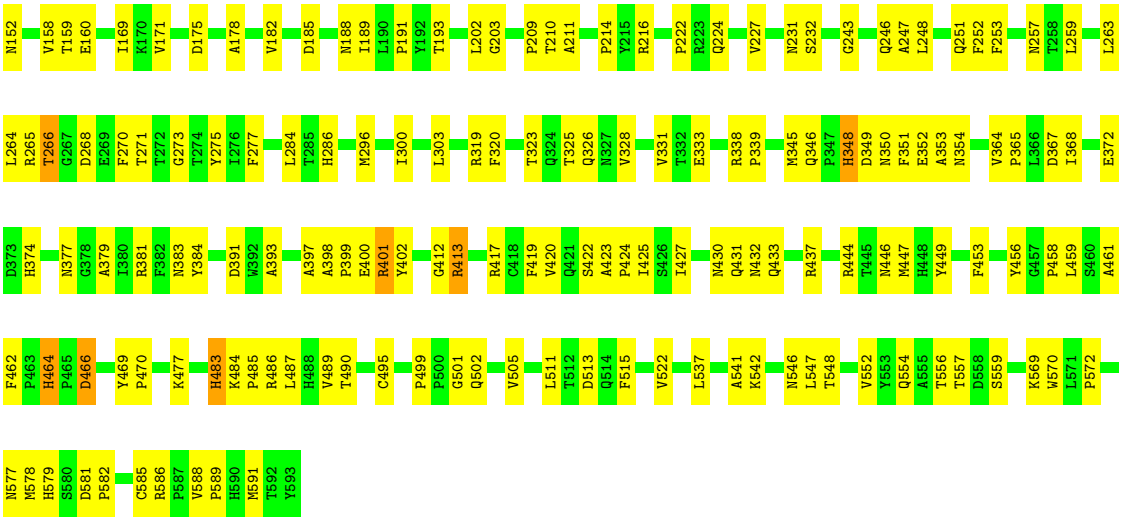
Chain a:



• Molecule 1: Major capsid protein

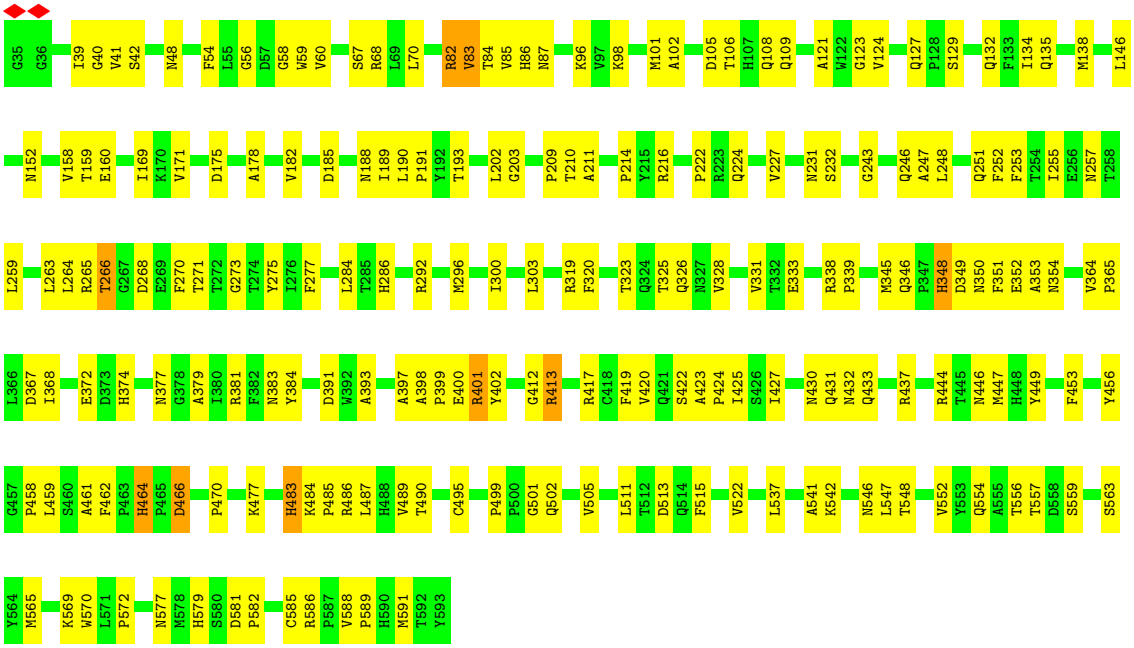
Chain b:





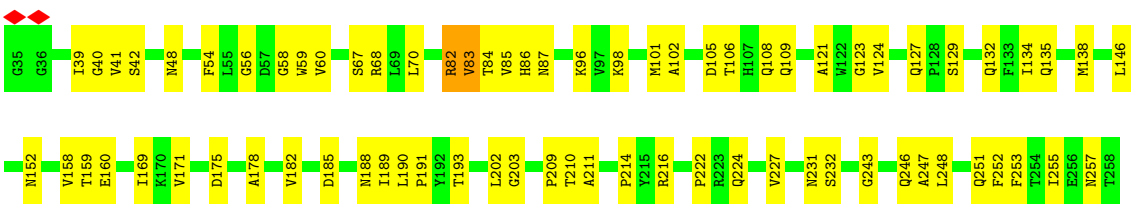
• Molecule 1: Major capsid protein

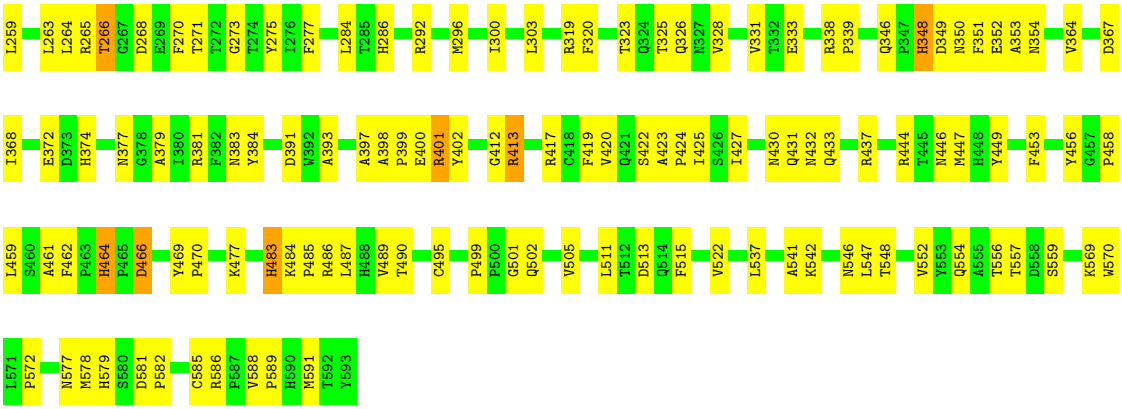
Chain c:



• Molecule 1: Major capsid protein

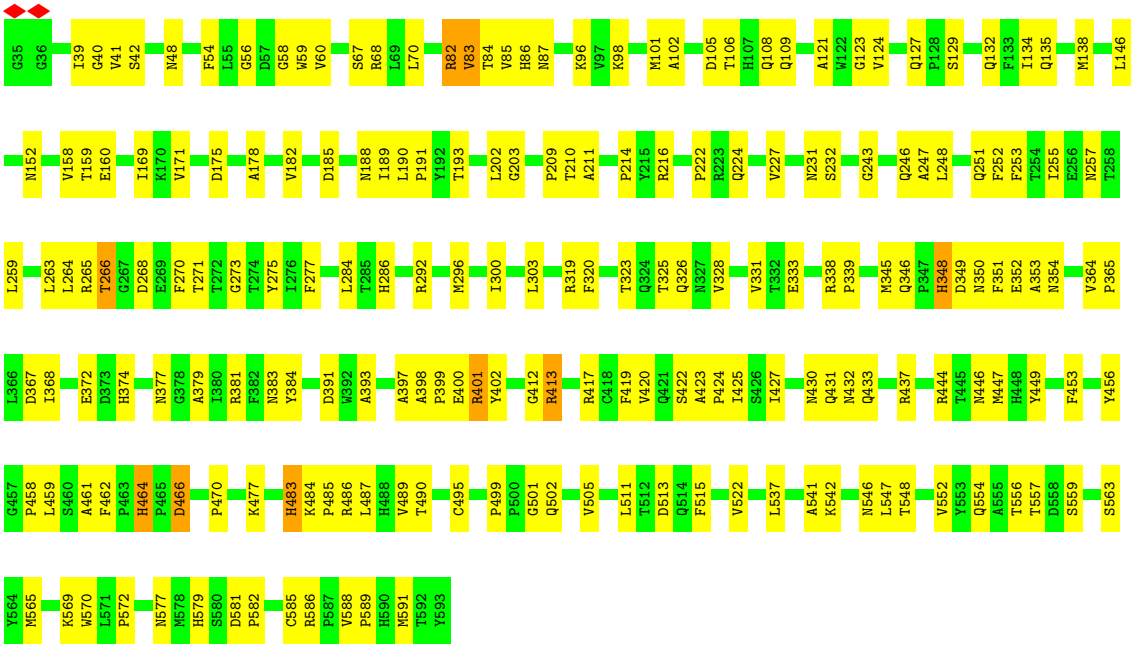
Chain d:





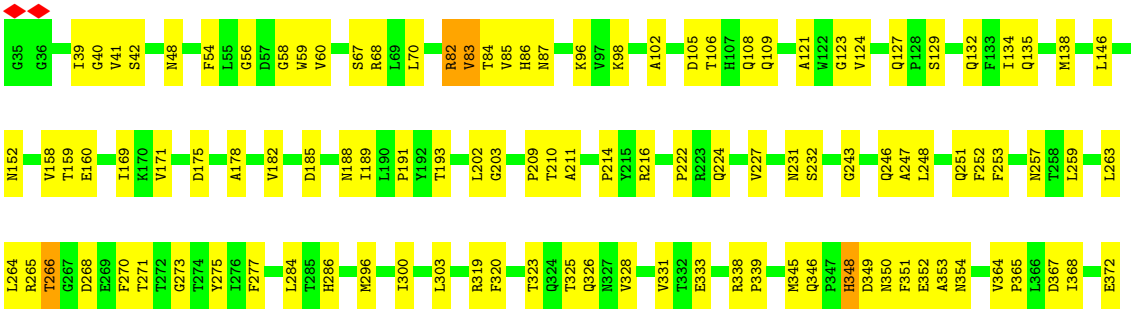
• Molecule 1: Major capsid protein

Chain e:



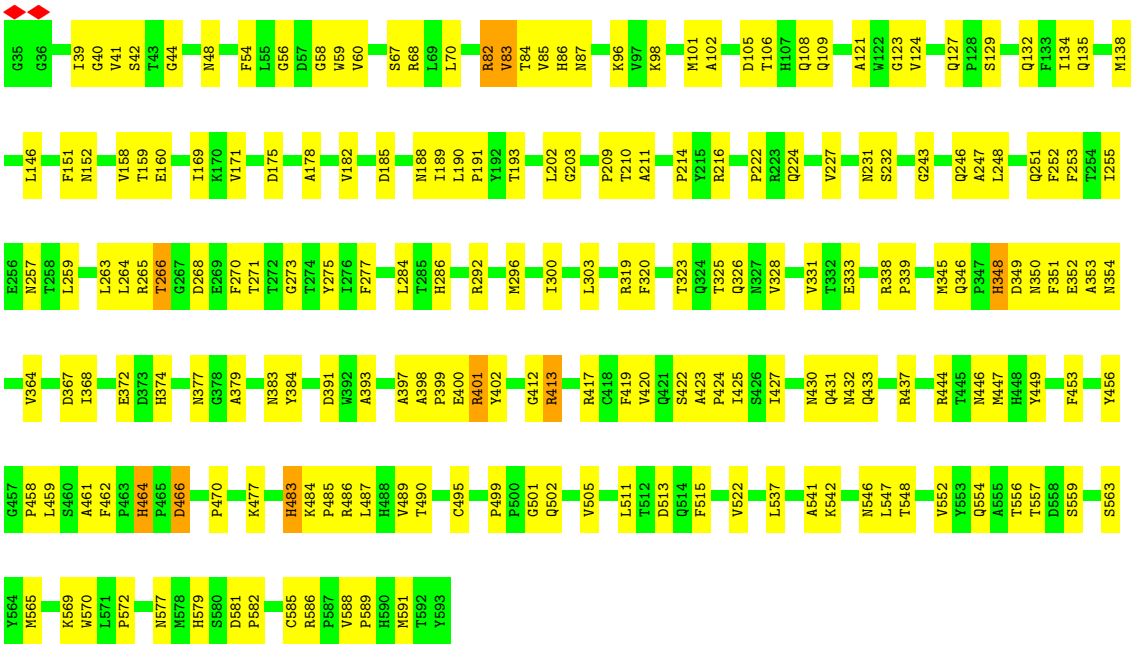
• Molecule 1: Major capsid protein

Chain f:



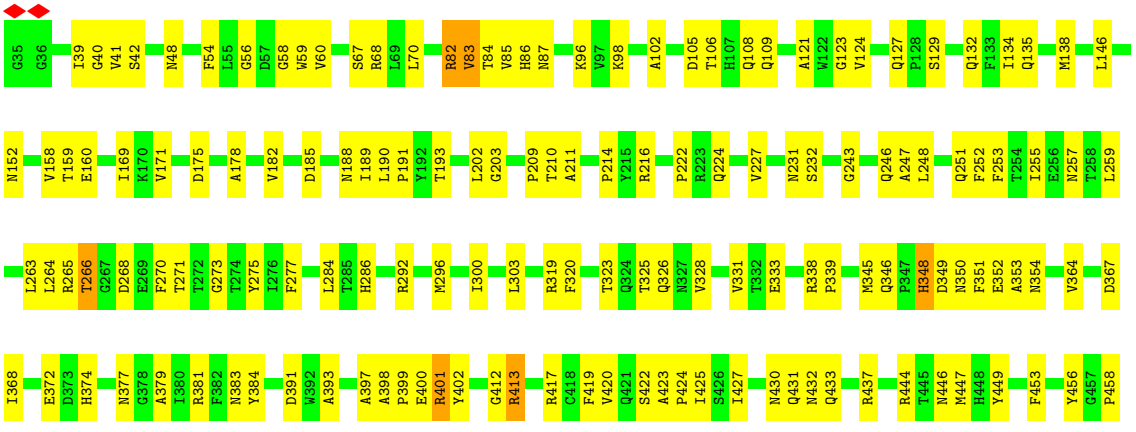
• Molecule 1: Major capsid protein

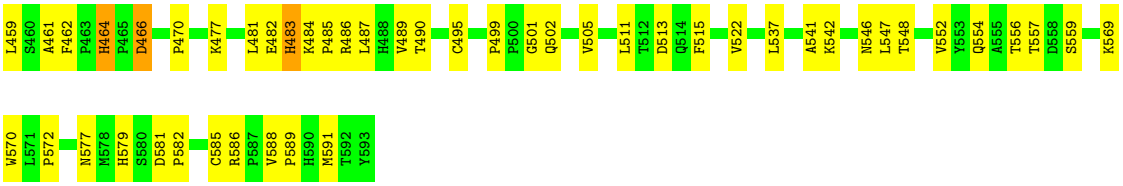
Chain g:



• Molecule 1: Major capsid protein

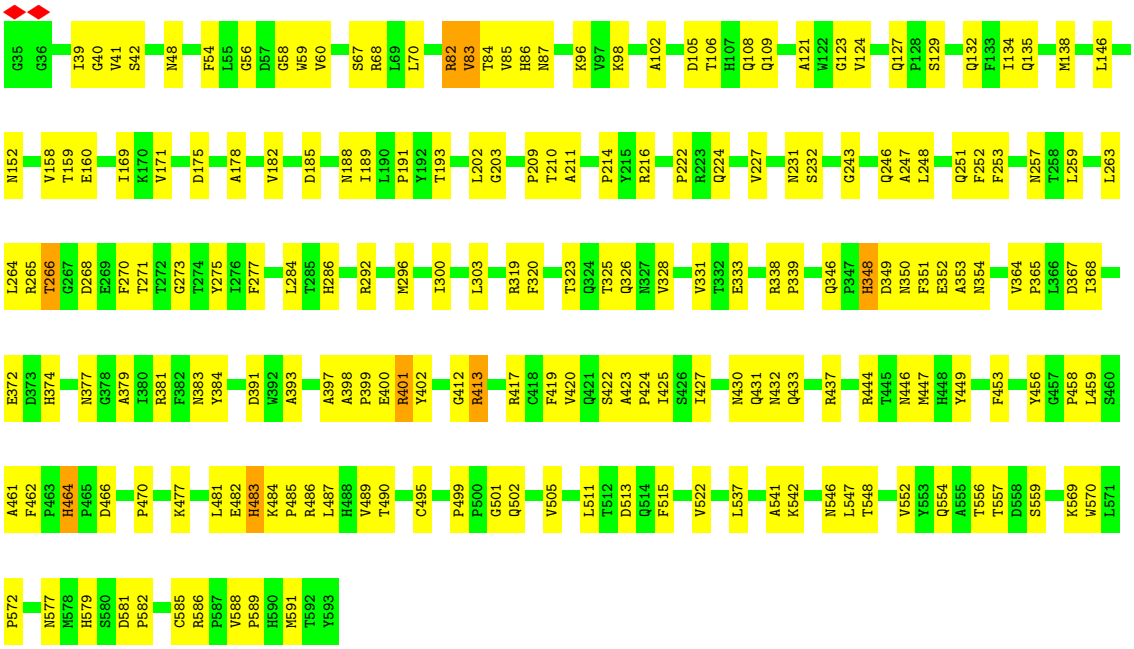
Chain h:





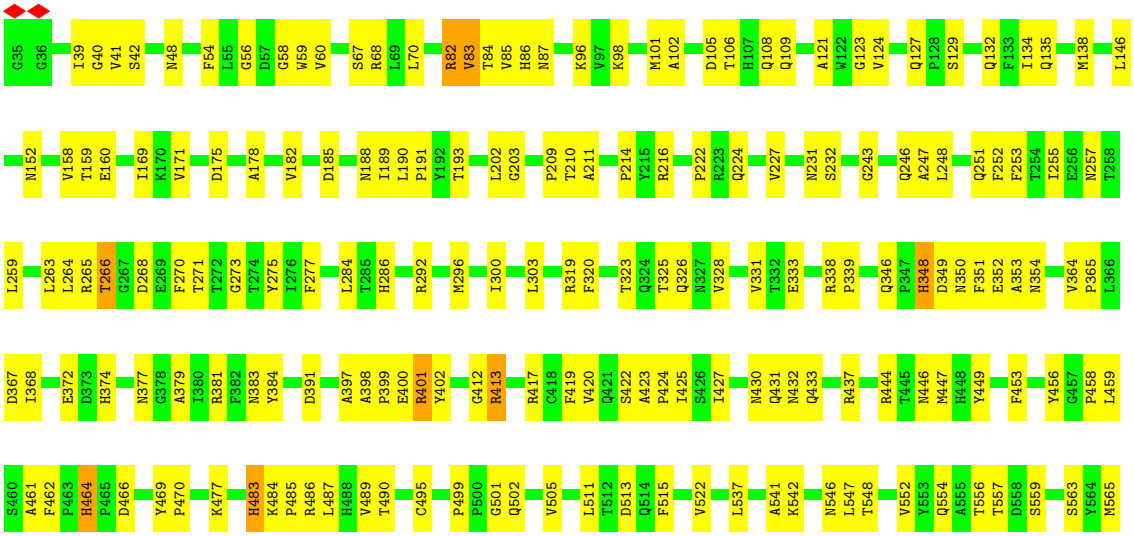
• Molecule 1: Major capsid protein

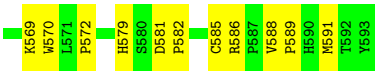
Chain i:



• Molecule 1: Major capsid protein

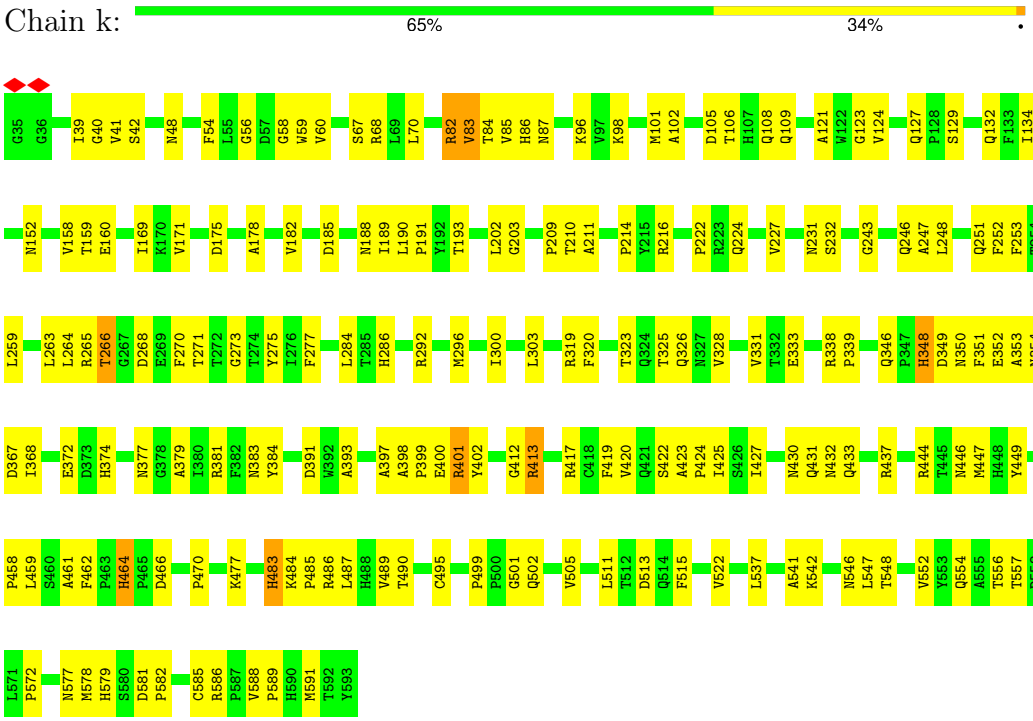
Chain j:





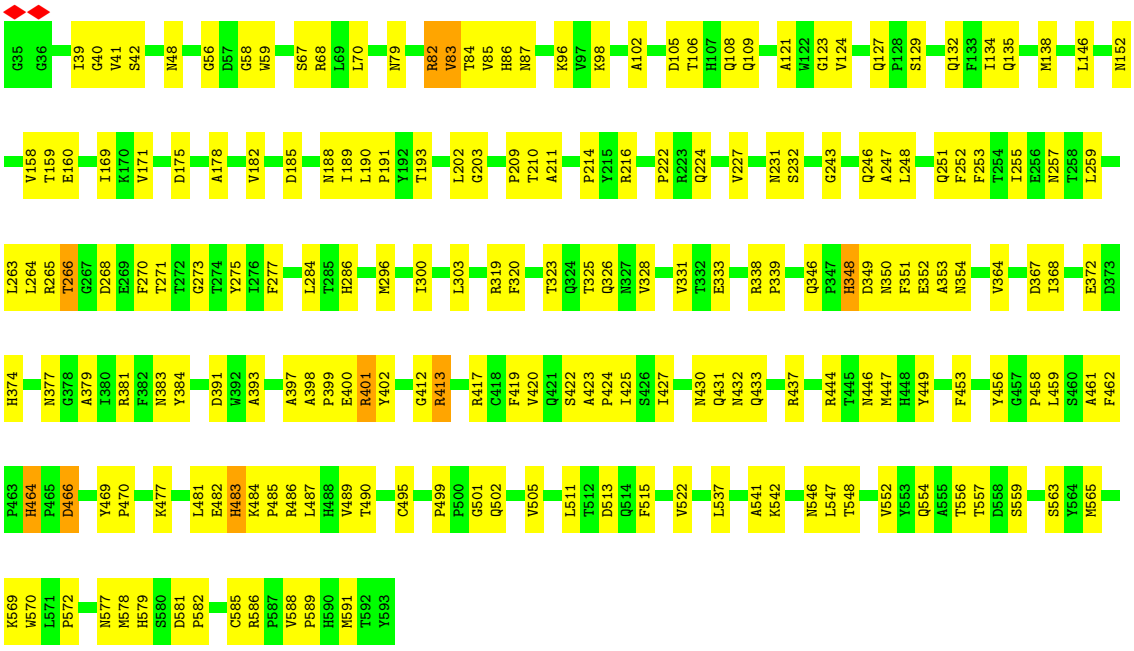
• Molecule 1: Major capsid protein

Chain k:



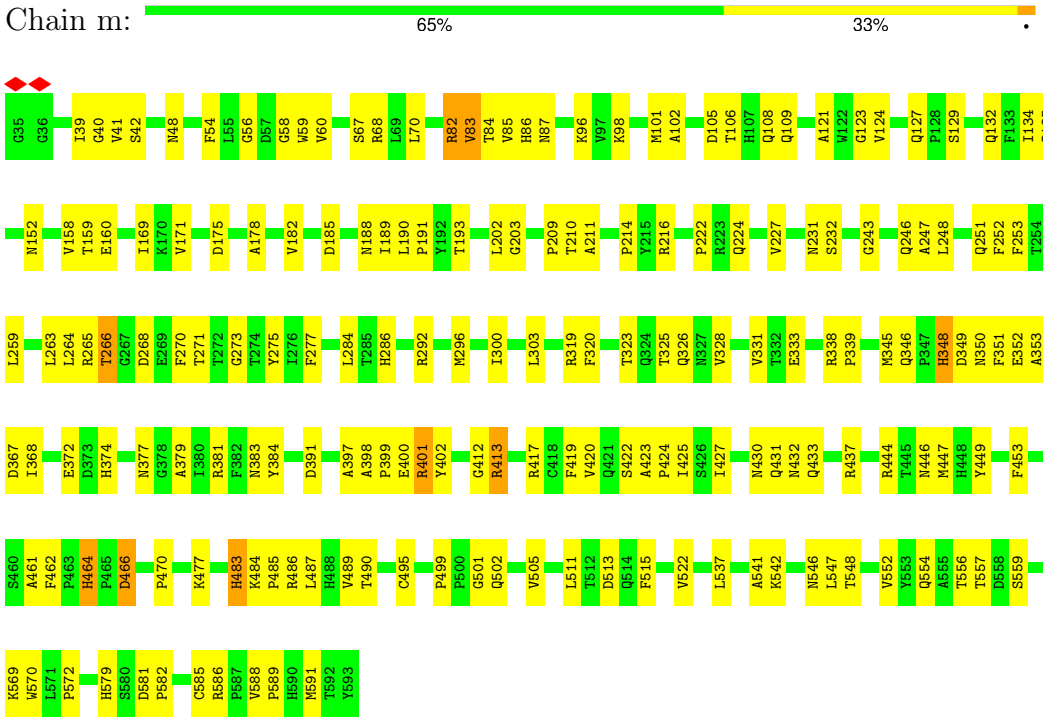
• Molecule 1: Major capsid protein

Chain l:



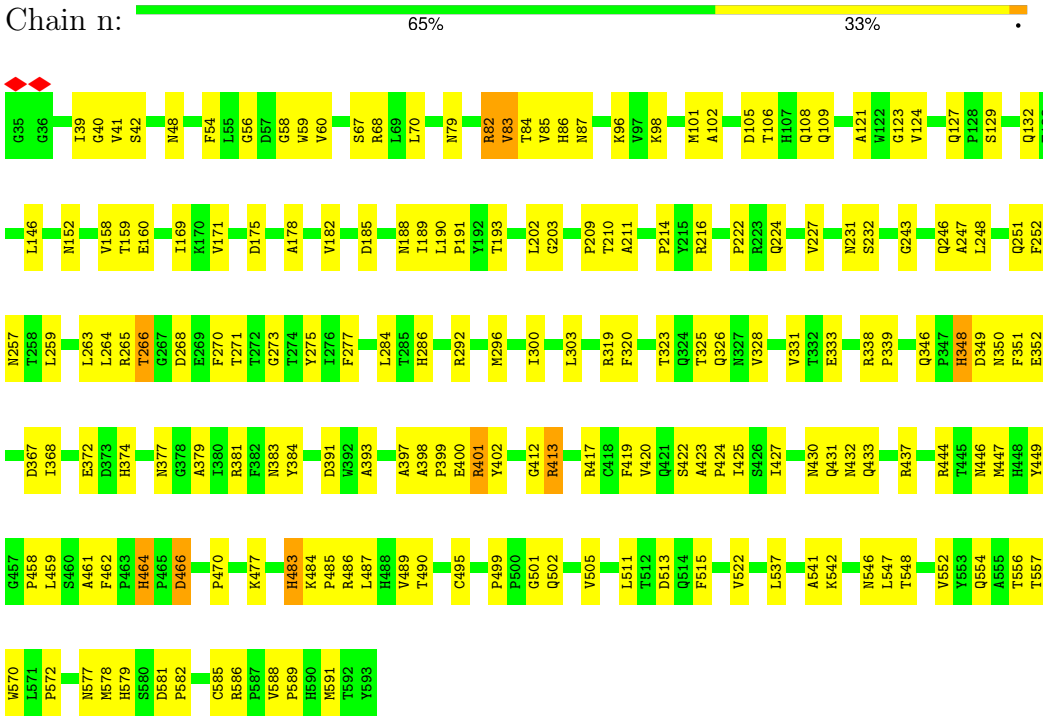
• Molecule 1: Major capsid protein

Chain m:



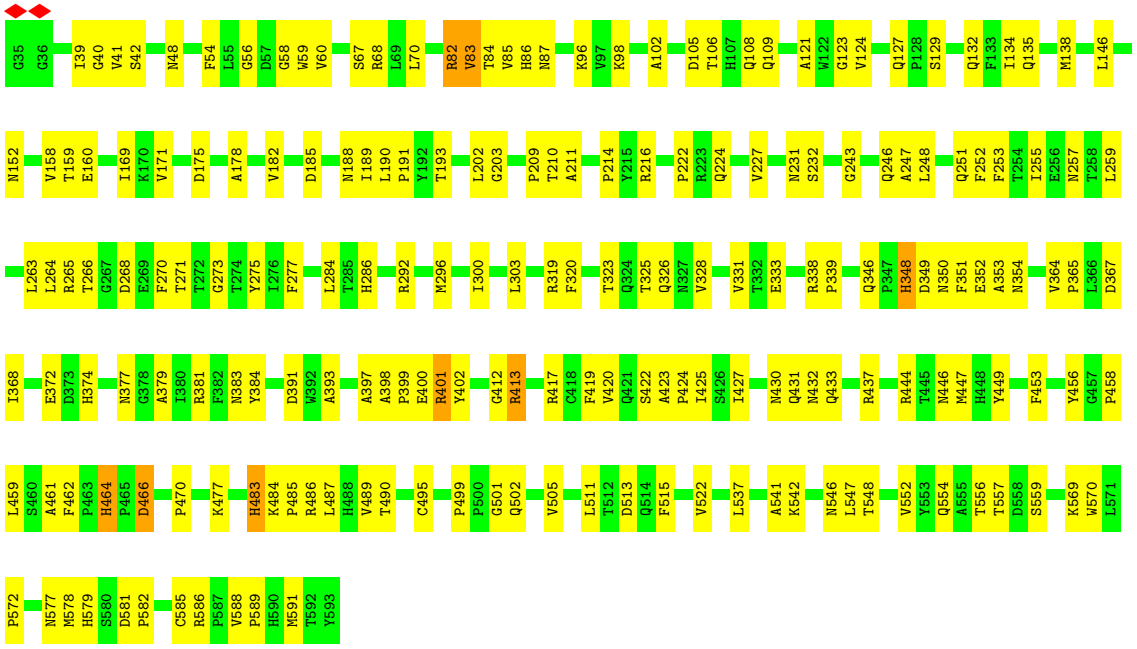
• Molecule 1: Major capsid protein

Chain n:



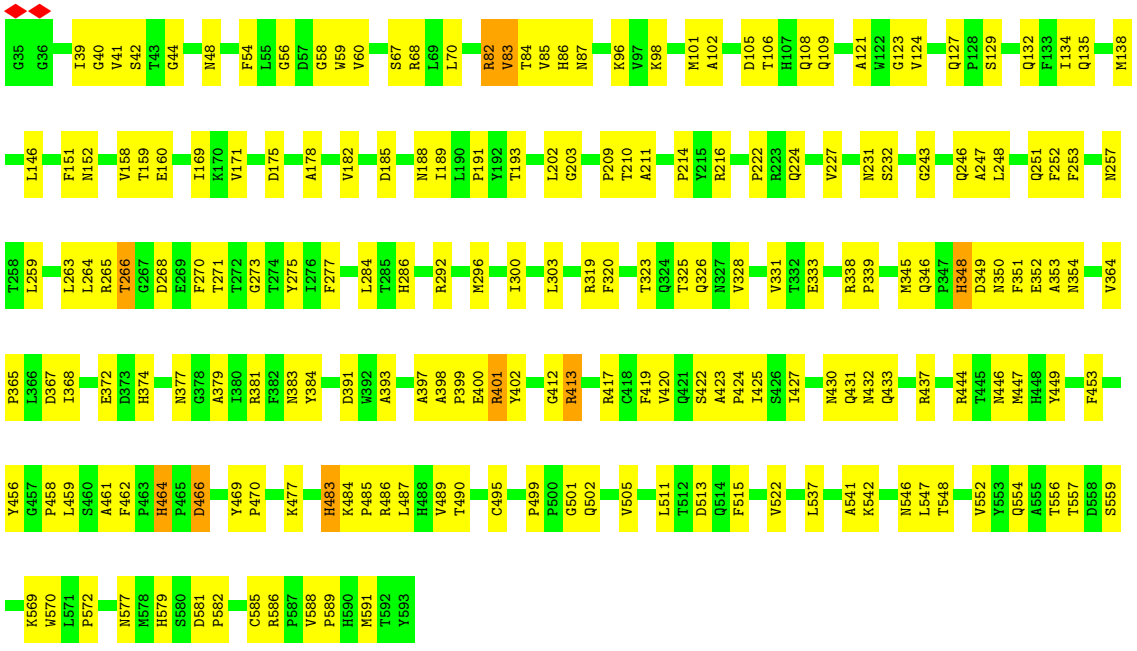
• Molecule 1: Major capsid protein

Chain o:



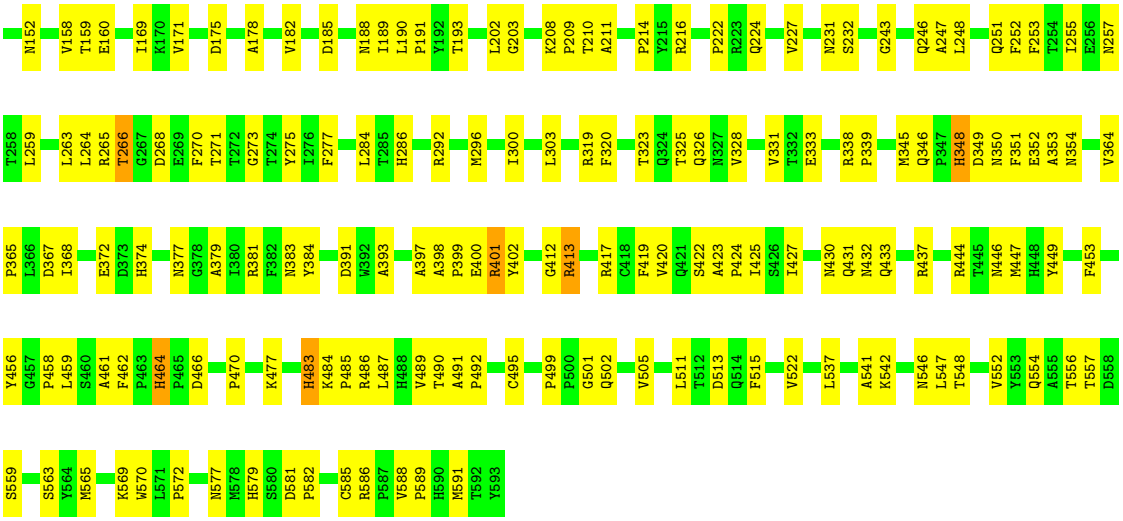
• Molecule 1: Major capsid protein

Chain p:



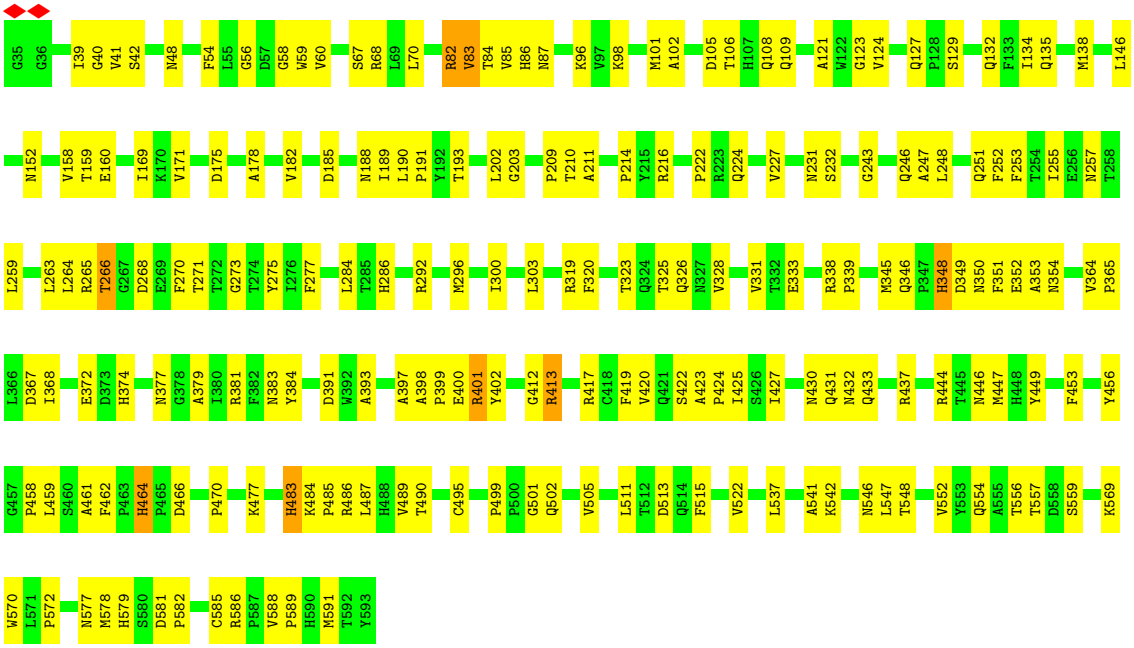
• Molecule 1: Major capsid protein

Chain q:



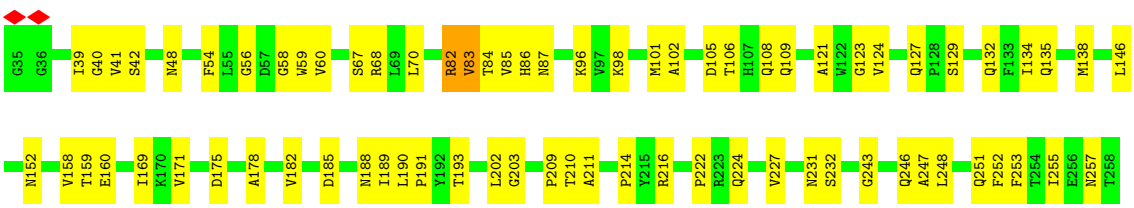
• Molecule 1: Major capsid protein

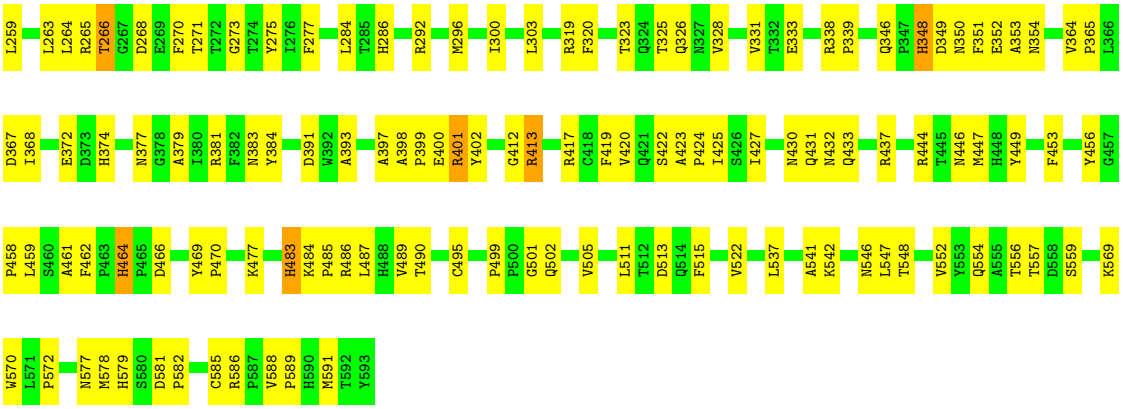
Chain r:



• Molecule 1: Major capsid protein

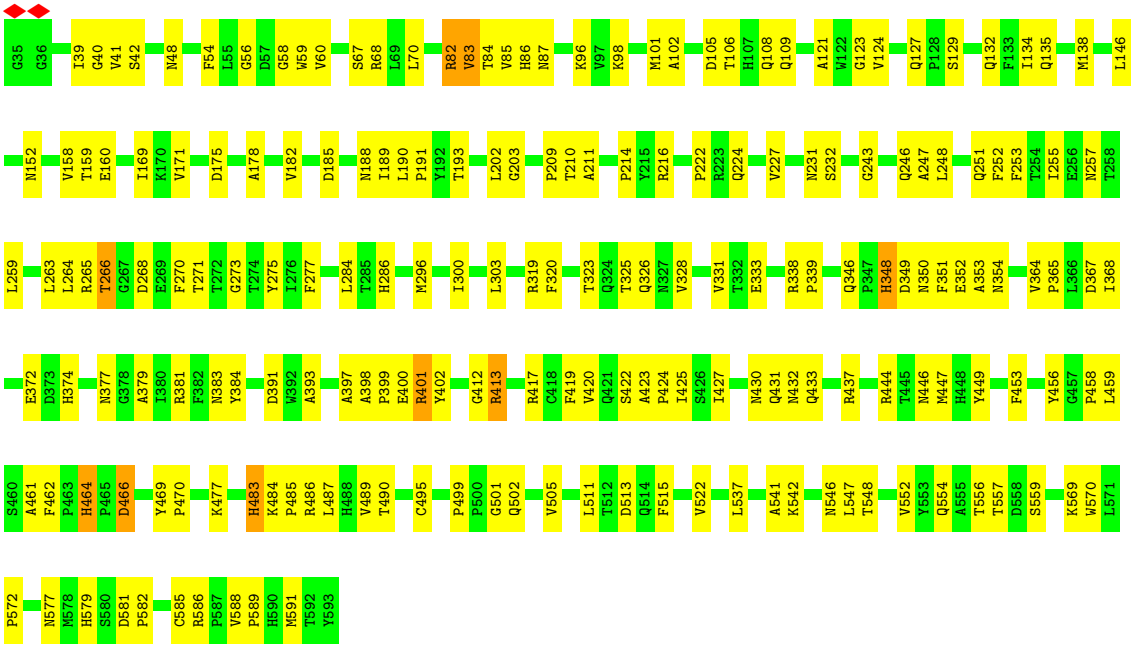
Chain s:





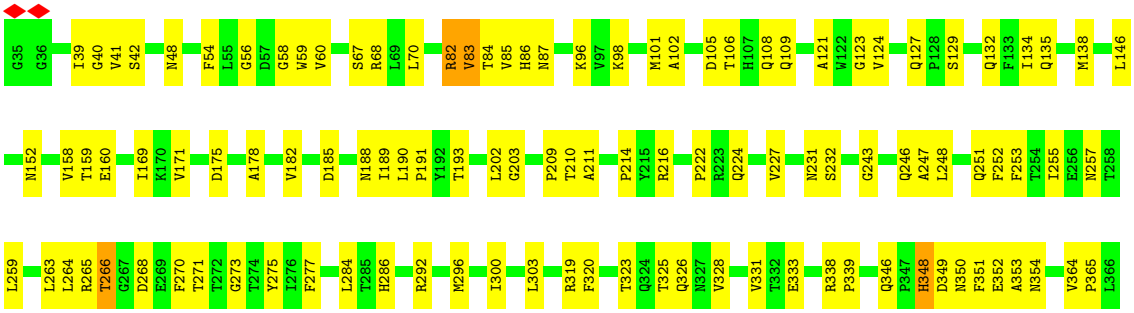
• Molecule 1: Major capsid protein

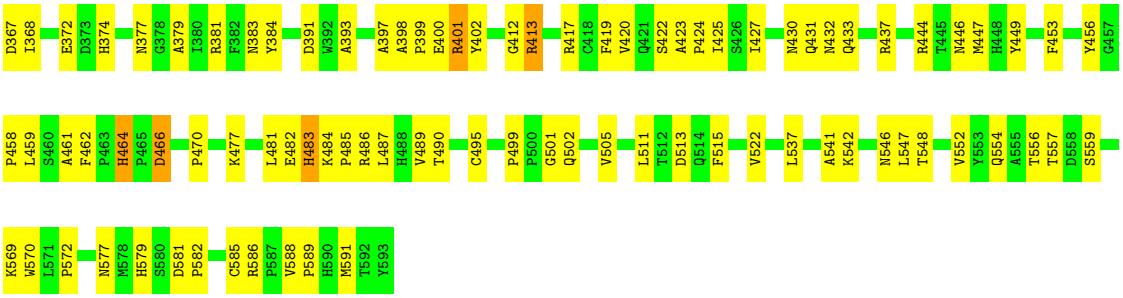
Chain t:



• Molecule 1: Major capsid protein

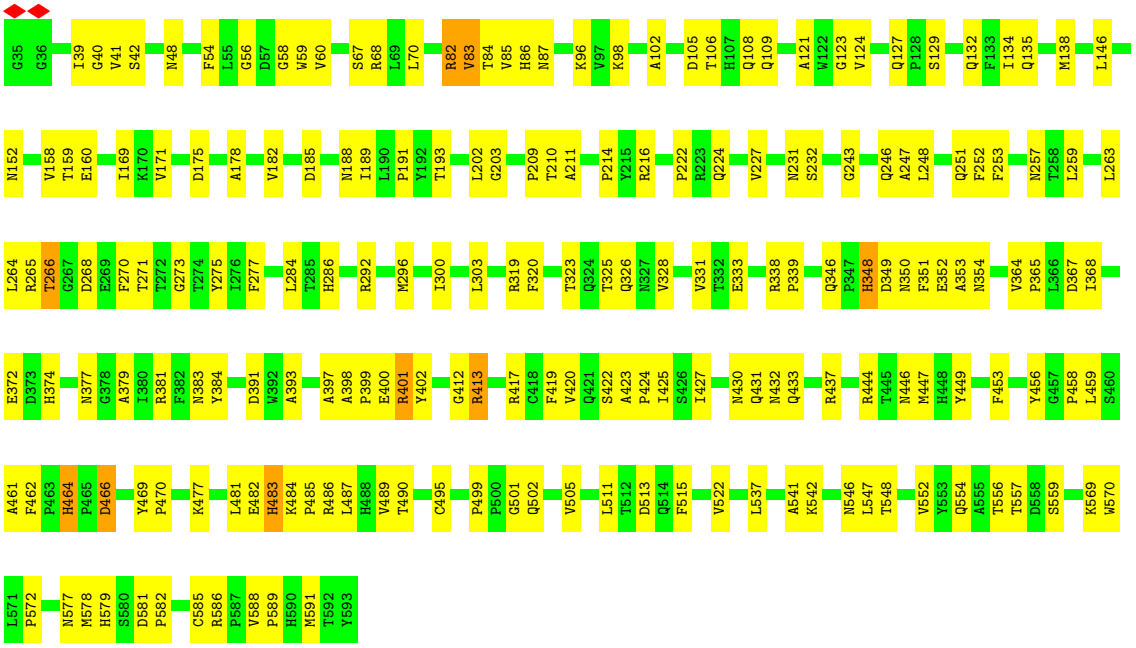
Chain u:





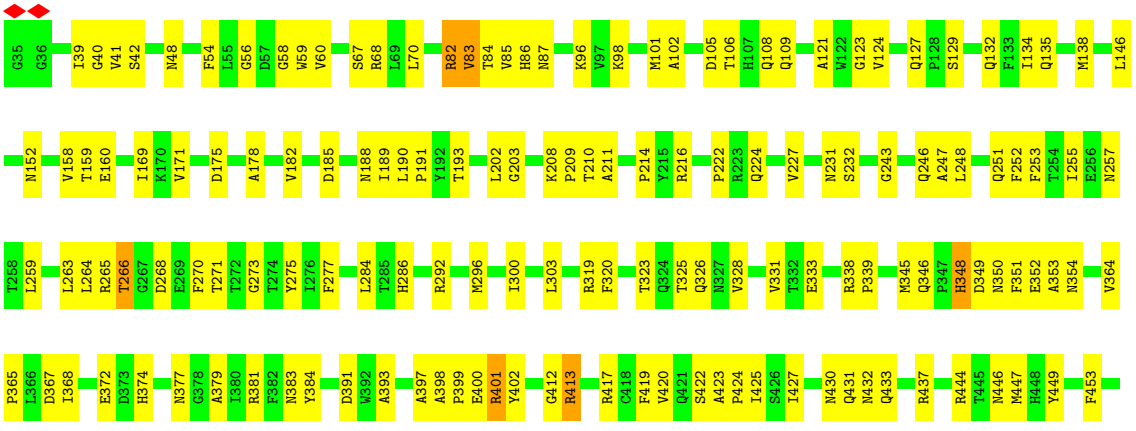
• Molecule 1: Major capsid protein

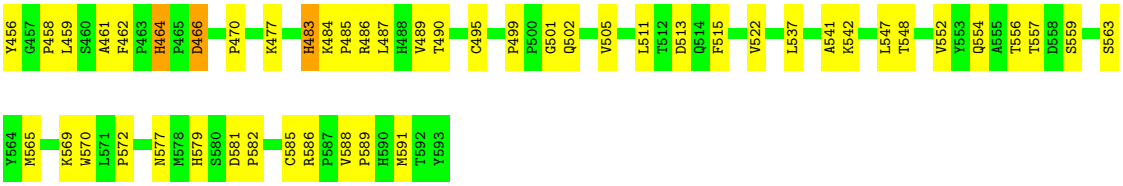
Chain v:



• Molecule 1: Major capsid protein

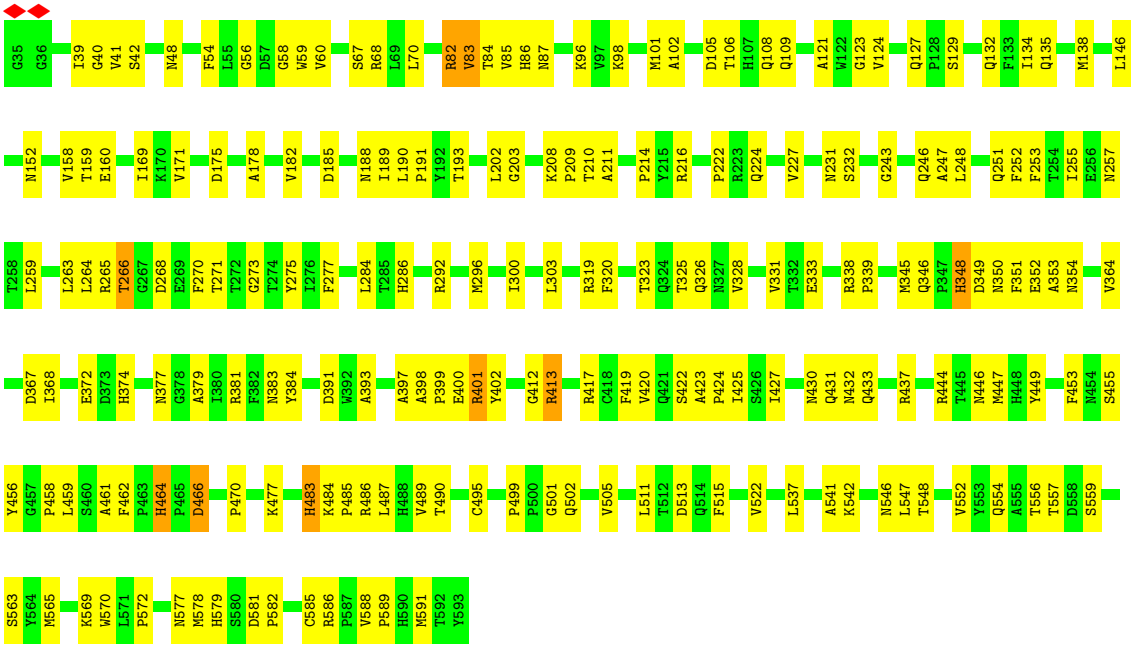
Chain w:





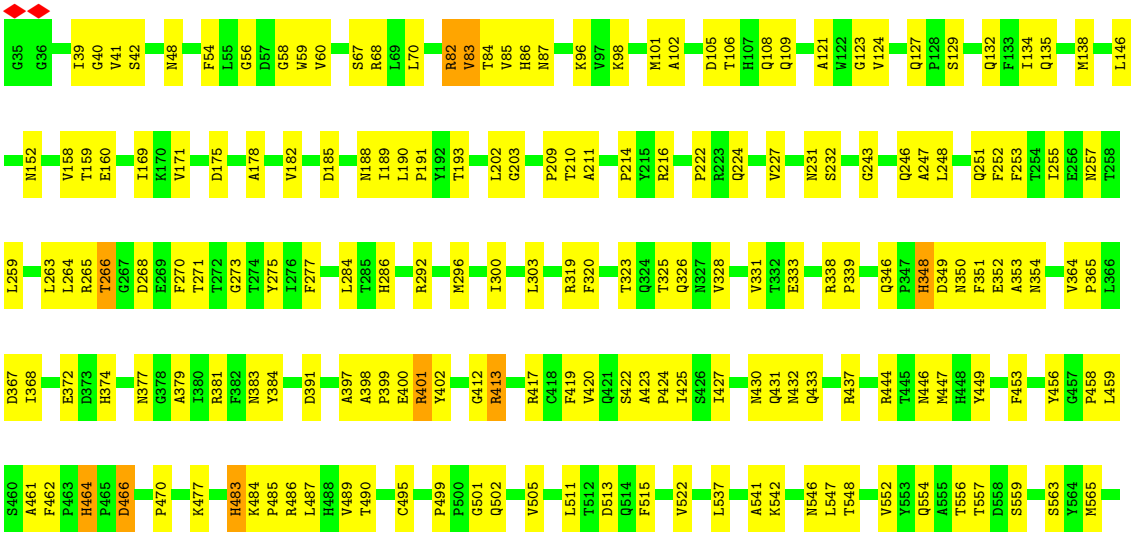
• Molecule 1: Major capsid protein

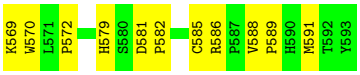
Chain x:



• Molecule 1: Major capsid protein

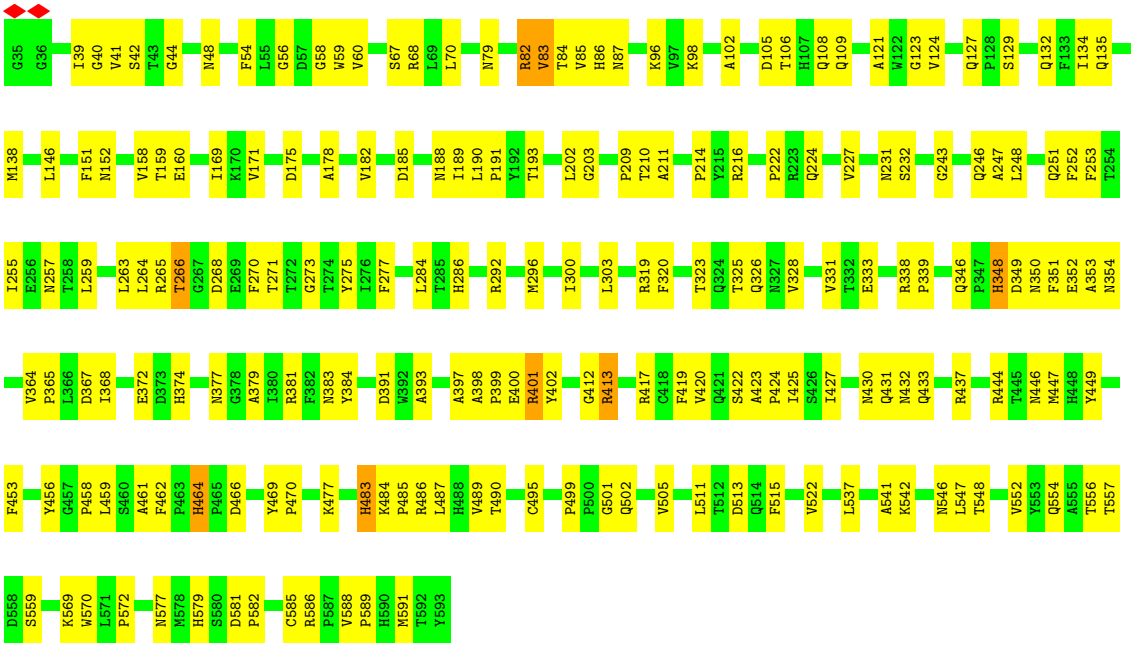
Chain y:





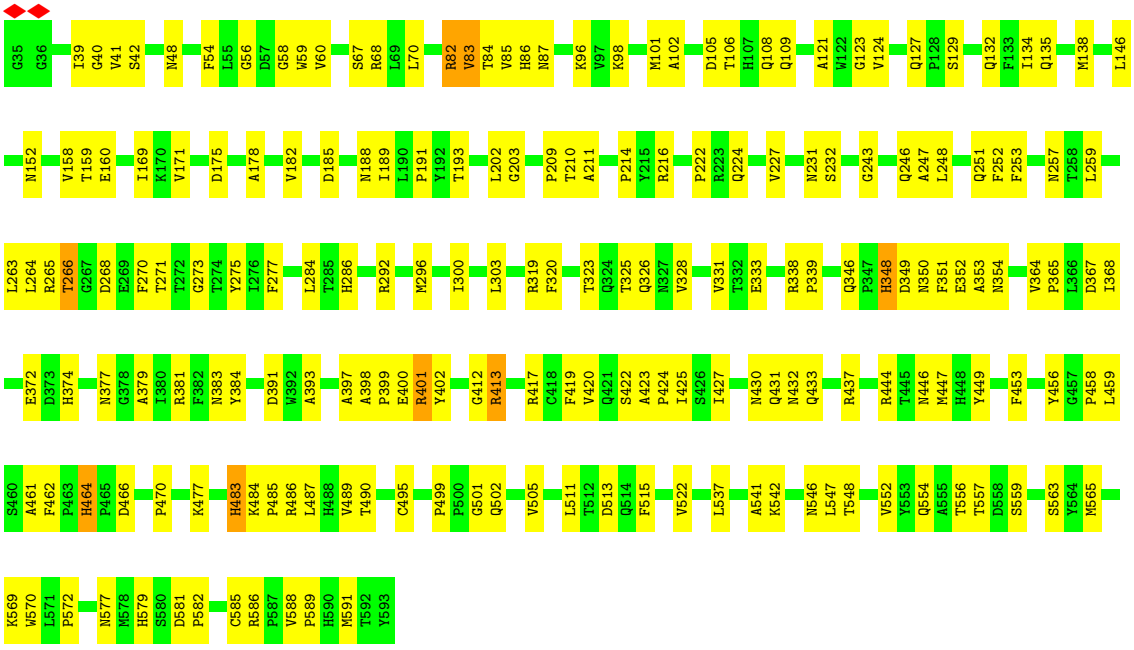
• Molecule 1: Major capsid protein

Chain z:



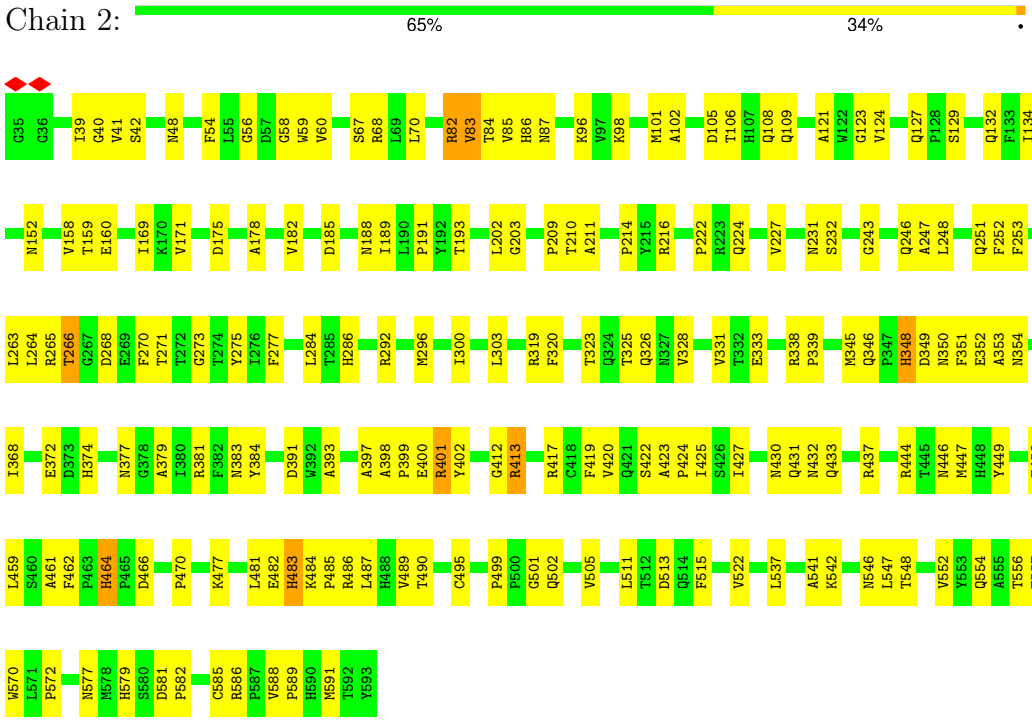
• Molecule 1: Major capsid protein

Chain 1:



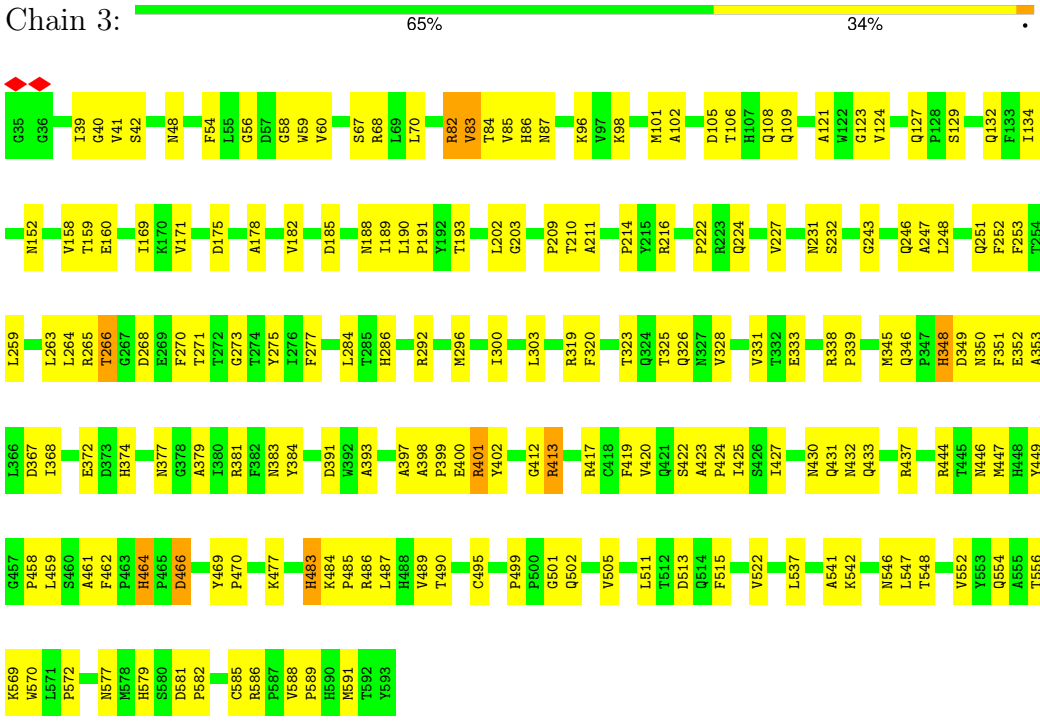
• Molecule 1: Major capsid protein

Chain 2:



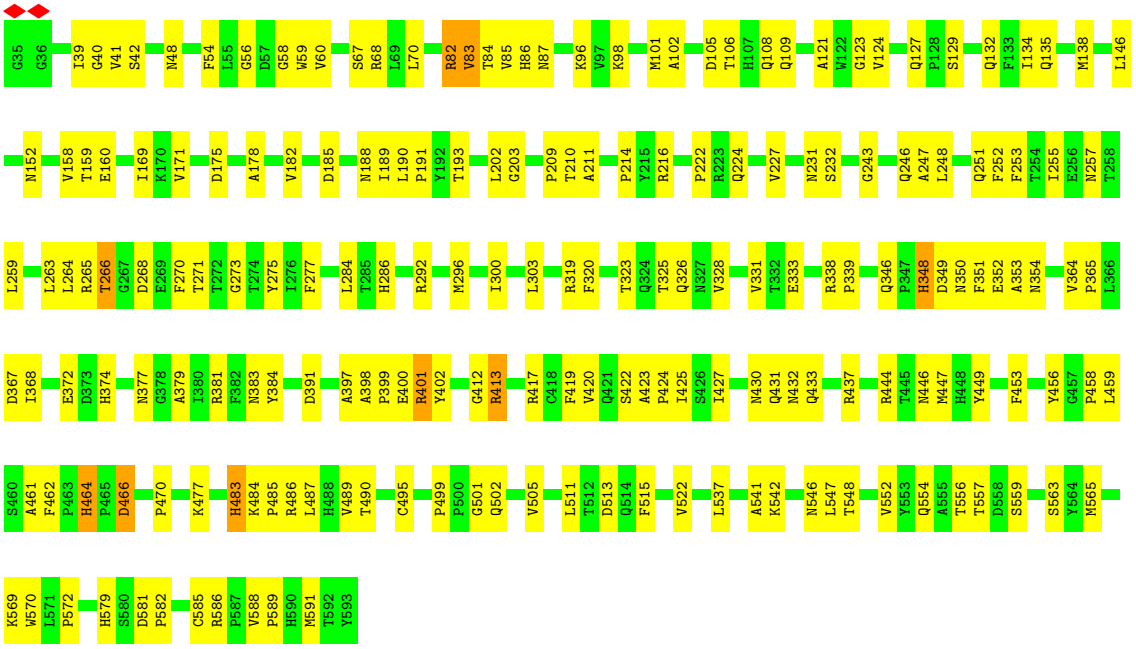
• Molecule 1: Major capsid protein

Chain 3:



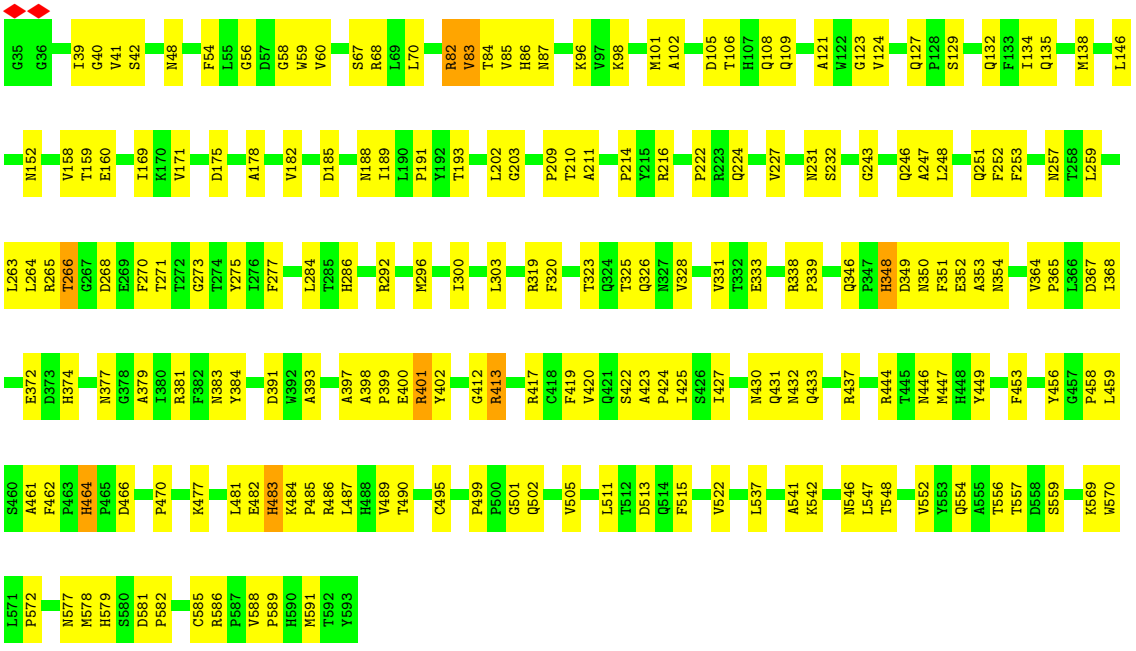
• Molecule 1: Major capsid protein

Chain 4:



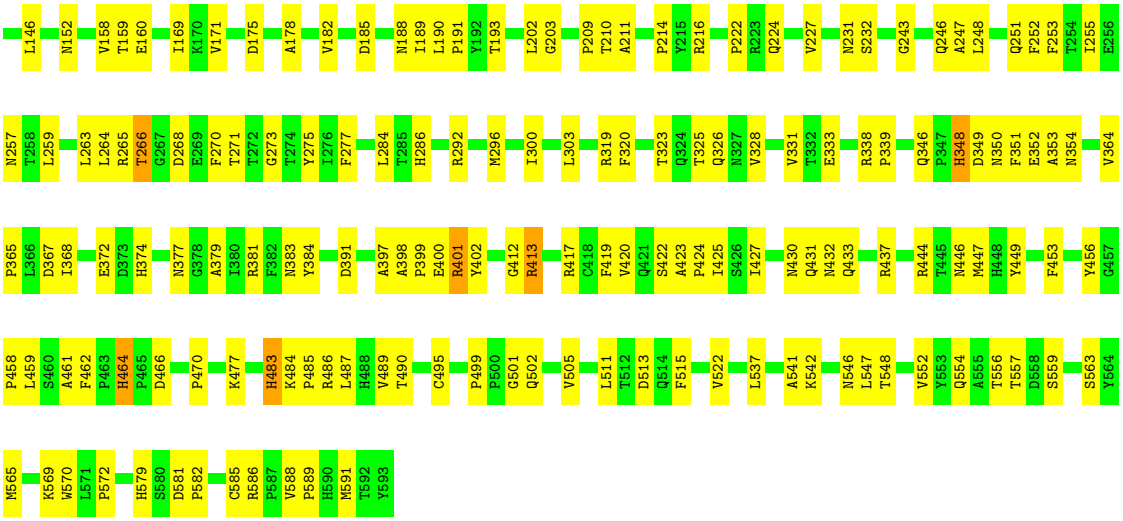
• Molecule 1: Major capsid protein

Chain 5:



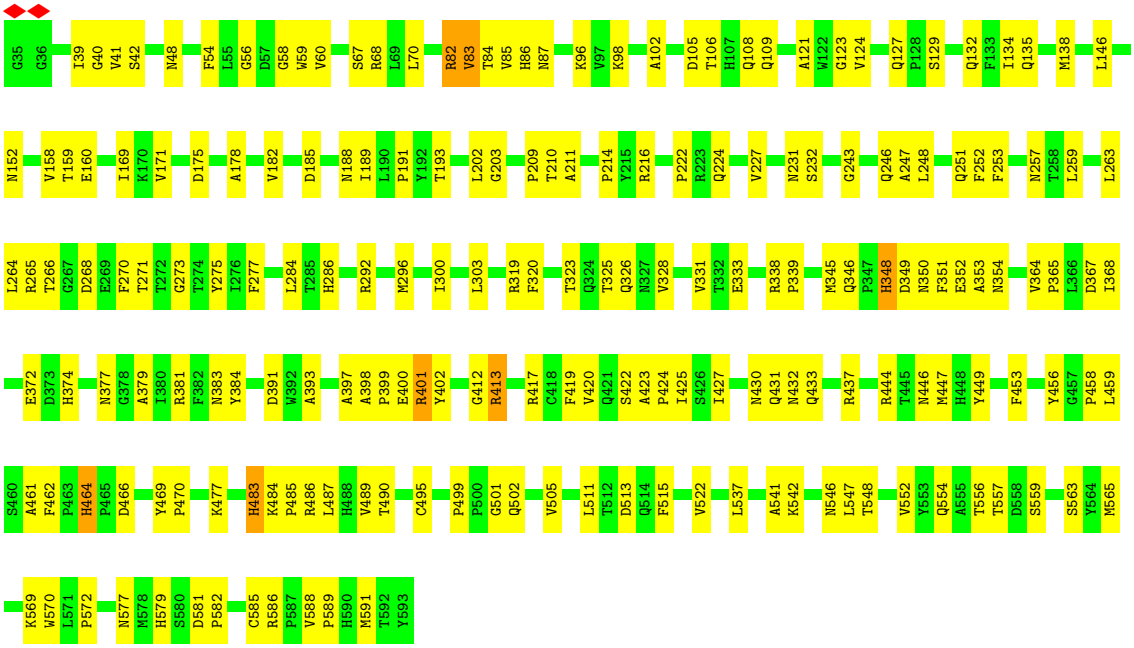
• Molecule 1: Major capsid protein

Chain 6:



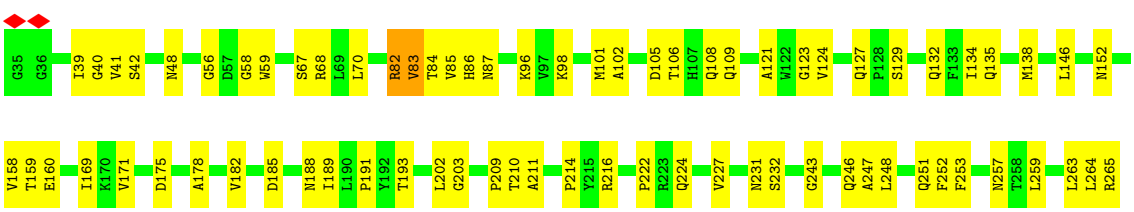
• Molecule 1: Major capsid protein

Chain 7:



• Molecule 1: Major capsid protein

Chain 8:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

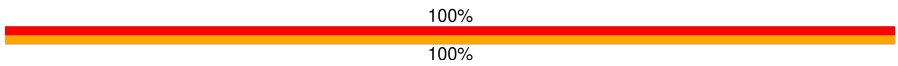
Chain 9:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain AA:

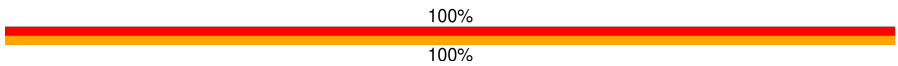
• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain CA:



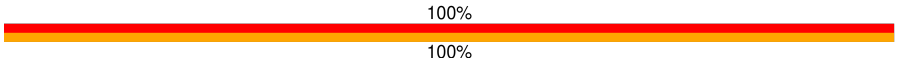
• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain DA:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain FA:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain GA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain IA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain JA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain LA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

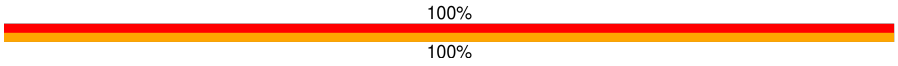
Chain MA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain OA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain PA:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain RA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain SA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain UA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain VA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain XA: 

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain YA: 

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain aA: 

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

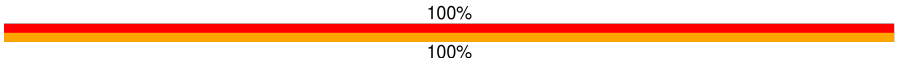
Chain bA: 

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain dA: 

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain eA:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

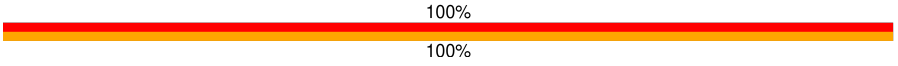
Chain gA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain hA:

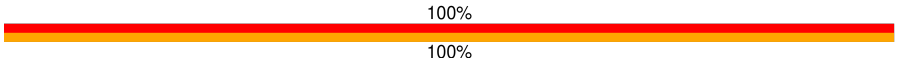
• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain jA:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain kA:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain mA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain nA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain pA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain qA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

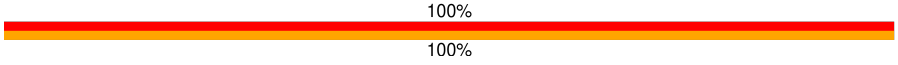
Chain sA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain tA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain vA:

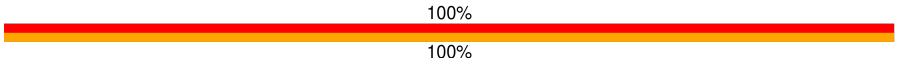


• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain wA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain yA:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain zA:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

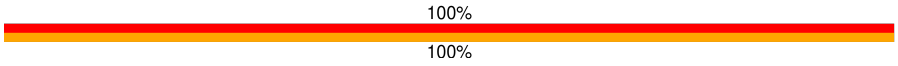
Chain 1A:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain 2A:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain 4A:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain 5A:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain 7A:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain 8A:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

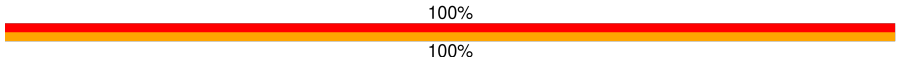
Chain AB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain BB:

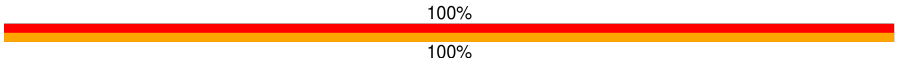
• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain DB:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain EB:



• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain GB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain HB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain JB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain KB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain MB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain NB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain PB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

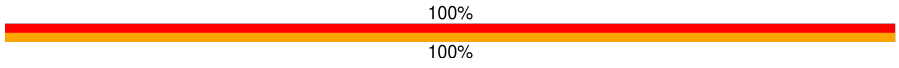
Chain QB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain SB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain TB:

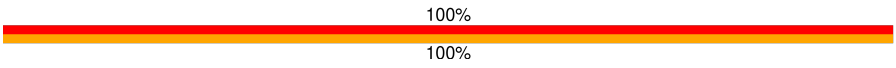


• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain VB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain WB:

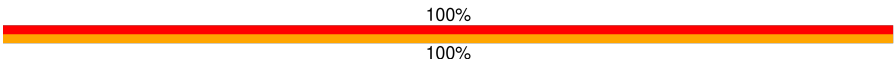


• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain YB:

• Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-alpha-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain ZB:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	30120	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	75	Depositor
Minimum defocus (nm)	1120	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	14.114	Depositor
Minimum map value	-7.772	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	440.99997, 440.99997, 440.99997	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.05, 1.05, 1.05	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: SIA, GLA, NAG

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	0.94	0/4536	1.10	2/6208 (0.0%)
1	2	0.94	0/4536	1.10	2/6208 (0.0%)
1	3	0.94	0/4536	1.10	2/6208 (0.0%)
1	4	0.94	0/4536	1.10	2/6208 (0.0%)
1	5	0.93	0/4536	1.10	2/6208 (0.0%)
1	6	0.93	0/4536	1.10	2/6208 (0.0%)
1	7	0.93	0/4536	1.10	2/6208 (0.0%)
1	8	0.94	0/4536	1.10	2/6208 (0.0%)
1	A	0.93	0/4536	1.10	2/6208 (0.0%)
1	B	0.94	0/4536	1.10	2/6208 (0.0%)
1	C	0.94	0/4536	1.10	2/6208 (0.0%)
1	D	0.93	0/4536	1.10	2/6208 (0.0%)
1	E	0.94	0/4536	1.10	2/6208 (0.0%)
1	F	0.94	0/4536	1.10	2/6208 (0.0%)
1	G	0.94	0/4536	1.10	2/6208 (0.0%)
1	H	0.93	0/4536	1.10	2/6208 (0.0%)
1	I	0.94	0/4536	1.10	2/6208 (0.0%)
1	J	0.94	0/4536	1.10	2/6208 (0.0%)
1	K	0.94	0/4536	1.10	2/6208 (0.0%)
1	L	0.94	0/4536	1.10	2/6208 (0.0%)
1	M	0.94	0/4536	1.10	2/6208 (0.0%)
1	N	0.93	0/4536	1.10	2/6208 (0.0%)
1	O	0.94	0/4536	1.10	2/6208 (0.0%)
1	P	0.94	0/4536	1.10	2/6208 (0.0%)
1	Q	0.94	0/4536	1.10	2/6208 (0.0%)
1	R	0.94	0/4536	1.10	2/6208 (0.0%)
1	S	0.94	0/4536	1.10	2/6208 (0.0%)
1	T	0.94	0/4536	1.10	2/6208 (0.0%)
1	U	0.94	0/4536	1.10	2/6208 (0.0%)
1	V	0.94	0/4536	1.10	2/6208 (0.0%)
1	W	0.93	0/4536	1.10	2/6208 (0.0%)
1	X	0.94	0/4536	1.10	2/6208 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Y	0.93	0/4536	1.10	2/6208 (0.0%)
1	Z	0.94	0/4536	1.10	2/6208 (0.0%)
1	a	0.94	0/4536	1.10	2/6208 (0.0%)
1	b	0.94	0/4536	1.10	2/6208 (0.0%)
1	c	0.94	0/4536	1.10	2/6208 (0.0%)
1	d	0.94	0/4536	1.10	2/6208 (0.0%)
1	e	0.94	0/4536	1.10	2/6208 (0.0%)
1	f	0.94	0/4536	1.10	2/6208 (0.0%)
1	g	0.94	0/4536	1.10	2/6208 (0.0%)
1	h	0.94	0/4536	1.10	2/6208 (0.0%)
1	i	0.93	0/4536	1.10	2/6208 (0.0%)
1	j	0.93	0/4536	1.10	2/6208 (0.0%)
1	k	0.93	0/4536	1.10	2/6208 (0.0%)
1	l	0.94	0/4536	1.10	2/6208 (0.0%)
1	m	0.94	0/4536	1.10	2/6208 (0.0%)
1	n	0.94	0/4536	1.10	2/6208 (0.0%)
1	o	0.94	0/4536	1.10	2/6208 (0.0%)
1	p	0.94	0/4536	1.10	2/6208 (0.0%)
1	q	0.94	0/4536	1.10	2/6208 (0.0%)
1	r	0.94	0/4536	1.10	2/6208 (0.0%)
1	s	0.94	0/4536	1.10	2/6208 (0.0%)
1	t	0.94	0/4536	1.10	2/6208 (0.0%)
1	u	0.94	0/4536	1.10	2/6208 (0.0%)
1	v	0.94	0/4536	1.10	2/6208 (0.0%)
1	w	0.94	0/4536	1.10	2/6208 (0.0%)
1	x	0.94	0/4536	1.10	2/6208 (0.0%)
1	y	0.94	0/4536	1.10	2/6208 (0.0%)
1	z	0.94	0/4536	1.10	2/6208 (0.0%)
All	All	0.94	0/272160	1.10	120/372480 (0.0%)

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

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

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	7	0	3
1	8	0	3
1	A	0	3
1	B	0	3
1	C	0	3
1	D	0	3
1	E	0	3
1	F	0	3
1	G	0	3
1	H	0	3
1	I	0	3
1	J	0	3
1	K	0	3
1	L	0	3
1	M	0	3
1	N	0	3
1	O	0	3
1	P	0	3
1	Q	0	3
1	R	0	3
1	S	0	3
1	T	0	3
1	U	0	3
1	V	0	3
1	W	0	3
1	X	0	3
1	Y	0	3
1	Z	0	3
1	a	0	3
1	b	0	3
1	c	0	3
1	d	0	3
1	e	0	3
1	f	0	3
1	g	0	3
1	h	0	3
1	i	0	3
1	j	0	3
1	k	0	3
1	l	0	3
1	m	0	3
1	n	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	o	0	3
1	p	0	3
1	q	0	3
1	r	0	3
1	s	0	3
1	t	0	3
1	u	0	3
1	v	0	3
1	w	0	3
1	x	0	3
1	y	0	3
1	z	0	3
All	All	0	180

There are no bond length outliers.

All (120) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	96	LYS	N-CA-C	-6.09	105.42	112.92
1	J	96	LYS	N-CA-C	-6.09	105.42	112.92
1	L	96	LYS	N-CA-C	-6.09	105.42	112.92
1	R	96	LYS	N-CA-C	-6.09	105.42	112.92
1	S	96	LYS	N-CA-C	-6.09	105.42	112.92
1	U	96	LYS	N-CA-C	-6.09	105.42	112.92
1	q	96	LYS	N-CA-C	-6.09	105.42	112.92
1	r	96	LYS	N-CA-C	-6.09	105.42	112.92
1	s	96	LYS	N-CA-C	-6.09	105.42	112.92
1	z	96	LYS	N-CA-C	-6.09	105.42	112.92
1	1	96	LYS	N-CA-C	-6.09	105.42	112.92
1	2	96	LYS	N-CA-C	-6.09	105.42	112.92
1	E	96	LYS	N-CA-C	-6.05	105.47	112.92
1	G	96	LYS	N-CA-C	-6.05	105.47	112.92
1	M	96	LYS	N-CA-C	-6.05	105.47	112.92
1	O	96	LYS	N-CA-C	-6.05	105.47	112.92
1	X	96	LYS	N-CA-C	-6.05	105.47	112.92
1	Z	96	LYS	N-CA-C	-6.05	105.47	112.92
1	h	96	LYS	N-CA-C	-6.05	105.47	112.92
1	l	96	LYS	N-CA-C	-6.05	105.47	112.92
1	o	96	LYS	N-CA-C	-6.05	105.47	112.92
1	t	96	LYS	N-CA-C	-6.05	105.47	112.92
1	w	96	LYS	N-CA-C	-6.05	105.47	112.92
1	8	96	LYS	N-CA-C	-6.05	105.47	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	96	LYS	N-CA-C	-6.05	105.47	112.92
1	F	96	LYS	N-CA-C	-6.05	105.47	112.92
1	a	96	LYS	N-CA-C	-6.05	105.47	112.92
1	b	96	LYS	N-CA-C	-6.05	105.47	112.92
1	c	96	LYS	N-CA-C	-6.05	105.47	112.92
1	d	96	LYS	N-CA-C	-6.05	105.47	112.92
1	e	96	LYS	N-CA-C	-6.05	105.47	112.92
1	f	96	LYS	N-CA-C	-6.05	105.47	112.92
1	n	96	LYS	N-CA-C	-6.05	105.47	112.92
1	v	96	LYS	N-CA-C	-6.05	105.47	112.92
1	y	96	LYS	N-CA-C	-6.05	105.47	112.92
1	3	96	LYS	N-CA-C	-6.05	105.47	112.92
1	D	96	LYS	N-CA-C	-6.03	105.50	112.92
1	H	96	LYS	N-CA-C	-6.03	105.50	112.92
1	N	96	LYS	N-CA-C	-6.03	105.50	112.92
1	P	96	LYS	N-CA-C	-6.03	105.50	112.92
1	W	96	LYS	N-CA-C	-6.03	105.50	112.92
1	Y	96	LYS	N-CA-C	-6.03	105.50	112.92
1	i	96	LYS	N-CA-C	-6.03	105.50	112.92
1	j	96	LYS	N-CA-C	-6.03	105.50	112.92
1	k	96	LYS	N-CA-C	-6.03	105.50	112.92
1	5	96	LYS	N-CA-C	-6.03	105.50	112.92
1	6	96	LYS	N-CA-C	-6.03	105.50	112.92
1	7	96	LYS	N-CA-C	-6.03	105.50	112.92
1	C	96	LYS	N-CA-C	-6.02	105.51	112.92
1	I	96	LYS	N-CA-C	-6.02	105.51	112.92
1	K	96	LYS	N-CA-C	-6.02	105.51	112.92
1	Q	96	LYS	N-CA-C	-6.02	105.51	112.92
1	T	96	LYS	N-CA-C	-6.02	105.51	112.92
1	V	96	LYS	N-CA-C	-6.02	105.51	112.92
1	g	96	LYS	N-CA-C	-6.02	105.51	112.92
1	m	96	LYS	N-CA-C	-6.02	105.51	112.92
1	p	96	LYS	N-CA-C	-6.02	105.51	112.92
1	u	96	LYS	N-CA-C	-6.02	105.51	112.92
1	x	96	LYS	N-CA-C	-6.02	105.51	112.92
1	4	96	LYS	N-CA-C	-6.02	105.51	112.92
1	A	483	HIS	CB-CA-C	5.17	119.24	109.37
1	F	483	HIS	CB-CA-C	5.17	119.24	109.37
1	a	483	HIS	CB-CA-C	5.17	119.24	109.37
1	b	483	HIS	CB-CA-C	5.17	119.24	109.37
1	c	483	HIS	CB-CA-C	5.17	119.24	109.37
1	d	483	HIS	CB-CA-C	5.17	119.24	109.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	483	HIS	CB-CA-C	5.17	119.24	109.37
1	f	483	HIS	CB-CA-C	5.17	119.24	109.37
1	n	483	HIS	CB-CA-C	5.17	119.24	109.37
1	v	483	HIS	CB-CA-C	5.17	119.24	109.37
1	y	483	HIS	CB-CA-C	5.17	119.24	109.37
1	3	483	HIS	CB-CA-C	5.17	119.24	109.37
1	E	483	HIS	CB-CA-C	5.16	119.23	109.37
1	G	483	HIS	CB-CA-C	5.16	119.23	109.37
1	M	483	HIS	CB-CA-C	5.16	119.23	109.37
1	O	483	HIS	CB-CA-C	5.16	119.23	109.37
1	X	483	HIS	CB-CA-C	5.16	119.23	109.37
1	Z	483	HIS	CB-CA-C	5.16	119.23	109.37
1	h	483	HIS	CB-CA-C	5.16	119.23	109.37
1	l	483	HIS	CB-CA-C	5.16	119.23	109.37
1	o	483	HIS	CB-CA-C	5.16	119.23	109.37
1	t	483	HIS	CB-CA-C	5.16	119.23	109.37
1	w	483	HIS	CB-CA-C	5.16	119.23	109.37
1	8	483	HIS	CB-CA-C	5.16	119.23	109.37
1	C	483	HIS	CB-CA-C	5.15	119.21	109.37
1	I	483	HIS	CB-CA-C	5.15	119.21	109.37
1	K	483	HIS	CB-CA-C	5.15	119.21	109.37
1	Q	483	HIS	CB-CA-C	5.15	119.21	109.37
1	T	483	HIS	CB-CA-C	5.15	119.21	109.37
1	V	483	HIS	CB-CA-C	5.15	119.21	109.37
1	g	483	HIS	CB-CA-C	5.15	119.21	109.37
1	m	483	HIS	CB-CA-C	5.15	119.21	109.37
1	p	483	HIS	CB-CA-C	5.15	119.21	109.37
1	u	483	HIS	CB-CA-C	5.15	119.21	109.37
1	x	483	HIS	CB-CA-C	5.15	119.21	109.37
1	4	483	HIS	CB-CA-C	5.15	119.21	109.37
1	B	483	HIS	CB-CA-C	5.15	119.20	109.37
1	J	483	HIS	CB-CA-C	5.15	119.20	109.37
1	L	483	HIS	CB-CA-C	5.15	119.20	109.37
1	R	483	HIS	CB-CA-C	5.15	119.20	109.37
1	S	483	HIS	CB-CA-C	5.15	119.20	109.37
1	U	483	HIS	CB-CA-C	5.15	119.20	109.37
1	q	483	HIS	CB-CA-C	5.15	119.20	109.37
1	r	483	HIS	CB-CA-C	5.15	119.20	109.37
1	s	483	HIS	CB-CA-C	5.15	119.20	109.37
1	z	483	HIS	CB-CA-C	5.15	119.20	109.37
1	1	483	HIS	CB-CA-C	5.15	119.20	109.37
1	2	483	HIS	CB-CA-C	5.15	119.20	109.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	483	HIS	CB-CA-C	5.15	119.20	109.37
1	H	483	HIS	CB-CA-C	5.15	119.20	109.37
1	N	483	HIS	CB-CA-C	5.15	119.20	109.37
1	P	483	HIS	CB-CA-C	5.15	119.20	109.37
1	W	483	HIS	CB-CA-C	5.15	119.20	109.37
1	Y	483	HIS	CB-CA-C	5.15	119.20	109.37
1	i	483	HIS	CB-CA-C	5.15	119.20	109.37
1	j	483	HIS	CB-CA-C	5.15	119.20	109.37
1	k	483	HIS	CB-CA-C	5.15	119.20	109.37
1	5	483	HIS	CB-CA-C	5.15	119.20	109.37
1	6	483	HIS	CB-CA-C	5.15	119.20	109.37
1	7	483	HIS	CB-CA-C	5.15	119.20	109.37

There are no chirality outliers.

All (180) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	401	ARG	Sidechain
1	1	413	ARG	Sidechain
1	1	82	ARG	Sidechain
1	2	401	ARG	Sidechain
1	2	413	ARG	Sidechain
1	2	82	ARG	Sidechain
1	3	401	ARG	Sidechain
1	3	413	ARG	Sidechain
1	3	82	ARG	Sidechain
1	4	401	ARG	Sidechain
1	4	413	ARG	Sidechain
1	4	82	ARG	Sidechain
1	5	401	ARG	Sidechain
1	5	413	ARG	Sidechain
1	5	82	ARG	Sidechain
1	6	401	ARG	Sidechain
1	6	413	ARG	Sidechain
1	6	82	ARG	Sidechain
1	7	401	ARG	Sidechain
1	7	413	ARG	Sidechain
1	7	82	ARG	Sidechain
1	8	401	ARG	Sidechain
1	8	413	ARG	Sidechain
1	8	82	ARG	Sidechain
1	A	401	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	A	413	ARG	Sidechain
1	A	82	ARG	Sidechain
1	B	401	ARG	Sidechain
1	B	413	ARG	Sidechain
1	B	82	ARG	Sidechain
1	C	401	ARG	Sidechain
1	C	413	ARG	Sidechain
1	C	82	ARG	Sidechain
1	D	401	ARG	Sidechain
1	D	413	ARG	Sidechain
1	D	82	ARG	Sidechain
1	E	401	ARG	Sidechain
1	E	413	ARG	Sidechain
1	E	82	ARG	Sidechain
1	F	401	ARG	Sidechain
1	F	413	ARG	Sidechain
1	F	82	ARG	Sidechain
1	G	401	ARG	Sidechain
1	G	413	ARG	Sidechain
1	G	82	ARG	Sidechain
1	H	401	ARG	Sidechain
1	H	413	ARG	Sidechain
1	H	82	ARG	Sidechain
1	I	401	ARG	Sidechain
1	I	413	ARG	Sidechain
1	I	82	ARG	Sidechain
1	J	401	ARG	Sidechain
1	J	413	ARG	Sidechain
1	J	82	ARG	Sidechain
1	K	401	ARG	Sidechain
1	K	413	ARG	Sidechain
1	K	82	ARG	Sidechain
1	L	401	ARG	Sidechain
1	L	413	ARG	Sidechain
1	L	82	ARG	Sidechain
1	M	401	ARG	Sidechain
1	M	413	ARG	Sidechain
1	M	82	ARG	Sidechain
1	N	401	ARG	Sidechain
1	N	413	ARG	Sidechain
1	N	82	ARG	Sidechain
1	O	401	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	O	413	ARG	Sidechain
1	O	82	ARG	Sidechain
1	P	401	ARG	Sidechain
1	P	413	ARG	Sidechain
1	P	82	ARG	Sidechain
1	Q	401	ARG	Sidechain
1	Q	413	ARG	Sidechain
1	Q	82	ARG	Sidechain
1	R	401	ARG	Sidechain
1	R	413	ARG	Sidechain
1	R	82	ARG	Sidechain
1	S	401	ARG	Sidechain
1	S	413	ARG	Sidechain
1	S	82	ARG	Sidechain
1	T	401	ARG	Sidechain
1	T	413	ARG	Sidechain
1	T	82	ARG	Sidechain
1	U	401	ARG	Sidechain
1	U	413	ARG	Sidechain
1	U	82	ARG	Sidechain
1	V	401	ARG	Sidechain
1	V	413	ARG	Sidechain
1	V	82	ARG	Sidechain
1	W	401	ARG	Sidechain
1	W	413	ARG	Sidechain
1	W	82	ARG	Sidechain
1	X	401	ARG	Sidechain
1	X	413	ARG	Sidechain
1	X	82	ARG	Sidechain
1	Y	401	ARG	Sidechain
1	Y	413	ARG	Sidechain
1	Y	82	ARG	Sidechain
1	Z	401	ARG	Sidechain
1	Z	413	ARG	Sidechain
1	Z	82	ARG	Sidechain
1	a	401	ARG	Sidechain
1	a	413	ARG	Sidechain
1	a	82	ARG	Sidechain
1	b	401	ARG	Sidechain
1	b	413	ARG	Sidechain
1	b	82	ARG	Sidechain
1	c	401	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	c	413	ARG	Sidechain
1	c	82	ARG	Sidechain
1	d	401	ARG	Sidechain
1	d	413	ARG	Sidechain
1	d	82	ARG	Sidechain
1	e	401	ARG	Sidechain
1	e	413	ARG	Sidechain
1	e	82	ARG	Sidechain
1	f	401	ARG	Sidechain
1	f	413	ARG	Sidechain
1	f	82	ARG	Sidechain
1	g	401	ARG	Sidechain
1	g	413	ARG	Sidechain
1	g	82	ARG	Sidechain
1	h	401	ARG	Sidechain
1	h	413	ARG	Sidechain
1	h	82	ARG	Sidechain
1	i	401	ARG	Sidechain
1	i	413	ARG	Sidechain
1	i	82	ARG	Sidechain
1	j	401	ARG	Sidechain
1	j	413	ARG	Sidechain
1	j	82	ARG	Sidechain
1	k	401	ARG	Sidechain
1	k	413	ARG	Sidechain
1	k	82	ARG	Sidechain
1	l	401	ARG	Sidechain
1	l	413	ARG	Sidechain
1	l	82	ARG	Sidechain
1	m	401	ARG	Sidechain
1	m	413	ARG	Sidechain
1	m	82	ARG	Sidechain
1	n	401	ARG	Sidechain
1	n	413	ARG	Sidechain
1	n	82	ARG	Sidechain
1	o	401	ARG	Sidechain
1	o	413	ARG	Sidechain
1	o	82	ARG	Sidechain
1	p	401	ARG	Sidechain
1	p	413	ARG	Sidechain
1	p	82	ARG	Sidechain
1	q	401	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	q	413	ARG	Sidechain
1	q	82	ARG	Sidechain
1	r	401	ARG	Sidechain
1	r	413	ARG	Sidechain
1	r	82	ARG	Sidechain
1	s	401	ARG	Sidechain
1	s	413	ARG	Sidechain
1	s	82	ARG	Sidechain
1	t	401	ARG	Sidechain
1	t	413	ARG	Sidechain
1	t	82	ARG	Sidechain
1	u	401	ARG	Sidechain
1	u	413	ARG	Sidechain
1	u	82	ARG	Sidechain
1	v	401	ARG	Sidechain
1	v	413	ARG	Sidechain
1	v	82	ARG	Sidechain
1	w	401	ARG	Sidechain
1	w	413	ARG	Sidechain
1	w	82	ARG	Sidechain
1	x	401	ARG	Sidechain
1	x	413	ARG	Sidechain
1	x	82	ARG	Sidechain
1	y	401	ARG	Sidechain
1	y	413	ARG	Sidechain
1	y	82	ARG	Sidechain
1	z	401	ARG	Sidechain
1	z	413	ARG	Sidechain
1	z	82	ARG	Sidechain

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	4404	0	4197	327	0
1	2	4404	0	4197	334	0
1	3	4404	0	4197	329	0
1	4	4404	0	4197	323	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	5	4404	0	4197	331	0
1	6	4404	0	4197	323	0
1	7	4404	0	4197	329	0
1	8	4404	0	4197	328	0
1	A	4404	0	4197	330	0
1	B	4404	0	4197	325	0
1	C	4404	0	4197	328	0
1	D	4404	0	4197	328	0
1	E	4404	0	4197	328	0
1	F	4404	0	4197	330	0
1	G	4404	0	4197	330	0
1	H	4404	0	4197	330	0
1	I	4404	0	4197	330	0
1	J	4404	0	4197	333	0
1	K	4404	0	4197	324	0
1	L	4404	0	4197	326	0
1	M	4404	0	4197	331	0
1	N	4404	0	4197	331	0
1	O	4404	0	4197	321	0
1	P	4404	0	4197	325	0
1	Q	4404	0	4197	329	0
1	R	4404	0	4197	333	0
1	S	4404	0	4197	329	0
1	T	4404	0	4197	325	0
1	U	4404	0	4197	328	0
1	V	4404	0	4197	324	0
1	W	4404	0	4197	324	0
1	X	4404	0	4197	328	0
1	Y	4404	0	4197	327	0
1	Z	4404	0	4197	329	0
1	a	4404	0	4197	327	0
1	b	4404	0	4197	324	0
1	c	4404	0	4197	327	0
1	d	4404	0	4197	330	0
1	e	4404	0	4197	328	0
1	f	4404	0	4197	324	0
1	g	4404	0	4197	327	0
1	h	4404	0	4197	330	0
1	i	4404	0	4197	328	0
1	j	4404	0	4197	328	0
1	k	4404	0	4197	329	0
1	l	4404	0	4197	324	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	m	4404	0	4197	326	0
1	n	4404	0	4197	329	0
1	o	4404	0	4197	328	0
1	p	4404	0	4197	326	0
1	q	4404	0	4197	334	0
1	r	4404	0	4197	333	0
1	s	4404	0	4197	330	0
1	t	4404	0	4197	329	0
1	u	4404	0	4197	329	0
1	v	4404	0	4197	334	0
1	w	4404	0	4197	329	0
1	x	4404	0	4197	328	0
1	y	4404	0	4197	329	0
1	z	4404	0	4197	330	0
2	1A	46	0	40	4	0
2	2A	46	0	40	4	0
2	4A	46	0	40	4	0
2	5A	46	0	40	4	0
2	7A	46	0	40	4	0
2	8A	46	0	40	4	0
2	9	46	0	40	4	0
2	AA	46	0	40	4	0
2	AB	46	0	40	4	0
2	BB	46	0	40	4	0
2	CA	46	0	40	4	0
2	DA	46	0	40	4	0
2	DB	46	0	40	4	0
2	EB	46	0	40	4	0
2	FA	46	0	40	4	0
2	GA	46	0	40	4	0
2	GB	46	0	40	4	0
2	HB	46	0	40	4	0
2	IA	46	0	40	4	0
2	JA	46	0	40	4	0
2	JB	46	0	40	4	0
2	KB	46	0	40	4	0
2	LA	46	0	40	4	0
2	MA	46	0	40	4	0
2	MB	46	0	40	4	0
2	NB	46	0	40	4	0
2	OA	46	0	40	4	0
2	PA	46	0	40	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	PB	46	0	40	4	0
2	QB	46	0	40	4	0
2	RA	46	0	40	4	0
2	SA	46	0	40	4	0
2	SB	46	0	40	4	0
2	TB	46	0	40	4	0
2	UA	46	0	40	4	0
2	VA	46	0	40	4	0
2	VB	46	0	40	4	0
2	WB	46	0	40	4	0
2	XA	46	0	40	4	0
2	YA	46	0	40	4	0
2	YB	46	0	40	4	0
2	ZB	46	0	40	4	0
2	aA	46	0	40	4	0
2	bA	46	0	40	4	0
2	dA	46	0	40	4	0
2	eA	46	0	40	4	0
2	gA	46	0	40	4	0
2	hA	46	0	40	4	0
2	jA	46	0	40	4	0
2	kA	46	0	40	4	0
2	mA	46	0	40	4	0
2	nA	46	0	40	4	0
2	pA	46	0	40	4	0
2	qA	46	0	40	4	0
2	sA	46	0	40	4	0
2	tA	46	0	40	4	0
2	vA	46	0	40	4	0
2	wA	46	0	40	4	0
2	yA	46	0	40	4	0
2	zA	46	0	40	4	0
All	All	267000	0	254220	12310	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 24.

All (12310) 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:U:483:HIS:CE1	1:W:462:PHE:CG	2.19	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:462:PHE:CG	1:v:483:HIS:CE1	2.19	1.31
1:s:483:HIS:CE1	1:6:462:PHE:CG	2.19	1.31
1:A:483:HIS:CE1	1:R:462:PHE:CG	2.19	1.31
1:C:462:PHE:CG	1:I:483:HIS:CE1	2.19	1.31
1:G:462:PHE:CG	1:X:483:HIS:CE1	2.19	1.31
1:e:483:HIS:CE1	1:z:462:PHE:CG	2.19	1.31
1:g:462:PHE:CG	1:u:483:HIS:CE1	2.19	1.31
1:h:462:PHE:CG	1:l:483:HIS:CE1	2.19	1.31
1:C:483:HIS:CE1	1:K:462:PHE:CG	2.19	1.30
1:L:462:PHE:CG	1:c:483:HIS:CE1	2.19	1.30
1:M:462:PHE:CG	1:O:483:HIS:CE1	2.19	1.30
1:Q:462:PHE:CG	1:T:483:HIS:CE1	2.19	1.30
1:W:483:HIS:CE1	1:f:462:PHE:CG	2.19	1.30
1:g:483:HIS:CE1	1:4:462:PHE:CG	2.19	1.30
1:o:483:HIS:CE1	1:t:462:PHE:CG	2.19	1.30
1:G:483:HIS:HE1	1:Z:462:PHE:CG	1.50	1.30
1:G:483:HIS:CE1	1:Z:462:PHE:CG	2.19	1.30
1:N:483:HIS:HE1	1:d:462:PHE:CG	1.50	1.30
1:P:462:PHE:CG	1:R:483:HIS:HE1	1.50	1.30
1:Q:483:HIS:CE1	1:V:462:PHE:CG	2.19	1.30
1:b:462:PHE:CG	1:6:483:HIS:CE1	2.19	1.30
1:i:483:HIS:HE1	1:n:462:PHE:CG	1.50	1.30
1:j:462:PHE:CG	1:q:483:HIS:HE1	1.50	1.30
1:m:483:HIS:CE1	1:x:462:PHE:CG	2.19	1.30
1:p:462:PHE:CG	1:x:483:HIS:CE1	2.19	1.30
1:t:483:HIS:HE1	1:8:462:PHE:CG	1.50	1.30
1:d:483:HIS:HE1	1:r:462:PHE:CG	1.50	1.30
1:t:483:HIS:CE1	1:8:462:PHE:CG	2.19	1.30
1:E:462:PHE:CG	1:M:483:HIS:HE1	1.50	1.30
1:S:462:PHE:CG	1:n:483:HIS:HE1	1.50	1.30
1:T:462:PHE:CG	1:V:483:HIS:CE1	2.19	1.30
1:d:483:HIS:CE1	1:r:462:PHE:CG	2.19	1.30
1:h:483:HIS:HE1	1:w:462:PHE:CG	1.50	1.30
1:m:462:PHE:CG	1:p:483:HIS:CE1	2.19	1.30
1:3:462:PHE:CG	1:7:483:HIS:CE1	2.19	1.30
1:I:462:PHE:CG	1:K:483:HIS:HE1	1.50	1.30
1:I:462:PHE:CG	1:K:483:HIS:CE1	2.19	1.30
1:M:462:PHE:CG	1:O:483:HIS:HE1	1.50	1.30
1:S:462:PHE:CG	1:n:483:HIS:CE1	2.19	1.30
1:Y:483:HIS:CE1	1:a:462:PHE:CG	2.19	1.30
1:a:483:HIS:HE1	1:2:462:PHE:CG	1.50	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:462:PHE:CG	1:l:483:HIS:HE1	1.50	1.30
1:l:462:PHE:CG	1:w:483:HIS:HE1	1.50	1.30
1:u:462:PHE:CG	1:4:483:HIS:HE1	1.50	1.30
1:D:483:HIS:CE1	1:c:462:PHE:CG	2.19	1.29
1:E:462:PHE:CG	1:M:483:HIS:CE1	2.19	1.29
1:E:483:HIS:HE1	1:O:462:PHE:CG	1.50	1.29
1:J:462:PHE:CG	1:3:483:HIS:HE1	1.50	1.29
1:S:483:HIS:CE1	1:i:462:PHE:CG	2.19	1.29
1:T:462:PHE:CG	1:V:483:HIS:HE1	1.50	1.29
1:U:462:PHE:CG	1:f:483:HIS:CE1	2.19	1.29
1:b:483:HIS:CE1	1:s:462:PHE:CG	2.19	1.29
1:e:462:PHE:CG	1:k:483:HIS:CE1	2.19	1.29
1:h:483:HIS:CE1	1:w:462:PHE:CG	2.19	1.29
1:u:462:PHE:CG	1:4:483:HIS:CE1	2.19	1.29
1:F:462:PHE:CG	1:H:483:HIS:CE1	2.19	1.29
1:N:462:PHE:CG	1:r:483:HIS:CE1	2.19	1.29
1:m:462:PHE:CG	1:p:483:HIS:HE1	1.50	1.29
1:y:462:PHE:CG	1:5:483:HIS:CE1	2.19	1.29
1:U:483:HIS:HE1	1:W:462:PHE:CG	1.50	1.29
1:X:462:PHE:CG	1:Z:483:HIS:HE1	1.50	1.29
1:i:483:HIS:CE1	1:n:462:PHE:CG	2.19	1.29
1:m:483:HIS:HE1	1:x:462:PHE:CG	1.50	1.29
1:p:462:PHE:CG	1:x:483:HIS:HE1	1.50	1.29
1:s:483:HIS:HE1	1:6:462:PHE:CG	1.50	1.29
1:Q:462:PHE:CG	1:T:483:HIS:HE1	1.50	1.29
1:Q:483:HIS:HE1	1:V:462:PHE:CG	1.50	1.29
1:X:462:PHE:CG	1:Z:483:HIS:CE1	2.19	1.29
1:a:483:HIS:CE1	1:2:462:PHE:CG	2.19	1.29
1:o:462:PHE:CG	1:8:483:HIS:CE1	2.19	1.29
1:o:462:PHE:CG	1:8:483:HIS:HE1	1.50	1.29
1:J:462:PHE:CG	1:3:483:HIS:CE1	2.19	1.29
1:N:483:HIS:CE1	1:d:462:PHE:CG	2.19	1.29
1:g:483:HIS:HE1	1:4:462:PHE:CG	1.50	1.29
1:B:462:PHE:CG	1:F:483:HIS:HE1	1.50	1.28
1:D:462:PHE:CG	1:L:483:HIS:CE1	2.19	1.28
1:U:462:PHE:CG	1:f:483:HIS:HE1	1.50	1.28
1:W:483:HIS:HE1	1:f:462:PHE:CG	1.50	1.28
1:b:483:HIS:HE1	1:s:462:PHE:CG	1.50	1.28
1:k:462:PHE:CG	1:z:483:HIS:CE1	2.19	1.28
1:y:483:HIS:CE1	1:1:462:PHE:CG	2.19	1.28
1:A:462:PHE:CG	1:P:483:HIS:CE1	2.19	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:462:PHE:CG	1:F:483:HIS:CE1	2.19	1.28
1:y:483:HIS:HE1	1:1:462:PHE:CG	1.50	1.28
1:3:462:PHE:CG	1:7:483:HIS:HE1	1.50	1.28
1:B:483:HIS:HE1	1:H:462:PHE:CG	1.50	1.28
1:J:483:HIS:CE1	1:7:462:PHE:CG	2.19	1.28
1:Y:483:HIS:HE1	1:a:462:PHE:CG	1.50	1.28
1:b:462:PHE:CG	1:6:483:HIS:HE1	1.50	1.28
1:j:462:PHE:CG	1:q:483:HIS:CE1	2.19	1.28
1:o:483:HIS:HE1	1:t:462:PHE:CG	1.50	1.28
1:1:483:HIS:CE1	1:5:462:PHE:CG	2.19	1.28
1:B:483:HIS:CE1	1:H:462:PHE:CG	2.19	1.28
1:E:483:HIS:CE1	1:O:462:PHE:CG	2.19	1.28
1:G:462:PHE:CG	1:X:483:HIS:HE1	1.50	1.28
1:J:483:HIS:HE1	1:7:462:PHE:CG	1.50	1.28
1:P:462:PHE:CG	1:R:483:HIS:CE1	2.19	1.28
1:Y:462:PHE:CG	1:2:483:HIS:CE1	2.19	1.28
1:Y:462:PHE:CG	1:2:483:HIS:HE1	1.50	1.28
1:j:483:HIS:CE1	1:v:462:PHE:CG	2.19	1.28
1:1:483:HIS:HE1	1:5:462:PHE:CG	1.50	1.28
1:l:462:PHE:CG	1:w:483:HIS:CE1	2.19	1.28
1:q:462:PHE:CG	1:v:483:HIS:HE1	1.50	1.28
1:L:462:PHE:CG	1:c:483:HIS:HE1	1.50	1.27
1:A:483:HIS:HE1	1:R:462:PHE:CG	1.50	1.27
1:N:462:PHE:CG	1:r:483:HIS:HE1	1.50	1.27
1:S:483:HIS:HE1	1:i:462:PHE:CG	1.50	1.27
1:e:483:HIS:HE1	1:z:462:PHE:CG	1.50	1.27
1:g:462:PHE:CG	1:u:483:HIS:HE1	1.50	1.27
1:j:483:HIS:HE1	1:v:462:PHE:CG	1.50	1.27
1:A:462:PHE:CG	1:P:483:HIS:HE1	1.50	1.27
1:C:462:PHE:CG	1:I:483:HIS:HE1	1.50	1.26
1:D:462:PHE:CG	1:L:483:HIS:HE1	1.50	1.26
1:k:462:PHE:CG	1:z:483:HIS:HE1	1.50	1.26
1:y:462:PHE:CG	1:5:483:HIS:HE1	1.50	1.26
1:F:462:PHE:CG	1:H:483:HIS:HE1	1.50	1.25
1:D:483:HIS:HE1	1:c:462:PHE:CG	1.50	1.25
1:e:462:PHE:CG	1:k:483:HIS:HE1	1.50	1.25
1:C:483:HIS:HE1	1:K:462:PHE:CG	1.50	1.23
1:b:483:HIS:HD2	1:s:464:HIS:CD2	1.66	1.14
1:y:464:HIS:CD2	1:5:483:HIS:HD2	1.66	1.14
1:F:464:HIS:CD2	1:H:483:HIS:HD2	1.66	1.14
1:U:464:HIS:CD2	1:f:483:HIS:HD2	1.66	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:483:HIS:HD2	1:O:464:HIS:CD2	1.66	1.14
1:J:483:HIS:HD2	1:7:464:HIS:CD2	1.66	1.14
1:W:483:HIS:HD2	1:f:464:HIS:CD2	1.66	1.14
1:Y:464:HIS:CD2	1:2:483:HIS:HD2	1.66	1.14
1:b:464:HIS:CD2	1:6:483:HIS:HD2	1.66	1.14
1:l:464:HIS:CD2	1:w:483:HIS:HD2	1.66	1.14
1:B:483:HIS:HD2	1:H:464:HIS:CD2	1.66	1.14
1:D:464:HIS:CD2	1:L:483:HIS:HD2	1.66	1.14
1:1:483:HIS:HD2	1:5:464:HIS:CD2	1.66	1.14
1:k:464:HIS:CD2	1:z:483:HIS:HD2	1.66	1.13
1:j:483:HIS:HD2	1:v:464:HIS:CD2	1.66	1.13
1:A:464:HIS:CD2	1:P:483:HIS:HD2	1.66	1.13
1:C:483:HIS:HD2	1:K:464:HIS:CD2	1.66	1.13
1:Q:464:HIS:CD2	1:T:483:HIS:HD2	1.66	1.13
1:Q:483:HIS:HD2	1:V:464:HIS:CD2	1.66	1.13
1:S:464:HIS:CD2	1:n:483:HIS:HD2	1.66	1.13
1:m:483:HIS:HD2	1:x:464:HIS:CD2	1.66	1.13
1:o:464:HIS:CD2	1:8:483:HIS:HD2	1.66	1.13
1:p:464:HIS:CD2	1:x:483:HIS:HD2	1.66	1.13
1:D:483:HIS:HD2	1:c:464:HIS:CD2	1.66	1.13
1:G:483:HIS:HD2	1:Z:464:HIS:CD2	1.66	1.13
1:X:464:HIS:CD2	1:Z:483:HIS:HD2	1.66	1.13
1:d:483:HIS:HD2	1:r:464:HIS:CD2	1.66	1.13
1:g:483:HIS:HD2	1:4:464:HIS:CD2	1.66	1.13
1:i:483:HIS:HD2	1:n:464:HIS:CD2	1.66	1.13
1:o:483:HIS:HD2	1:t:464:HIS:CD2	1.66	1.13
1:q:464:HIS:CD2	1:v:483:HIS:HD2	1.66	1.13
1:A:483:HIS:HD2	1:R:464:HIS:CD2	1.66	1.13
1:G:464:HIS:CD2	1:X:483:HIS:HD2	1.66	1.13
1:N:483:HIS:HD2	1:d:464:HIS:CD2	1.66	1.13
1:N:464:HIS:CD2	1:r:483:HIS:HD2	1.66	1.12
1:Y:483:HIS:HD2	1:a:464:HIS:CD2	1.66	1.12
1:e:464:HIS:CD2	1:k:483:HIS:HD2	1.66	1.13
1:m:464:HIS:CD2	1:p:483:HIS:HD2	1.66	1.12
1:t:483:HIS:HD2	1:8:464:HIS:CD2	1.66	1.12
1:3:464:HIS:CD2	1:7:483:HIS:HD2	1.66	1.12
1:E:464:HIS:CD2	1:M:483:HIS:HD2	1.66	1.12
1:P:464:HIS:CD2	1:R:483:HIS:HD2	1.66	1.12
1:S:483:HIS:HD2	1:i:464:HIS:CD2	1.66	1.12
1:T:464:HIS:CD2	1:V:483:HIS:HD2	1.66	1.12
1:Y:191:PRO:HG3	1:a:591:MET:HE3	1.14	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:483:HIS:HD2	1:z:464:HIS:CD2	1.66	1.12
1:g:464:HIS:CD2	1:u:483:HIS:HD2	1.66	1.12
1:B:464:HIS:CD2	1:F:483:HIS:HD2	1.66	1.12
1:C:464:HIS:CD2	1:I:483:HIS:HD2	1.66	1.12
1:C:591:MET:HE3	1:I:191:PRO:HG3	1.14	1.12
1:J:464:HIS:CD2	1:3:483:HIS:HD2	1.66	1.12
1:L:464:HIS:CD2	1:c:483:HIS:HD2	1.66	1.12
1:U:483:HIS:HD2	1:W:464:HIS:CD2	1.66	1.12
1:a:483:HIS:HD2	1:2:464:HIS:CD2	1.66	1.12
1:h:483:HIS:HD2	1:w:464:HIS:CD2	1.66	1.12
1:j:464:HIS:CD2	1:q:483:HIS:HD2	1.66	1.12
1:j:591:MET:HE3	1:q:191:PRO:HG3	1.14	1.12
1:y:191:PRO:HG3	1:1:591:MET:HE3	1.14	1.12
1:B:591:MET:HE3	1:F:191:PRO:HG3	1.14	1.12
1:I:464:HIS:CD2	1:K:483:HIS:HD2	1.66	1.12
1:g:591:MET:HE3	1:u:191:PRO:HG3	1.14	1.12
1:s:483:HIS:HD2	1:6:464:HIS:CD2	1.66	1.12
1:u:464:HIS:CD2	1:4:483:HIS:HD2	1.66	1.12
1:y:483:HIS:HD2	1:1:464:HIS:CD2	1.66	1.12
1:M:464:HIS:CD2	1:O:483:HIS:HD2	1.66	1.12
1:P:591:MET:HE3	1:R:191:PRO:HG3	1.14	1.12
1:3:591:MET:HE3	1:7:191:PRO:HG3	1.14	1.12
1:G:591:MET:HE3	1:X:191:PRO:HG3	1.14	1.11
1:h:464:HIS:CD2	1:l:483:HIS:HD2	1.66	1.11
1:o:191:PRO:HG3	1:t:591:MET:HE3	1.14	1.11
1:F:591:MET:HE3	1:H:191:PRO:HG3	1.14	1.11
1:s:191:PRO:HG3	1:6:591:MET:HE3	1.14	1.11
1:I:591:MET:HE3	1:K:191:PRO:HG3	1.14	1.11
1:U:191:PRO:HG3	1:W:591:MET:HE3	1.14	1.11
1:d:191:PRO:HG3	1:r:591:MET:HE3	1.14	1.11
1:S:591:MET:HE3	1:n:191:PRO:HG3	1.14	1.11
1:y:591:MET:HE3	1:5:191:PRO:HG3	1.14	1.11
1:u:591:MET:HE3	1:4:191:PRO:HG3	1.14	1.10
1:Q:591:MET:HE3	1:T:191:PRO:HG3	1.14	1.10
1:a:191:PRO:HG3	1:2:591:MET:HE3	1.14	1.10
1:D:591:MET:HE3	1:L:191:PRO:HG3	1.14	1.10
1:j:191:PRO:HG3	1:v:591:MET:HE3	1.14	1.10
1:J:591:MET:HE3	1:3:191:PRO:HG3	1.14	1.10
1:k:591:MET:HE3	1:z:191:PRO:HG3	1.14	1.10
1:m:191:PRO:HG3	1:x:591:MET:HE3	1.14	1.10
1:A:591:MET:HE3	1:P:191:PRO:HG3	1.14	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:591:MET:HE3	1:M:191:PRO:HG3	1.14	1.09
1:M:591:MET:HE3	1:O:191:PRO:HG3	1.14	1.09
1:X:591:MET:HE3	1:Z:191:PRO:HG3	1.14	1.09
1:h:191:PRO:HG3	1:w:591:MET:HE3	1.14	1.09
1:o:591:MET:HE3	1:8:191:PRO:HG3	1.14	1.09
1:D:483:HIS:CE1	1:c:462:PHE:CD1	2.41	1.09
1:L:591:MET:HE3	1:c:191:PRO:HG3	1.14	1.09
1:a:483:HIS:CE1	1:2:462:PHE:CD1	2.41	1.09
1:e:462:PHE:CD1	1:k:483:HIS:CE1	2.41	1.09
1:h:591:MET:HE3	1:l:191:PRO:HG3	1.14	1.09
1:G:462:PHE:CD1	1:X:483:HIS:CE1	2.41	1.09
1:J:462:PHE:CD1	1:3:483:HIS:CE1	2.41	1.09
1:T:591:MET:HE3	1:V:191:PRO:HG3	1.14	1.09
1:e:191:PRO:HG3	1:z:591:MET:HE3	1.14	1.09
1:o:483:HIS:CE1	1:t:462:PHE:CD1	2.41	1.09
1:C:191:PRO:HG3	1:K:591:MET:HE3	1.14	1.09
1:C:462:PHE:CD1	1:I:483:HIS:CE1	2.41	1.09
1:E:191:PRO:HG3	1:O:591:MET:HE3	1.14	1.09
1:E:483:HIS:CE1	1:O:462:PHE:CD1	2.41	1.09
1:M:462:PHE:CD1	1:O:483:HIS:CE1	2.41	1.09
1:U:591:MET:HE3	1:f:191:PRO:HG3	1.14	1.09
1:W:191:PRO:HG3	1:f:591:MET:HE3	1.14	1.09
1:X:462:PHE:CD1	1:Z:483:HIS:CE1	2.41	1.09
1:h:462:PHE:CD1	1:l:483:HIS:CE1	2.41	1.09
1:m:591:MET:HE3	1:p:191:PRO:HG3	1.14	1.09
1:o:462:PHE:CD1	1:8:483:HIS:CE1	2.41	1.09
1:t:191:PRO:HG3	1:8:591:MET:HE3	1.14	1.09
1:C:483:HIS:CE1	1:K:462:PHE:CD1	2.41	1.09
1:F:462:PHE:CD1	1:H:483:HIS:CE1	2.41	1.09
1:G:191:PRO:HG3	1:Z:591:MET:HE3	1.14	1.09
1:N:591:MET:HE3	1:r:191:PRO:HG3	1.14	1.09
1:Q:462:PHE:CD1	1:T:483:HIS:CE1	2.41	1.09
1:Y:483:HIS:CE1	1:a:462:PHE:CD1	2.41	1.09
1:b:191:PRO:HG3	1:s:591:MET:HE3	1.14	1.09
1:b:591:MET:HE3	1:6:191:PRO:HG3	1.14	1.09
1:g:191:PRO:HG3	1:4:591:MET:HE3	1.14	1.09
1:g:462:PHE:CD1	1:u:483:HIS:CE1	2.41	1.09
1:g:483:HIS:CE1	1:4:462:PHE:CD1	2.41	1.09
1:l:462:PHE:CD1	1:w:483:HIS:CE1	2.41	1.09
1:l:591:MET:HE3	1:w:191:PRO:HG3	1.14	1.09
1:m:483:HIS:CE1	1:x:462:PHE:CD1	2.41	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:462:PHE:CD1	1:5:483:HIS:CE1	2.41	1.09
1:3:462:PHE:CD1	1:7:483:HIS:CE1	2.41	1.09
1:P:462:PHE:CD1	1:R:483:HIS:CE1	2.41	1.08
1:S:191:PRO:HG3	1:i:591:MET:HE3	1.14	1.08
1:S:462:PHE:CD1	1:n:483:HIS:CE1	2.41	1.08
1:d:483:HIS:CE1	1:r:462:PHE:CD1	2.41	1.08
1:D:462:PHE:CD1	1:L:483:HIS:CE1	2.41	1.08
1:Q:483:HIS:CE1	1:V:462:PHE:CD1	2.41	1.08
1:j:462:PHE:CD1	1:q:483:HIS:CE1	2.41	1.08
1:k:462:PHE:CD1	1:z:483:HIS:CE1	2.41	1.08
1:p:462:PHE:CD1	1:x:483:HIS:CE1	2.41	1.08
1:s:483:HIS:CE1	1:6:462:PHE:CD1	2.41	1.08
1:y:483:HIS:CE1	1:1:462:PHE:CD1	2.41	1.08
1:B:462:PHE:CD1	1:F:483:HIS:CE1	2.41	1.08
1:I:462:PHE:CD1	1:K:483:HIS:CE1	2.41	1.08
1:U:462:PHE:CD1	1:f:483:HIS:CE1	2.41	1.08
1:U:483:HIS:CE1	1:W:462:PHE:CD1	2.41	1.08
1:m:462:PHE:CD1	1:p:483:HIS:CE1	2.41	1.08
1:u:462:PHE:CD1	1:4:483:HIS:CE1	2.41	1.08
1:B:483:HIS:CE1	1:H:462:PHE:CD1	2.41	1.08
1:Q:191:PRO:HG3	1:V:591:MET:HE3	1.14	1.08
1:T:462:PHE:CD1	1:V:483:HIS:CE1	2.41	1.08
1:b:483:HIS:CE1	1:s:462:PHE:CD1	2.41	1.08
1:j:483:HIS:CE1	1:v:462:PHE:CD1	2.41	1.08
1:q:591:MET:HE3	1:v:191:PRO:HG3	1.14	1.08
1:1:483:HIS:CE1	1:5:462:PHE:CD1	2.41	1.08
1:N:462:PHE:CD1	1:r:483:HIS:CE1	2.41	1.08
1:e:483:HIS:CE1	1:z:462:PHE:CD1	2.41	1.08
1:p:591:MET:HE3	1:x:191:PRO:HG3	1.14	1.08
1:q:462:PHE:CD1	1:v:483:HIS:CE1	2.41	1.08
1:A:191:PRO:HG3	1:R:591:MET:HE3	1.14	1.07
1:A:462:PHE:CD1	1:P:483:HIS:CE1	2.41	1.07
1:A:483:HIS:CE1	1:R:462:PHE:CD1	2.41	1.07
1:E:462:PHE:CD1	1:M:483:HIS:CE1	2.41	1.07
1:L:462:PHE:CD1	1:c:483:HIS:CE1	2.41	1.07
1:N:191:PRO:HG3	1:d:591:MET:HE3	1.14	1.07
1:N:483:HIS:CE1	1:d:462:PHE:CD1	2.41	1.07
1:S:483:HIS:CE1	1:i:462:PHE:CD1	2.41	1.07
1:W:483:HIS:CE1	1:f:462:PHE:CD1	2.41	1.07
1:J:483:HIS:CE1	1:7:462:PHE:CD1	2.41	1.07
1:Y:462:PHE:CD1	1:2:483:HIS:CE1	2.41	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:462:PHE:CD1	1:6:483:HIS:CE1	2.41	1.07
1:h:483:HIS:CE1	1:w:462:PHE:CD1	2.41	1.07
1:i:483:HIS:CE1	1:n:462:PHE:CD1	2.41	1.07
1:t:483:HIS:CE1	1:8:462:PHE:CD1	2.41	1.07
1:1:191:PRO:HG3	1:5:591:MET:HE3	1.14	1.07
1:B:191:PRO:HG3	1:H:591:MET:HE3	1.14	1.07
1:G:483:HIS:CE1	1:Z:462:PHE:CD1	2.41	1.07
1:i:191:PRO:HG3	1:n:591:MET:HE3	1.14	1.07
1:F:300:ILE:HG23	1:H:109:GLN:HE22	1.20	1.06
1:W:109:GLN:HE22	1:f:300:ILE:HG23	1.20	1.06
1:b:300:ILE:HG23	1:6:109:GLN:HE22	1.20	1.06
1:y:300:ILE:HG23	1:5:109:GLN:HE22	1.20	1.06
1:T:300:ILE:HG23	1:V:109:GLN:HE22	1.20	1.06
1:m:300:ILE:HG23	1:p:109:GLN:HE22	1.20	1.06
1:y:109:GLN:HE22	1:1:300:ILE:HG23	1.20	1.06
1:B:300:ILE:HG23	1:F:109:GLN:HE22	1.20	1.06
1:C:300:ILE:HG23	1:I:109:GLN:HE22	1.20	1.05
1:Y:591:MET:HE3	1:2:191:PRO:HG3	1.14	1.05
1:a:109:GLN:HE22	1:2:300:ILE:HG23	1.20	1.05
1:D:191:PRO:HG3	1:c:591:MET:HE3	1.14	1.05
1:J:300:ILE:HG23	1:3:109:GLN:HE22	1.20	1.05
1:N:300:ILE:HG23	1:r:109:GLN:HE22	1.20	1.05
1:U:109:GLN:HE22	1:W:300:ILE:HG23	1.20	1.05
1:s:109:GLN:HE22	1:6:300:ILE:HG23	1.20	1.05
1:u:300:ILE:HG23	1:4:109:GLN:HE22	1.20	1.05
1:A:109:GLN:HE22	1:R:300:ILE:HG23	1.20	1.05
1:I:300:ILE:HG23	1:K:109:GLN:HE22	1.20	1.05
1:S:109:GLN:HE22	1:i:300:ILE:HG23	1.20	1.05
1:U:300:ILE:HG23	1:f:109:GLN:HE22	1.20	1.05
1:g:300:ILE:HG23	1:u:109:GLN:HE22	1.20	1.05
1:J:191:PRO:HG3	1:7:591:MET:HE3	1.14	1.05
1:b:109:GLN:HE22	1:s:300:ILE:HG23	1.20	1.05
1:e:591:MET:HE3	1:k:191:PRO:HG3	1.14	1.05
1:Q:109:GLN:HE22	1:V:300:ILE:HG23	1.20	1.04
1:q:300:ILE:HG23	1:v:109:GLN:HE22	1.20	1.04
1:g:253:PHE:CE1	1:4:548:THR:HG22	1.93	1.04
1:o:300:ILE:HG23	1:8:109:GLN:HE22	1.20	1.04
1:p:300:ILE:HG23	1:x:109:GLN:HE22	1.20	1.04
1:C:253:PHE:CE1	1:K:548:THR:HG22	1.93	1.04
1:F:548:THR:HG22	1:H:253:PHE:CE1	1.93	1.04
1:L:548:THR:HG22	1:c:253:PHE:CE1	1.93	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:548:THR:HG22	1:Z:253:PHE:CE1	1.93	1.04
1:d:253:PHE:CE1	1:r:548:THR:HG22	1.93	1.04
1:o:548:THR:HG22	1:8:253:PHE:CE1	1.93	1.04
1:u:548:THR:HG22	1:4:253:PHE:CE1	1.93	1.04
1:y:548:THR:HG22	1:5:253:PHE:CE1	1.93	1.04
1:E:548:THR:HG22	1:M:253:PHE:CE1	1.93	1.04
1:G:300:ILE:HG23	1:X:109:GLN:HE22	1.20	1.04
1:I:548:THR:HG22	1:K:253:PHE:CE1	1.93	1.04
1:J:253:PHE:CE1	1:7:548:THR:HG22	1.93	1.04
1:Q:253:PHE:CE1	1:V:548:THR:HG22	1.93	1.04
1:S:548:THR:HG22	1:n:253:PHE:CE1	1.93	1.04
1:X:300:ILE:HG23	1:Z:109:GLN:HE22	1.20	1.04
1:Y:548:THR:HG22	1:2:253:PHE:CE1	1.93	1.04
1:e:253:PHE:CE1	1:z:548:THR:HG22	1.93	1.04
1:o:109:GLN:HE22	1:t:300:ILE:HG23	1.20	1.04
1:B:253:PHE:CE1	1:H:548:THR:HG22	1.93	1.04
1:B:548:THR:HG22	1:F:253:PHE:CE1	1.93	1.04
1:h:253:PHE:CE1	1:w:548:THR:HG22	1.93	1.04
1:p:548:THR:HG22	1:x:253:PHE:CE1	1.93	1.04
1:y:253:PHE:CE1	1:1:548:THR:HG22	1.93	1.04
1:1:253:PHE:CE1	1:5:548:THR:HG22	1.93	1.04
1:A:253:PHE:CE1	1:R:548:THR:HG22	1.93	1.03
1:E:300:ILE:HG23	1:M:109:GLN:HE22	1.20	1.03
1:G:548:THR:HG22	1:X:253:PHE:CE1	1.93	1.03
1:o:253:PHE:CE1	1:t:548:THR:HG22	1.93	1.03
1:q:548:THR:HG22	1:v:253:PHE:CE1	1.93	1.03
1:B:109:GLN:HE22	1:H:300:ILE:HG23	1.20	1.03
1:D:548:THR:HG22	1:L:253:PHE:CE1	1.93	1.03
1:E:253:PHE:CE1	1:O:548:THR:HG22	1.93	1.03
1:U:548:THR:HG22	1:f:253:PHE:CE1	1.93	1.03
1:W:253:PHE:CE1	1:f:548:THR:HG22	1.93	1.03
1:b:253:PHE:CE1	1:s:548:THR:HG22	1.93	1.03
1:j:253:PHE:CE1	1:v:548:THR:HG22	1.93	1.03
1:l:548:THR:HG22	1:w:253:PHE:CE1	1.93	1.03
1:A:548:THR:HG22	1:P:253:PHE:CE1	1.93	1.03
1:D:253:PHE:CE1	1:c:548:THR:HG22	1.93	1.03
1:T:548:THR:HG22	1:V:253:PHE:CE1	1.93	1.03
1:b:548:THR:HG22	1:6:253:PHE:CE1	1.93	1.03
1:e:109:GLN:HE22	1:z:300:ILE:HG23	1.20	1.03
1:e:548:THR:HG22	1:k:253:PHE:CE1	1.93	1.03
1:k:548:THR:HG22	1:z:253:PHE:CE1	1.93	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:109:GLN:HE22	1:c:300:ILE:HG23	1.20	1.03
1:D:300:ILE:HG23	1:L:109:GLN:HE22	1.20	1.03
1:e:300:ILE:HG23	1:k:109:GLN:HE22	1.20	1.03
1:h:109:GLN:HE22	1:w:300:ILE:HG23	1.20	1.03
1:m:548:THR:HG22	1:p:253:PHE:CE1	1.93	1.03
1:3:548:THR:HG22	1:7:253:PHE:CE1	1.93	1.03
1:L:300:ILE:HG23	1:c:109:GLN:HE22	1.20	1.03
1:M:548:THR:HG22	1:O:253:PHE:CE1	1.93	1.03
1:P:548:THR:HG22	1:R:253:PHE:CE1	1.93	1.03
1:Q:548:THR:HG22	1:T:253:PHE:CE1	1.93	1.03
1:Y:253:PHE:CE1	1:a:548:THR:HG22	1.93	1.03
1:h:548:THR:HG22	1:l:253:PHE:CE1	1.93	1.03
1:m:253:PHE:CE1	1:x:548:THR:HG22	1.93	1.03
1:1:109:GLN:HE22	1:5:300:ILE:HG23	1.20	1.03
1:Q:300:ILE:HG23	1:T:109:GLN:HE22	1.20	1.02
1:j:548:THR:HG22	1:q:253:PHE:CE1	1.93	1.02
1:3:300:ILE:HG23	1:7:109:GLN:HE22	1.20	1.02
1:C:422:SER:HB3	1:I:447:MET:CE	1.90	1.02
1:D:447:MET:CE	1:c:422:SER:HB3	1.90	1.02
1:G:422:SER:HB3	1:X:447:MET:CE	1.90	1.02
1:I:422:SER:HB3	1:K:447:MET:CE	1.90	1.02
1:e:422:SER:HB3	1:k:447:MET:CE	1.90	1.02
1:g:422:SER:HB3	1:u:447:MET:CE	1.90	1.02
1:k:300:ILE:HG23	1:z:109:GLN:HE22	1.20	1.02
1:m:109:GLN:HE22	1:x:300:ILE:HG23	1.20	1.02
1:o:447:MET:CE	1:t:422:SER:HB3	1.90	1.02
1:u:422:SER:HB3	1:4:447:MET:CE	1.90	1.02
1:3:422:SER:HB3	1:7:447:MET:CE	1.90	1.02
1:N:548:THR:HG22	1:r:253:PHE:CE1	1.93	1.02
1:S:253:PHE:CE1	1:i:548:THR:HG22	1.93	1.02
1:U:253:PHE:CE1	1:W:548:THR:HG22	1.93	1.02
1:Y:447:MET:CE	1:a:422:SER:HB3	1.90	1.02
1:s:253:PHE:CE1	1:6:548:THR:HG22	1.93	1.02
1:G:447:MET:CE	1:Z:422:SER:HB3	1.90	1.02
1:M:300:ILE:HG23	1:O:109:GLN:HE22	1.20	1.02
1:U:447:MET:CE	1:W:422:SER:HB3	1.90	1.02
1:Y:109:GLN:HE22	1:a:300:ILE:HG23	1.20	1.02
1:e:447:MET:CE	1:z:422:SER:HB3	1.90	1.02
1:g:447:MET:CE	1:4:422:SER:HB3	1.90	1.02
1:q:422:SER:HB3	1:v:447:MET:CE	1.90	1.02
1:A:447:MET:CE	1:R:422:SER:HB3	1.90	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:447:MET:CE	1:K:422:SER:HB3	1.90	1.02
1:E:422:SER:HB3	1:M:447:MET:CE	1.90	1.02
1:G:109:GLN:HE22	1:Z:300:ILE:HG23	1.20	1.02
1:L:422:SER:HB3	1:c:447:MET:CE	1.90	1.02
1:W:447:MET:CE	1:f:422:SER:HB3	1.90	1.02
1:a:253:PHE:CE1	1:2:548:THR:HG22	1.93	1.02
1:b:422:SER:HB3	1:6:447:MET:CE	1.90	1.02
1:h:447:MET:CE	1:w:422:SER:HB3	1.90	1.02
1:i:253:PHE:CE1	1:n:548:THR:HG22	1.93	1.02
1:s:447:MET:CE	1:6:422:SER:HB3	1.90	1.02
1:t:447:MET:CE	1:8:422:SER:HB3	1.90	1.02
1:A:422:SER:HB3	1:P:447:MET:CE	1.89	1.01
1:C:548:THR:HG22	1:I:253:PHE:CE1	1.93	1.01
1:G:253:PHE:CE1	1:Z:548:THR:HG22	1.93	1.01
1:J:447:MET:CE	1:7:422:SER:HB3	1.90	1.01
1:J:548:THR:HG22	1:3:253:PHE:CE1	1.93	1.01
1:N:253:PHE:CE1	1:d:548:THR:HG22	1.93	1.01
1:N:422:SER:HB3	1:r:447:MET:CE	1.90	1.01
1:N:447:MET:CE	1:d:422:SER:HB3	1.90	1.01
1:P:300:ILE:HG23	1:R:109:GLN:HE22	1.20	1.01
1:S:447:MET:CE	1:i:422:SER:HB3	1.90	1.01
1:h:300:ILE:HG23	1:l:109:GLN:HE22	1.20	1.01
1:j:300:ILE:HG23	1:q:109:GLN:HE22	1.20	1.01
1:j:447:MET:CE	1:v:422:SER:HB3	1.90	1.01
1:m:422:SER:HB3	1:p:447:MET:CE	1.90	1.01
1:t:253:PHE:CE1	1:8:548:THR:HG22	1.93	1.01
1:E:109:GLN:HE22	1:O:300:ILE:HG23	1.20	1.01
1:J:422:SER:HB3	1:3:447:MET:CE	1.90	1.01
1:T:422:SER:HB3	1:V:447:MET:CE	1.90	1.01
1:b:447:MET:CE	1:s:422:SER:HB3	1.90	1.01
1:g:109:GLN:HE22	1:4:300:ILE:HG23	1.20	1.01
1:g:548:THR:HG22	1:u:253:PHE:CE1	1.93	1.01
1:i:447:MET:CE	1:n:422:SER:HB3	1.90	1.01
1:t:109:GLN:HE22	1:8:300:ILE:HG23	1.20	1.01
1:A:300:ILE:HG23	1:P:109:GLN:HE22	1.20	1.01
1:U:422:SER:HB3	1:f:447:MET:CE	1.90	1.01
1:Y:300:ILE:HG23	1:2:109:GLN:HE22	1.20	1.01
1:Y:422:SER:HB3	1:2:447:MET:CE	1.90	1.01
1:a:447:MET:CE	1:2:422:SER:HB3	1.90	1.01
1:d:447:MET:CE	1:r:422:SER:HB3	1.90	1.01
1:i:109:GLN:HE22	1:n:300:ILE:HG23	1.20	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:422:SER:HB3	1:z:447:MET:CE	1.90	1.01
1:B:447:MET:CE	1:H:422:SER:HB3	1.90	1.01
1:D:422:SER:HB3	1:L:447:MET:CE	1.90	1.01
1:Q:447:MET:CE	1:V:422:SER:HB3	1.90	1.01
1:S:422:SER:HB3	1:n:447:MET:CE	1.90	1.01
1:j:109:GLN:HE22	1:v:300:ILE:HG23	1.20	1.01
1:l:300:ILE:HG23	1:w:109:GLN:HE22	1.20	1.01
1:y:422:SER:HB3	1:5:447:MET:CE	1.90	1.01
1:C:109:GLN:HE22	1:K:300:ILE:HG23	1.20	1.01
1:J:109:GLN:HE22	1:7:300:ILE:HG23	1.20	1.01
1:N:109:GLN:HE22	1:d:300:ILE:HG23	1.20	1.01
1:X:422:SER:HB3	1:Z:447:MET:CE	1.90	1.01
1:h:422:SER:HB3	1:l:447:MET:CE	1.90	1.01
1:o:422:SER:HB3	1:8:447:MET:CE	1.90	1.01
1:p:422:SER:HB3	1:x:447:MET:CE	1.90	1.01
1:y:447:MET:CE	1:1:422:SER:HB3	1.90	1.01
1:1:447:MET:CE	1:5:422:SER:HB3	1.90	1.01
1:A:399:PRO:HB3	1:R:320:PHE:CE1	1.96	1.00
1:B:422:SER:HB3	1:F:447:MET:CE	1.90	1.00
1:F:422:SER:HB3	1:H:447:MET:CE	1.90	1.00
1:M:422:SER:HB3	1:O:447:MET:CE	1.90	1.00
1:N:320:PHE:CE1	1:r:399:PRO:HB3	1.97	1.00
1:P:422:SER:HB3	1:R:447:MET:CE	1.90	1.00
1:Q:422:SER:HB3	1:T:447:MET:CE	1.90	1.00
1:S:399:PRO:HB3	1:i:320:PHE:CE1	1.97	1.00
1:l:422:SER:HB3	1:w:447:MET:CE	1.90	1.00
1:m:447:MET:CE	1:x:422:SER:HB3	1.90	1.00
1:D:320:PHE:CE1	1:L:399:PRO:HB3	1.97	1.00
1:D:399:PRO:HB3	1:c:320:PHE:CE1	1.97	1.00
1:E:320:PHE:CE1	1:M:399:PRO:HB3	1.96	1.00
1:E:447:MET:CE	1:O:422:SER:HB3	1.90	1.00
1:P:320:PHE:CE1	1:R:399:PRO:HB3	1.97	1.00
1:T:320:PHE:CE1	1:V:399:PRO:HB3	1.97	1.00
1:U:320:PHE:CE1	1:f:399:PRO:HB3	1.97	1.00
1:b:399:PRO:HB3	1:s:320:PHE:CE1	1.97	1.00
1:e:320:PHE:CE1	1:k:399:PRO:HB3	1.97	1.00
1:h:399:PRO:HB3	1:w:320:PHE:CE1	1.96	1.00
1:k:320:PHE:CE1	1:z:399:PRO:HB3	1.97	1.00
1:m:320:PHE:CE1	1:p:399:PRO:HB3	1.97	1.00
1:q:320:PHE:CE1	1:v:399:PRO:HB3	1.97	1.00
1:N:399:PRO:HB3	1:d:320:PHE:CE1	1.97	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:320:PHE:CE1	1:q:399:PRO:HB3	1.97	1.00
1:j:422:SER:HB3	1:q:447:MET:CE	1.90	1.00
1:l:320:PHE:CE1	1:w:399:PRO:HB3	1.96	1.00
1:E:399:PRO:HB3	1:O:320:PHE:CE1	1.96	1.00
1:F:320:PHE:CE1	1:H:399:PRO:HB3	1.97	1.00
1:d:109:GLN:HE22	1:r:300:ILE:HG23	1.20	1.00
1:i:399:PRO:HB3	1:n:320:PHE:CE1	1.97	1.00
1:y:320:PHE:CE1	1:5:399:PRO:HB3	1.97	1.00
1:o:320:PHE:CE1	1:8:399:PRO:HB3	1.96	1.00
1:p:320:PHE:CE1	1:x:399:PRO:HB3	1.97	1.00
1:B:320:PHE:CE1	1:F:399:PRO:HB3	1.97	1.00
1:I:320:PHE:CE1	1:K:399:PRO:HB3	1.97	1.00
1:Q:399:PRO:HB3	1:V:320:PHE:CE1	1.97	1.00
1:u:320:PHE:CE1	1:4:399:PRO:HB3	1.97	1.00
1:X:320:PHE:CE1	1:Z:399:PRO:HB3	1.96	1.00
1:S:300:ILE:HG23	1:n:109:GLN:HE22	1.20	0.99
1:h:320:PHE:CE1	1:l:399:PRO:HB3	1.96	0.99
1:B:399:PRO:HB3	1:H:320:PHE:CE1	1.97	0.99
1:J:320:PHE:CE1	1:3:399:PRO:HB3	1.97	0.99
1:j:399:PRO:HB3	1:v:320:PHE:CE1	1.97	0.99
1:y:399:PRO:HB3	1:1:320:PHE:CE1	1.97	0.99
1:A:320:PHE:CE1	1:P:399:PRO:HB3	1.97	0.99
1:C:399:PRO:HB3	1:K:320:PHE:CE1	1.97	0.99
1:G:399:PRO:HB3	1:Z:320:PHE:CE1	1.96	0.99
1:Q:320:PHE:CE1	1:T:399:PRO:HB3	1.97	0.99
1:1:399:PRO:HB3	1:5:320:PHE:CE1	1.97	0.99
1:L:462:PHE:CD2	1:c:483:HIS:HE1	1.81	0.99
1:M:320:PHE:CE1	1:O:399:PRO:HB3	1.96	0.99
1:Y:483:HIS:HE1	1:a:462:PHE:CD2	1.81	0.99
1:m:399:PRO:HB3	1:x:320:PHE:CE1	1.97	0.99
1:3:462:PHE:CD2	1:7:483:HIS:HE1	1.81	0.99
1:C:462:PHE:CD2	1:I:483:HIS:HE1	1.81	0.99
1:a:399:PRO:HB3	1:2:320:PHE:CE1	1.97	0.99
1:e:483:HIS:HE1	1:z:462:PHE:CD2	1.81	0.99
1:g:399:PRO:HB3	1:4:320:PHE:CE1	1.97	0.99
1:g:462:PHE:CD2	1:u:483:HIS:HE1	1.81	0.99
1:t:399:PRO:HB3	1:8:320:PHE:CE1	1.96	0.99
1:N:483:HIS:HE1	1:d:462:PHE:CD2	1.81	0.99
1:Q:483:HIS:HE1	1:V:462:PHE:CD2	1.81	0.99
1:S:320:PHE:CE1	1:n:399:PRO:HB3	1.97	0.99
1:U:399:PRO:HB3	1:W:320:PHE:CE1	1.97	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:462:PHE:CD2	1:x:483:HIS:HE1	1.81	0.99
1:s:399:PRO:HB3	1:6:320:PHE:CE1	1.97	0.99
1:d:399:PRO:HB3	1:r:320:PHE:CE1	1.97	0.99
1:i:483:HIS:HE1	1:n:462:PHE:CD2	1.81	0.99
1:G:483:HIS:HE1	1:Z:462:PHE:CD2	1.81	0.99
1:J:399:PRO:HB3	1:7:320:PHE:CE1	1.97	0.99
1:W:483:HIS:HE1	1:f:462:PHE:CD2	1.81	0.99
1:e:399:PRO:HB3	1:z:320:PHE:CE1	1.97	0.99
1:E:462:PHE:CD2	1:M:483:HIS:HE1	1.81	0.99
1:Y:320:PHE:CE1	1:2:399:PRO:HB3	1.97	0.99
1:b:462:PHE:CD2	1:6:483:HIS:HE1	1.81	0.99
1:h:483:HIS:HE1	1:w:462:PHE:CD2	1.81	0.99
1:q:462:PHE:CD2	1:v:483:HIS:HE1	1.81	0.99
1:t:483:HIS:HE1	1:8:462:PHE:CD2	1.81	0.99
1:L:320:PHE:CE1	1:c:399:PRO:HB3	1.97	0.99
1:Y:399:PRO:HB3	1:a:320:PHE:CE1	1.97	0.99
1:s:483:HIS:HE1	1:6:462:PHE:CD2	1.81	0.99
1:3:320:PHE:CE1	1:7:399:PRO:HB3	1.97	0.99
1:A:483:HIS:HE1	1:R:462:PHE:CD2	1.81	0.98
1:S:462:PHE:CD2	1:n:483:HIS:HE1	1.81	0.98
1:U:483:HIS:HE1	1:W:462:PHE:CD2	1.81	0.98
1:b:320:PHE:CE1	1:6:399:PRO:HB3	1.97	0.98
1:h:462:PHE:CD2	1:l:483:HIS:HE1	1.81	0.98
1:G:320:PHE:CE1	1:X:399:PRO:HB3	1.96	0.98
1:a:483:HIS:HE1	1:2:462:PHE:CD2	1.81	0.98
1:d:483:HIS:HE1	1:r:462:PHE:CD2	1.81	0.98
1:A:483:HIS:CE1	1:R:462:PHE:O	2.16	0.98
1:J:462:PHE:CD2	1:3:483:HIS:HE1	1.81	0.98
1:M:462:PHE:CD2	1:O:483:HIS:HE1	1.81	0.98
1:W:399:PRO:HB3	1:f:320:PHE:CE1	1.97	0.98
1:o:399:PRO:HB3	1:t:320:PHE:CE1	1.96	0.98
1:F:462:PHE:CD2	1:H:483:HIS:HE1	1.81	0.98
1:N:462:PHE:CD2	1:r:483:HIS:HE1	1.81	0.98
1:l:462:PHE:O	1:w:483:HIS:CE1	2.17	0.98
1:m:462:PHE:CD2	1:p:483:HIS:HE1	1.81	0.98
1:o:483:HIS:HE1	1:t:462:PHE:CD2	1.81	0.98
1:D:462:PHE:O	1:L:483:HIS:CE1	2.17	0.98
1:E:483:HIS:CE1	1:O:462:PHE:O	2.17	0.98
1:F:462:PHE:O	1:H:483:HIS:CE1	2.17	0.98
1:G:462:PHE:CD2	1:X:483:HIS:HE1	1.81	0.98
1:J:231:ASN:HD22	1:7:431:GLN:HG2	1.29	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:483:HIS:HE1	1:7:462:PHE:CD2	1.81	0.98
1:M:462:PHE:O	1:O:483:HIS:CE1	2.17	0.98
1:T:462:PHE:CD2	1:V:483:HIS:HE1	1.81	0.98
1:Y:431:GLN:HG2	1:2:231:ASN:HD22	1.29	0.98
1:Y:462:PHE:CD2	1:2:483:HIS:HE1	1.81	0.98
1:g:462:PHE:O	1:u:483:HIS:CE1	2.17	0.98
1:k:462:PHE:O	1:z:483:HIS:CE1	2.17	0.98
1:y:462:PHE:CD2	1:5:483:HIS:HE1	1.81	0.98
1:C:462:PHE:O	1:I:483:HIS:CE1	2.17	0.98
1:E:431:GLN:HG2	1:M:231:ASN:HD22	1.29	0.98
1:J:431:GLN:HG2	1:3:231:ASN:HD22	1.29	0.98
1:S:483:HIS:HE1	1:i:462:PHE:CD2	1.81	0.98
1:a:231:ASN:HD22	1:2:431:GLN:HG2	1.29	0.98
1:h:462:PHE:O	1:l:483:HIS:CE1	2.17	0.98
1:l:462:PHE:CD2	1:w:483:HIS:HE1	1.81	0.98
1:q:462:PHE:O	1:v:483:HIS:CE1	2.17	0.98
1:y:462:PHE:O	1:5:483:HIS:CE1	2.17	0.98
1:U:462:PHE:O	1:f:483:HIS:CE1	2.17	0.98
1:b:483:HIS:CE1	1:s:462:PHE:O	2.17	0.98
1:g:320:PHE:CE1	1:u:399:PRO:HB3	1.97	0.98
1:m:431:GLN:HG2	1:p:231:ASN:HD22	1.29	0.98
1:E:483:HIS:HE1	1:O:462:PHE:CD2	1.81	0.98
1:Y:483:HIS:CE1	1:a:462:PHE:O	2.17	0.98
1:h:231:ASN:HD22	1:w:431:GLN:HG2	1.29	0.98
1:j:462:PHE:CD2	1:q:483:HIS:HE1	1.81	0.98
1:A:462:PHE:O	1:P:483:HIS:CE1	2.17	0.98
1:B:462:PHE:CD2	1:F:483:HIS:HE1	1.81	0.98
1:C:320:PHE:CE1	1:I:399:PRO:HB3	1.97	0.98
1:L:462:PHE:O	1:c:483:HIS:CE1	2.17	0.98
1:Q:462:PHE:O	1:T:483:HIS:CE1	2.17	0.98
1:T:431:GLN:HG2	1:V:231:ASN:HD22	1.29	0.98
1:g:483:HIS:CE1	1:4:462:PHE:O	2.17	0.98
1:k:462:PHE:CD2	1:z:483:HIS:HE1	1.81	0.98
1:m:483:HIS:CE1	1:x:462:PHE:O	2.17	0.98
1:1:231:ASN:HD22	1:5:431:GLN:HG2	1.29	0.98
1:3:462:PHE:O	1:7:483:HIS:CE1	2.17	0.98
1:B:483:HIS:HE1	1:H:462:PHE:CD2	1.81	0.98
1:B:483:HIS:CE1	1:H:462:PHE:O	2.17	0.98
1:C:483:HIS:CE1	1:K:462:PHE:O	2.17	0.98
1:C:483:HIS:HE1	1:K:462:PHE:CD2	1.81	0.98
1:I:431:GLN:HG2	1:K:231:ASN:HD22	1.29	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:483:HIS:CE1	1:7:462:PHE:O	2.17	0.98
1:P:462:PHE:CD2	1:R:483:HIS:HE1	1.81	0.98
1:e:483:HIS:CE1	1:z:462:PHE:O	2.17	0.98
1:o:483:HIS:CE1	1:t:462:PHE:O	2.17	0.98
1:y:483:HIS:HE1	1:1:462:PHE:CD2	1.81	0.98
1:A:462:PHE:CD2	1:P:483:HIS:HE1	1.81	0.97
1:B:231:ASN:HD22	1:H:431:GLN:HG2	1.29	0.97
1:D:462:PHE:CD2	1:L:483:HIS:HE1	1.81	0.97
1:E:462:PHE:O	1:M:483:HIS:CE1	2.17	0.97
1:G:462:PHE:O	1:X:483:HIS:CE1	2.17	0.97
1:I:462:PHE:CD2	1:K:483:HIS:HE1	1.81	0.97
1:Q:462:PHE:CD2	1:T:483:HIS:HE1	1.81	0.97
1:T:462:PHE:O	1:V:483:HIS:CE1	2.17	0.97
1:X:431:GLN:HG2	1:Z:231:ASN:HD22	1.29	0.97
1:X:462:PHE:CD2	1:Z:483:HIS:HE1	1.81	0.97
1:Y:462:PHE:O	1:2:483:HIS:CE1	2.17	0.97
1:g:483:HIS:HE1	1:4:462:PHE:CD2	1.81	0.97
1:m:462:PHE:O	1:p:483:HIS:CE1	2.17	0.97
1:m:483:HIS:HE1	1:x:462:PHE:CD2	1.81	0.97
1:o:431:GLN:HG2	1:8:231:ASN:HD22	1.29	0.97
1:u:431:GLN:HG2	1:4:231:ASN:HD22	1.29	0.97
1:u:462:PHE:CD2	1:4:483:HIS:HE1	1.81	0.97
1:1:483:HIS:CE1	1:5:462:PHE:O	2.17	0.97
1:1:483:HIS:HE1	1:5:462:PHE:CD2	1.81	0.97
1:C:231:ASN:HD22	1:K:431:GLN:HG2	1.29	0.97
1:b:483:HIS:HE1	1:s:462:PHE:CD2	1.81	0.97
1:g:231:ASN:HD22	1:4:431:GLN:HG2	1.29	0.97
1:h:483:HIS:CE1	1:w:462:PHE:O	2.17	0.97
1:i:483:HIS:CE1	1:n:462:PHE:O	2.17	0.97
1:j:483:HIS:CE1	1:v:462:PHE:O	2.17	0.97
1:o:462:PHE:CD2	1:8:483:HIS:HE1	1.81	0.97
1:s:483:HIS:CE1	1:6:462:PHE:O	2.17	0.97
1:N:483:HIS:CE1	1:d:462:PHE:O	2.17	0.97
1:Q:483:HIS:CE1	1:V:462:PHE:O	2.17	0.97
1:S:483:HIS:CE1	1:i:462:PHE:O	2.17	0.97
1:U:462:PHE:CD2	1:f:483:HIS:HE1	1.81	0.97
1:U:483:HIS:CE1	1:W:462:PHE:O	2.17	0.97
1:j:483:HIS:HE1	1:v:462:PHE:CD2	1.81	0.97
1:U:231:ASN:HD22	1:W:431:GLN:HG2	1.29	0.97
1:p:462:PHE:O	1:x:483:HIS:CE1	2.17	0.97
1:N:462:PHE:O	1:r:483:HIS:CE1	2.17	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:462:PHE:O	1:n:483:HIS:CE1	2.17	0.97
1:U:431:GLN:HG2	1:f:231:ASN:HD22	1.29	0.97
1:a:483:HIS:CE1	1:2:462:PHE:O	2.17	0.97
1:b:231:ASN:HD22	1:s:431:GLN:HG2	1.29	0.97
1:d:483:HIS:CE1	1:r:462:PHE:O	2.17	0.97
1:A:431:GLN:HG2	1:P:231:ASN:HD22	1.29	0.97
1:W:483:HIS:CE1	1:f:462:PHE:O	2.17	0.97
1:j:231:ASN:HD22	1:v:431:GLN:HG2	1.29	0.97
1:I:462:PHE:O	1:K:483:HIS:CE1	2.17	0.97
1:J:462:PHE:O	1:3:483:HIS:CE1	2.17	0.97
1:b:462:PHE:O	1:6:483:HIS:CE1	2.17	0.97
1:e:462:PHE:CD2	1:k:483:HIS:HE1	1.81	0.97
1:o:462:PHE:O	1:8:483:HIS:CE1	2.17	0.97
1:u:462:PHE:O	1:4:483:HIS:CE1	2.17	0.97
1:3:431:GLN:HG2	1:7:231:ASN:HD22	1.29	0.97
1:B:462:PHE:O	1:F:483:HIS:CE1	2.17	0.97
1:Y:231:ASN:HD22	1:a:431:GLN:HG2	1.29	0.97
1:s:231:ASN:HD22	1:6:431:GLN:HG2	1.29	0.97
1:D:483:HIS:HE1	1:c:462:PHE:CD2	1.81	0.97
1:X:462:PHE:O	1:Z:483:HIS:CE1	2.17	0.97
1:y:483:HIS:CE1	1:1:462:PHE:O	2.17	0.97
1:G:231:ASN:HD22	1:Z:431:GLN:HG2	1.29	0.97
1:P:462:PHE:O	1:R:483:HIS:CE1	2.17	0.97
1:j:462:PHE:O	1:q:483:HIS:CE1	2.17	0.97
1:t:483:HIS:CE1	1:8:462:PHE:O	2.17	0.97
1:D:483:HIS:CE1	1:c:462:PHE:O	2.17	0.96
1:G:483:HIS:CE1	1:Z:462:PHE:O	2.17	0.96
1:e:462:PHE:O	1:k:483:HIS:CE1	2.17	0.96
1:k:431:GLN:HG2	1:z:231:ASN:HD22	1.29	0.96
1:t:231:ASN:HD22	1:8:431:GLN:HG2	1.29	0.96
1:N:431:GLN:HG2	1:r:231:ASN:HD22	1.29	0.96
1:C:431:GLN:HG2	1:I:231:ASN:HD22	1.29	0.96
1:i:231:ASN:HD22	1:n:431:GLN:HG2	1.29	0.96
1:B:483:HIS:HB2	1:H:486:ARG:HH21	1.31	0.96
1:S:231:ASN:HD22	1:i:431:GLN:HG2	1.29	0.96
1:1:483:HIS:HB2	1:5:486:ARG:HH21	1.31	0.96
1:D:431:GLN:HG2	1:L:231:ASN:HD22	1.29	0.96
1:g:431:GLN:HG2	1:u:231:ASN:HD22	1.29	0.96
1:j:483:HIS:HB2	1:v:486:ARG:HH21	1.31	0.96
1:j:483:HIS:CD2	1:v:464:HIS:HD2	1.84	0.96
1:q:431:GLN:HG2	1:v:231:ASN:HD22	1.29	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:ARG:HH21	1:P:483:HIS:HB2	1.31	0.96
1:U:483:HIS:CD2	1:W:464:HIS:HD2	1.84	0.96
1:s:483:HIS:CD2	1:6:464:HIS:HD2	1.84	0.96
1:L:300:ILE:HG23	1:c:109:GLN:NE2	1.81	0.96
1:N:231:ASN:HD22	1:d:431:GLN:HG2	1.29	0.96
1:U:486:ARG:HH21	1:f:483:HIS:HB2	1.31	0.96
1:e:109:GLN:NE2	1:z:300:ILE:HG23	1.81	0.96
1:A:109:GLN:NE2	1:R:300:ILE:HG23	1.81	0.96
1:C:483:HIS:CD2	1:K:464:HIS:HD2	1.84	0.96
1:Q:109:GLN:NE2	1:V:300:ILE:HG23	1.81	0.96
1:b:483:HIS:HB2	1:s:486:ARG:HH21	1.31	0.96
1:g:483:HIS:CD2	1:4:464:HIS:HD2	1.84	0.96
1:o:483:HIS:CD2	1:t:464:HIS:HD2	1.84	0.96
1:p:300:ILE:HG23	1:x:109:GLN:NE2	1.81	0.96
1:A:231:ASN:HD22	1:R:431:GLN:HG2	1.29	0.95
1:A:464:HIS:HD2	1:P:483:HIS:CD2	1.84	0.95
1:B:431:GLN:HG2	1:F:231:ASN:HD22	1.29	0.95
1:G:464:HIS:HD2	1:X:483:HIS:CD2	1.84	0.95
1:b:300:ILE:HG23	1:6:109:GLN:NE2	1.81	0.95
1:b:464:HIS:HD2	1:6:483:HIS:CD2	1.84	0.95
1:o:231:ASN:HD22	1:t:431:GLN:HG2	1.29	0.95
1:q:300:ILE:HG23	1:v:109:GLN:NE2	1.81	0.95
1:G:431:GLN:HG2	1:X:231:ASN:HD22	1.29	0.95
1:U:300:ILE:HG23	1:f:109:GLN:NE2	1.81	0.95
1:W:109:GLN:NE2	1:f:300:ILE:HG23	1.81	0.95
1:e:483:HIS:CD2	1:z:464:HIS:HD2	1.84	0.95
1:s:483:HIS:HB2	1:6:486:ARG:HH21	1.31	0.95
1:A:483:HIS:CD2	1:R:464:HIS:CD2	2.54	0.95
1:J:483:HIS:HB2	1:7:486:ARG:HH21	1.31	0.95
1:L:464:HIS:HD2	1:c:483:HIS:CD2	1.84	0.95
1:P:464:HIS:CD2	1:R:483:HIS:CD2	2.54	0.95
1:S:464:HIS:HD2	1:n:483:HIS:CD2	1.84	0.95
1:U:483:HIS:HB2	1:W:486:ARG:HH21	1.31	0.95
1:W:483:HIS:CD2	1:f:464:HIS:HD2	1.84	0.95
1:b:109:GLN:NE2	1:s:300:ILE:HG23	1.81	0.95
1:j:464:HIS:CD2	1:q:483:HIS:CD2	2.54	0.95
1:l:486:ARG:HH21	1:w:483:HIS:HB2	1.31	0.95
1:q:464:HIS:CD2	1:v:483:HIS:CD2	2.54	0.95
1:A:483:HIS:CD2	1:R:464:HIS:HD2	1.84	0.95
1:B:109:GLN:NE2	1:H:300:ILE:HG23	1.81	0.95
1:D:231:ASN:HD22	1:c:431:GLN:HG2	1.29	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:483:HIS:CD2	1:Z:464:HIS:HD2	1.84	0.95
1:J:483:HIS:CD2	1:7:464:HIS:HD2	1.84	0.95
1:X:464:HIS:CD2	1:Z:483:HIS:CD2	2.54	0.95
1:d:483:HIS:CD2	1:r:464:HIS:HD2	1.84	0.95
1:k:464:HIS:CD2	1:z:483:HIS:CD2	2.54	0.95
1:o:464:HIS:CD2	1:8:483:HIS:CD2	2.54	0.95
1:y:231:ASN:HD22	1:1:431:GLN:HG2	1.29	0.95
1:B:483:HIS:CD2	1:H:464:HIS:HD2	1.84	0.95
1:D:464:HIS:CD2	1:L:483:HIS:CD2	2.54	0.95
1:E:483:HIS:HB2	1:O:486:ARG:HH21	1.31	0.95
1:N:483:HIS:CD2	1:d:464:HIS:HD2	1.84	0.95
1:P:486:ARG:HH21	1:R:483:HIS:HB2	1.31	0.95
1:Y:464:HIS:HD2	1:2:483:HIS:CD2	1.84	0.95
1:Y:486:ARG:HH21	1:2:483:HIS:HB2	1.31	0.95
1:d:483:HIS:HD2	1:r:464:HIS:HD2	0.96	0.95
1:e:486:ARG:HH21	1:k:483:HIS:HB2	1.31	0.95
1:i:483:HIS:CD2	1:n:464:HIS:HD2	1.84	0.95
1:q:464:HIS:HD2	1:v:483:HIS:CD2	1.84	0.95
1:1:109:GLN:NE2	1:5:300:ILE:HG23	1.81	0.95
1:1:483:HIS:CD2	1:5:464:HIS:HD2	1.84	0.95
1:J:109:GLN:NE2	1:7:300:ILE:HG23	1.81	0.95
1:M:464:HIS:CD2	1:O:483:HIS:CD2	2.54	0.95
1:Q:483:HIS:CD2	1:V:464:HIS:HD2	1.84	0.95
1:S:431:GLN:HG2	1:n:231:ASN:HD22	1.29	0.95
1:b:486:ARG:HH21	1:6:483:HIS:HB2	1.31	0.95
1:d:231:ASN:HD22	1:r:431:GLN:HG2	1.29	0.95
1:e:431:GLN:HG2	1:k:231:ASN:HD22	1.29	0.95
1:e:464:HIS:CD2	1:k:483:HIS:CD2	2.54	0.95
1:h:464:HIS:CD2	1:l:483:HIS:CD2	2.54	0.95
1:h:483:HIS:HB2	1:w:486:ARG:HH21	1.31	0.95
1:m:231:ASN:HD22	1:x:431:GLN:HG2	1.29	0.95
1:t:483:HIS:CD2	1:8:464:HIS:HD2	1.84	0.95
1:D:483:HIS:HB2	1:c:486:ARG:HH21	1.31	0.95
1:E:109:GLN:NE2	1:O:300:ILE:HG23	1.81	0.95
1:J:464:HIS:HD2	1:3:483:HIS:HD2	0.96	0.95
1:M:431:GLN:HG2	1:O:231:ASN:HD22	1.29	0.95
1:N:483:HIS:CD2	1:d:464:HIS:CD2	2.54	0.95
1:N:486:ARG:HH21	1:r:483:HIS:HB2	1.31	0.95
1:Q:431:GLN:HG2	1:T:231:ASN:HD22	1.29	0.95
1:Q:464:HIS:CD2	1:T:483:HIS:CD2	2.54	0.95
1:S:483:HIS:HB2	1:i:486:ARG:HH21	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:483:HIS:HB2	1:f:486:ARG:HH21	1.31	0.95
1:Y:300:ILE:HG23	1:2:109:GLN:NE2	1.81	0.95
1:Y:483:HIS:CD2	1:a:464:HIS:CD2	2.54	0.95
1:j:486:ARG:HH21	1:q:483:HIS:HB2	1.31	0.95
1:l:464:HIS:HD2	1:w:483:HIS:CD2	1.84	0.95
1:m:483:HIS:CD2	1:x:464:HIS:CD2	2.54	0.95
1:y:464:HIS:HD2	1:5:483:HIS:CD2	1.84	0.95
1:D:483:HIS:CD2	1:c:464:HIS:CD2	2.54	0.95
1:E:483:HIS:CD2	1:O:464:HIS:HD2	1.84	0.95
1:E:486:ARG:HH21	1:M:483:HIS:HB2	1.31	0.95
1:J:464:HIS:CD2	1:3:483:HIS:CD2	2.54	0.95
1:S:464:HIS:HD2	1:n:483:HIS:HD2	0.96	0.95
1:a:483:HIS:HD2	1:2:464:HIS:HD2	0.96	0.95
1:e:464:HIS:HD2	1:k:483:HIS:CD2	1.84	0.95
1:i:109:GLN:NE2	1:n:300:ILE:HG23	1.81	0.95
1:i:483:HIS:CD2	1:n:464:HIS:CD2	2.54	0.95
1:l:300:ILE:HG23	1:w:109:GLN:NE2	1.81	0.95
1:p:464:HIS:HD2	1:x:483:HIS:CD2	1.84	0.95
1:s:109:GLN:NE2	1:6:300:ILE:HG23	1.81	0.95
1:u:300:ILE:HG23	1:4:109:GLN:NE2	1.81	0.95
1:3:464:HIS:CD2	1:7:483:HIS:CD2	2.54	0.95
1:D:483:HIS:CD2	1:c:464:HIS:HD2	1.84	0.95
1:E:483:HIS:CD2	1:O:464:HIS:CD2	2.54	0.95
1:F:300:ILE:HG23	1:H:109:GLN:NE2	1.81	0.95
1:F:464:HIS:HD2	1:H:483:HIS:CD2	1.84	0.95
1:J:486:ARG:HH21	1:3:483:HIS:HB2	1.31	0.95
1:L:431:GLN:HG2	1:c:231:ASN:HD22	1.29	0.95
1:P:300:ILE:HG23	1:R:109:GLN:NE2	1.81	0.95
1:U:109:GLN:NE2	1:W:300:ILE:HG23	1.81	0.95
1:W:231:ASN:HD22	1:f:431:GLN:HG2	1.29	0.95
1:W:483:HIS:HD2	1:f:464:HIS:HD2	0.96	0.95
1:Y:483:HIS:HB2	1:a:486:ARG:HH21	1.31	0.95
1:a:483:HIS:CD2	1:2:464:HIS:CD2	2.54	0.95
1:e:231:ASN:HD22	1:z:431:GLN:HG2	1.29	0.95
1:h:431:GLN:HG2	1:l:231:ASN:HD22	1.29	0.95
1:l:464:HIS:CD2	1:w:483:HIS:CD2	2.54	0.95
1:m:109:GLN:NE2	1:x:300:ILE:HG23	1.81	0.95
1:p:486:ARG:HH21	1:x:483:HIS:HB2	1.31	0.95
1:u:464:HIS:HD2	1:4:483:HIS:CD2	1.84	0.95
1:3:464:HIS:HD2	1:7:483:HIS:CD2	1.84	0.95
1:B:464:HIS:HD2	1:F:483:HIS:CD2	1.84	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:ARG:HH21	1:F:483:HIS:HB2	1.31	0.95
1:I:300:ILE:HG23	1:K:109:GLN:NE2	1.81	0.95
1:I:464:HIS:HD2	1:K:483:HIS:CD2	1.84	0.95
1:N:109:GLN:NE2	1:d:300:ILE:HG23	1.81	0.95
1:Q:300:ILE:HG23	1:T:109:GLN:NE2	1.81	0.95
1:Q:483:HIS:CD2	1:V:464:HIS:CD2	2.54	0.95
1:S:300:ILE:HG23	1:n:109:GLN:NE2	1.81	0.95
1:U:422:SER:HB3	1:f:447:MET:HE1	1.49	0.95
1:X:464:HIS:HD2	1:Z:483:HIS:CD2	1.84	0.95
1:e:300:ILE:HG23	1:k:109:GLN:NE2	1.81	0.95
1:g:464:HIS:CD2	1:u:483:HIS:CD2	2.54	0.95
1:h:483:HIS:CD2	1:w:464:HIS:HD2	1.84	0.95
1:j:300:ILE:HG23	1:q:109:GLN:NE2	1.81	0.95
1:j:483:HIS:CD2	1:v:464:HIS:CD2	2.54	0.95
1:l:431:GLN:HG2	1:w:231:ASN:HD22	1.29	0.95
1:o:464:HIS:HD2	1:8:483:HIS:CD2	1.84	0.95
1:q:486:ARG:HH21	1:v:483:HIS:HB2	1.31	0.95
1:y:300:ILE:HG23	1:5:109:GLN:NE2	1.81	0.95
1:y:483:HIS:CD2	1:1:464:HIS:CD2	2.54	0.95
1:1:483:HIS:CD2	1:5:464:HIS:CD2	2.54	0.95
1:3:422:SER:HB3	1:7:447:MET:HE1	1.49	0.95
1:B:464:HIS:CD2	1:F:483:HIS:CD2	2.54	0.94
1:C:464:HIS:CD2	1:I:483:HIS:CD2	2.54	0.94
1:D:109:GLN:NE2	1:c:300:ILE:HG23	1.81	0.94
1:E:231:ASN:HD22	1:O:431:GLN:HG2	1.29	0.94
1:E:464:HIS:CD2	1:M:483:HIS:CD2	2.54	0.94
1:N:464:HIS:CD2	1:r:483:HIS:CD2	2.54	0.94
1:P:431:GLN:HG2	1:R:231:ASN:HD22	1.29	0.94
1:Q:464:HIS:HD2	1:T:483:HIS:CD2	1.84	0.94
1:W:447:MET:HE1	1:f:422:SER:HB3	1.49	0.94
1:Y:447:MET:HE1	1:a:422:SER:HB3	1.49	0.94
1:Y:483:HIS:CD2	1:a:464:HIS:HD2	1.84	0.94
1:b:422:SER:HB3	1:6:447:MET:HE1	1.49	0.94
1:b:447:MET:HE1	1:s:422:SER:HB3	1.49	0.94
1:b:464:HIS:HD2	1:6:483:HIS:HD2	0.96	0.94
1:d:109:GLN:NE2	1:r:300:ILE:HG23	1.81	0.94
1:h:483:HIS:CD2	1:w:464:HIS:CD2	2.54	0.94
1:p:464:HIS:CD2	1:x:483:HIS:CD2	2.54	0.94
1:y:483:HIS:HB2	1:1:486:ARG:HH21	1.31	0.94
1:3:486:ARG:HH21	1:7:483:HIS:HB2	1.31	0.94
1:A:462:PHE:O	1:P:483:HIS:NE2	2.00	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:483:HIS:HB2	1:R:486:ARG:HH21	1.31	0.94
1:B:483:HIS:CD2	1:H:464:HIS:CD2	2.54	0.94
1:C:483:HIS:HB2	1:K:486:ARG:HH21	1.31	0.94
1:E:464:HIS:HD2	1:M:483:HIS:CD2	1.84	0.94
1:G:464:HIS:CD2	1:X:483:HIS:CD2	2.54	0.94
1:L:464:HIS:CD2	1:c:483:HIS:CD2	2.54	0.94
1:M:464:HIS:HD2	1:O:483:HIS:CD2	1.84	0.94
1:Q:483:HIS:HB2	1:V:486:ARG:HH21	1.31	0.94
1:S:483:HIS:CD2	1:i:464:HIS:CD2	2.54	0.94
1:a:483:HIS:HB2	1:2:486:ARG:HH21	1.31	0.94
1:b:431:GLN:HG2	1:6:231:ASN:HD22	1.29	0.94
1:g:483:HIS:HB2	1:4:486:ARG:HH21	1.31	0.94
1:g:486:ARG:HH21	1:u:483:HIS:HB2	1.31	0.94
1:m:483:HIS:HB2	1:x:486:ARG:HH21	1.31	0.94
1:y:483:HIS:CD2	1:1:464:HIS:HD2	1.84	0.94
1:C:486:ARG:HH21	1:I:483:HIS:HB2	1.31	0.94
1:D:464:HIS:HD2	1:L:483:HIS:CD2	1.84	0.94
1:S:464:HIS:CD2	1:n:483:HIS:CD2	2.54	0.94
1:Y:464:HIS:CD2	1:2:483:HIS:CD2	2.54	0.94
1:m:464:HIS:CD2	1:p:483:HIS:CD2	2.54	0.94
1:m:483:HIS:CD2	1:x:464:HIS:HD2	1.84	0.94
1:o:483:HIS:CD2	1:t:464:HIS:CD2	2.54	0.94
1:B:300:ILE:HG23	1:F:109:GLN:NE2	1.81	0.94
1:J:300:ILE:HG23	1:3:109:GLN:NE2	1.81	0.94
1:J:483:HIS:CD2	1:7:464:HIS:CD2	2.54	0.94
1:Q:462:PHE:O	1:T:483:HIS:NE2	2.01	0.94
1:S:486:ARG:HH21	1:n:483:HIS:HB2	1.31	0.94
1:T:464:HIS:CD2	1:V:483:HIS:CD2	2.54	0.94
1:X:422:SER:HB3	1:Z:447:MET:HE1	1.49	0.94
1:a:447:MET:HE1	1:2:422:SER:HB3	1.49	0.94
1:e:483:HIS:CD2	1:z:464:HIS:CD2	2.54	0.94
1:g:109:GLN:NE2	1:4:300:ILE:HG23	1.81	0.94
1:g:483:HIS:CD2	1:4:464:HIS:CD2	2.54	0.94
1:h:464:HIS:HD2	1:l:483:HIS:CD2	1.84	0.94
1:m:483:HIS:NE2	1:x:462:PHE:O	2.01	0.94
1:A:300:ILE:HG23	1:P:109:GLN:NE2	1.81	0.94
1:A:483:HIS:HD2	1:R:464:HIS:HD2	0.95	0.94
1:C:109:GLN:NE2	1:K:300:ILE:HG23	1.81	0.94
1:M:300:ILE:HG23	1:O:109:GLN:NE2	1.81	0.94
1:N:464:HIS:HD2	1:r:483:HIS:CD2	1.84	0.94
1:Q:231:ASN:HD22	1:V:431:GLN:HG2	1.29	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:483:HIS:CD2	1:r:464:HIS:CD2	2.54	0.94
1:d:483:HIS:HB2	1:r:486:ARG:HH21	1.31	0.94
1:j:483:HIS:NE2	1:v:462:PHE:O	2.01	0.94
1:p:431:GLN:HG2	1:x:231:ASN:HD22	1.29	0.94
1:u:486:ARG:HH21	1:4:483:HIS:HB2	1.31	0.94
1:y:431:GLN:HG2	1:5:231:ASN:HD22	1.29	0.94
1:A:464:HIS:CD2	1:P:483:HIS:CD2	2.55	0.94
1:C:483:HIS:CD2	1:K:464:HIS:CD2	2.54	0.94
1:F:464:HIS:CD2	1:H:483:HIS:CD2	2.54	0.94
1:I:462:PHE:O	1:K:483:HIS:NE2	2.01	0.94
1:J:422:SER:HB3	1:3:447:MET:HE1	1.49	0.94
1:Q:486:ARG:HH21	1:T:483:HIS:HB2	1.31	0.94
1:S:483:HIS:CD2	1:i:464:HIS:HD2	1.84	0.94
1:a:109:GLN:NE2	1:2:300:ILE:HG23	1.81	0.94
1:g:422:SER:HB3	1:u:447:MET:HE1	1.49	0.94
1:h:300:ILE:HG23	1:l:109:GLN:NE2	1.81	0.94
1:i:447:MET:HE1	1:n:422:SER:HB3	1.49	0.94
1:i:483:HIS:HB2	1:n:486:ARG:HH21	1.31	0.94
1:j:431:GLN:HG2	1:q:231:ASN:HD22	1.29	0.94
1:o:422:SER:HB3	1:8:447:MET:HE1	1.49	0.94
1:y:109:GLN:NE2	1:1:300:ILE:HG23	1.81	0.94
1:y:486:ARG:HH21	1:5:483:HIS:HB2	1.31	0.94
1:A:483:HIS:NE2	1:R:462:PHE:O	2.00	0.94
1:I:486:ARG:HH21	1:K:483:HIS:HB2	1.31	0.94
1:J:464:HIS:HD2	1:3:483:HIS:CD2	1.84	0.94
1:N:300:ILE:HG23	1:r:109:GLN:NE2	1.81	0.94
1:T:300:ILE:HG23	1:V:109:GLN:NE2	1.81	0.94
1:W:483:HIS:CD2	1:f:464:HIS:CD2	2.54	0.94
1:a:483:HIS:CD2	1:2:464:HIS:HD2	1.84	0.94
1:b:483:HIS:CD2	1:s:464:HIS:CD2	2.54	0.94
1:j:109:GLN:NE2	1:v:300:ILE:HG23	1.81	0.94
1:o:300:ILE:HG23	1:8:109:GLN:NE2	1.81	0.94
1:t:109:GLN:NE2	1:8:300:ILE:HG23	1.81	0.94
1:u:462:PHE:O	1:4:483:HIS:NE2	2.01	0.94
1:u:464:HIS:CD2	1:4:483:HIS:CD2	2.54	0.94
1:y:464:HIS:CD2	1:5:483:HIS:CD2	2.54	0.94
1:C:422:SER:HB3	1:I:447:MET:HE1	1.49	0.94
1:C:483:HIS:NE2	1:K:462:PHE:O	2.01	0.94
1:E:300:ILE:HG23	1:M:109:GLN:NE2	1.81	0.94
1:F:431:GLN:HG2	1:H:231:ASN:HD22	1.29	0.94
1:F:486:ARG:HH21	1:H:483:HIS:HB2	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:109:GLN:NE2	1:Z:300:ILE:HG23	1.81	0.94
1:I:464:HIS:CD2	1:K:483:HIS:CD2	2.54	0.94
1:L:422:SER:HB3	1:c:447:MET:HE1	1.49	0.94
1:M:462:PHE:O	1:O:483:HIS:NE2	2.01	0.94
1:N:447:MET:HE1	1:d:422:SER:HB3	1.49	0.94
1:Q:483:HIS:NE2	1:V:462:PHE:O	2.01	0.94
1:S:109:GLN:NE2	1:i:300:ILE:HG23	1.81	0.94
1:U:464:HIS:CD2	1:f:483:HIS:CD2	2.54	0.94
1:U:483:HIS:CD2	1:W:464:HIS:CD2	2.54	0.94
1:X:300:ILE:HG23	1:Z:109:GLN:NE2	1.81	0.94
1:b:464:HIS:CD2	1:6:483:HIS:CD2	2.54	0.94
1:g:483:HIS:NE2	1:4:462:PHE:O	2.01	0.94
1:h:462:PHE:O	1:l:483:HIS:NE2	2.01	0.94
1:k:300:ILE:HG23	1:z:109:GLN:NE2	1.81	0.94
1:m:300:ILE:HG23	1:p:109:GLN:NE2	1.81	0.94
1:m:422:SER:HB3	1:p:447:MET:HE1	1.49	0.94
1:m:464:HIS:HD2	1:p:483:HIS:HD2	0.96	0.94
1:p:462:PHE:O	1:x:483:HIS:NE2	2.01	0.94
1:q:464:HIS:HD2	1:v:483:HIS:HD2	0.96	0.94
1:s:483:HIS:CD2	1:6:464:HIS:CD2	2.54	0.94
1:t:483:HIS:HB2	1:8:486:ARG:HH21	1.31	0.94
1:u:422:SER:HB3	1:4:447:MET:HE1	1.49	0.94
1:D:300:ILE:HG23	1:L:109:GLN:NE2	1.81	0.94
1:I:422:SER:HB3	1:K:447:MET:HE1	1.49	0.94
1:J:483:HIS:HD2	1:7:464:HIS:HD2	0.96	0.94
1:N:483:HIS:HB2	1:d:486:ARG:HH21	1.31	0.94
1:T:464:HIS:HD2	1:V:483:HIS:CD2	1.84	0.94
1:Y:464:HIS:HD2	1:2:483:HIS:HD2	0.96	0.94
1:Y:483:HIS:NE2	1:a:462:PHE:O	2.01	0.94
1:h:109:GLN:NE2	1:w:300:ILE:HG23	1.81	0.94
1:m:556:THR:CG2	1:v:556:THR:HG21	1.98	0.94
1:B:556:THR:CG2	1:X:556:THR:HG21	1.98	0.94
1:D:483:HIS:NE2	1:c:462:PHE:O	2.01	0.94
1:E:422:SER:HB3	1:M:447:MET:HE1	1.49	0.94
1:J:447:MET:HE1	1:7:422:SER:HB3	1.49	0.94
1:L:556:THR:HG21	1:O:556:THR:CG2	1.98	0.94
1:N:462:PHE:O	1:r:483:HIS:NE2	2.01	0.94
1:T:422:SER:HB3	1:V:447:MET:HE1	1.49	0.94
1:X:462:PHE:O	1:Z:483:HIS:NE2	2.01	0.94
1:e:447:MET:HE1	1:z:422:SER:HB3	1.49	0.94
1:e:462:PHE:O	1:k:483:HIS:NE2	2.01	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:464:HIS:HD2	1:q:483:HIS:CD2	1.84	0.94
1:l:556:THR:CG2	1:z:556:THR:HG21	1.98	0.94
1:o:462:PHE:O	1:8:483:HIS:NE2	2.01	0.94
1:o:556:THR:HG21	1:1:556:THR:CG2	1.98	0.94
1:q:462:PHE:O	1:v:483:HIS:NE2	2.01	0.94
1:E:556:THR:HG21	1:r:556:THR:CG2	1.98	0.93
1:G:483:HIS:HB2	1:Z:486:ARG:HH21	1.31	0.93
1:S:556:THR:CG2	1:w:556:THR:HG21	1.98	0.93
1:g:300:ILE:HG23	1:u:109:GLN:NE2	1.81	0.93
1:o:486:ARG:HH21	1:8:483:HIS:HB2	1.31	0.93
1:q:422:SER:HB3	1:v:447:MET:HE1	1.49	0.93
1:3:300:ILE:HG23	1:7:109:GLN:NE2	1.81	0.93
1:3:462:PHE:O	1:7:483:HIS:NE2	2.01	0.93
1:A:556:THR:HG21	1:T:556:THR:CG2	1.99	0.93
1:C:300:ILE:HG23	1:I:109:GLN:NE2	1.81	0.93
1:C:462:PHE:O	1:I:483:HIS:NE2	2.01	0.93
1:E:462:PHE:O	1:M:483:HIS:NE2	2.01	0.93
1:H:556:THR:HG21	1:P:556:THR:CG2	1.98	0.93
1:N:483:HIS:NE2	1:d:462:PHE:O	2.01	0.93
1:S:483:HIS:NE2	1:i:462:PHE:O	2.01	0.93
1:Y:462:PHE:O	1:2:483:HIS:NE2	2.01	0.93
1:Y:556:THR:HG21	1:7:556:THR:CG2	1.98	0.93
1:b:462:PHE:O	1:6:483:HIS:NE2	2.01	0.93
1:b:483:HIS:CD2	1:s:464:HIS:HD2	1.84	0.93
1:b:556:THR:CG2	1:x:556:THR:HG21	1.98	0.93
1:g:464:HIS:HD2	1:u:483:HIS:CD2	1.84	0.93
1:h:447:MET:HE1	1:w:422:SER:HB3	1.49	0.93
1:j:556:THR:CG2	1:5:556:THR:HG21	1.98	0.93
1:m:464:HIS:HD2	1:p:483:HIS:CD2	1.84	0.93
1:y:464:HIS:HD2	1:5:483:HIS:HD2	0.96	0.93
1:y:556:THR:CG2	1:4:556:THR:HG21	1.98	0.93
1:B:464:HIS:HD2	1:F:483:HIS:HD2	0.96	0.93
1:C:464:HIS:HD2	1:I:483:HIS:CD2	1.84	0.93
1:F:556:THR:CG2	1:K:556:THR:HG21	1.98	0.93
1:G:483:HIS:CD2	1:Z:464:HIS:CD2	2.54	0.93
1:G:556:THR:HG21	1:2:556:THR:CG2	1.98	0.93
1:J:462:PHE:O	1:3:483:HIS:NE2	2.01	0.93
1:J:556:THR:CG2	1:t:556:THR:HG21	1.98	0.93
1:Q:556:THR:HG21	1:f:556:THR:CG2	1.98	0.93
1:U:464:HIS:HD2	1:f:483:HIS:CD2	1.84	0.93
1:W:483:HIS:NE2	1:f:462:PHE:O	2.01	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:486:ARG:HH21	1:Z:483:HIS:HB2	1.31	0.93
1:Y:109:GLN:NE2	1:a:300:ILE:HG23	1.81	0.93
1:Y:422:SER:HB3	1:2:447:MET:HE1	1.49	0.93
1:Y:556:THR:CG2	1:7:556:THR:HG21	1.98	0.93
1:b:556:THR:HG21	1:x:556:THR:CG2	1.98	0.93
1:e:556:THR:HG21	1:u:556:THR:CG2	1.98	0.93
1:l:462:PHE:O	1:w:483:HIS:NE2	2.01	0.93
1:m:556:THR:HG21	1:v:556:THR:CG2	1.98	0.93
1:A:447:MET:HE1	1:R:422:SER:HB3	1.49	0.93
1:G:300:ILE:HG23	1:X:109:GLN:NE2	1.81	0.93
1:I:556:THR:CG2	1:c:556:THR:HG21	1.98	0.93
1:J:483:HIS:NE2	1:7:462:PHE:O	2.01	0.93
1:Q:556:THR:CG2	1:f:556:THR:HG21	1.98	0.93
1:a:483:HIS:NE2	1:2:462:PHE:O	2.01	0.93
1:g:462:PHE:O	1:u:483:HIS:NE2	2.01	0.93
1:h:483:HIS:NE2	1:w:462:PHE:O	2.01	0.93
1:i:483:HIS:NE2	1:n:462:PHE:O	2.01	0.93
1:o:109:GLN:NE2	1:t:300:ILE:HG23	1.81	0.93
1:t:483:HIS:CD2	1:8:464:HIS:CD2	2.54	0.93
1:y:556:THR:HG21	1:4:556:THR:CG2	1.98	0.93
1:E:483:HIS:NE2	1:O:462:PHE:O	2.01	0.93
1:F:556:THR:HG21	1:K:556:THR:CG2	1.98	0.93
1:U:556:THR:CG2	1:Z:556:THR:HG21	1.98	0.93
1:U:556:THR:HG21	1:Z:556:THR:CG2	1.98	0.93
1:d:483:HIS:NE2	1:r:462:PHE:O	2.01	0.93
1:m:483:HIS:HD2	1:x:464:HIS:HD2	0.96	0.93
1:A:556:THR:CG2	1:T:556:THR:HG21	1.99	0.93
1:B:462:PHE:O	1:F:483:HIS:NE2	2.01	0.93
1:C:447:MET:HE1	1:K:422:SER:HB3	1.49	0.93
1:G:483:HIS:NE2	1:Z:462:PHE:O	2.01	0.93
1:I:556:THR:HG21	1:c:556:THR:CG2	1.98	0.93
1:Q:464:HIS:HD2	1:T:483:HIS:HD2	0.96	0.93
1:p:422:SER:HB3	1:x:447:MET:HE1	1.49	0.93
1:C:483:HIS:CE1	1:K:462:PHE:CD2	2.57	0.93
1:D:486:ARG:HH21	1:L:483:HIS:HB2	1.31	0.93
1:F:464:HIS:HD2	1:H:483:HIS:HD2	0.96	0.93
1:G:556:THR:CG2	1:2:556:THR:HG21	1.98	0.93
1:M:486:ARG:HH21	1:O:483:HIS:HB2	1.31	0.93
1:P:464:HIS:HD2	1:R:483:HIS:CD2	1.84	0.93
1:Q:447:MET:HE1	1:V:422:SER:HB3	1.49	0.93
1:Q:462:PHE:CD2	1:T:483:HIS:CE1	2.57	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:462:PHE:O	1:n:483:HIS:NE2	2.01	0.93
1:U:462:PHE:O	1:f:483:HIS:NE2	2.01	0.93
1:e:556:THR:CG2	1:u:556:THR:HG21	1.98	0.93
1:g:447:MET:HE1	1:4:422:SER:HB3	1.49	0.93
1:m:483:HIS:CE1	1:x:462:PHE:CD2	2.57	0.93
1:o:556:THR:CG2	1:1:556:THR:HG21	1.98	0.93
1:s:483:HIS:NE2	1:6:462:PHE:O	2.01	0.93
1:s:556:THR:HG21	1:8:556:THR:CG2	1.98	0.93
1:s:556:THR:CG2	1:8:556:THR:HG21	1.98	0.93
1:y:483:HIS:NE2	1:1:462:PHE:O	2.01	0.93
1:B:556:THR:HG21	1:X:556:THR:CG2	1.98	0.93
1:T:486:ARG:HH21	1:V:483:HIS:HB2	1.31	0.93
1:X:464:HIS:HD2	1:Z:483:HIS:HD2	0.95	0.93
1:k:422:SER:HB3	1:z:447:MET:HE1	1.49	0.93
1:t:483:HIS:NE2	1:8:462:PHE:O	2.01	0.93
1:y:483:HIS:HD2	1:1:464:HIS:HD2	0.96	0.93
1:J:556:THR:HG21	1:t:556:THR:CG2	1.98	0.93
1:U:483:HIS:NE2	1:W:462:PHE:O	2.01	0.93
1:a:556:THR:HG21	1:g:556:THR:CG2	1.98	0.93
1:b:483:HIS:NE2	1:s:462:PHE:O	2.01	0.93
1:h:486:ARG:HH21	1:l:483:HIS:HB2	1.31	0.93
1:o:464:HIS:HD2	1:8:483:HIS:HD2	0.95	0.93
1:1:483:HIS:NE2	1:5:462:PHE:O	2.01	0.93
1:B:483:HIS:HD2	1:H:464:HIS:HD2	0.96	0.93
1:D:464:HIS:HD2	1:L:483:HIS:HD2	0.96	0.93
1:E:462:PHE:CD2	1:M:483:HIS:CE1	2.57	0.93
1:G:462:PHE:O	1:X:483:HIS:NE2	2.01	0.93
1:M:556:THR:HG21	1:R:556:THR:CG2	1.98	0.93
1:P:462:PHE:CD1	1:R:483:HIS:NE2	2.38	0.93
1:j:462:PHE:CD1	1:q:483:HIS:NE2	2.38	0.93
1:m:486:ARG:HH21	1:p:483:HIS:HB2	1.31	0.93
1:o:483:HIS:NE2	1:t:462:PHE:O	2.01	0.93
1:B:462:PHE:CD1	1:F:483:HIS:NE2	2.38	0.92
1:B:483:HIS:NE2	1:H:462:PHE:O	2.01	0.92
1:C:556:THR:CG2	1:3:556:THR:HG21	1.98	0.92
1:D:462:PHE:O	1:L:483:HIS:NE2	2.01	0.92
1:D:556:THR:HG21	1:6:556:THR:CG2	1.98	0.92
1:F:422:SER:HB3	1:H:447:MET:HE1	1.49	0.92
1:h:483:HIS:CE1	1:w:462:PHE:CD2	2.57	0.92
1:k:462:PHE:O	1:z:483:HIS:NE2	2.01	0.92
1:k:464:HIS:HD2	1:z:483:HIS:HD2	0.96	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:486:ARG:HH21	1:z:483:HIS:HB2	1.31	0.92
1:u:464:HIS:HD2	1:4:483:HIS:HD2	0.96	0.92
1:y:483:HIS:NE2	1:1:462:PHE:CD1	2.38	0.92
1:C:462:PHE:CD1	1:I:483:HIS:NE2	2.38	0.92
1:D:422:SER:HB3	1:L:447:MET:HE1	1.49	0.92
1:D:483:HIS:NE2	1:c:462:PHE:CD1	2.38	0.92
1:E:483:HIS:NE2	1:O:462:PHE:CD1	2.38	0.92
1:G:483:HIS:NE2	1:Z:462:PHE:CD1	2.38	0.92
1:g:462:PHE:CD1	1:u:483:HIS:NE2	2.38	0.92
1:k:464:HIS:HD2	1:z:483:HIS:CD2	1.84	0.92
1:s:483:HIS:HD2	1:6:464:HIS:HD2	0.96	0.92
1:t:447:MET:HE1	1:8:422:SER:HB3	1.49	0.92
1:t:483:HIS:NE2	1:8:462:PHE:CD1	2.38	0.92
1:1:483:HIS:HD2	1:5:464:HIS:HD2	0.96	0.92
1:A:464:HIS:HD2	1:P:483:HIS:HD2	0.96	0.92
1:E:462:PHE:CD1	1:M:483:HIS:NE2	2.38	0.92
1:G:422:SER:HB3	1:X:447:MET:HE1	1.49	0.92
1:I:464:HIS:HD2	1:K:483:HIS:HD2	0.96	0.92
1:L:462:PHE:O	1:c:483:HIS:NE2	2.01	0.92
1:S:462:PHE:CD1	1:n:483:HIS:NE2	2.38	0.92
1:U:483:HIS:NE2	1:W:462:PHE:CD1	2.38	0.92
1:V:556:THR:CG2	1:n:556:THR:HG21	1.98	0.92
1:W:556:THR:CG2	1:k:556:THR:HG21	1.98	0.92
1:d:483:HIS:NE2	1:r:462:PHE:CD1	2.38	0.92
1:d:556:THR:HG21	1:p:556:THR:CG2	1.98	0.92
1:e:462:PHE:CD1	1:k:483:HIS:NE2	2.38	0.92
1:e:483:HIS:HB2	1:z:486:ARG:HH21	1.31	0.92
1:g:464:HIS:HD2	1:u:483:HIS:HD2	0.96	0.92
1:h:483:HIS:NE2	1:w:462:PHE:CD1	2.38	0.92
1:h:556:THR:HG21	1:q:556:THR:CG2	1.98	0.92
1:j:422:SER:HB3	1:q:447:MET:HE1	1.49	0.92
1:l:462:PHE:CD1	1:w:483:HIS:NE2	2.38	0.92
1:s:483:HIS:NE2	1:6:462:PHE:CD1	2.38	0.92
1:C:483:HIS:NE2	1:K:462:PHE:CD1	2.38	0.92
1:F:462:PHE:CD1	1:H:483:HIS:NE2	2.38	0.92
1:G:447:MET:HE1	1:Z:422:SER:HB3	1.49	0.92
1:L:486:ARG:HH21	1:c:483:HIS:HB2	1.31	0.92
1:N:483:HIS:NE2	1:d:462:PHE:CD1	2.38	0.92
1:P:422:SER:HB3	1:R:447:MET:HE1	1.49	0.92
1:P:462:PHE:O	1:R:483:HIS:NE2	2.01	0.92
1:U:462:PHE:CD1	1:f:483:HIS:NE2	2.38	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:556:THR:CG2	1:g:556:THR:HG21	1.98	0.92
1:b:483:HIS:NE2	1:s:462:PHE:CD1	2.38	0.92
1:g:483:HIS:NE2	1:4:462:PHE:CD1	2.38	0.92
1:l:422:SER:HB3	1:w:447:MET:HE1	1.49	0.92
1:m:462:PHE:CD1	1:p:483:HIS:NE2	2.38	0.92
1:o:447:MET:HE1	1:t:422:SER:HB3	1.49	0.92
1:y:422:SER:HB3	1:5:447:MET:HE1	1.49	0.92
1:y:447:MET:HE1	1:1:422:SER:HB3	1.49	0.92
1:A:462:PHE:CD2	1:P:483:HIS:CE1	2.57	0.92
1:B:422:SER:HB3	1:F:447:MET:HE1	1.49	0.92
1:B:447:MET:HE1	1:H:422:SER:HB3	1.49	0.92
1:T:462:PHE:CD1	1:V:483:HIS:NE2	2.38	0.92
1:e:483:HIS:NE2	1:z:462:PHE:O	2.01	0.92
1:h:464:HIS:HD2	1:l:483:HIS:HD2	0.95	0.92
1:i:483:HIS:NE2	1:n:462:PHE:CD1	2.38	0.92
1:j:462:PHE:O	1:q:483:HIS:NE2	2.01	0.92
1:j:483:HIS:HD2	1:v:464:HIS:HD2	0.96	0.92
1:y:462:PHE:CD1	1:5:483:HIS:NE2	2.38	0.92
1:C:556:THR:HG21	1:3:556:THR:CG2	1.98	0.92
1:E:447:MET:HE1	1:O:422:SER:HB3	1.49	0.92
1:G:483:HIS:HD2	1:Z:464:HIS:HD2	0.95	0.92
1:H:556:THR:CG2	1:P:556:THR:HG21	1.98	0.92
1:N:422:SER:HB3	1:r:447:MET:HE1	1.49	0.92
1:S:447:MET:HE1	1:i:422:SER:HB3	1.49	0.92
1:j:462:PHE:CD2	1:q:483:HIS:CE1	2.57	0.92
1:j:483:HIS:CE1	1:v:462:PHE:CD2	2.57	0.92
1:l:556:THR:HG21	1:z:556:THR:CG2	1.98	0.92
1:y:483:HIS:CE1	1:1:462:PHE:CD2	2.57	0.92
1:B:462:PHE:CD2	1:F:483:HIS:CE1	2.57	0.92
1:B:483:HIS:NE2	1:H:462:PHE:CD1	2.38	0.92
1:E:556:THR:CG2	1:r:556:THR:HG21	1.98	0.92
1:M:464:HIS:HD2	1:O:483:HIS:HD2	0.95	0.92
1:P:462:PHE:CD2	1:R:483:HIS:CE1	2.57	0.92
1:t:483:HIS:HD2	1:8:464:HIS:HD2	0.95	0.92
1:1:483:HIS:NE2	1:5:462:PHE:CD1	2.38	0.92
1:C:464:HIS:HD2	1:I:483:HIS:HD2	0.96	0.92
1:D:447:MET:HE1	1:c:422:SER:HB3	1.49	0.92
1:G:486:ARG:HH21	1:X:483:HIS:HB2	1.31	0.92
1:L:556:THR:CG2	1:O:556:THR:HG21	1.98	0.92
1:Q:483:HIS:CE1	1:V:462:PHE:CD2	2.57	0.92
1:S:556:THR:HG21	1:w:556:THR:CG2	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:483:HIS:HD2	1:W:464:HIS:HD2	0.96	0.92
1:Y:462:PHE:CD2	1:2:483:HIS:CE1	2.57	0.92
1:j:556:THR:HG21	1:5:556:THR:CG2	1.98	0.92
1:p:462:PHE:CD1	1:x:483:HIS:NE2	2.38	0.92
1:D:556:THR:CG2	1:6:556:THR:HG21	1.98	0.92
1:I:462:PHE:CD1	1:K:483:HIS:NE2	2.38	0.92
1:J:462:PHE:CD2	1:3:483:HIS:CE1	2.57	0.92
1:J:483:HIS:CE1	1:7:462:PHE:CD2	2.57	0.92
1:L:462:PHE:CD2	1:c:483:HIS:CE1	2.57	0.92
1:M:462:PHE:CD2	1:O:483:HIS:CE1	2.57	0.92
1:V:556:THR:HG21	1:n:556:THR:CG2	1.98	0.92
1:W:556:THR:HG21	1:k:556:THR:CG2	1.98	0.92
1:e:422:SER:HB3	1:k:447:MET:HE1	1.49	0.92
1:h:462:PHE:CD2	1:l:483:HIS:CE1	2.57	0.92
1:h:556:THR:CG2	1:q:556:THR:HG21	1.98	0.92
1:k:462:PHE:CD1	1:z:483:HIS:NE2	2.38	0.92
1:m:462:PHE:O	1:p:483:HIS:NE2	2.01	0.92
1:p:462:PHE:CD2	1:x:483:HIS:CE1	2.57	0.92
1:1:447:MET:HE1	1:5:422:SER:HB3	1.49	0.92
1:D:462:PHE:CD1	1:L:483:HIS:NE2	2.38	0.92
1:M:556:THR:CG2	1:R:556:THR:HG21	1.98	0.92
1:Q:483:HIS:NE2	1:V:462:PHE:CD1	2.38	0.92
1:S:483:HIS:HD2	1:i:464:HIS:HD2	0.96	0.92
1:U:447:MET:HE1	1:W:422:SER:HB3	1.49	0.92
1:a:483:HIS:CE1	1:2:462:PHE:CD2	2.57	0.92
1:e:483:HIS:CE1	1:z:462:PHE:CD2	2.57	0.92
1:o:483:HIS:HB2	1:t:486:ARG:HH21	1.31	0.92
1:F:462:PHE:O	1:H:483:HIS:NE2	2.01	0.91
1:M:462:PHE:CD1	1:O:483:HIS:NE2	2.38	0.91
1:N:462:PHE:CD1	1:r:483:HIS:NE2	2.38	0.91
1:N:556:THR:HG21	1:i:556:THR:CG2	1.98	0.91
1:T:462:PHE:O	1:V:483:HIS:NE2	2.01	0.91
1:W:483:HIS:NE2	1:f:462:PHE:CD1	2.38	0.91
1:d:556:THR:CG2	1:p:556:THR:HG21	1.98	0.91
1:h:422:SER:HB3	1:l:447:MET:HE1	1.49	0.91
1:h:462:PHE:CD1	1:l:483:HIS:NE2	2.38	0.91
1:A:462:PHE:CD1	1:P:483:HIS:NE2	2.38	0.91
1:M:422:SER:HB3	1:O:447:MET:HE1	1.49	0.91
1:N:556:THR:CG2	1:i:556:THR:HG21	1.98	0.91
1:Q:462:PHE:CD1	1:T:483:HIS:NE2	2.38	0.91
1:S:483:HIS:NE2	1:i:462:PHE:CD1	2.38	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:462:PHE:CD1	1:6:483:HIS:NE2	2.38	0.91
1:q:462:PHE:CD1	1:v:483:HIS:NE2	2.38	0.91
1:A:483:HIS:NE2	1:R:462:PHE:CD1	2.38	0.91
1:g:462:PHE:CD2	1:u:483:HIS:CE1	2.57	0.91
1:m:483:HIS:NE2	1:x:462:PHE:CD1	2.38	0.91
1:u:462:PHE:CD1	1:4:483:HIS:NE2	2.38	0.91
1:y:462:PHE:O	1:5:483:HIS:NE2	2.01	0.91
1:1:483:HIS:CE1	1:5:462:PHE:CD2	2.57	0.91
1:G:462:PHE:CD1	1:X:483:HIS:NE2	2.38	0.91
1:j:483:HIS:NE2	1:v:462:PHE:CD1	2.38	0.91
1:o:462:PHE:CD1	1:8:483:HIS:NE2	2.38	0.91
1:s:447:MET:HE1	1:6:422:SER:HB3	1.49	0.91
1:B:483:HIS:CE1	1:H:462:PHE:CD2	2.57	0.91
1:C:462:PHE:CD2	1:I:483:HIS:CE1	2.57	0.91
1:N:464:HIS:HD2	1:r:483:HIS:HD2	0.96	0.91
1:S:462:PHE:CD2	1:n:483:HIS:CE1	2.57	0.91
1:T:462:PHE:CD2	1:V:483:HIS:CE1	2.57	0.91
1:m:462:PHE:CD2	1:p:483:HIS:CE1	2.57	0.91
1:o:483:HIS:NE2	1:t:462:PHE:CD1	2.38	0.91
1:X:462:PHE:CD1	1:Z:483:HIS:NE2	2.38	0.91
1:e:483:HIS:HD2	1:z:464:HIS:HD2	0.96	0.91
1:3:462:PHE:CD1	1:7:483:HIS:NE2	2.38	0.91
1:Y:483:HIS:NE2	1:a:462:PHE:CD1	2.38	0.91
1:a:483:HIS:NE2	1:2:462:PHE:CD1	2.38	0.91
1:d:483:HIS:CE1	1:r:462:PHE:CD2	2.57	0.91
1:e:483:HIS:NE2	1:z:462:PHE:CD1	2.38	0.91
1:q:462:PHE:CD2	1:v:483:HIS:CE1	2.57	0.91
1:J:462:PHE:CD1	1:3:483:HIS:NE2	2.38	0.91
1:J:483:HIS:NE2	1:7:462:PHE:CD1	2.38	0.91
1:L:462:PHE:CD1	1:c:483:HIS:NE2	2.38	0.91
1:E:464:HIS:HD2	1:M:483:HIS:HD2	0.95	0.91
1:Q:422:SER:HB3	1:T:447:MET:HE1	1.49	0.91
1:Y:462:PHE:CD1	1:2:483:HIS:NE2	2.38	0.91
1:E:483:HIS:HD2	1:O:464:HIS:HD2	0.95	0.90
1:e:462:PHE:CD2	1:k:483:HIS:CE1	2.57	0.90
1:l:464:HIS:HD2	1:w:483:HIS:HD2	0.95	0.90
1:A:483:HIS:CE1	1:R:462:PHE:CD2	2.57	0.90
1:C:483:HIS:HD2	1:K:464:HIS:HD2	0.96	0.90
1:D:483:HIS:CE1	1:c:462:PHE:CD2	2.57	0.90
1:L:464:HIS:HD2	1:c:483:HIS:HD2	0.96	0.90
1:m:447:MET:HE1	1:x:422:SER:HB3	1.49	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:422:SER:HB3	1:n:447:MET:HE1	1.49	0.90
1:d:447:MET:HE1	1:r:422:SER:HB3	1.49	0.90
1:h:483:HIS:HD2	1:w:464:HIS:HD2	0.95	0.90
1:g:483:HIS:HD2	1:4:464:HIS:HD2	0.96	0.90
1:j:447:MET:HE1	1:v:422:SER:HB3	1.49	0.90
1:s:483:HIS:CE1	1:6:462:PHE:CD2	2.57	0.90
1:U:483:HIS:CE1	1:W:462:PHE:CD2	2.57	0.90
1:A:422:SER:HB3	1:P:447:MET:HE1	1.49	0.90
1:G:464:HIS:HD2	1:X:483:HIS:HD2	0.95	0.90
1:D:263:LEU:HD12	1:I:152:ASN:ND2	1.87	0.90
1:E:152:ASN:ND2	1:d:263:LEU:HD12	1.87	0.90
1:G:462:PHE:CD2	1:X:483:HIS:CE1	2.57	0.90
1:N:263:LEU:HD12	1:p:152:ASN:ND2	1.87	0.90
1:N:483:HIS:CE1	1:d:462:PHE:CD2	2.57	0.90
1:V:152:ASN:ND2	1:i:263:LEU:HD12	1.87	0.90
1:b:483:HIS:HD2	1:s:464:HIS:HD2	0.96	0.90
1:k:263:LEU:HD12	1:u:152:ASN:ND2	1.87	0.90
1:n:263:LEU:HD12	1:w:152:ASN:ND2	1.87	0.90
1:C:263:LEU:HD12	1:F:152:ASN:ND2	1.87	0.90
1:G:152:ASN:ND2	1:a:263:LEU:HD12	1.87	0.90
1:L:263:LEU:HD12	1:6:152:ASN:ND2	1.87	0.90
1:Q:152:ASN:ND2	1:W:263:LEU:HD12	1.87	0.90
1:W:152:ASN:ND2	1:z:263:LEU:HD12	1.87	0.90
1:g:263:LEU:HD12	1:y:152:ASN:ND2	1.87	0.90
1:t:152:ASN:ND2	1:3:263:LEU:HD12	1.87	0.90
1:x:152:ASN:ND2	1:6:263:LEU:HD12	1.87	0.90
1:T:464:HIS:HD2	1:V:483:HIS:HD2	0.96	0.90
1:N:483:HIS:HD2	1:d:464:HIS:HD2	0.96	0.90
1:i:152:ASN:ND2	1:r:263:LEU:HD12	1.87	0.90
1:i:483:HIS:CE1	1:n:462:PHE:CD2	2.57	0.90
1:o:483:HIS:CE1	1:t:462:PHE:CD2	2.57	0.90
1:D:152:ASN:ND2	1:s:263:LEU:HD12	1.87	0.89
1:M:263:LEU:HD12	1:r:152:ASN:ND2	1.87	0.89
1:N:152:ASN:ND2	1:S:263:LEU:HD12	1.87	0.89
1:d:152:ASN:ND2	1:x:263:LEU:HD12	1.87	0.89
1:e:263:LEU:HD12	1:l:152:ASN:ND2	1.87	0.89
1:o:483:HIS:HD2	1:t:464:HIS:HD2	0.95	0.89
1:s:152:ASN:ND2	1:t:263:LEU:HD12	1.87	0.89
1:O:152:ASN:ND2	1:c:263:LEU:HD12	1.87	0.89
1:Q:263:LEU:HD12	1:n:152:ASN:ND2	1.87	0.89
1:S:152:ASN:ND2	1:h:263:LEU:HD12	1.87	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:263:LEU:HD12	1:k:152:ASN:ND2	1.87	0.89
1:U:464:HIS:HD2	1:f:483:HIS:HD2	0.96	0.89
1:Z:152:ASN:ND2	1:f:263:LEU:HD12	1.87	0.89
1:b:263:LEU:HD12	1:8:152:ASN:ND2	1.87	0.89
1:B:427:ILE:HD13	1:F:102:ALA:HB3	1.55	0.89
1:G:102:ALA:HB3	1:Z:427:ILE:HD13	1.55	0.89
1:G:263:LEU:HD12	1:U:152:ASN:ND2	1.87	0.89
1:i:483:HIS:HD2	1:n:464:HIS:HD2	0.96	0.89
1:p:263:LEU:HD12	1:v:152:ASN:ND2	1.87	0.89
1:t:102:ALA:HB3	1:8:427:ILE:HD13	1.55	0.89
1:1:152:ASN:ND2	1:8:263:LEU:HD12	1.87	0.89
1:B:152:ASN:ND2	1:Z:263:LEU:HD12	1.87	0.89
1:O:263:LEU:HD12	1:R:152:ASN:ND2	1.87	0.89
1:j:464:HIS:HD2	1:q:483:HIS:HD2	0.96	0.89
1:y:102:ALA:HB3	1:1:427:ILE:HD13	1.55	0.89
1:l:263:LEU:HD12	1:q:152:ASN:ND2	1.87	0.89
1:G:427:ILE:HD13	1:X:102:ALA:HB3	1.55	0.89
1:P:263:LEU:HD12	1:T:152:ASN:ND2	1.87	0.89
1:Q:427:ILE:HD13	1:T:102:ALA:HB3	1.55	0.89
1:j:263:LEU:HD12	1:m:152:ASN:ND2	1.87	0.89
1:j:427:ILE:HD13	1:q:102:ALA:HB3	1.55	0.89
1:m:102:ALA:HB3	1:x:427:ILE:HD13	1.55	0.89
1:A:152:ASN:ND2	1:V:263:LEU:HD12	1.88	0.89
1:A:427:ILE:HD13	1:P:102:ALA:HB3	1.55	0.89
1:E:102:ALA:HB3	1:O:427:ILE:HD13	1.55	0.89
1:P:427:ILE:HD13	1:R:102:ALA:HB3	1.55	0.89
1:o:102:ALA:HB3	1:t:427:ILE:HD13	1.55	0.89
1:S:427:ILE:HD13	1:n:102:ALA:HB3	1.55	0.89
1:d:102:ALA:HB3	1:r:427:ILE:HD13	1.55	0.89
1:e:427:ILE:HD13	1:k:102:ALA:HB3	1.55	0.89
1:l:462:PHE:CD2	1:w:483:HIS:CE1	2.57	0.89
1:o:462:PHE:CD2	1:8:483:HIS:CE1	2.57	0.89
1:Q:102:ALA:HB3	1:V:427:ILE:HD13	1.55	0.89
1:W:556:THR:HG21	1:k:556:THR:HG21	1.55	0.89
1:Y:427:ILE:HD13	1:2:102:ALA:HB3	1.55	0.89
1:e:464:HIS:HD2	1:k:483:HIS:HD2	0.96	0.89
1:j:102:ALA:HB3	1:v:427:ILE:HD13	1.55	0.89
1:l:427:ILE:HD13	1:w:102:ALA:HB3	1.55	0.89
1:D:102:ALA:HB3	1:c:427:ILE:HD13	1.55	0.89
1:D:556:THR:HG21	1:6:556:THR:HG21	1.55	0.89
1:I:556:THR:HG21	1:c:556:THR:HG21	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:427:ILE:HD13	1:x:102:ALA:HB3	1.55	0.89
1:A:263:LEU:HD12	1:M:152:ASN:ND2	1.87	0.88
1:C:427:ILE:HD13	1:I:102:ALA:HB3	1.55	0.88
1:E:483:HIS:CE1	1:O:462:PHE:CD2	2.57	0.88
1:J:102:ALA:HB3	1:7:427:ILE:HD13	1.55	0.88
1:P:464:HIS:HD2	1:R:483:HIS:HD2	0.96	0.88
1:T:263:LEU:HD12	1:f:152:ASN:ND2	1.87	0.88
1:b:152:ASN:ND2	1:m:263:LEU:HD12	1.87	0.88
1:y:462:PHE:CD2	1:5:483:HIS:CE1	2.57	0.88
1:D:462:PHE:CD2	1:L:483:HIS:CE1	2.57	0.88
1:E:263:LEU:HD12	1:L:152:ASN:ND2	1.87	0.88
1:F:263:LEU:HD12	1:X:152:ASN:ND2	1.87	0.88
1:F:462:PHE:CD2	1:H:483:HIS:CE1	2.57	0.88
1:H:263:LEU:HD12	1:K:152:ASN:ND2	1.87	0.88
1:X:462:PHE:CD2	1:Z:483:HIS:CE1	2.57	0.88
1:e:556:THR:HG21	1:u:556:THR:HG21	1.55	0.88
1:g:427:ILE:HD13	1:u:102:ALA:HB3	1.55	0.88
1:h:152:ASN:ND2	1:v:263:LEU:HD12	1.87	0.88
1:o:152:ASN:ND2	1:y:263:LEU:HD12	1.87	0.88
1:w:263:LEU:HD12	1:z:152:ASN:ND2	1.87	0.88
1:C:102:ALA:HB3	1:K:427:ILE:HD13	1.55	0.88
1:D:427:ILE:HD13	1:L:102:ALA:HB3	1.55	0.88
1:D:483:HIS:HD2	1:c:464:HIS:HD2	0.96	0.88
1:F:427:ILE:HD13	1:H:102:ALA:HB3	1.55	0.88
1:k:427:ILE:HD13	1:z:102:ALA:HB3	1.55	0.88
1:y:427:ILE:HD13	1:5:102:ALA:HB3	1.55	0.88
1:C:556:THR:HG21	1:3:556:THR:HG21	1.55	0.88
1:M:556:THR:HG21	1:R:556:THR:HG21	1.55	0.88
1:N:399:PRO:HB3	1:d:320:PHE:HE1	1.39	0.88
1:h:556:THR:HG21	1:q:556:THR:HG21	1.55	0.88
1:q:263:LEU:HD12	1:5:152:ASN:ND2	1.87	0.88
1:4:152:ASN:ND2	1:5:263:LEU:HD12	1.87	0.88
1:B:263:LEU:HD12	1:P:152:ASN:ND2	1.87	0.88
1:a:152:ASN:ND2	1:u:263:LEU:HD12	1.87	0.88
1:a:556:THR:HG21	1:g:556:THR:HG21	1.55	0.88
1:g:102:ALA:HB3	1:4:427:ILE:HD13	1.55	0.88
1:i:399:PRO:HB3	1:n:320:PHE:HE1	1.39	0.88
1:H:152:ASN:ND2	1:R:263:LEU:HD12	1.87	0.88
1:J:263:LEU:HD12	1:Y:152:ASN:ND2	1.87	0.88
1:Q:556:THR:HG21	1:f:556:THR:HG21	1.55	0.88
1:U:320:PHE:HE1	1:f:399:PRO:HB3	1.39	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:102:ALA:HB3	1:a:427:ILE:HD13	1.55	0.88
1:k:462:PHE:CD2	1:z:483:HIS:CE1	2.57	0.88
1:s:102:ALA:HB3	1:6:427:ILE:HD13	1.55	0.88
1:I:263:LEU:HD12	1:3:152:ASN:ND2	1.87	0.88
1:K:263:LEU:HD12	1:c:152:ASN:ND2	1.87	0.88
1:U:462:PHE:CD2	1:f:483:HIS:CE1	2.57	0.88
1:Y:483:HIS:CE1	1:a:462:PHE:CD2	2.57	0.88
1:b:399:PRO:HB3	1:s:320:PHE:HE1	1.39	0.88
1:b:556:THR:HG21	1:x:556:THR:HG21	1.55	0.88
1:j:152:ASN:ND2	1:1:263:LEU:HD12	1.87	0.88
1:2:263:LEU:HD12	1:7:152:ASN:ND2	1.87	0.88
1:U:102:ALA:HB3	1:W:427:ILE:HD13	1.55	0.88
1:b:483:HIS:CE1	1:s:462:PHE:CD2	2.57	0.88
1:t:40:GLY:HA3	1:3:39:ILE:HG22	1.56	0.88
1:A:39:ILE:HG22	1:M:40:GLY:HA3	1.56	0.88
1:A:40:GLY:HA3	1:V:39:ILE:HG22	1.56	0.88
1:G:40:GLY:HA3	1:a:39:ILE:HG22	1.56	0.88
1:J:152:ASN:ND2	1:o:263:LEU:HD12	1.87	0.88
1:N:102:ALA:HB3	1:d:427:ILE:HD13	1.55	0.88
1:N:462:PHE:CD2	1:r:483:HIS:CE1	2.57	0.88
1:X:320:PHE:HE1	1:Z:399:PRO:HB3	1.39	0.88
1:e:152:ASN:ND2	1:4:263:LEU:HD12	1.87	0.88
1:o:320:PHE:HE1	1:8:399:PRO:HB3	1.39	0.88
1:w:39:ILE:HG22	1:z:40:GLY:HA3	1.56	0.88
1:3:427:ILE:HD13	1:7:102:ALA:HB3	1.55	0.88
1:E:39:ILE:HG22	1:L:40:GLY:HA3	1.56	0.88
1:L:39:ILE:HG22	1:6:40:GLY:HA3	1.56	0.88
1:S:483:HIS:CE1	1:i:462:PHE:CD2	2.57	0.88
1:X:263:LEU:HD12	1:2:152:ASN:ND2	1.87	0.88
1:g:39:ILE:HG22	1:y:40:GLY:HA3	1.56	0.88
1:h:40:GLY:HA3	1:v:39:ILE:HG22	1.56	0.88
1:i:102:ALA:HB3	1:n:427:ILE:HD13	1.55	0.88
1:m:556:THR:HG21	1:v:556:THR:HG21	1.55	0.88
1:C:39:ILE:HG22	1:F:40:GLY:HA3	1.56	0.87
1:D:40:GLY:HA3	1:s:39:ILE:HG22	1.56	0.87
1:G:39:ILE:HG22	1:U:40:GLY:HA3	1.56	0.87
1:K:39:ILE:HG22	1:c:40:GLY:HA3	1.56	0.87
1:N:320:PHE:HE1	1:r:399:PRO:HB3	1.39	0.87
1:Y:263:LEU:HD12	1:g:152:ASN:ND2	1.87	0.87
1:e:40:GLY:HA3	1:4:39:ILE:HG22	1.56	0.87
1:p:320:PHE:HE1	1:x:399:PRO:HB3	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:462:PHE:CD2	1:7:483:HIS:CE1	2.57	0.87
1:A:556:THR:HG21	1:T:556:THR:HG21	1.55	0.87
1:I:462:PHE:CD2	1:K:483:HIS:CE1	2.57	0.87
1:N:40:GLY:HA3	1:S:39:ILE:HG22	1.56	0.87
1:Q:40:GLY:HA3	1:W:39:ILE:HG22	1.56	0.87
1:Q:399:PRO:HB3	1:V:320:PHE:HE1	1.39	0.87
1:S:399:PRO:HB3	1:i:320:PHE:HE1	1.39	0.87
1:U:39:ILE:HG22	1:k:40:GLY:HA3	1.56	0.87
1:W:40:GLY:HA3	1:z:39:ILE:HG22	1.56	0.87
1:i:40:GLY:HA3	1:r:39:ILE:HG22	1.56	0.87
1:C:152:ASN:ND2	1:7:263:LEU:HD12	1.87	0.87
1:h:427:ILE:HD13	1:l:102:ALA:HB3	1.55	0.87
1:p:39:ILE:HG22	1:v:40:GLY:HA3	1.56	0.87
1:q:427:ILE:HD13	1:v:102:ALA:HB3	1.55	0.87
1:s:40:GLY:HA3	1:t:39:ILE:HG22	1.56	0.87
1:x:40:GLY:HA3	1:6:39:ILE:HG22	1.56	0.87
1:1:40:GLY:HA3	1:8:39:ILE:HG22	1.56	0.87
1:1:102:ALA:HB3	1:5:427:ILE:HD13	1.55	0.87
1:B:102:ALA:HB3	1:H:427:ILE:HD13	1.55	0.87
1:C:40:GLY:HA3	1:7:39:ILE:HG22	1.56	0.87
1:Y:39:ILE:HG22	1:g:40:GLY:HA3	1.56	0.87
1:e:189:ILE:HG21	1:z:547:LEU:HD13	1.57	0.87
1:A:102:ALA:HB3	1:R:427:ILE:HD13	1.55	0.87
1:B:40:GLY:HA3	1:Z:39:ILE:HG22	1.56	0.87
1:L:547:LEU:HD13	1:c:189:ILE:HG21	1.57	0.87
1:e:102:ALA:HB3	1:z:427:ILE:HD13	1.55	0.87
1:j:40:GLY:HA3	1:1:39:ILE:HG22	1.56	0.87
1:B:39:ILE:HG22	1:P:40:GLY:HA3	1.56	0.87
1:J:40:GLY:HA3	1:o:39:ILE:HG22	1.56	0.87
1:J:427:ILE:HD13	1:3:102:ALA:HB3	1.55	0.87
1:M:427:ILE:HD13	1:O:102:ALA:HB3	1.55	0.87
1:N:189:ILE:HG21	1:d:547:LEU:HD13	1.57	0.87
1:X:39:ILE:HG22	1:2:40:GLY:HA3	1.56	0.87
1:X:547:LEU:HD13	1:Z:189:ILE:HG21	1.57	0.87
1:Y:320:PHE:HE1	1:2:399:PRO:HB3	1.39	0.87
1:Y:547:LEU:HD13	1:2:189:ILE:HG21	1.57	0.87
1:a:102:ALA:HB3	1:2:427:ILE:HD13	1.55	0.87
1:i:189:ILE:HG21	1:n:547:LEU:HD13	1.57	0.87
1:o:547:LEU:HD13	1:8:189:ILE:HG21	1.57	0.87
1:u:462:PHE:CD2	1:4:483:HIS:CE1	2.57	0.87
1:D:399:PRO:HB3	1:c:320:PHE:HE1	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:189:ILE:HG21	1:7:547:LEU:HD13	1.57	0.87
1:J:399:PRO:HB3	1:7:320:PHE:HE1	1.39	0.87
1:L:427:ILE:HD13	1:c:102:ALA:HB3	1.55	0.87
1:Q:39:ILE:HG22	1:n:40:GLY:HA3	1.56	0.87
1:Q:483:HIS:HD2	1:V:464:HIS:HD2	0.96	0.87
1:b:102:ALA:HB3	1:s:427:ILE:HD13	1.55	0.87
1:d:40:GLY:HA3	1:x:39:ILE:HG22	1.56	0.87
1:3:464:HIS:HD2	1:7:483:HIS:HD2	0.96	0.87
1:W:102:ALA:HB3	1:f:427:ILE:HD13	1.55	0.87
1:p:464:HIS:HD2	1:x:483:HIS:HD2	0.96	0.87
1:B:547:LEU:HD13	1:F:189:ILE:HG21	1.57	0.87
1:D:189:ILE:HG21	1:c:547:LEU:HD13	1.57	0.87
1:D:419:PHE:CE2	1:L:351:PHE:HB3	2.10	0.87
1:H:556:THR:HG21	1:P:556:THR:HG21	1.55	0.87
1:I:427:ILE:HD13	1:K:102:ALA:HB3	1.55	0.87
1:U:351:PHE:HB3	1:W:419:PHE:CE2	2.10	0.87
1:b:427:ILE:HD13	1:6:102:ALA:HB3	1.55	0.87
1:b:462:PHE:CD2	1:6:483:HIS:CE1	2.57	0.87
1:e:320:PHE:HE1	1:k:399:PRO:HB3	1.39	0.87
1:s:351:PHE:HB3	1:6:419:PHE:CE2	2.10	0.87
1:t:483:HIS:CE1	1:8:462:PHE:CD2	2.57	0.87
1:u:427:ILE:HD13	1:4:102:ALA:HB3	1.55	0.87
1:B:351:PHE:HB3	1:H:419:PHE:CE2	2.10	0.86
1:E:427:ILE:HD13	1:M:102:ALA:HB3	1.55	0.86
1:I:547:LEU:HD13	1:K:189:ILE:HG21	1.57	0.86
1:U:427:ILE:HD13	1:f:102:ALA:HB3	1.55	0.86
1:X:419:PHE:CE2	1:Z:351:PHE:HB3	2.10	0.86
1:Y:483:HIS:HD2	1:a:464:HIS:HD2	0.96	0.86
1:e:547:LEU:HD13	1:k:189:ILE:HG21	1.57	0.86
1:k:419:PHE:CE2	1:z:351:PHE:HB3	2.10	0.86
1:m:320:PHE:HE1	1:p:399:PRO:HB3	1.39	0.86
1:o:419:PHE:CE2	1:8:351:PHE:HB3	2.10	0.86
1:o:427:ILE:HD13	1:8:102:ALA:HB3	1.55	0.86
1:u:320:PHE:HE1	1:4:399:PRO:HB3	1.39	0.86
1:u:547:LEU:HD13	1:4:189:ILE:HG21	1.57	0.86
1:y:189:ILE:HG21	1:1:547:LEU:HD13	1.57	0.86
1:1:351:PHE:HB3	1:5:419:PHE:CE2	2.10	0.86
1:D:39:ILE:HG22	1:I:40:GLY:HA3	1.56	0.86
1:D:351:PHE:HB3	1:c:419:PHE:CE2	2.10	0.86
1:N:351:PHE:HB3	1:d:419:PHE:CE2	2.10	0.86
1:Q:419:PHE:CE2	1:T:351:PHE:HB3	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:427:ILE:HD13	1:Z:102:ALA:HB3	1.55	0.86
1:e:419:PHE:CE2	1:k:351:PHE:HB3	2.10	0.86
1:j:399:PRO:HB3	1:v:320:PHE:HE1	1.39	0.86
1:j:556:THR:HG21	1:5:556:THR:HG21	1.55	0.86
1:N:419:PHE:CE2	1:r:351:PHE:HB3	2.10	0.86
1:U:189:ILE:HG21	1:W:547:LEU:HD13	1.57	0.86
1:Z:40:GLY:HA3	1:f:39:ILE:HG22	1.56	0.86
1:b:39:ILE:HG22	1:8:40:GLY:HA3	1.56	0.86
1:g:547:LEU:HD13	1:u:189:ILE:HG21	1.57	0.86
1:i:351:PHE:HB3	1:n:419:PHE:CE2	2.10	0.86
1:k:39:ILE:HG22	1:u:40:GLY:HA3	1.56	0.86
1:m:189:ILE:HG21	1:x:547:LEU:HD13	1.57	0.86
1:m:351:PHE:HB3	1:x:419:PHE:CE2	2.10	0.86
1:y:556:THR:HG21	1:4:556:THR:HG21	1.55	0.86
1:A:320:PHE:HE1	1:P:399:PRO:HB3	1.39	0.86
1:E:40:GLY:HA3	1:d:39:ILE:HG22	1.56	0.86
1:G:483:HIS:CE1	1:Z:462:PHE:CD2	2.57	0.86
1:I:39:ILE:HG22	1:3:40:GLY:HA3	1.56	0.86
1:S:351:PHE:HB3	1:i:419:PHE:CE2	2.10	0.86
1:W:483:HIS:CE1	1:f:462:PHE:CD2	2.57	0.86
1:Y:189:ILE:HG21	1:a:547:LEU:HD13	1.57	0.86
1:h:102:ALA:HB3	1:w:427:ILE:HD13	1.55	0.86
1:l:419:PHE:CE2	1:w:351:PHE:HB3	2.10	0.86
1:n:39:ILE:HG22	1:w:40:GLY:HA3	1.56	0.86
1:o:351:PHE:HB3	1:t:419:PHE:CE2	2.10	0.86
1:s:189:ILE:HG21	1:6:547:LEU:HD13	1.57	0.86
1:B:419:PHE:CE2	1:F:351:PHE:HB3	2.10	0.86
1:C:547:LEU:HD13	1:I:189:ILE:HG21	1.57	0.86
1:E:351:PHE:HB3	1:O:419:PHE:CE2	2.10	0.86
1:G:189:ILE:HG21	1:Z:547:LEU:HD13	1.57	0.86
1:G:419:PHE:CE2	1:X:351:PHE:HB3	2.10	0.86
1:I:320:PHE:HE1	1:K:399:PRO:HB3	1.39	0.86
1:M:419:PHE:CE2	1:O:351:PHE:HB3	2.10	0.86
1:N:427:ILE:HD13	1:r:102:ALA:HB3	1.55	0.86
1:Q:547:LEU:HD13	1:T:189:ILE:HG21	1.57	0.86
1:S:40:GLY:HA3	1:h:39:ILE:HG22	1.56	0.86
1:T:320:PHE:HE1	1:V:399:PRO:HB3	1.39	0.86
1:U:419:PHE:CE2	1:f:351:PHE:HB3	2.10	0.86
1:Y:556:THR:HG21	1:7:556:THR:HG21	1.55	0.86
1:a:40:GLY:HA3	1:u:39:ILE:HG22	1.56	0.86
1:e:39:ILE:HG22	1:l:40:GLY:HA3	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:419:PHE:CE2	1:l:351:PHE:HB3	2.10	0.86
1:q:419:PHE:CE2	1:v:351:PHE:HB3	2.10	0.86
1:y:351:PHE:HB3	1:1:419:PHE:CE2	2.10	0.86
1:3:547:LEU:HD13	1:7:189:ILE:HG21	1.57	0.86
1:A:351:PHE:HB3	1:R:419:PHE:CE2	2.10	0.86
1:B:556:THR:HG21	1:X:556:THR:HG21	1.55	0.86
1:D:547:LEU:HD13	1:L:189:ILE:HG21	1.57	0.86
1:J:351:PHE:HB3	1:7:419:PHE:CE2	2.10	0.86
1:Y:419:PHE:CE2	1:2:351:PHE:HB3	2.10	0.86
1:b:189:ILE:HG21	1:s:547:LEU:HD13	1.57	0.86
1:b:351:PHE:HB3	1:s:419:PHE:CE2	2.10	0.86
1:k:547:LEU:HD13	1:z:189:ILE:HG21	1.57	0.86
1:t:189:ILE:HG21	1:8:547:LEU:HD13	1.57	0.86
1:A:419:PHE:CE2	1:P:351:PHE:HB3	2.10	0.86
1:E:189:ILE:HG21	1:O:547:LEU:HD13	1.57	0.86
1:M:39:ILE:HG22	1:r:40:GLY:HA3	1.56	0.86
1:O:40:GLY:HA3	1:c:39:ILE:HG22	1.56	0.86
1:Q:351:PHE:HB3	1:V:419:PHE:CE2	2.10	0.86
1:S:102:ALA:HB3	1:i:427:ILE:HD13	1.55	0.86
1:U:547:LEU:HD13	1:f:189:ILE:HG21	1.57	0.86
1:g:483:HIS:CE1	1:4:462:PHE:CD2	2.57	0.86
1:p:419:PHE:CE2	1:x:351:PHE:HB3	2.10	0.86
1:P:39:ILE:HG22	1:T:40:GLY:HA3	1.56	0.86
1:j:39:ILE:HG22	1:m:40:GLY:HA3	1.56	0.86
1:l:547:LEU:HD13	1:w:189:ILE:HG21	1.57	0.86
1:y:419:PHE:CE2	1:5:351:PHE:HB3	2.10	0.86
1:C:419:PHE:CE2	1:I:351:PHE:HB3	2.10	0.86
1:F:419:PHE:CE2	1:H:351:PHE:HB3	2.10	0.86
1:N:547:LEU:HD13	1:r:189:ILE:HG21	1.57	0.86
1:S:189:ILE:HG21	1:i:547:LEU:HD13	1.57	0.86
1:F:320:PHE:HE1	1:H:399:PRO:HB3	1.39	0.86
1:G:547:LEU:HD13	1:X:189:ILE:HG21	1.57	0.86
1:d:189:ILE:HG21	1:r:547:LEU:HD13	1.57	0.86
1:o:189:ILE:HG21	1:t:547:LEU:HD13	1.57	0.86
1:o:556:THR:HG21	1:1:556:THR:HG21	1.55	0.86
1:a:351:PHE:HB3	1:2:419:PHE:CE2	2.10	0.85
1:g:419:PHE:CE2	1:u:351:PHE:HB3	2.10	0.85
1:p:547:LEU:HD13	1:x:189:ILE:HG21	1.57	0.85
1:y:320:PHE:HE1	1:5:399:PRO:HB3	1.39	0.85
1:A:399:PRO:HB3	1:R:320:PHE:HE1	1.39	0.85
1:F:556:THR:HG21	1:K:556:THR:HG21	1.55	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:556:THR:HG21	1:2:556:THR:HG21	1.55	0.85
1:J:419:PHE:CE2	1:3:351:PHE:HB3	2.10	0.85
1:Q:189:ILE:HG21	1:V:547:LEU:HD13	1.57	0.85
1:Q:320:PHE:HE1	1:T:399:PRO:HB3	1.39	0.85
1:S:547:LEU:HD13	1:n:189:ILE:HG21	1.57	0.85
1:j:351:PHE:HB3	1:v:419:PHE:CE2	2.10	0.85
1:o:399:PRO:HB3	1:t:320:PHE:HE1	1.39	0.85
1:C:351:PHE:HB3	1:K:419:PHE:CE2	2.10	0.85
1:M:547:LEU:HD13	1:O:189:ILE:HG21	1.57	0.85
1:T:427:ILE:HD13	1:V:102:ALA:HB3	1.55	0.85
1:W:351:PHE:HB3	1:f:419:PHE:CE2	2.10	0.85
1:g:351:PHE:HB3	1:4:419:PHE:CE2	2.10	0.85
1:h:547:LEU:HD13	1:l:189:ILE:HG21	1.57	0.85
1:j:189:ILE:HG21	1:v:547:LEU:HD13	1.57	0.85
1:2:39:ILE:HG22	1:7:40:GLY:HA3	1.56	0.85
1:A:547:LEU:HD13	1:P:189:ILE:HG21	1.57	0.85
1:H:39:ILE:HG22	1:K:40:GLY:HA3	1.56	0.85
1:H:40:GLY:HA3	1:R:39:ILE:HG22	1.56	0.85
1:I:391:ASP:HA	1:I:579:HIS:HB3	1.59	0.85
1:N:39:ILE:HG22	1:p:40:GLY:HA3	1.56	0.85
1:P:419:PHE:CE2	1:R:351:PHE:HB3	2.10	0.85
1:Q:391:ASP:HA	1:Q:579:HIS:HB3	1.59	0.85
1:S:419:PHE:CE2	1:n:351:PHE:HB3	2.10	0.85
1:U:391:ASP:HA	1:U:579:HIS:HB3	1.59	0.85
1:V:40:GLY:HA3	1:i:39:ILE:HG22	1.56	0.85
1:b:40:GLY:HA3	1:m:39:ILE:HG22	1.56	0.85
1:b:419:PHE:CE2	1:6:351:PHE:HB3	2.10	0.85
1:j:419:PHE:CE2	1:q:351:PHE:HB3	2.10	0.85
1:l:39:ILE:HG22	1:q:40:GLY:HA3	1.56	0.85
1:q:39:ILE:HG22	1:5:40:GLY:HA3	1.56	0.85
1:s:391:ASP:HA	1:s:579:HIS:HB3	1.59	0.85
1:x:391:ASP:HA	1:x:579:HIS:HB3	1.59	0.85
1:4:40:GLY:HA3	1:5:39:ILE:HG22	1.56	0.85
1:J:39:ILE:HG22	1:Y:40:GLY:HA3	1.56	0.85
1:L:419:PHE:CE2	1:c:351:PHE:HB3	2.10	0.85
1:O:39:ILE:HG22	1:R:40:GLY:HA3	1.56	0.85
1:d:351:PHE:HB3	1:r:419:PHE:CE2	2.10	0.85
1:m:399:PRO:HB3	1:x:320:PHE:HE1	1.39	0.85
1:u:391:ASP:HA	1:u:579:HIS:HB3	1.59	0.85
1:u:419:PHE:CE2	1:4:351:PHE:HB3	2.10	0.85
1:7:391:ASP:HA	1:7:579:HIS:HB3	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:ILE:HG21	1:R:547:LEU:HD13	1.57	0.85
1:E:547:LEU:HD13	1:M:189:ILE:HG21	1.57	0.85
1:F:39:ILE:HG22	1:X:40:GLY:HA3	1.56	0.85
1:I:419:PHE:CE2	1:K:351:PHE:HB3	2.10	0.85
1:J:556:THR:HG21	1:t:556:THR:HG21	1.55	0.85
1:M:391:ASP:HA	1:M:579:HIS:HB3	1.59	0.85
1:T:39:ILE:HG22	1:f:40:GLY:HA3	1.56	0.85
1:Y:391:ASP:HA	1:Y:579:HIS:HB3	1.59	0.85
1:Y:399:PRO:HB3	1:a:320:PHE:HE1	1.39	0.85
1:e:351:PHE:HB3	1:z:419:PHE:CE2	2.10	0.85
1:m:427:ILE:HD13	1:p:102:ALA:HB3	1.55	0.85
1:o:40:GLY:HA3	1:y:39:ILE:HG22	1.56	0.85
1:q:320:PHE:HE1	1:v:399:PRO:HB3	1.39	0.85
1:y:391:ASP:HA	1:y:579:HIS:HB3	1.59	0.85
1:1:391:ASP:HA	1:1:579:HIS:HB3	1.59	0.85
1:B:391:ASP:HA	1:B:579:HIS:HB3	1.59	0.85
1:F:391:ASP:HA	1:F:579:HIS:HB3	1.59	0.85
1:G:320:PHE:HE1	1:X:399:PRO:HB3	1.39	0.85
1:a:391:ASP:HA	1:a:579:HIS:HB3	1.59	0.85
1:h:189:ILE:HG21	1:w:547:LEU:HD13	1.57	0.85
1:h:391:ASP:HA	1:h:579:HIS:HB3	1.59	0.85
1:N:391:ASP:HA	1:N:579:HIS:HB3	1.59	0.85
1:h:351:PHE:HB3	1:w:419:PHE:CE2	2.10	0.85
1:q:547:LEU:HD13	1:v:189:ILE:HG21	1.57	0.85
1:t:351:PHE:HB3	1:8:419:PHE:CE2	2.10	0.85
1:E:419:PHE:CE2	1:M:351:PHE:HB3	2.10	0.85
1:K:391:ASP:HA	1:K:579:HIS:HB3	1.59	0.85
1:R:391:ASP:HA	1:R:579:HIS:HB3	1.59	0.85
1:X:391:ASP:HA	1:X:579:HIS:HB3	1.59	0.85
1:i:391:ASP:HA	1:i:579:HIS:HB3	1.59	0.85
1:3:391:ASP:HA	1:3:579:HIS:HB3	1.59	0.85
1:G:351:PHE:HB3	1:Z:419:PHE:CE2	2.10	0.85
1:J:547:LEU:HD13	1:3:189:ILE:HG21	1.57	0.85
1:T:419:PHE:CE2	1:V:351:PHE:HB3	2.10	0.85
1:V:556:THR:HG21	1:n:556:THR:HG21	1.55	0.85
1:a:189:ILE:HG21	1:2:547:LEU:HD13	1.57	0.85
1:d:556:THR:HG21	1:p:556:THR:HG21	1.55	0.85
1:o:391:ASP:HA	1:o:579:HIS:HB3	1.59	0.85
1:3:419:PHE:CE2	1:7:351:PHE:HB3	2.10	0.85
1:4:391:ASP:HA	1:4:579:HIS:HB3	1.59	0.85
1:A:391:ASP:HA	1:A:579:HIS:HB3	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:391:ASP:HA	1:E:579:HIS:HB3	1.59	0.84
1:U:556:THR:HG21	1:Z:556:THR:HG21	1.55	0.84
1:m:419:PHE:CE2	1:p:351:PHE:HB3	2.10	0.84
1:q:391:ASP:HA	1:q:579:HIS:HB3	1.59	0.84
1:1:189:ILE:HG21	1:5:547:LEU:HD13	1.57	0.84
1:3:320:PHE:HE1	1:7:399:PRO:HB3	1.39	0.84
1:B:189:ILE:HG21	1:H:547:LEU:HD13	1.57	0.84
1:F:547:LEU:HD13	1:H:189:ILE:HG21	1.57	0.84
1:T:547:LEU:HD13	1:V:189:ILE:HG21	1.57	0.84
1:Y:351:PHE:HB3	1:a:419:PHE:CE2	2.10	0.84
1:l:320:PHE:HE1	1:w:399:PRO:HB3	1.39	0.84
1:v:391:ASP:HA	1:v:579:HIS:HB3	1.59	0.84
1:w:391:ASP:HA	1:w:579:HIS:HB3	1.59	0.84
1:y:547:LEU:HD13	1:5:189:ILE:HG21	1.57	0.84
1:m:547:LEU:HD13	1:p:189:ILE:HG21	1.57	0.84
1:E:399:PRO:HB3	1:O:320:PHE:HE1	1.39	0.84
1:c:391:ASP:HA	1:c:579:HIS:HB3	1.59	0.84
1:e:391:ASP:HA	1:e:579:HIS:HB3	1.59	0.84
1:s:556:THR:HG21	1:8:556:THR:HG21	1.55	0.84
1:8:391:ASP:HA	1:8:579:HIS:HB3	1.59	0.84
1:E:556:THR:HG21	1:r:556:THR:HG21	1.55	0.84
1:S:127:GLN:NE2	1:h:257:ASN:HB3	1.93	0.84
1:Z:391:ASP:HA	1:Z:579:HIS:HB3	1.59	0.84
1:h:399:PRO:HB3	1:w:320:PHE:HE1	1.39	0.84
1:p:391:ASP:HA	1:p:579:HIS:HB3	1.59	0.84
1:G:127:GLN:NE2	1:a:257:ASN:HB3	1.93	0.84
1:M:257:ASN:HB3	1:r:127:GLN:NE2	1.93	0.84
1:O:391:ASP:HA	1:O:579:HIS:HB3	1.59	0.84
1:g:320:PHE:HE1	1:u:399:PRO:HB3	1.39	0.84
1:j:257:ASN:HB3	1:m:127:GLN:NE2	1.93	0.84
1:t:127:GLN:NE2	1:3:257:ASN:HB3	1.93	0.84
1:E:320:PHE:HE1	1:M:399:PRO:HB3	1.39	0.84
1:P:257:ASN:HB3	1:T:127:GLN:NE2	1.93	0.84
1:V:391:ASP:HA	1:V:579:HIS:HB3	1.59	0.84
1:C:391:ASP:HA	1:C:579:HIS:HB3	1.59	0.84
1:D:127:GLN:NE2	1:s:257:ASN:HB3	1.93	0.84
1:E:127:GLN:NE2	1:d:257:ASN:HB3	1.93	0.84
1:G:399:PRO:HB3	1:Z:320:PHE:HE1	1.39	0.84
1:J:257:ASN:HB3	1:Y:127:GLN:NE2	1.93	0.84
1:N:127:GLN:NE2	1:S:257:ASN:HB3	1.93	0.84
1:U:257:ASN:HB3	1:k:127:GLN:NE2	1.93	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:127:GLN:NE2	1:r:257:ASN:HB3	1.93	0.84
1:n:257:ASN:HB3	1:w:127:GLN:NE2	1.93	0.84
1:2:257:ASN:HB3	1:7:127:GLN:NE2	1.93	0.84
1:S:556:THR:HG21	1:w:556:THR:HG21	1.55	0.84
1:g:391:ASP:HA	1:g:579:HIS:HB3	1.59	0.84
1:j:547:LEU:HD13	1:q:189:ILE:HG21	1.57	0.84
1:l:391:ASP:HA	1:l:579:HIS:HB3	1.59	0.84
1:m:391:ASP:HA	1:m:579:HIS:HB3	1.59	0.84
1:W:189:ILE:HG21	1:f:547:LEU:HD13	1.57	0.83
1:d:391:ASP:HA	1:d:579:HIS:HB3	1.59	0.83
1:s:399:PRO:HB3	1:6:320:PHE:HE1	1.39	0.83
1:C:189:ILE:HG21	1:K:547:LEU:HD13	1.57	0.83
1:C:320:PHE:HE1	1:I:399:PRO:HB3	1.39	0.83
1:L:556:THR:HG21	1:O:556:THR:HG21	1.55	0.83
1:N:257:ASN:HB3	1:p:127:GLN:NE2	1.93	0.83
1:O:127:GLN:NE2	1:c:257:ASN:HB3	1.93	0.83
1:T:391:ASP:HA	1:T:579:HIS:HB3	1.59	0.83
1:j:391:ASP:HA	1:j:579:HIS:HB3	1.59	0.83
1:n:391:ASP:HA	1:n:579:HIS:HB3	1.59	0.83
1:w:257:ASN:HB3	1:z:127:GLN:NE2	1.93	0.83
1:1:399:PRO:HB3	1:5:320:PHE:HE1	1.39	0.83
1:A:257:ASN:HB3	1:M:127:GLN:NE2	1.93	0.83
1:B:399:PRO:HB3	1:H:320:PHE:HE1	1.39	0.83
1:H:257:ASN:HB3	1:K:127:GLN:NE2	1.93	0.83
1:P:547:LEU:HD13	1:R:189:ILE:HG21	1.57	0.83
1:U:399:PRO:HB3	1:W:320:PHE:HE1	1.39	0.83
1:b:127:GLN:NE2	1:m:257:ASN:HB3	1.93	0.83
1:b:391:ASP:HA	1:b:579:HIS:HB3	1.59	0.83
1:h:127:GLN:NE2	1:v:257:ASN:HB3	1.93	0.83
1:l:556:THR:HG21	1:z:556:THR:HG21	1.55	0.83
1:x:127:GLN:NE2	1:6:257:ASN:HB3	1.93	0.83
1:A:127:GLN:NE2	1:V:257:ASN:HB3	1.93	0.83
1:E:257:ASN:HB3	1:L:127:GLN:NE2	1.93	0.83
1:L:391:ASP:HA	1:L:579:HIS:HB3	1.59	0.83
1:Q:127:GLN:NE2	1:W:257:ASN:HB3	1.93	0.83
1:T:257:ASN:HB3	1:f:127:GLN:NE2	1.93	0.83
1:V:127:GLN:NE2	1:i:257:ASN:HB3	1.93	0.83
1:b:547:LEU:HD13	1:6:189:ILE:HG21	1.57	0.83
1:e:257:ASN:HB3	1:l:127:GLN:NE2	1.93	0.83
1:f:391:ASP:HA	1:f:579:HIS:HB3	1.59	0.83
1:z:391:ASP:HA	1:z:579:HIS:HB3	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:320:PHE:HE1	1:O:399:PRO:HB3	1.39	0.83
1:O:257:ASN:HB3	1:R:127:GLN:NE2	1.93	0.83
1:P:391:ASP:HA	1:P:579:HIS:HB3	1.59	0.83
1:Z:127:GLN:NE2	1:f:257:ASN:HB3	1.93	0.83
1:g:189:ILE:HG21	1:4:547:LEU:HD13	1.57	0.83
1:4:127:GLN:NE2	1:5:257:ASN:HB3	1.93	0.83
1:6:391:ASP:HA	1:6:579:HIS:HB3	1.59	0.83
1:B:257:ASN:HB3	1:P:127:GLN:NE2	1.93	0.83
1:W:391:ASP:HA	1:W:579:HIS:HB3	1.59	0.83
1:h:320:PHE:HE1	1:l:399:PRO:HB3	1.39	0.83
1:l:257:ASN:HB3	1:q:127:GLN:NE2	1.93	0.83
1:p:257:ASN:HB3	1:v:127:GLN:NE2	1.93	0.83
1:A:300:ILE:CG2	1:P:109:GLN:NE2	2.41	0.83
1:S:320:PHE:HE1	1:n:399:PRO:HB3	1.39	0.83
1:b:257:ASN:HB3	1:8:127:GLN:NE2	1.93	0.83
1:d:399:PRO:HB3	1:r:320:PHE:HE1	1.39	0.83
1:j:127:GLN:NE2	1:1:257:ASN:HB3	1.93	0.83
1:D:109:GLN:NE2	1:c:300:ILE:CG2	2.42	0.83
1:K:257:ASN:HB3	1:c:127:GLN:NE2	1.93	0.83
1:P:300:ILE:CG2	1:R:109:GLN:NE2	2.42	0.83
1:b:320:PHE:HE1	1:6:399:PRO:HB3	1.39	0.83
1:e:300:ILE:CG2	1:k:109:GLN:NE2	2.42	0.83
1:s:127:GLN:NE2	1:t:257:ASN:HB3	1.93	0.83
1:C:300:ILE:CG2	1:I:109:GLN:NE2	2.42	0.83
1:D:320:PHE:HE1	1:L:399:PRO:HB3	1.39	0.83
1:D:391:ASP:HA	1:D:579:HIS:HB3	1.59	0.83
1:W:127:GLN:NE2	1:z:257:ASN:HB3	1.93	0.83
1:Y:109:GLN:NE2	1:a:300:ILE:CG2	2.42	0.83
1:e:127:GLN:NE2	1:4:257:ASN:HB3	1.93	0.83
1:g:300:ILE:CG2	1:u:109:GLN:NE2	2.42	0.83
1:j:300:ILE:CG2	1:q:109:GLN:NE2	2.42	0.83
1:t:399:PRO:HB3	1:8:320:PHE:HE1	1.39	0.83
1:y:109:GLN:NE2	1:1:300:ILE:CG2	2.42	0.83
1:B:127:GLN:NE2	1:Z:257:ASN:HB3	1.93	0.83
1:B:300:ILE:CG2	1:F:109:GLN:NE2	2.42	0.83
1:C:127:GLN:NE2	1:7:257:ASN:HB3	1.93	0.83
1:C:257:ASN:HB3	1:F:127:GLN:NE2	1.93	0.83
1:D:300:ILE:CG2	1:L:109:GLN:NE2	2.42	0.83
1:G:257:ASN:HB3	1:U:127:GLN:NE2	1.93	0.83
1:L:257:ASN:HB3	1:6:127:GLN:NE2	1.93	0.83
1:S:109:GLN:NE2	1:i:300:ILE:CG2	2.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:257:ASN:HB3	1:y:127:GLN:NE2	1.93	0.83
1:k:300:ILE:CG2	1:z:109:GLN:NE2	2.42	0.83
1:3:300:ILE:CG2	1:7:109:GLN:NE2	2.42	0.83
1:L:320:PHE:HE1	1:c:399:PRO:HB3	1.39	0.82
1:N:109:GLN:NE2	1:d:300:ILE:CG2	2.42	0.82
1:N:300:ILE:CG2	1:r:109:GLN:NE2	2.42	0.82
1:Q:257:ASN:HB3	1:n:127:GLN:NE2	1.93	0.82
1:X:300:ILE:CG2	1:Z:109:GLN:NE2	2.42	0.82
1:Y:257:ASN:HB3	1:g:127:GLN:NE2	1.93	0.82
1:i:109:GLN:NE2	1:n:300:ILE:CG2	2.42	0.82
1:j:109:GLN:NE2	1:v:300:ILE:CG2	2.42	0.82
1:o:300:ILE:CG2	1:8:109:GLN:NE2	2.42	0.82
1:1:127:GLN:NE2	1:8:257:ASN:HB3	1.93	0.82
1:2:391:ASP:HA	1:2:579:HIS:HB3	1.59	0.82
1:D:257:ASN:HB3	1:I:127:GLN:NE2	1.93	0.82
1:J:320:PHE:HE1	1:3:399:PRO:HB3	1.39	0.82
1:U:300:ILE:CG2	1:f:109:GLN:NE2	2.42	0.82
1:W:399:PRO:HB3	1:f:320:PHE:HE1	1.39	0.82
1:d:127:GLN:NE2	1:x:257:ASN:HB3	1.93	0.82
1:h:300:ILE:CG2	1:l:109:GLN:NE2	2.42	0.82
1:k:320:PHE:HE1	1:z:399:PRO:HB3	1.39	0.82
1:k:391:ASP:HA	1:k:579:HIS:HB3	1.59	0.82
1:o:127:GLN:NE2	1:y:257:ASN:HB3	1.93	0.82
1:A:109:GLN:NE2	1:R:300:ILE:CG2	2.42	0.82
1:C:109:GLN:NE2	1:K:300:ILE:CG2	2.42	0.82
1:F:257:ASN:HB3	1:X:127:GLN:NE2	1.93	0.82
1:I:300:ILE:CG2	1:K:109:GLN:NE2	2.42	0.82
1:J:391:ASP:HA	1:J:579:HIS:HB3	1.59	0.82
1:M:300:ILE:CG2	1:O:109:GLN:NE2	2.42	0.82
1:b:109:GLN:NE2	1:s:300:ILE:CG2	2.42	0.82
1:u:300:ILE:CG2	1:4:109:GLN:NE2	2.42	0.82
1:J:109:GLN:NE2	1:7:300:ILE:CG2	2.42	0.82
1:g:109:GLN:NE2	1:4:300:ILE:CG2	2.42	0.82
1:k:257:ASN:HB3	1:u:127:GLN:NE2	1.93	0.82
1:q:300:ILE:CG2	1:v:109:GLN:NE2	2.42	0.82
1:5:391:ASP:HA	1:5:579:HIS:HB3	1.59	0.82
1:E:300:ILE:CG2	1:M:109:GLN:NE2	2.42	0.82
1:U:109:GLN:NE2	1:W:300:ILE:CG2	2.42	0.82
1:W:109:GLN:NE2	1:f:300:ILE:CG2	2.42	0.82
1:Y:300:ILE:CG2	1:2:109:GLN:NE2	2.42	0.82
1:e:399:PRO:HB3	1:z:320:PHE:HE1	1.39	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:300:ILE:CG2	1:w:109:GLN:NE2	2.42	0.82
1:B:320:PHE:HE1	1:F:399:PRO:HB3	1.39	0.82
1:G:300:ILE:CG2	1:X:109:GLN:NE2	2.42	0.82
1:H:391:ASP:HA	1:H:579:HIS:HB3	1.59	0.82
1:b:300:ILE:CG2	1:6:109:GLN:NE2	2.42	0.82
1:o:109:GLN:NE2	1:t:300:ILE:CG2	2.42	0.82
1:p:300:ILE:CG2	1:x:109:GLN:NE2	2.42	0.82
1:E:109:GLN:NE2	1:O:300:ILE:CG2	2.42	0.82
1:I:257:ASN:HB3	1:3:127:GLN:NE2	1.93	0.82
1:J:300:ILE:CG2	1:3:109:GLN:NE2	2.42	0.82
1:Q:109:GLN:NE2	1:V:300:ILE:CG2	2.42	0.82
1:T:300:ILE:CG2	1:V:109:GLN:NE2	2.42	0.82
1:a:399:PRO:HB3	1:2:320:PHE:HE1	1.39	0.82
1:h:109:GLN:NE2	1:w:300:ILE:CG2	2.42	0.82
1:m:300:ILE:CG2	1:p:109:GLN:NE2	2.42	0.82
1:s:109:GLN:NE2	1:6:300:ILE:CG2	2.42	0.82
1:S:391:ASP:HA	1:S:579:HIS:HB3	1.59	0.82
1:g:399:PRO:HB3	1:4:320:PHE:HE1	1.39	0.82
1:y:399:PRO:HB3	1:1:320:PHE:HE1	1.39	0.82
1:a:109:GLN:NE2	1:2:300:ILE:CG2	2.42	0.82
1:a:127:GLN:NE2	1:u:257:ASN:HB3	1.93	0.82
1:C:399:PRO:HB3	1:K:320:PHE:HE1	1.39	0.82
1:S:300:ILE:CG2	1:n:109:GLN:NE2	2.42	0.82
1:d:109:GLN:NE2	1:r:300:ILE:CG2	2.42	0.82
1:F:300:ILE:CG2	1:H:109:GLN:NE2	2.42	0.81
1:H:127:GLN:NE2	1:R:257:ASN:HB3	1.93	0.81
1:L:300:ILE:CG2	1:c:109:GLN:NE2	2.42	0.81
1:Q:300:ILE:CG2	1:T:109:GLN:NE2	2.42	0.81
1:r:391:ASP:HA	1:r:579:HIS:HB3	1.59	0.81
1:y:300:ILE:CG2	1:5:109:GLN:NE2	2.42	0.81
1:G:109:GLN:NE2	1:Z:300:ILE:CG2	2.42	0.81
1:e:109:GLN:NE2	1:z:300:ILE:CG2	2.42	0.81
1:m:109:GLN:NE2	1:x:300:ILE:CG2	2.42	0.81
1:q:257:ASN:HB3	1:5:127:GLN:NE2	1.93	0.81
1:G:391:ASP:HA	1:G:579:HIS:HB3	1.59	0.81
1:X:257:ASN:HB3	1:2:127:GLN:NE2	1.93	0.81
1:t:109:GLN:NE2	1:8:300:ILE:CG2	2.42	0.81
1:t:391:ASP:HA	1:t:579:HIS:HB3	1.59	0.81
1:J:127:GLN:NE2	1:o:257:ASN:HB3	1.93	0.81
1:1:109:GLN:NE2	1:5:300:ILE:CG2	2.42	0.81
1:B:109:GLN:NE2	1:H:300:ILE:CG2	2.42	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:486:ARG:NH2	1:I:483:HIS:HB2	1.96	0.81
1:Y:483:HIS:HB2	1:a:486:ARG:NH2	1.96	0.81
1:3:486:ARG:NH2	1:7:483:HIS:HB2	1.96	0.81
1:G:483:HIS:HB2	1:Z:486:ARG:NH2	1.96	0.81
1:g:486:ARG:NH2	1:u:483:HIS:HB2	1.96	0.81
1:t:483:HIS:HB2	1:8:486:ARG:NH2	1.96	0.81
1:F:486:ARG:NH2	1:H:483:HIS:HB2	1.96	0.81
1:P:320:PHE:HE1	1:R:399:PRO:HB3	1.39	0.81
1:T:486:ARG:NH2	1:V:483:HIS:HB2	1.96	0.81
1:m:486:ARG:NH2	1:p:483:HIS:HB2	1.96	0.81
1:y:486:ARG:NH2	1:5:483:HIS:HB2	1.96	0.81
1:B:486:ARG:NH2	1:F:483:HIS:HB2	1.96	0.81
1:E:483:HIS:HB2	1:O:486:ARG:NH2	1.96	0.81
1:y:483:HIS:HB2	1:1:486:ARG:NH2	1.96	0.81
1:l:486:ARG:NH2	1:w:483:HIS:HB2	1.96	0.81
1:X:486:ARG:NH2	1:Z:483:HIS:HB2	1.96	0.80
1:B:483:HIS:HB2	1:H:486:ARG:NH2	1.96	0.80
1:N:556:THR:HG21	1:i:556:THR:HG21	1.55	0.80
1:U:486:ARG:NH2	1:f:483:HIS:HB2	1.96	0.80
1:W:483:HIS:HB2	1:f:486:ARG:NH2	1.96	0.80
1:o:486:ARG:NH2	1:8:483:HIS:HB2	1.96	0.80
1:1:483:HIS:HB2	1:5:486:ARG:NH2	1.96	0.80
1:J:486:ARG:NH2	1:3:483:HIS:HB2	1.96	0.80
1:b:483:HIS:HB2	1:s:486:ARG:NH2	1.96	0.80
1:b:486:ARG:NH2	1:6:483:HIS:HB2	1.96	0.80
1:j:320:PHE:HE1	1:q:399:PRO:HB3	1.39	0.80
1:D:486:ARG:NH2	1:L:483:HIS:HB2	1.96	0.80
1:U:483:HIS:HB2	1:W:486:ARG:NH2	1.96	0.80
1:a:483:HIS:HB2	1:2:486:ARG:NH2	1.96	0.80
1:s:483:HIS:HB2	1:6:486:ARG:NH2	1.96	0.80
1:P:486:ARG:NH2	1:R:483:HIS:HB2	1.96	0.80
1:d:483:HIS:HB2	1:r:486:ARG:NH2	1.96	0.80
1:A:486:ARG:NH2	1:P:483:HIS:HB2	1.96	0.80
1:I:486:ARG:NH2	1:K:483:HIS:HB2	1.96	0.80
1:N:483:HIS:HB2	1:d:486:ARG:NH2	1.96	0.80
1:k:486:ARG:NH2	1:z:483:HIS:HB2	1.96	0.80
1:C:483:HIS:CE1	1:K:462:PHE:H	2.00	0.80
1:G:486:ARG:NH2	1:X:483:HIS:HB2	1.96	0.80
1:L:462:PHE:H	1:c:483:HIS:CE1	2.00	0.80
1:S:486:ARG:NH2	1:n:483:HIS:HB2	1.96	0.80
1:e:483:HIS:CE1	1:z:462:PHE:H	2.00	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:483:HIS:CE1	1:4:462:PHE:H	2.00	0.80
1:j:486:ARG:NH2	1:q:483:HIS:HB2	1.96	0.80
1:q:486:ARG:NH2	1:v:483:HIS:HB2	1.96	0.80
1:u:486:ARG:NH2	1:4:483:HIS:HB2	1.96	0.80
1:J:483:HIS:CE1	1:7:462:PHE:H	2.00	0.80
1:N:486:ARG:NH2	1:r:483:HIS:HB2	1.96	0.80
1:S:462:PHE:H	1:n:483:HIS:CE1	2.00	0.80
1:S:483:HIS:HB2	1:i:486:ARG:NH2	1.96	0.80
1:X:462:PHE:H	1:Z:483:HIS:CE1	2.00	0.80
1:i:483:HIS:HB2	1:n:486:ARG:NH2	1.96	0.80
1:o:462:PHE:H	1:8:483:HIS:CE1	2.00	0.80
1:o:483:HIS:HB2	1:t:486:ARG:NH2	1.96	0.80
1:B:462:PHE:H	1:F:483:HIS:CE1	2.00	0.80
1:Y:462:PHE:H	1:2:483:HIS:CE1	2.00	0.80
1:d:483:HIS:CE1	1:r:462:PHE:H	2.00	0.80
1:j:483:HIS:HB2	1:v:486:ARG:NH2	1.96	0.80
1:b:462:PHE:H	1:6:483:HIS:CE1	2.00	0.79
1:h:447:MET:HE2	1:w:422:SER:HB3	1.65	0.79
1:A:483:HIS:HB2	1:R:486:ARG:NH2	1.96	0.79
1:E:422:SER:HB3	1:M:447:MET:HE2	1.65	0.79
1:W:483:HIS:CE1	1:f:462:PHE:H	2.00	0.79
1:y:483:HIS:CE1	1:1:462:PHE:H	2.00	0.79
1:D:462:PHE:H	1:L:483:HIS:CE1	2.00	0.79
1:G:483:HIS:CE1	1:Z:462:PHE:H	2.00	0.79
1:k:462:PHE:H	1:z:483:HIS:CE1	2.00	0.79
1:t:483:HIS:CE1	1:8:462:PHE:H	2.00	0.79
1:3:422:SER:HB3	1:7:447:MET:HE2	1.65	0.79
1:A:462:PHE:H	1:P:483:HIS:CE1	2.00	0.79
1:B:483:HIS:CE1	1:H:462:PHE:H	2.00	0.79
1:E:486:ARG:NH2	1:M:483:HIS:HB2	1.96	0.79
1:J:462:PHE:H	1:3:483:HIS:CE1	2.00	0.79
1:J:483:HIS:HB2	1:7:486:ARG:NH2	1.96	0.79
1:U:483:HIS:CE1	1:W:462:PHE:H	2.00	0.79
1:Y:447:MET:HE2	1:a:422:SER:HB3	1.65	0.79
1:e:483:HIS:HB2	1:z:486:ARG:NH2	1.96	0.79
1:p:486:ARG:NH2	1:x:483:HIS:HB2	1.96	0.79
1:y:462:PHE:H	1:5:483:HIS:CE1	2.00	0.79
1:F:462:PHE:H	1:H:483:HIS:CE1	2.00	0.79
1:J:42:SER:OG	1:o:265:ARG:HG3	1.83	0.79
1:L:486:ARG:NH2	1:c:483:HIS:HB2	1.96	0.79
1:Y:486:ARG:NH2	1:2:483:HIS:HB2	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:483:HIS:CE1	1:2:462:PHE:H	2.00	0.79
1:b:483:HIS:CE1	1:s:462:PHE:H	2.00	0.79
1:e:486:ARG:NH2	1:k:483:HIS:HB2	1.96	0.79
1:g:462:PHE:H	1:u:483:HIS:CE1	2.00	0.79
1:h:486:ARG:NH2	1:l:483:HIS:HB2	1.96	0.79
1:1:483:HIS:CE1	1:5:462:PHE:H	2.00	0.79
1:B:42:SER:OG	1:Z:265:ARG:HG3	1.83	0.79
1:C:265:ARG:HG3	1:F:42:SER:OG	1.83	0.79
1:C:462:PHE:H	1:I:483:HIS:CE1	2.00	0.79
1:M:265:ARG:HG3	1:r:42:SER:OG	1.83	0.79
1:M:486:ARG:NH2	1:O:483:HIS:HB2	1.96	0.79
1:N:462:PHE:H	1:r:483:HIS:CE1	2.00	0.79
1:O:265:ARG:HG3	1:R:42:SER:OG	1.83	0.79
1:Q:483:HIS:HB2	1:V:486:ARG:NH2	1.96	0.79
1:S:42:SER:OG	1:h:265:ARG:HG3	1.83	0.79
1:U:462:PHE:H	1:f:483:HIS:CE1	2.00	0.79
1:X:265:ARG:HG3	1:2:42:SER:OG	1.83	0.79
1:g:265:ARG:HG3	1:y:42:SER:OG	1.83	0.79
1:h:483:HIS:HB2	1:w:486:ARG:NH2	1.96	0.79
1:i:483:HIS:CE1	1:n:462:PHE:H	2.00	0.79
1:k:265:ARG:HG3	1:u:42:SER:OG	1.83	0.79
1:l:265:ARG:HG3	1:q:42:SER:OG	1.83	0.79
1:o:483:HIS:CE1	1:t:462:PHE:H	2.00	0.79
1:s:483:HIS:CE1	1:6:462:PHE:H	2.00	0.79
1:A:42:SER:OG	1:V:265:ARG:HG3	1.83	0.79
1:D:265:ARG:HG3	1:I:42:SER:OG	1.83	0.79
1:D:483:HIS:HB2	1:c:486:ARG:NH2	1.96	0.79
1:G:265:ARG:HG3	1:U:42:SER:OG	1.83	0.79
1:m:483:HIS:HB2	1:x:486:ARG:NH2	1.96	0.79
1:q:462:PHE:H	1:v:483:HIS:CE1	2.00	0.79
1:s:42:SER:OG	1:t:265:ARG:HG3	1.83	0.79
1:1:42:SER:OG	1:8:265:ARG:HG3	1.83	0.79
1:A:483:HIS:CE1	1:R:462:PHE:H	2.00	0.79
1:C:42:SER:OG	1:7:265:ARG:HG3	1.83	0.79
1:E:462:PHE:H	1:M:483:HIS:CE1	2.00	0.79
1:G:462:PHE:H	1:X:483:HIS:CE1	2.00	0.79
1:J:447:MET:HE2	1:7:422:SER:HB3	1.65	0.79
1:N:483:HIS:CE1	1:d:462:PHE:H	2.00	0.79
1:O:42:SER:OG	1:c:265:ARG:HG3	1.83	0.79
1:U:265:ARG:HG3	1:k:42:SER:OG	1.83	0.79
1:U:422:SER:HB3	1:f:447:MET:HE2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:483:HIS:CE1	1:a:462:PHE:H	2.00	0.79
1:h:483:HIS:CE1	1:w:462:PHE:H	2.00	0.79
1:m:462:PHE:H	1:p:483:HIS:CE1	2.00	0.79
1:m:483:HIS:CE1	1:x:462:PHE:H	2.00	0.79
1:D:42:SER:OG	1:s:265:ARG:HG3	1.83	0.79
1:E:483:HIS:CE1	1:O:462:PHE:H	2.00	0.79
1:P:462:PHE:H	1:R:483:HIS:CE1	2.00	0.79
1:Q:462:PHE:H	1:T:483:HIS:CE1	2.00	0.79
1:Q:486:ARG:NH2	1:T:483:HIS:HB2	1.96	0.79
1:S:483:HIS:CE1	1:i:462:PHE:H	2.00	0.79
1:Y:265:ARG:HG3	1:g:42:SER:OG	1.83	0.79
1:Y:422:SER:HB3	1:2:447:MET:HE2	1.65	0.79
1:b:447:MET:HE2	1:s:422:SER:HB3	1.64	0.79
1:e:265:ARG:HG3	1:l:42:SER:OG	1.83	0.79
1:j:462:PHE:H	1:q:483:HIS:CE1	2.00	0.79
1:B:447:MET:HE2	1:H:422:SER:HB3	1.65	0.79
1:G:42:SER:OG	1:a:265:ARG:HG3	1.83	0.79
1:M:462:PHE:H	1:O:483:HIS:CE1	2.00	0.79
1:Q:42:SER:OG	1:W:265:ARG:HG3	1.83	0.79
1:Q:422:SER:HB3	1:T:447:MET:HE2	1.65	0.79
1:T:462:PHE:H	1:V:483:HIS:CE1	2.00	0.79
1:V:42:SER:OG	1:i:265:ARG:HG3	1.83	0.79
1:b:42:SER:OG	1:m:265:ARG:HG3	1.83	0.79
1:h:462:PHE:H	1:l:483:HIS:CE1	2.00	0.79
1:j:483:HIS:CE1	1:v:462:PHE:H	2.00	0.79
1:l:462:PHE:H	1:w:483:HIS:CE1	2.00	0.79
1:m:447:MET:HE2	1:x:422:SER:HB3	1.65	0.79
1:t:42:SER:OG	1:3:265:ARG:HG3	1.83	0.79
1:x:42:SER:OG	1:6:265:ARG:HG3	1.83	0.79
1:3:462:PHE:H	1:7:483:HIS:CE1	2.00	0.79
1:N:265:ARG:HG3	1:p:42:SER:OG	1.83	0.78
1:T:265:ARG:HG3	1:f:42:SER:OG	1.83	0.78
1:1:447:MET:HE2	1:5:422:SER:HB3	1.65	0.78
1:P:265:ARG:HG3	1:T:42:SER:OG	1.83	0.78
1:Q:265:ARG:HG3	1:n:42:SER:OG	1.83	0.78
1:e:462:PHE:H	1:k:483:HIS:CE1	2.00	0.78
1:n:265:ARG:HG3	1:w:42:SER:OG	1.83	0.78
1:p:265:ARG:HG3	1:v:42:SER:OG	1.83	0.78
1:w:265:ARG:HG3	1:z:42:SER:OG	1.83	0.78
1:D:483:HIS:CE1	1:c:462:PHE:H	2.00	0.78
1:E:265:ARG:HG3	1:L:42:SER:OG	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:265:ARG:HG3	1:8:42:SER:OG	1.83	0.78
1:E:42:SER:OG	1:d:265:ARG:HG3	1.83	0.78
1:H:265:ARG:HG3	1:K:42:SER:OG	1.83	0.78
1:Q:483:HIS:CE1	1:V:462:PHE:H	2.00	0.78
1:S:447:MET:HE2	1:i:422:SER:HB3	1.65	0.78
1:Z:42:SER:OG	1:f:265:ARG:HG3	1.83	0.78
1:d:42:SER:OG	1:x:265:ARG:HG3	1.83	0.78
1:j:265:ARG:HG3	1:m:42:SER:OG	1.83	0.78
1:I:462:PHE:H	1:K:483:HIS:CE1	2.00	0.78
1:L:422:SER:HB3	1:c:447:MET:HE2	1.64	0.78
1:4:42:SER:OG	1:5:265:ARG:HG3	1.83	0.78
1:B:265:ARG:HG3	1:P:42:SER:OG	1.83	0.78
1:K:265:ARG:HG3	1:c:42:SER:OG	1.83	0.78
1:N:422:SER:HB3	1:r:447:MET:HE2	1.65	0.78
1:e:447:MET:HE2	1:z:422:SER:HB3	1.64	0.78
1:g:483:HIS:HB2	1:4:486:ARG:NH2	1.96	0.78
1:p:462:PHE:H	1:x:483:HIS:CE1	2.00	0.78
1:q:265:ARG:HG3	1:5:42:SER:OG	1.83	0.78
1:u:462:PHE:H	1:4:483:HIS:CE1	2.00	0.78
1:C:483:HIS:HB2	1:K:486:ARG:NH2	1.96	0.78
1:E:419:PHE:CE2	1:M:351:PHE:CB	2.67	0.78
1:H:42:SER:OG	1:R:265:ARG:HG3	1.83	0.78
1:J:419:PHE:CE2	1:3:351:PHE:CB	2.67	0.78
1:X:422:SER:HB3	1:Z:447:MET:HE2	1.65	0.78
1:a:351:PHE:CB	1:2:419:PHE:CE2	2.67	0.78
1:e:42:SER:OG	1:4:265:ARG:HG3	1.83	0.78
1:i:42:SER:OG	1:r:265:ARG:HG3	1.83	0.78
1:j:42:SER:OG	1:1:265:ARG:HG3	1.83	0.78
1:o:42:SER:OG	1:y:265:ARG:HG3	1.83	0.78
1:J:265:ARG:HG3	1:Y:42:SER:OG	1.83	0.78
1:N:42:SER:OG	1:S:265:ARG:HG3	1.83	0.78
1:W:42:SER:OG	1:z:265:ARG:HG3	1.83	0.78
1:a:447:MET:HE2	1:2:422:SER:HB3	1.64	0.78
1:h:351:PHE:CB	1:w:419:PHE:CE2	2.67	0.78
1:C:40:GLY:HA3	1:7:39:ILE:CG2	2.15	0.77
1:D:351:PHE:CB	1:c:419:PHE:CE2	2.67	0.77
1:F:265:ARG:HG3	1:X:42:SER:OG	1.83	0.77
1:J:422:SER:HB3	1:3:447:MET:HE2	1.64	0.77
1:g:419:PHE:CE2	1:u:351:PHE:CB	2.67	0.77
1:o:422:SER:HB3	1:8:447:MET:HE2	1.65	0.77
1:y:422:SER:HB3	1:5:447:MET:HE2	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:265:ARG:HG3	1:7:42:SER:OG	1.83	0.77
1:C:39:ILE:CG2	1:F:40:GLY:HA3	2.14	0.77
1:C:419:PHE:CE2	1:I:351:PHE:CB	2.67	0.77
1:F:422:SER:HB3	1:H:447:MET:HE2	1.65	0.77
1:G:351:PHE:CB	1:Z:419:PHE:CE2	2.67	0.77
1:L:265:ARG:HG3	1:6:42:SER:OG	1.83	0.77
1:U:447:MET:HE2	1:W:422:SER:HB3	1.65	0.77
1:Y:39:ILE:CG2	1:g:40:GLY:HA3	2.15	0.77
1:Y:419:PHE:CE2	1:2:351:PHE:CB	2.67	0.77
1:e:419:PHE:CE2	1:k:351:PHE:CB	2.67	0.77
1:g:39:ILE:CG2	1:y:40:GLY:HA3	2.14	0.77
1:t:351:PHE:CB	1:8:419:PHE:CE2	2.67	0.77
1:A:351:PHE:CB	1:R:419:PHE:CE2	2.67	0.77
1:A:422:SER:HB3	1:P:447:MET:HE2	1.64	0.77
1:C:351:PHE:CB	1:K:419:PHE:CE2	2.67	0.77
1:I:419:PHE:CE2	1:K:351:PHE:CB	2.67	0.77
1:J:351:PHE:CB	1:7:419:PHE:CE2	2.67	0.77
1:g:351:PHE:CB	1:4:419:PHE:CE2	2.67	0.77
1:h:40:GLY:HA3	1:v:39:ILE:CG2	2.15	0.77
1:u:419:PHE:CE2	1:4:351:PHE:CB	2.67	0.77
1:A:39:ILE:CG2	1:M:40:GLY:HA3	2.15	0.77
1:A:447:MET:HE2	1:R:422:SER:HB3	1.64	0.77
1:B:419:PHE:CE2	1:F:351:PHE:CB	2.67	0.77
1:B:422:SER:HB3	1:F:447:MET:HE2	1.64	0.77
1:F:419:PHE:CE2	1:H:351:PHE:CB	2.67	0.77
1:J:40:GLY:HA3	1:o:39:ILE:CG2	2.15	0.77
1:N:447:MET:HE2	1:d:422:SER:HB3	1.65	0.77
1:S:422:SER:HB3	1:n:447:MET:HE2	1.64	0.77
1:X:39:ILE:CG2	1:2:40:GLY:HA3	2.15	0.77
1:k:419:PHE:CE2	1:z:351:PHE:CB	2.67	0.77
1:k:422:SER:HB3	1:z:447:MET:HE2	1.65	0.77
1:q:422:SER:HB3	1:v:447:MET:HE2	1.64	0.77
1:s:447:MET:HE2	1:6:422:SER:HB3	1.65	0.77
1:t:40:GLY:HA3	1:3:39:ILE:CG2	2.15	0.77
1:y:351:PHE:CB	1:1:419:PHE:CE2	2.67	0.77
1:A:419:PHE:CE2	1:P:351:PHE:CB	2.67	0.77
1:D:419:PHE:CE2	1:L:351:PHE:CB	2.67	0.77
1:E:447:MET:HE2	1:O:422:SER:HB3	1.65	0.77
1:G:40:GLY:HA3	1:a:39:ILE:CG2	2.15	0.77
1:Q:39:ILE:CG2	1:n:40:GLY:HA3	2.14	0.77
1:d:40:GLY:HA3	1:x:39:ILE:CG2	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:447:MET:HE2	1:4:422:SER:HB3	1.65	0.77
1:h:42:SER:OG	1:v:265:ARG:HG3	1.83	0.77
1:i:447:MET:HE2	1:n:422:SER:HB3	1.65	0.77
1:j:447:MET:HE2	1:v:422:SER:HB3	1.65	0.77
1:q:419:PHE:CE2	1:v:351:PHE:CB	2.67	0.77
1:y:419:PHE:CE2	1:5:351:PHE:CB	2.67	0.77
1:A:265:ARG:HG3	1:M:42:SER:OG	1.83	0.77
1:C:447:MET:HE2	1:K:422:SER:HB3	1.65	0.77
1:D:422:SER:HB3	1:L:447:MET:HE2	1.65	0.77
1:G:422:SER:HB3	1:X:447:MET:HE2	1.65	0.77
1:M:419:PHE:CE2	1:O:351:PHE:CB	2.67	0.77
1:Q:419:PHE:CE2	1:T:351:PHE:CB	2.67	0.77
1:d:447:MET:HE2	1:r:422:SER:HB3	1.64	0.77
1:i:351:PHE:CB	1:n:419:PHE:CE2	2.67	0.77
1:o:447:MET:HE2	1:t:422:SER:HB3	1.65	0.77
1:y:447:MET:HE2	1:1:422:SER:HB3	1.64	0.77
1:C:422:SER:HB3	1:I:447:MET:HE2	1.65	0.77
1:N:351:PHE:CB	1:d:419:PHE:CE2	2.67	0.77
1:Q:447:MET:HE2	1:V:422:SER:HB3	1.65	0.77
1:h:419:PHE:CE2	1:l:351:PHE:CB	2.67	0.77
1:l:422:SER:HB3	1:w:447:MET:HE2	1.65	0.77
1:m:351:PHE:CB	1:x:419:PHE:CE2	2.67	0.77
1:m:422:SER:HB3	1:p:447:MET:HE2	1.65	0.77
1:o:351:PHE:CB	1:t:419:PHE:CE2	2.67	0.77
1:o:419:PHE:CE2	1:8:351:PHE:CB	2.67	0.77
1:G:419:PHE:CE2	1:X:351:PHE:CB	2.67	0.77
1:I:265:ARG:HG3	1:3:42:SER:OG	1.83	0.77
1:K:39:ILE:CG2	1:c:40:GLY:HA3	2.14	0.77
1:M:422:SER:HB3	1:O:447:MET:HE2	1.65	0.77
1:U:351:PHE:CB	1:W:419:PHE:CE2	2.67	0.77
1:X:419:PHE:CE2	1:Z:351:PHE:CB	2.67	0.77
1:d:351:PHE:CB	1:r:419:PHE:CE2	2.67	0.77
1:e:40:GLY:HA3	1:4:39:ILE:CG2	2.14	0.77
1:e:351:PHE:CB	1:z:419:PHE:CE2	2.67	0.77
1:s:351:PHE:CB	1:6:419:PHE:CE2	2.67	0.77
1:H:40:GLY:HA3	1:R:39:ILE:CG2	2.15	0.77
1:L:419:PHE:CE2	1:c:351:PHE:CB	2.67	0.77
1:P:39:ILE:CG2	1:T:40:GLY:HA3	2.15	0.77
1:T:422:SER:HB3	1:V:447:MET:HE2	1.65	0.77
1:W:351:PHE:CB	1:f:419:PHE:CE2	2.67	0.77
1:g:422:SER:HB3	1:u:447:MET:HE2	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:422:SER:HB3	1:l:447:MET:HE2	1.65	0.77
1:j:39:ILE:CG2	1:m:40:GLY:HA3	2.15	0.77
1:j:351:PHE:CB	1:v:419:PHE:CE2	2.67	0.77
1:m:419:PHE:CE2	1:p:351:PHE:CB	2.67	0.77
1:p:422:SER:HB3	1:x:447:MET:HE2	1.65	0.77
1:q:39:ILE:CG2	1:5:40:GLY:HA3	2.15	0.77
1:s:40:GLY:HA3	1:t:39:ILE:CG2	2.15	0.77
1:B:40:GLY:HA3	1:Z:39:ILE:CG2	2.15	0.77
1:D:40:GLY:HA3	1:s:39:ILE:CG2	2.15	0.77
1:N:419:PHE:CE2	1:r:351:PHE:CB	2.67	0.77
1:U:39:ILE:CG2	1:k:40:GLY:HA3	2.15	0.77
1:E:351:PHE:CB	1:O:419:PHE:CE2	2.67	0.76
1:G:39:ILE:CG2	1:U:40:GLY:HA3	2.15	0.76
1:J:39:ILE:CG2	1:Y:40:GLY:HA3	2.15	0.76
1:P:419:PHE:CE2	1:R:351:PHE:CB	2.67	0.76
1:S:419:PHE:CE2	1:n:351:PHE:CB	2.67	0.76
1:T:419:PHE:CE2	1:V:351:PHE:CB	2.67	0.76
1:a:42:SER:OG	1:u:265:ARG:HG3	1.83	0.76
1:b:419:PHE:CE2	1:6:351:PHE:CB	2.67	0.76
1:e:422:SER:HB3	1:k:447:MET:HE2	1.65	0.76
1:j:40:GLY:HA3	1:1:39:ILE:CG2	2.15	0.76
1:j:419:PHE:CE2	1:q:351:PHE:CB	2.67	0.76
1:j:422:SER:HB3	1:q:447:MET:HE2	1.65	0.76
1:1:40:GLY:HA3	1:8:39:ILE:CG2	2.15	0.76
1:A:40:GLY:HA3	1:V:39:ILE:CG2	2.14	0.76
1:B:39:ILE:CG2	1:P:40:GLY:HA3	2.14	0.76
1:O:39:ILE:CG2	1:R:40:GLY:HA3	2.15	0.76
1:P:422:SER:HB3	1:R:447:MET:HE2	1.65	0.76
1:S:351:PHE:CB	1:i:419:PHE:CE2	2.67	0.76
1:V:40:GLY:HA3	1:i:39:ILE:CG2	2.15	0.76
1:b:351:PHE:CB	1:s:419:PHE:CE2	2.67	0.76
1:l:39:ILE:CG2	1:q:40:GLY:HA3	2.15	0.76
1:l:419:PHE:CE2	1:w:351:PHE:CB	2.67	0.76
1:x:40:GLY:HA3	1:6:39:ILE:CG2	2.15	0.76
1:D:39:ILE:CG2	1:I:40:GLY:HA3	2.15	0.76
1:D:447:MET:HE2	1:c:422:SER:HB3	1.65	0.76
1:E:39:ILE:CG2	1:L:40:GLY:HA3	2.15	0.76
1:M:39:ILE:CG2	1:r:40:GLY:HA3	2.15	0.76
1:N:39:ILE:CG2	1:p:40:GLY:HA3	2.15	0.76
1:U:419:PHE:CE2	1:f:351:PHE:CB	2.67	0.76
1:Z:40:GLY:HA3	1:f:39:ILE:CG2	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:39:ILE:CG2	1:7:40:GLY:HA3	2.15	0.76
1:3:419:PHE:CE2	1:7:351:PHE:CB	2.67	0.76
1:B:351:PHE:CB	1:H:419:PHE:CE2	2.67	0.76
1:Q:40:GLY:HA3	1:W:39:ILE:CG2	2.15	0.76
1:Q:351:PHE:CB	1:V:419:PHE:CE2	2.67	0.76
1:S:40:GLY:HA3	1:h:39:ILE:CG2	2.15	0.76
1:Y:351:PHE:CB	1:a:419:PHE:CE2	2.67	0.76
1:a:40:GLY:HA3	1:u:39:ILE:CG2	2.14	0.76
1:b:39:ILE:CG2	1:8:40:GLY:HA3	2.15	0.76
1:k:39:ILE:CG2	1:u:40:GLY:HA3	2.15	0.76
1:p:419:PHE:CE2	1:x:351:PHE:CB	2.67	0.76
1:I:39:ILE:CG2	1:3:40:GLY:HA3	2.14	0.76
1:I:422:SER:HB3	1:K:447:MET:HE2	1.65	0.76
1:O:40:GLY:HA3	1:c:39:ILE:CG2	2.15	0.76
1:o:40:GLY:HA3	1:y:39:ILE:CG2	2.15	0.76
1:p:39:ILE:CG2	1:v:40:GLY:HA3	2.14	0.76
1:w:39:ILE:CG2	1:z:40:GLY:HA3	2.15	0.76
1:1:351:PHE:CB	1:5:419:PHE:CE2	2.67	0.76
1:F:39:ILE:CG2	1:X:40:GLY:HA3	2.15	0.76
1:N:40:GLY:HA3	1:S:39:ILE:CG2	2.15	0.76
1:4:40:GLY:HA3	1:5:39:ILE:CG2	2.15	0.76
1:H:39:ILE:CG2	1:K:40:GLY:HA3	2.15	0.76
1:T:39:ILE:CG2	1:f:40:GLY:HA3	2.14	0.76
1:e:39:ILE:CG2	1:l:40:GLY:HA3	2.15	0.76
1:i:40:GLY:HA3	1:r:39:ILE:CG2	2.15	0.76
1:n:39:ILE:CG2	1:w:40:GLY:HA3	2.15	0.76
1:C:231:ASN:ND2	1:K:431:GLN:HG2	2.01	0.76
1:C:431:GLN:HG2	1:I:231:ASN:ND2	2.01	0.76
1:E:231:ASN:ND2	1:O:431:GLN:HG2	2.01	0.76
1:G:231:ASN:ND2	1:Z:431:GLN:HG2	2.01	0.76
1:L:86:HIS:HA	1:L:106:THR:HG22	1.68	0.76
1:L:431:GLN:HG2	1:c:231:ASN:ND2	2.01	0.76
1:b:40:GLY:HA3	1:m:39:ILE:CG2	2.14	0.76
1:g:231:ASN:ND2	1:4:431:GLN:HG2	2.01	0.76
1:g:431:GLN:HG2	1:u:231:ASN:ND2	2.01	0.76
1:l:431:GLN:HG2	1:w:231:ASN:ND2	2.01	0.76
1:t:231:ASN:ND2	1:8:431:GLN:HG2	2.01	0.76
1:u:422:SER:HB3	1:4:447:MET:HE2	1.65	0.76
1:E:40:GLY:HA3	1:d:39:ILE:CG2	2.15	0.76
1:J:431:GLN:HG2	1:3:231:ASN:ND2	2.01	0.76
1:M:86:HIS:HA	1:M:106:THR:HG22	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:40:GLY:HA3	1:z:39:ILE:CG2	2.15	0.76
1:b:231:ASN:ND2	1:s:431:GLN:HG2	2.01	0.76
1:d:86:HIS:HA	1:d:106:THR:HG22	1.68	0.76
1:e:231:ASN:ND2	1:z:431:GLN:HG2	2.01	0.76
1:h:86:HIS:HA	1:h:106:THR:HG22	1.68	0.76
1:n:86:HIS:HA	1:n:106:THR:HG22	1.68	0.76
1:z:86:HIS:HA	1:z:106:THR:HG22	1.68	0.76
1:C:86:HIS:HA	1:C:106:THR:HG22	1.68	0.76
1:L:39:ILE:CG2	1:6:40:GLY:HA3	2.15	0.76
1:U:431:GLN:HG2	1:f:231:ASN:ND2	2.01	0.76
1:W:447:MET:HE2	1:f:422:SER:HB3	1.65	0.76
1:a:231:ASN:ND2	1:2:431:GLN:HG2	2.01	0.76
1:b:422:SER:HB3	1:6:447:MET:HE2	1.65	0.76
1:u:431:GLN:HG2	1:4:231:ASN:ND2	2.01	0.76
1:I:431:GLN:HG2	1:K:231:ASN:ND2	2.01	0.75
1:N:231:ASN:ND2	1:d:431:GLN:HG2	2.01	0.75
1:g:86:HIS:HA	1:g:106:THR:HG22	1.68	0.75
1:i:231:ASN:ND2	1:n:431:GLN:HG2	2.01	0.75
1:s:86:HIS:HA	1:s:106:THR:HG22	1.68	0.75
1:N:431:GLN:HG2	1:r:231:ASN:ND2	2.01	0.75
1:X:431:GLN:HG2	1:Z:231:ASN:ND2	2.01	0.75
1:H:86:HIS:HA	1:H:106:THR:HG22	1.68	0.75
1:U:86:HIS:HA	1:U:106:THR:HG22	1.68	0.75
1:W:231:ASN:ND2	1:f:431:GLN:HG2	2.01	0.75
1:e:431:GLN:HG2	1:k:231:ASN:ND2	2.01	0.75
1:k:431:GLN:HG2	1:z:231:ASN:ND2	2.01	0.75
1:o:431:GLN:HG2	1:8:231:ASN:ND2	2.01	0.75
1:5:86:HIS:HA	1:5:106:THR:HG22	1.68	0.75
1:D:231:ASN:ND2	1:c:431:GLN:HG2	2.01	0.75
1:S:231:ASN:ND2	1:i:431:GLN:HG2	2.01	0.75
1:D:431:GLN:HG2	1:L:231:ASN:ND2	2.01	0.75
1:F:431:GLN:HG2	1:H:231:ASN:ND2	2.01	0.75
1:Q:253:PHE:HE1	1:V:548:THR:HG22	1.52	0.75
1:b:431:GLN:HG2	1:6:231:ASN:ND2	2.01	0.75
1:m:231:ASN:ND2	1:x:431:GLN:HG2	2.01	0.75
1:N:548:THR:HG22	1:r:253:PHE:HE1	1.52	0.75
1:Q:231:ASN:ND2	1:V:431:GLN:HG2	2.01	0.75
1:h:431:GLN:HG2	1:l:231:ASN:ND2	2.01	0.75
1:p:548:THR:HG22	1:x:253:PHE:HE1	1.52	0.75
1:t:86:HIS:HA	1:t:106:THR:HG22	1.68	0.75
1:t:447:MET:HE2	1:8:422:SER:HB3	1.65	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:86:HIS:HA	1:F:106:THR:HG22	1.68	0.75
1:Q:431:GLN:HG2	1:T:231:ASN:ND2	2.01	0.75
1:S:253:PHE:HE1	1:i:548:THR:HG22	1.52	0.75
1:T:86:HIS:HA	1:T:106:THR:HG22	1.68	0.75
1:d:231:ASN:ND2	1:r:431:GLN:HG2	2.01	0.75
1:m:86:HIS:HA	1:m:106:THR:HG22	1.68	0.75
1:y:86:HIS:HA	1:y:106:THR:HG22	1.68	0.75
1:y:431:GLN:HG2	1:5:231:ASN:ND2	2.01	0.75
1:1:86:HIS:HA	1:1:106:THR:HG22	1.68	0.75
1:B:86:HIS:HA	1:B:106:THR:HG22	1.68	0.75
1:G:86:HIS:HA	1:G:106:THR:HG22	1.68	0.75
1:M:431:GLN:HG2	1:O:231:ASN:ND2	2.01	0.75
1:U:548:THR:HG22	1:f:253:PHE:HE1	1.52	0.75
1:h:548:THR:HG22	1:l:253:PHE:HE1	1.52	0.75
1:2:86:HIS:HA	1:2:106:THR:HG22	1.68	0.75
1:J:86:HIS:HA	1:J:106:THR:HG22	1.68	0.74
1:M:548:THR:HG22	1:O:253:PHE:HE1	1.52	0.74
1:S:431:GLN:HG2	1:n:231:ASN:ND2	2.01	0.74
1:b:253:PHE:HE1	1:s:548:THR:HG22	1.52	0.74
1:G:447:MET:HE2	1:Z:422:SER:HB3	1.65	0.74
1:T:431:GLN:HG2	1:V:231:ASN:ND2	2.01	0.74
1:s:231:ASN:ND2	1:6:431:GLN:HG2	2.01	0.74
1:J:231:ASN:ND2	1:7:431:GLN:HG2	2.01	0.74
1:P:86:HIS:HA	1:P:106:THR:HG22	1.68	0.74
1:j:86:HIS:HA	1:j:106:THR:HG22	1.68	0.74
1:j:431:GLN:HG2	1:q:231:ASN:ND2	2.01	0.74
1:x:86:HIS:HA	1:x:106:THR:HG22	1.68	0.74
1:F:257:ASN:CB	1:X:127:GLN:NE2	2.51	0.74
1:H:257:ASN:CB	1:K:127:GLN:NE2	2.51	0.74
1:S:127:GLN:NE2	1:h:257:ASN:CB	2.51	0.74
1:W:86:HIS:HA	1:W:106:THR:HG22	1.68	0.74
1:b:257:ASN:CB	1:8:127:GLN:NE2	2.51	0.74
1:m:431:GLN:HG2	1:p:231:ASN:ND2	2.01	0.74
1:1:231:ASN:ND2	1:5:431:GLN:HG2	2.01	0.74
1:4:127:GLN:NE2	1:5:257:ASN:CB	2.51	0.74
1:6:86:HIS:HA	1:6:106:THR:HG22	1.68	0.74
1:A:127:GLN:NE2	1:V:257:ASN:CB	2.50	0.74
1:B:231:ASN:ND2	1:H:431:GLN:HG2	2.01	0.74
1:D:127:GLN:NE2	1:s:257:ASN:CB	2.51	0.74
1:J:253:PHE:HE1	1:7:548:THR:HG22	1.52	0.74
1:K:257:ASN:CB	1:c:127:GLN:NE2	2.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:257:ASN:CB	1:r:127:GLN:NE2	2.51	0.74
1:P:431:GLN:HG2	1:R:231:ASN:ND2	2.01	0.74
1:Q:86:HIS:HA	1:Q:106:THR:HG22	1.68	0.74
1:U:231:ASN:ND2	1:W:431:GLN:HG2	2.01	0.74
1:U:257:ASN:CB	1:k:127:GLN:NE2	2.51	0.74
1:Y:431:GLN:HG2	1:2:231:ASN:ND2	2.01	0.74
1:Y:548:THR:HG22	1:2:253:PHE:HE1	1.52	0.74
1:Z:127:GLN:NE2	1:f:257:ASN:CB	2.51	0.74
1:e:127:GLN:NE2	1:4:257:ASN:CB	2.51	0.74
1:h:127:GLN:NE2	1:v:257:ASN:CB	2.51	0.74
1:o:127:GLN:NE2	1:y:257:ASN:CB	2.51	0.74
1:o:231:ASN:ND2	1:t:431:GLN:HG2	2.01	0.74
1:A:257:ASN:CB	1:M:127:GLN:NE2	2.51	0.74
1:A:431:GLN:HG2	1:P:231:ASN:ND2	2.01	0.74
1:G:127:GLN:NE2	1:a:257:ASN:CB	2.51	0.74
1:J:257:ASN:CB	1:Y:127:GLN:NE2	2.51	0.74
1:X:86:HIS:HA	1:X:106:THR:HG22	1.68	0.74
1:b:86:HIS:HA	1:b:106:THR:HG22	1.68	0.74
1:c:86:HIS:HA	1:c:106:THR:HG22	1.68	0.74
1:k:257:ASN:CB	1:u:127:GLN:NE2	2.51	0.74
1:m:253:PHE:HE1	1:x:548:THR:HG22	1.52	0.74
1:o:86:HIS:HA	1:o:106:THR:HG22	1.68	0.74
1:2:257:ASN:CB	1:7:127:GLN:NE2	2.51	0.74
1:H:127:GLN:NE2	1:R:257:ASN:CB	2.51	0.74
1:L:548:THR:HG22	1:c:253:PHE:HE1	1.52	0.74
1:N:86:HIS:HA	1:N:106:THR:HG22	1.68	0.74
1:a:86:HIS:HA	1:a:106:THR:HG22	1.68	0.74
1:e:86:HIS:HA	1:e:106:THR:HG22	1.68	0.74
1:j:127:GLN:NE2	1:1:257:ASN:CB	2.51	0.74
1:q:86:HIS:HA	1:q:106:THR:HG22	1.68	0.74
1:q:257:ASN:CB	1:5:127:GLN:NE2	2.51	0.74
1:t:127:GLN:NE2	1:3:257:ASN:CB	2.51	0.74
1:3:86:HIS:HA	1:3:106:THR:HG22	1.68	0.74
1:B:257:ASN:CB	1:P:127:GLN:NE2	2.51	0.74
1:C:257:ASN:CB	1:F:127:GLN:NE2	2.51	0.74
1:G:431:GLN:HG2	1:X:231:ASN:ND2	2.01	0.74
1:K:86:HIS:HA	1:K:106:THR:HG22	1.68	0.74
1:Q:257:ASN:CB	1:n:127:GLN:NE2	2.51	0.74
1:Q:548:THR:HG22	1:T:253:PHE:HE1	1.52	0.74
1:R:86:HIS:HA	1:R:106:THR:HG22	1.68	0.74
1:d:127:GLN:NE2	1:x:257:ASN:CB	2.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:253:PHE:HE1	1:z:548:THR:HG22	1.52	0.74
1:f:86:HIS:HA	1:f:106:THR:HG22	1.68	0.74
1:p:86:HIS:HA	1:p:106:THR:HG22	1.68	0.74
1:4:86:HIS:HA	1:4:106:THR:HG22	1.68	0.74
1:E:127:GLN:NE2	1:d:257:ASN:CB	2.51	0.74
1:L:265:ARG:HD2	1:6:42:SER:HA	1.70	0.74
1:V:86:HIS:HA	1:V:106:THR:HG22	1.68	0.74
1:Z:86:HIS:HA	1:Z:106:THR:HG22	1.68	0.74
1:b:548:THR:HG22	1:6:253:PHE:HE1	1.52	0.74
1:g:257:ASN:CB	1:y:127:GLN:NE2	2.51	0.74
1:h:231:ASN:ND2	1:w:431:GLN:HG2	2.01	0.74
1:i:86:HIS:HA	1:i:106:THR:HG22	1.68	0.74
1:n:257:ASN:CB	1:w:127:GLN:NE2	2.51	0.74
1:n:265:ARG:HD2	1:w:42:SER:HA	1.70	0.74
1:4:42:SER:HA	1:5:265:ARG:HD2	1.70	0.74
1:8:86:HIS:HA	1:8:106:THR:HG22	1.68	0.74
1:B:265:ARG:HD2	1:P:42:SER:HA	1.70	0.74
1:C:42:SER:HA	1:7:265:ARG:HD2	1.70	0.74
1:E:42:SER:HA	1:d:265:ARG:HD2	1.70	0.74
1:H:265:ARG:HD2	1:K:42:SER:HA	1.70	0.74
1:I:265:ARG:HD2	1:3:42:SER:HA	1.70	0.74
1:J:98:LYS:HD2	1:J:232:SER:HB2	1.70	0.74
1:J:127:GLN:NE2	1:o:257:ASN:CB	2.51	0.74
1:N:127:GLN:NE2	1:S:257:ASN:CB	2.51	0.74
1:T:257:ASN:CB	1:f:127:GLN:NE2	2.51	0.74
1:W:42:SER:HA	1:z:265:ARG:HD2	1.70	0.74
1:X:257:ASN:CB	1:2:127:GLN:NE2	2.51	0.74
1:a:127:GLN:NE2	1:u:257:ASN:CB	2.51	0.74
1:b:127:GLN:NE2	1:m:257:ASN:CB	2.51	0.74
1:j:257:ASN:CB	1:m:127:GLN:NE2	2.51	0.74
1:p:257:ASN:CB	1:v:127:GLN:NE2	2.51	0.74
1:2:98:LYS:HD2	1:2:232:SER:HB2	1.70	0.74
1:D:86:HIS:HA	1:D:106:THR:HG22	1.68	0.73
1:I:257:ASN:CB	1:3:127:GLN:NE2	2.51	0.73
1:M:265:ARG:HD2	1:r:42:SER:HA	1.70	0.73
1:R:98:LYS:HD2	1:R:232:SER:HB2	1.70	0.73
1:S:42:SER:HA	1:h:265:ARG:HD2	1.70	0.73
1:W:253:PHE:HE1	1:f:548:THR:HG22	1.52	0.73
1:Y:265:ARG:HD2	1:g:42:SER:HA	1.70	0.73
1:a:42:SER:HA	1:u:265:ARG:HD2	1.70	0.73
1:i:127:GLN:NE2	1:r:257:ASN:CB	2.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:86:HIS:HA	1:k:106:THR:HG22	1.68	0.73
1:p:431:GLN:HG2	1:x:231:ASN:ND2	2.01	0.73
1:q:98:LYS:HD2	1:q:232:SER:HB2	1.70	0.73
1:x:42:SER:HA	1:6:265:ARG:HD2	1.70	0.73
1:D:257:ASN:CB	1:I:127:GLN:NE2	2.51	0.73
1:E:431:GLN:HG2	1:M:231:ASN:ND2	2.01	0.73
1:O:257:ASN:CB	1:R:127:GLN:NE2	2.51	0.73
1:P:257:ASN:CB	1:T:127:GLN:NE2	2.51	0.73
1:Q:42:SER:HA	1:W:265:ARG:HD2	1.70	0.73
1:X:265:ARG:HD2	1:2:42:SER:HA	1.70	0.73
1:Y:86:HIS:HA	1:Y:106:THR:HG22	1.68	0.73
1:b:42:SER:HA	1:m:265:ARG:HD2	1.70	0.73
1:j:42:SER:HA	1:1:265:ARG:HD2	1.70	0.73
1:O:127:GLN:NE2	1:c:257:ASN:CB	2.51	0.73
1:T:265:ARG:HD2	1:f:42:SER:HA	1.70	0.73
1:V:98:LYS:HD2	1:V:232:SER:HB2	1.71	0.73
1:Z:98:LYS:HD2	1:Z:232:SER:HB2	1.71	0.73
1:e:257:ASN:CB	1:l:127:GLN:NE2	2.51	0.73
1:l:257:ASN:CB	1:q:127:GLN:NE2	2.51	0.73
1:s:127:GLN:NE2	1:t:257:ASN:CB	2.51	0.73
1:3:98:LYS:HD2	1:3:232:SER:HB2	1.71	0.73
1:8:98:LYS:HD2	1:8:232:SER:HB2	1.71	0.73
1:I:98:LYS:HD2	1:I:232:SER:HB2	1.71	0.73
1:J:42:SER:HA	1:o:265:ARG:HD2	1.70	0.73
1:U:98:LYS:HD2	1:U:232:SER:HB2	1.70	0.73
1:a:98:LYS:HD2	1:a:232:SER:HB2	1.71	0.73
1:p:98:LYS:HD2	1:p:232:SER:HB2	1.71	0.73
1:r:86:HIS:HA	1:r:106:THR:HG22	1.68	0.73
1:u:98:LYS:HD2	1:u:232:SER:HB2	1.71	0.73
1:x:127:GLN:NE2	1:6:257:ASN:CB	2.51	0.73
1:3:431:GLN:HG2	1:7:231:ASN:ND2	2.01	0.73
1:7:86:HIS:HA	1:7:106:THR:HG22	1.68	0.73
1:E:257:ASN:CB	1:L:127:GLN:NE2	2.51	0.73
1:G:257:ASN:CB	1:U:127:GLN:NE2	2.51	0.73
1:L:257:ASN:CB	1:6:127:GLN:NE2	2.51	0.73
1:Q:127:GLN:NE2	1:W:257:ASN:CB	2.51	0.73
1:g:548:THR:HG22	1:u:253:PHE:HE1	1.52	0.73
1:s:98:LYS:HD2	1:s:232:SER:HB2	1.70	0.73
1:w:257:ASN:CB	1:z:127:GLN:NE2	2.51	0.73
1:C:127:GLN:NE2	1:7:257:ASN:CB	2.51	0.73
1:E:98:LYS:HD2	1:E:232:SER:HB2	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:98:LYS:HD2	1:M:232:SER:HB2	1.71	0.73
1:N:265:ARG:HD2	1:p:42:SER:HA	1.70	0.73
1:S:86:HIS:HA	1:S:106:THR:HG22	1.68	0.73
1:V:42:SER:HA	1:i:265:ARG:HD2	1.70	0.73
1:h:98:LYS:HD2	1:h:232:SER:HB2	1.71	0.73
1:w:98:LYS:HD2	1:w:232:SER:HB2	1.71	0.73
1:1:127:GLN:NE2	1:8:257:ASN:CB	2.51	0.73
1:B:127:GLN:NE2	1:Z:257:ASN:CB	2.51	0.73
1:H:42:SER:HA	1:R:265:ARG:HD2	1.70	0.73
1:V:127:GLN:NE2	1:i:257:ASN:CB	2.51	0.73
1:W:127:GLN:NE2	1:z:257:ASN:CB	2.51	0.73
1:Y:231:ASN:ND2	1:a:431:GLN:HG2	2.01	0.73
1:k:265:ARG:HD2	1:u:42:SER:HA	1.70	0.73
1:q:265:ARG:HD2	1:5:42:SER:HA	1.70	0.73
1:y:231:ASN:ND2	1:1:431:GLN:HG2	2.01	0.73
1:y:253:PHE:HE1	1:1:548:THR:HG22	1.52	0.73
1:z:98:LYS:HD2	1:z:232:SER:HB2	1.70	0.73
1:5:98:LYS:HD2	1:5:232:SER:HB2	1.70	0.73
1:B:548:THR:HG22	1:F:253:PHE:HE1	1.52	0.73
1:C:253:PHE:HE1	1:K:548:THR:HG22	1.52	0.73
1:C:548:THR:HG22	1:I:253:PHE:HE1	1.52	0.73
1:D:265:ARG:HD2	1:I:42:SER:HA	1.70	0.73
1:E:86:HIS:HA	1:E:106:THR:HG22	1.68	0.73
1:L:98:LYS:HD2	1:L:232:SER:HB2	1.70	0.73
1:O:98:LYS:HD2	1:O:232:SER:HB2	1.71	0.73
1:P:265:ARG:HD2	1:T:42:SER:HA	1.70	0.73
1:Y:257:ASN:CB	1:g:127:GLN:NE2	2.51	0.73
1:j:98:LYS:HD2	1:j:232:SER:HB2	1.70	0.73
1:j:231:ASN:ND2	1:v:431:GLN:HG2	2.01	0.73
1:j:265:ARG:HD2	1:m:42:SER:HA	1.70	0.73
1:v:86:HIS:HA	1:v:106:THR:HG22	1.68	0.73
1:H:98:LYS:HD2	1:H:232:SER:HB2	1.70	0.73
1:N:257:ASN:CB	1:p:127:GLN:NE2	2.51	0.73
1:P:98:LYS:HD2	1:P:232:SER:HB2	1.70	0.73
1:Q:98:LYS:HD2	1:Q:232:SER:HB2	1.71	0.73
1:U:265:ARG:HD2	1:k:42:SER:HA	1.70	0.73
1:l:98:LYS:HD2	1:l:232:SER:HB2	1.71	0.73
1:o:548:THR:HG22	1:8:253:PHE:HE1	1.52	0.73
1:t:42:SER:HA	1:3:265:ARG:HD2	1.70	0.73
1:A:86:HIS:HA	1:A:106:THR:HG22	1.68	0.73
1:B:431:GLN:HG2	1:F:231:ASN:ND2	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:SER:HA	1:s:265:ARG:HD2	1.70	0.73
1:G:42:SER:HA	1:a:265:ARG:HD2	1.70	0.73
1:b:265:ARG:HD2	1:8:42:SER:HA	1.70	0.73
1:g:253:PHE:HE1	1:4:548:THR:HG22	1.52	0.73
1:w:86:HIS:HA	1:w:106:THR:HG22	1.68	0.73
1:x:98:LYS:HD2	1:x:232:SER:HB2	1.71	0.73
1:I:86:HIS:HA	1:I:106:THR:HG22	1.68	0.72
1:O:86:HIS:HA	1:O:106:THR:HG22	1.68	0.72
1:O:265:ARG:HD2	1:R:42:SER:HA	1.70	0.72
1:S:98:LYS:HD2	1:S:232:SER:HB2	1.70	0.72
1:Z:42:SER:HA	1:f:265:ARG:HD2	1.70	0.72
1:b:98:LYS:HD2	1:b:232:SER:HB2	1.71	0.72
1:l:548:THR:HG22	1:w:253:PHE:HE1	1.52	0.72
1:r:98:LYS:HD2	1:r:232:SER:HB2	1.70	0.72
1:u:86:HIS:HA	1:u:106:THR:HG22	1.68	0.72
1:B:42:SER:HA	1:Z:265:ARG:HD2	1.70	0.72
1:C:98:LYS:HD2	1:C:232:SER:HB2	1.71	0.72
1:e:548:THR:HG22	1:k:253:PHE:HE1	1.52	0.72
1:3:548:THR:HG22	1:7:253:PHE:HE1	1.52	0.72
1:D:98:LYS:HD2	1:D:232:SER:HB2	1.70	0.72
1:Y:253:PHE:HE1	1:a:548:THR:HG22	1.52	0.72
1:e:98:LYS:HD2	1:e:232:SER:HB2	1.71	0.72
1:f:98:LYS:HD2	1:f:232:SER:HB2	1.71	0.72
1:g:98:LYS:HD2	1:g:232:SER:HB2	1.71	0.72
1:g:265:ARG:HD2	1:y:42:SER:HA	1.70	0.72
1:k:98:LYS:HD2	1:k:232:SER:HB2	1.70	0.72
1:l:86:HIS:HA	1:l:106:THR:HG22	1.68	0.72
1:C:265:ARG:HD2	1:F:42:SER:HA	1.70	0.72
1:E:253:PHE:HE1	1:O:548:THR:HG22	1.52	0.72
1:i:42:SER:HA	1:r:265:ARG:HD2	1.70	0.72
1:l:265:ARG:HD2	1:q:42:SER:HA	1.70	0.72
1:1:42:SER:HA	1:8:265:ARG:HD2	1.70	0.72
1:B:98:LYS:HD2	1:B:232:SER:HB2	1.70	0.72
1:H:556:THR:HG22	1:P:556:THR:HG21	1.72	0.72
1:N:42:SER:HA	1:S:265:ARG:HD2	1.70	0.72
1:c:98:LYS:HD2	1:c:232:SER:HB2	1.71	0.72
1:j:556:THR:HG21	1:5:556:THR:HG22	1.72	0.72
1:n:98:LYS:HD2	1:n:232:SER:HB2	1.71	0.72
1:A:42:SER:HA	1:V:265:ARG:HD2	1.70	0.72
1:D:253:PHE:HE1	1:c:548:THR:HG22	1.52	0.72
1:J:265:ARG:HD2	1:Y:42:SER:HA	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:98:LYS:HD2	1:W:232:SER:HB2	1.70	0.72
1:d:98:LYS:HD2	1:d:232:SER:HB2	1.71	0.72
1:q:431:GLN:HG2	1:v:231:ASN:ND2	2.01	0.72
1:s:42:SER:HA	1:t:265:ARG:HD2	1.70	0.72
1:1:98:LYS:HD2	1:1:232:SER:HB2	1.70	0.72
1:2:265:ARG:HD2	1:7:42:SER:HA	1.70	0.72
1:6:98:LYS:HD2	1:6:232:SER:HB2	1.70	0.72
1:G:265:ARG:HD2	1:U:42:SER:HA	1.70	0.72
1:e:42:SER:HA	1:4:265:ARG:HD2	1.70	0.72
1:A:265:ARG:HD2	1:M:42:SER:HA	1.70	0.72
1:J:556:THR:HG21	1:t:556:THR:HG22	1.72	0.72
1:O:42:SER:HA	1:c:265:ARG:HD2	1.70	0.72
1:Y:98:LYS:HD2	1:Y:232:SER:HB2	1.70	0.72
1:e:265:ARG:HD2	1:l:42:SER:HA	1.70	0.72
1:p:265:ARG:HD2	1:v:42:SER:HA	1.70	0.72
1:w:265:ARG:HD2	1:z:42:SER:HA	1.70	0.72
1:A:231:ASN:ND2	1:R:431:GLN:HG2	2.01	0.72
1:G:556:THR:HG22	1:2:556:THR:HG21	1.72	0.72
1:K:265:ARG:HD2	1:c:42:SER:HA	1.70	0.72
1:Q:265:ARG:HD2	1:n:42:SER:HA	1.70	0.72
1:h:42:SER:HA	1:v:265:ARG:HD2	1.70	0.72
1:E:556:THR:HG21	1:r:556:THR:HG22	1.72	0.71
1:F:265:ARG:HD2	1:X:42:SER:HA	1.70	0.71
1:K:98:LYS:HD2	1:K:232:SER:HB2	1.71	0.71
1:V:556:THR:HG22	1:n:556:THR:HG21	1.72	0.71
1:d:42:SER:HA	1:x:265:ARG:HD2	1.70	0.71
1:o:98:LYS:HD2	1:o:232:SER:HB2	1.71	0.71
1:E:265:ARG:HD2	1:L:42:SER:HA	1.70	0.71
1:S:556:THR:HG22	1:w:556:THR:HG21	1.72	0.71
1:X:98:LYS:HD2	1:X:232:SER:HB2	1.71	0.71
1:d:556:THR:HG21	1:p:556:THR:HG22	1.72	0.71
1:4:98:LYS:HD2	1:4:232:SER:HB2	1.71	0.71
1:7:98:LYS:HD2	1:7:232:SER:HB2	1.70	0.71
1:F:556:THR:HG22	1:K:556:THR:HG21	1.72	0.71
1:e:556:THR:HG21	1:u:556:THR:HG22	1.72	0.71
1:o:42:SER:HA	1:y:265:ARG:HD2	1.70	0.71
1:y:556:THR:HG22	1:4:556:THR:HG21	1.72	0.71
1:G:483:HIS:CB	1:Z:486:ARG:HH21	2.04	0.71
1:i:253:PHE:HE1	1:n:548:THR:HG22	1.52	0.71
1:m:98:LYS:HD2	1:m:232:SER:HB2	1.71	0.71
1:t:483:HIS:CB	1:8:486:ARG:HH21	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:556:THR:HG22	1:c:556:THR:HG21	1.72	0.71
1:T:98:LYS:HD2	1:T:232:SER:HB2	1.71	0.71
1:Q:556:THR:HG21	1:f:556:THR:HG22	1.72	0.71
1:b:556:THR:HG22	1:x:556:THR:HG21	1.72	0.71
1:U:556:THR:HG21	1:Z:556:THR:HG22	1.72	0.71
1:i:483:HIS:CB	1:n:486:ARG:HH21	2.04	0.71
1:t:98:LYS:HD2	1:t:232:SER:HB2	1.71	0.71
1:v:98:LYS:HD2	1:v:232:SER:HB2	1.71	0.71
1:A:98:LYS:HD2	1:A:232:SER:HB2	1.71	0.71
1:G:98:LYS:HD2	1:G:232:SER:HB2	1.71	0.71
1:J:486:ARG:HH21	1:3:483:HIS:CB	2.04	0.71
1:N:253:PHE:HE1	1:d:548:THR:HG22	1.52	0.71
1:N:483:HIS:CB	1:d:486:ARG:HH21	2.04	0.71
1:a:483:HIS:CB	1:2:486:ARG:HH21	2.04	0.71
1:j:548:THR:HG22	1:q:253:PHE:HE1	1.52	0.71
1:s:556:THR:HG21	1:8:556:THR:HG22	1.72	0.71
1:E:483:HIS:CB	1:O:486:ARG:HH21	2.04	0.71
1:F:98:LYS:HD2	1:F:232:SER:HB2	1.71	0.71
1:M:556:THR:HG21	1:R:556:THR:HG22	1.72	0.71
1:P:548:THR:HG22	1:R:253:PHE:HE1	1.52	0.71
1:j:253:PHE:HE1	1:v:548:THR:HG22	1.52	0.71
1:C:447:MET:HE1	1:K:422:SER:CB	2.21	0.70
1:G:253:PHE:HE1	1:Z:548:THR:HG22	1.52	0.70
1:T:422:SER:CB	1:V:447:MET:HE1	2.21	0.70
1:X:422:SER:CB	1:Z:447:MET:HE1	2.21	0.70
1:Y:486:ARG:HH21	1:2:483:HIS:CB	2.04	0.70
1:g:447:MET:HE1	1:4:422:SER:CB	2.21	0.70
1:h:556:THR:HG21	1:q:556:THR:HG22	1.72	0.70
1:o:422:SER:CB	1:8:447:MET:HE1	2.21	0.70
1:q:486:ARG:HH21	1:v:483:HIS:CB	2.04	0.70
1:s:483:HIS:CB	1:6:486:ARG:HH21	2.04	0.70
1:t:253:PHE:HE1	1:8:548:THR:HG22	1.52	0.70
1:y:98:LYS:HD2	1:y:232:SER:HB2	1.71	0.70
1:y:556:THR:HG21	1:4:556:THR:HG22	1.72	0.70
1:A:160:GLU:O	1:M:169:ILE:CD1	2.39	0.70
1:A:548:THR:HG22	1:P:253:PHE:HE1	1.52	0.70
1:D:556:THR:HG22	1:6:556:THR:HG21	1.72	0.70
1:J:483:HIS:CB	1:7:486:ARG:HH21	2.04	0.70
1:U:483:HIS:CB	1:W:486:ARG:HH21	2.04	0.70
1:W:556:THR:HG21	1:k:556:THR:HG22	1.72	0.70
1:m:422:SER:CB	1:p:447:MET:HE1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:160:GLU:O	1:I:169:ILE:CD1	2.40	0.70
1:F:556:THR:HG21	1:K:556:THR:HG22	1.72	0.70
1:H:160:GLU:O	1:K:169:ILE:CD1	2.40	0.70
1:J:447:MET:HE1	1:7:422:SER:CB	2.21	0.70
1:M:160:GLU:O	1:r:169:ILE:CD1	2.40	0.70
1:N:169:ILE:CD1	1:S:160:GLU:O	2.40	0.70
1:S:169:ILE:CD1	1:h:160:GLU:O	2.40	0.70
1:d:253:PHE:HE1	1:r:548:THR:HG22	1.52	0.70
1:i:169:ILE:CD1	1:r:160:GLU:O	2.40	0.70
1:i:447:MET:HE1	1:n:422:SER:CB	2.21	0.70
1:k:160:GLU:O	1:u:169:ILE:CD1	2.40	0.70
1:x:169:ILE:CD1	1:6:160:GLU:O	2.40	0.70
1:3:486:ARG:HH21	1:7:483:HIS:CB	2.04	0.70
1:4:169:ILE:CD1	1:5:160:GLU:O	2.40	0.70
1:B:160:GLU:O	1:P:169:ILE:CD1	2.39	0.70
1:B:169:ILE:CD1	1:Z:160:GLU:O	2.40	0.70
1:C:169:ILE:CD1	1:7:160:GLU:O	2.40	0.70
1:J:169:ILE:CD1	1:o:160:GLU:O	2.40	0.70
1:N:447:MET:HE1	1:d:422:SER:CB	2.21	0.70
1:O:160:GLU:O	1:R:169:ILE:CD1	2.40	0.70
1:Q:169:ILE:CD1	1:W:160:GLU:O	2.40	0.70
1:X:160:GLU:O	1:2:169:ILE:CD1	2.40	0.70
1:Y:160:GLU:O	1:g:169:ILE:CD1	2.40	0.70
1:b:556:THR:HG21	1:x:556:THR:HG22	1.72	0.70
1:i:98:LYS:HD2	1:i:232:SER:HB2	1.70	0.70
1:l:160:GLU:O	1:q:169:ILE:CD1	2.40	0.70
1:p:160:GLU:O	1:v:169:ILE:CD1	2.40	0.70
1:1:169:ILE:CD1	1:8:160:GLU:O	2.40	0.70
1:A:169:ILE:CD1	1:V:160:GLU:O	2.40	0.70
1:B:422:SER:CB	1:F:447:MET:HE1	2.21	0.70
1:D:169:ILE:CD1	1:s:160:GLU:O	2.40	0.70
1:E:169:ILE:CD1	1:d:160:GLU:O	2.40	0.70
1:G:160:GLU:O	1:U:169:ILE:CD1	2.40	0.70
1:I:486:ARG:HH21	1:K:483:HIS:CB	2.04	0.70
1:L:486:ARG:HH21	1:c:483:HIS:CB	2.04	0.70
1:N:98:LYS:HD2	1:N:232:SER:HB2	1.70	0.70
1:S:548:THR:HG22	1:n:253:PHE:HE1	1.52	0.70
1:Y:483:HIS:CB	1:a:486:ARG:HH21	2.04	0.70
1:Z:169:ILE:CD1	1:f:160:GLU:O	2.40	0.70
1:b:160:GLU:O	1:8:169:ILE:CD1	2.40	0.70
1:h:169:ILE:CD1	1:v:160:GLU:O	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:556:THR:HG21	1:v:556:THR:HG22	1.72	0.70
1:n:160:GLU:O	1:w:169:ILE:CD1	2.40	0.70
1:q:422:SER:CB	1:v:447:MET:HE1	2.21	0.70
1:A:483:HIS:CB	1:R:486:ARG:HH21	2.04	0.70
1:F:160:GLU:O	1:X:169:ILE:CD1	2.40	0.70
1:G:556:THR:HG21	1:2:556:THR:HG22	1.72	0.70
1:Q:486:ARG:HH21	1:T:483:HIS:CB	2.04	0.70
1:Q:556:THR:HG22	1:f:556:THR:HG21	1.72	0.70
1:U:160:GLU:O	1:k:169:ILE:CD1	2.40	0.70
1:U:447:MET:HE1	1:W:422:SER:CB	2.21	0.70
1:j:169:ILE:CD1	1:1:160:GLU:O	2.40	0.70
1:s:169:ILE:CD1	1:t:160:GLU:O	2.40	0.70
1:s:447:MET:HE1	1:6:422:SER:CB	2.21	0.70
1:u:486:ARG:HH21	1:4:483:HIS:CB	2.04	0.70
1:y:447:MET:HE1	1:1:422:SER:CB	2.21	0.70
1:A:447:MET:HE1	1:R:422:SER:CB	2.21	0.70
1:C:486:ARG:HH21	1:I:483:HIS:CB	2.04	0.70
1:H:169:ILE:CD1	1:R:160:GLU:O	2.40	0.70
1:H:556:THR:HG21	1:P:556:THR:HG22	1.72	0.70
1:Y:556:THR:HG21	1:7:556:THR:HG22	1.72	0.70
1:a:556:THR:HG22	1:g:556:THR:HG21	1.72	0.70
1:e:483:HIS:CB	1:z:486:ARG:HH21	2.04	0.70
1:j:556:THR:HG22	1:5:556:THR:HG21	1.72	0.70
1:m:483:HIS:CB	1:x:486:ARG:HH21	2.04	0.70
1:o:169:ILE:CD1	1:y:160:GLU:O	2.40	0.70
1:C:556:THR:HG21	1:3:556:THR:HG22	1.72	0.70
1:D:483:HIS:CB	1:c:486:ARG:HH21	2.04	0.70
1:E:486:ARG:HH21	1:M:483:HIS:CB	2.04	0.70
1:G:169:ILE:CD1	1:a:160:GLU:O	2.40	0.70
1:J:556:THR:HG22	1:t:556:THR:HG21	1.72	0.70
1:Q:160:GLU:O	1:n:169:ILE:CD1	2.40	0.70
1:T:160:GLU:O	1:f:169:ILE:CD1	2.40	0.70
1:b:169:ILE:CD1	1:m:160:GLU:O	2.40	0.70
1:d:169:ILE:CD1	1:x:160:GLU:O	2.40	0.70
1:g:483:HIS:CB	1:4:486:ARG:HH21	2.04	0.70
1:g:486:ARG:HH21	1:u:483:HIS:CB	2.04	0.70
1:o:556:THR:HG22	1:1:556:THR:HG21	1.72	0.70
1:q:160:GLU:O	1:5:169:ILE:CD1	2.40	0.70
1:t:169:ILE:CD1	1:3:160:GLU:O	2.40	0.70
1:A:556:THR:HG22	1:T:556:THR:HG21	1.73	0.70
1:C:483:HIS:CB	1:K:486:ARG:HH21	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:422:SER:CB	1:L:447:MET:HE1	2.21	0.70
1:I:548:THR:HG22	1:K:253:PHE:HE1	1.52	0.70
1:Y:556:THR:HG22	1:7:556:THR:HG21	1.72	0.70
1:e:486:ARG:HH21	1:k:483:HIS:CB	2.04	0.70
1:o:556:THR:HG21	1:1:556:THR:HG22	1.72	0.70
1:B:556:THR:HG21	1:X:556:THR:HG22	1.72	0.70
1:B:556:THR:HG22	1:X:556:THR:HG21	1.72	0.70
1:F:486:ARG:HH21	1:H:483:HIS:CB	2.04	0.70
1:S:556:THR:HG21	1:w:556:THR:HG22	1.72	0.70
1:V:169:ILE:CD1	1:i:160:GLU:O	2.40	0.70
1:d:556:THR:HG22	1:p:556:THR:HG21	1.72	0.70
1:h:483:HIS:CB	1:w:486:ARG:HH21	2.04	0.70
1:k:422:SER:CB	1:z:447:MET:HE1	2.21	0.70
1:A:556:THR:HG21	1:T:556:THR:HG22	1.72	0.69
1:E:160:GLU:O	1:L:169:ILE:CD1	2.40	0.69
1:E:556:THR:HG22	1:r:556:THR:HG21	1.72	0.69
1:K:160:GLU:O	1:c:169:ILE:CD1	2.40	0.69
1:L:556:THR:HG22	1:O:556:THR:HG21	1.72	0.69
1:N:160:GLU:O	1:p:169:ILE:CD1	2.40	0.69
1:N:556:THR:HG22	1:i:556:THR:HG21	1.72	0.69
1:S:483:HIS:CB	1:i:486:ARG:HH21	2.04	0.69
1:e:169:ILE:CD1	1:4:160:GLU:O	2.40	0.69
1:m:556:THR:HG22	1:v:556:THR:HG21	1.72	0.69
1:o:253:PHE:HE1	1:t:548:THR:HG22	1.52	0.69
1:u:548:THR:HG22	1:4:253:PHE:HE1	1.52	0.69
1:w:160:GLU:O	1:z:169:ILE:CD1	2.40	0.69
1:y:486:ARG:HH21	1:5:483:HIS:CB	2.04	0.69
1:2:160:GLU:O	1:7:169:ILE:CD1	2.40	0.69
1:D:486:ARG:HH21	1:L:483:HIS:CB	2.04	0.69
1:G:462:PHE:C	1:X:483:HIS:CE1	2.70	0.69
1:J:160:GLU:O	1:Y:169:ILE:CD1	2.40	0.69
1:N:486:ARG:HH21	1:r:483:HIS:CB	2.04	0.69
1:N:556:THR:HG21	1:i:556:THR:HG22	1.72	0.69
1:O:169:ILE:CD1	1:c:160:GLU:O	2.40	0.69
1:S:447:MET:HE1	1:i:422:SER:CB	2.21	0.69
1:S:486:ARG:HH21	1:n:483:HIS:CB	2.04	0.69
1:W:483:HIS:CE1	1:f:462:PHE:C	2.70	0.69
1:b:462:PHE:C	1:6:483:HIS:CE1	2.70	0.69
1:h:556:THR:HG22	1:q:556:THR:HG21	1.72	0.69
1:i:483:HIS:CE1	1:n:462:PHE:C	2.70	0.69
1:k:486:ARG:HH21	1:z:483:HIS:CB	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:483:HIS:CE1	1:t:462:PHE:C	2.70	0.69
1:1:483:HIS:CE1	1:5:462:PHE:C	2.70	0.69
1:B:483:HIS:CE1	1:H:462:PHE:C	2.70	0.69
1:C:160:GLU:O	1:F:169:ILE:CD1	2.40	0.69
1:D:556:THR:HG21	1:6:556:THR:HG22	1.72	0.69
1:M:462:PHE:C	1:O:483:HIS:CE1	2.70	0.69
1:M:556:THR:HG22	1:R:556:THR:HG21	1.72	0.69
1:N:422:SER:CB	1:r:447:MET:HE1	2.21	0.69
1:N:483:HIS:CE1	1:d:462:PHE:C	2.70	0.69
1:V:556:THR:HG21	1:n:556:THR:HG22	1.72	0.69
1:W:556:THR:HG22	1:k:556:THR:HG21	1.72	0.69
1:e:160:GLU:O	1:l:169:ILE:CD1	2.40	0.69
1:g:160:GLU:O	1:y:169:ILE:CD1	2.40	0.69
1:h:462:PHE:C	1:l:483:HIS:CE1	2.70	0.69
1:C:556:THR:HG22	1:3:556:THR:HG21	1.72	0.69
1:D:447:MET:HE1	1:c:422:SER:CB	2.21	0.69
1:G:548:THR:HG22	1:X:253:PHE:HE1	1.52	0.69
1:L:160:GLU:O	1:6:169:ILE:CD1	2.40	0.69
1:P:160:GLU:O	1:T:169:ILE:CD1	2.40	0.69
1:T:462:PHE:C	1:V:483:HIS:CE1	2.71	0.69
1:l:556:THR:HG21	1:z:556:THR:HG22	1.72	0.69
1:m:462:PHE:C	1:p:483:HIS:CE1	2.71	0.69
1:o:486:ARG:HH21	1:8:483:HIS:CB	2.04	0.69
1:B:447:MET:HE1	1:H:422:SER:CB	2.21	0.69
1:F:462:PHE:C	1:H:483:HIS:CE1	2.70	0.69
1:U:422:SER:CB	1:f:447:MET:HE1	2.21	0.69
1:U:486:ARG:HH21	1:f:483:HIS:CB	2.04	0.69
1:U:556:THR:HG22	1:Z:556:THR:HG21	1.72	0.69
1:W:447:MET:HE1	1:f:422:SER:CB	2.21	0.69
1:d:483:HIS:CB	1:r:486:ARG:HH21	2.04	0.69
1:j:160:GLU:O	1:m:169:ILE:CD1	2.40	0.69
1:x:40:GLY:O	1:6:265:ARG:HB2	1.93	0.69
1:y:462:PHE:C	1:5:483:HIS:CE1	2.70	0.69
1:A:462:PHE:C	1:P:483:HIS:CE1	2.70	0.69
1:A:483:HIS:CE1	1:R:462:PHE:C	2.70	0.69
1:E:483:HIS:CE1	1:O:462:PHE:C	2.70	0.69
1:I:160:GLU:O	1:3:169:ILE:CD1	2.40	0.69
1:J:462:PHE:C	1:3:483:HIS:CE1	2.70	0.69
1:M:486:ARG:HH21	1:O:483:HIS:CB	2.04	0.69
1:N:40:GLY:O	1:S:265:ARG:HB2	1.93	0.69
1:Q:40:GLY:O	1:W:265:ARG:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:169:ILE:CD1	1:z:160:GLU:O	2.40	0.69
1:X:486:ARG:HH21	1:Z:483:HIS:CB	2.04	0.69
1:a:483:HIS:CE1	1:2:462:PHE:C	2.70	0.69
1:a:556:THR:HG21	1:g:556:THR:HG22	1.72	0.69
1:b:447:MET:HE1	1:s:422:SER:CB	2.21	0.69
1:d:447:MET:HE1	1:r:422:SER:CB	2.21	0.69
1:e:422:SER:CB	1:k:447:MET:HE1	2.21	0.69
1:h:447:MET:HE1	1:w:422:SER:CB	2.21	0.69
1:k:462:PHE:C	1:z:483:HIS:CE1	2.70	0.69
1:l:462:PHE:C	1:w:483:HIS:CE1	2.70	0.69
1:p:265:ARG:HB2	1:v:40:GLY:O	1.93	0.69
1:E:422:SER:CB	1:M:447:MET:HE1	2.21	0.69
1:H:40:GLY:O	1:R:265:ARG:HB2	1.93	0.69
1:a:169:ILE:CD1	1:u:160:GLU:O	2.40	0.69
1:b:422:SER:CB	1:6:447:MET:HE1	2.21	0.69
1:b:483:HIS:CB	1:s:486:ARG:HH21	2.04	0.69
1:i:40:GLY:O	1:r:265:ARG:HB2	1.93	0.69
1:n:265:ARG:HB2	1:w:40:GLY:O	1.93	0.69
1:q:265:ARG:HB2	1:5:40:GLY:O	1.93	0.69
1:s:556:THR:HG22	1:8:556:THR:HG21	1.72	0.69
1:1:447:MET:HE1	1:5:422:SER:CB	2.21	0.69
1:A:40:GLY:O	1:V:265:ARG:HB2	1.93	0.69
1:A:265:ARG:HB2	1:M:40:GLY:O	1.93	0.69
1:B:265:ARG:HB2	1:P:40:GLY:O	1.93	0.69
1:D:40:GLY:O	1:s:265:ARG:HB2	1.93	0.69
1:D:462:PHE:C	1:L:483:HIS:CE1	2.70	0.69
1:E:40:GLY:O	1:d:265:ARG:HB2	1.93	0.69
1:H:265:ARG:HB2	1:K:40:GLY:O	1.93	0.69
1:O:40:GLY:O	1:c:265:ARG:HB2	1.93	0.69
1:S:422:SER:CB	1:n:447:MET:HE1	2.21	0.69
1:T:265:ARG:HB2	1:f:40:GLY:O	1.93	0.69
1:U:462:PHE:C	1:f:483:HIS:CE1	2.70	0.69
1:W:483:HIS:CB	1:f:486:ARG:HH21	2.04	0.69
1:b:40:GLY:O	1:m:265:ARG:HB2	1.93	0.69
1:b:486:ARG:HH21	1:6:483:HIS:CB	2.04	0.69
1:e:447:MET:HE1	1:z:422:SER:CB	2.21	0.69
1:h:40:GLY:O	1:v:265:ARG:HB2	1.93	0.69
1:h:486:ARG:HH21	1:l:483:HIS:CB	2.04	0.69
1:4:40:GLY:O	1:5:265:ARG:HB2	1.93	0.69
1:E:462:PHE:C	1:M:483:HIS:CE1	2.70	0.69
1:I:265:ARG:HB2	1:3:40:GLY:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:556:THR:HG21	1:c:556:THR:HG22	1.72	0.69
1:L:422:SER:CB	1:c:447:MET:HE1	2.21	0.69
1:T:548:THR:HG22	1:V:253:PHE:HE1	1.52	0.69
1:U:265:ARG:HB2	1:k:40:GLY:O	1.93	0.69
1:V:40:GLY:O	1:i:265:ARG:HB2	1.93	0.69
1:b:483:HIS:CE1	1:s:462:PHE:C	2.70	0.69
1:e:265:ARG:HB2	1:l:40:GLY:O	1.93	0.69
1:e:462:PHE:C	1:k:483:HIS:CE1	2.70	0.69
1:g:422:SER:CB	1:u:447:MET:HE1	2.21	0.69
1:h:483:HIS:CE1	1:w:462:PHE:C	2.70	0.69
1:j:40:GLY:O	1:1:265:ARG:HB2	1.93	0.69
1:j:483:HIS:CE1	1:v:462:PHE:C	2.70	0.69
1:m:548:THR:HG22	1:p:253:PHE:HE1	1.52	0.69
1:q:462:PHE:C	1:v:483:HIS:CE1	2.70	0.69
1:w:265:ARG:HB2	1:z:40:GLY:O	1.93	0.69
1:3:462:PHE:C	1:7:483:HIS:CE1	2.70	0.69
1:C:422:SER:CB	1:I:447:MET:HE1	2.21	0.69
1:D:483:HIS:CE1	1:c:462:PHE:C	2.70	0.69
1:I:462:PHE:C	1:K:483:HIS:CE1	2.71	0.69
1:J:483:HIS:CE1	1:7:462:PHE:C	2.70	0.69
1:L:556:THR:HG21	1:O:556:THR:HG22	1.72	0.69
1:M:422:SER:CB	1:O:447:MET:HE1	2.21	0.69
1:N:265:ARG:HB2	1:p:40:GLY:O	1.93	0.69
1:O:265:ARG:HB2	1:R:40:GLY:O	1.93	0.69
1:Q:422:SER:CB	1:T:447:MET:HE1	2.21	0.69
1:S:483:HIS:CE1	1:i:462:PHE:C	2.70	0.69
1:Y:483:HIS:CE1	1:a:462:PHE:C	2.70	0.69
1:j:486:ARG:HH21	1:q:483:HIS:CB	2.04	0.69
1:B:483:HIS:CB	1:H:486:ARG:HH21	2.04	0.68
1:E:265:ARG:HB2	1:L:40:GLY:O	1.93	0.68
1:G:483:HIS:CE1	1:Z:462:PHE:C	2.70	0.68
1:P:486:ARG:HH21	1:R:483:HIS:CB	2.04	0.68
1:Y:462:PHE:C	1:2:483:HIS:CE1	2.70	0.68
1:a:40:GLY:O	1:u:265:ARG:HB2	1.93	0.68
1:d:483:HIS:CE1	1:r:462:PHE:C	2.70	0.68
1:e:556:THR:HG22	1:u:556:THR:HG21	1.72	0.68
1:l:265:ARG:HB2	1:q:40:GLY:O	1.93	0.68
1:s:253:PHE:HE1	1:6:548:THR:HG22	1.52	0.68
1:F:265:ARG:HB2	1:X:40:GLY:O	1.93	0.68
1:F:422:SER:CB	1:H:447:MET:HE1	2.21	0.68
1:N:462:PHE:C	1:r:483:HIS:CE1	2.70	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:462:PHE:C	1:T:483:HIS:CE1	2.71	0.68
1:S:462:PHE:C	1:n:483:HIS:CE1	2.70	0.68
1:g:265:ARG:HB2	1:y:40:GLY:O	1.93	0.68
1:h:422:SER:CB	1:l:447:MET:HE1	2.21	0.68
1:m:447:MET:HE1	1:x:422:SER:CB	2.21	0.68
1:m:483:HIS:CE1	1:x:462:PHE:C	2.71	0.68
1:u:462:PHE:C	1:4:483:HIS:CE1	2.71	0.68
1:A:422:SER:CB	1:P:447:MET:HE1	2.21	0.68
1:B:462:PHE:C	1:F:483:HIS:CE1	2.70	0.68
1:b:265:ARG:HB2	1:8:40:GLY:O	1.93	0.68
1:j:422:SER:CB	1:q:447:MET:HE1	2.21	0.68
1:l:556:THR:HG22	1:z:556:THR:HG21	1.72	0.68
1:y:422:SER:CB	1:5:447:MET:HE1	2.21	0.68
1:1:483:HIS:CB	1:5:486:ARG:HH21	2.04	0.68
1:B:263:LEU:CD1	1:P:152:ASN:ND2	2.57	0.68
1:C:40:GLY:O	1:7:265:ARG:HB2	1.93	0.68
1:C:265:ARG:HB2	1:F:40:GLY:O	1.93	0.68
1:D:263:LEU:CD1	1:I:152:ASN:ND2	2.57	0.68
1:J:40:GLY:O	1:o:265:ARG:HB2	1.93	0.68
1:L:263:LEU:CD1	1:6:152:ASN:ND2	2.57	0.68
1:L:462:PHE:C	1:c:483:HIS:CE1	2.70	0.68
1:M:265:ARG:HB2	1:r:40:GLY:O	1.93	0.68
1:P:422:SER:CB	1:R:447:MET:HE1	2.21	0.68
1:W:152:ASN:ND2	1:z:263:LEU:CD1	2.57	0.68
1:X:265:ARG:HB2	1:2:40:GLY:O	1.93	0.68
1:Y:265:ARG:HB2	1:g:40:GLY:O	1.93	0.68
1:Z:40:GLY:O	1:f:265:ARG:HB2	1.93	0.68
1:g:483:HIS:CE1	1:4:462:PHE:C	2.71	0.68
1:j:152:ASN:ND2	1:1:263:LEU:CD1	2.57	0.68
1:j:447:MET:HE1	1:v:422:SER:CB	2.21	0.68
1:k:263:LEU:CD1	1:u:152:ASN:ND2	2.57	0.68
1:o:40:GLY:O	1:y:265:ARG:HB2	1.93	0.68
1:t:483:HIS:CE1	1:8:462:PHE:C	2.70	0.68
1:C:483:HIS:CE1	1:K:462:PHE:C	2.71	0.68
1:N:152:ASN:ND2	1:S:263:LEU:CD1	2.57	0.68
1:Q:263:LEU:CD1	1:n:152:ASN:ND2	2.57	0.68
1:Q:265:ARG:HB2	1:n:40:GLY:O	1.93	0.68
1:Q:447:MET:HE1	1:V:422:SER:CB	2.21	0.68
1:Q:483:HIS:CE1	1:V:462:PHE:C	2.71	0.68
1:e:483:HIS:CE1	1:z:462:PHE:C	2.70	0.68
1:g:462:PHE:C	1:u:483:HIS:CE1	2.71	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:152:ASN:ND2	1:r:263:LEU:CD1	2.57	0.68
1:j:462:PHE:C	1:q:483:HIS:CE1	2.70	0.68
1:p:422:SER:CB	1:x:447:MET:HE1	2.21	0.68
1:p:462:PHE:C	1:x:483:HIS:CE1	2.71	0.68
1:y:483:HIS:CE1	1:1:462:PHE:C	2.70	0.68
1:B:40:GLY:O	1:Z:265:ARG:HB2	1.93	0.68
1:C:462:PHE:C	1:I:483:HIS:CE1	2.71	0.68
1:H:263:LEU:CD1	1:K:152:ASN:ND2	2.57	0.68
1:J:263:LEU:CD1	1:Y:152:ASN:ND2	2.57	0.68
1:K:247:ALA:HB1	1:c:557:THR:HG23	1.76	0.68
1:N:557:THR:HG23	1:S:247:ALA:HB1	1.76	0.68
1:P:462:PHE:C	1:R:483:HIS:CE1	2.70	0.68
1:S:40:GLY:O	1:h:265:ARG:HB2	1.93	0.68
1:U:253:PHE:HE1	1:W:548:THR:HG22	1.52	0.68
1:d:40:GLY:O	1:x:265:ARG:HB2	1.93	0.68
1:d:152:ASN:ND2	1:x:263:LEU:CD1	2.57	0.68
1:e:557:THR:HG23	1:4:247:ALA:HB1	1.76	0.68
1:i:557:THR:HG23	1:r:247:ALA:HB1	1.76	0.68
1:l:486:ARG:HH21	1:w:483:HIS:CB	2.04	0.68
1:2:263:LEU:CD1	1:7:152:ASN:ND2	2.57	0.68
1:4:152:ASN:ND2	1:5:263:LEU:CD1	2.57	0.68
1:B:152:ASN:ND2	1:Z:263:LEU:CD1	2.57	0.68
1:C:263:LEU:CD1	1:F:152:ASN:ND2	2.57	0.68
1:D:548:THR:HG22	1:L:253:PHE:HE1	1.52	0.68
1:J:265:ARG:HB2	1:Y:40:GLY:O	1.93	0.68
1:L:265:ARG:HB2	1:6:40:GLY:O	1.93	0.68
1:O:247:ALA:HB1	1:R:557:THR:HG23	1.76	0.68
1:a:447:MET:HE1	1:2:422:SER:CB	2.21	0.68
1:l:247:ALA:HB1	1:q:557:THR:HG23	1.76	0.68
1:t:40:GLY:O	1:3:265:ARG:HB2	1.93	0.68
1:1:152:ASN:ND2	1:8:263:LEU:CD1	2.57	0.68
1:A:253:PHE:HE1	1:R:548:THR:HG22	1.52	0.68
1:G:263:LEU:CD1	1:U:152:ASN:ND2	2.57	0.68
1:N:247:ALA:HB1	1:p:557:THR:HG23	1.76	0.68
1:P:247:ALA:HB1	1:T:557:THR:HG23	1.76	0.68
1:P:265:ARG:HB2	1:T:40:GLY:O	1.93	0.68
1:U:483:HIS:CE1	1:W:462:PHE:C	2.70	0.68
1:V:557:THR:HG23	1:i:247:ALA:HB1	1.76	0.68
1:W:40:GLY:O	1:z:265:ARG:HB2	1.93	0.68
1:X:548:THR:HG22	1:Z:253:PHE:HE1	1.52	0.68
1:g:263:LEU:CD1	1:y:152:ASN:ND2	2.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:548:THR:HG22	1:z:253:PHE:HE1	1.52	0.68
1:p:263:LEU:CD1	1:v:152:ASN:ND2	2.57	0.68
1:s:152:ASN:ND2	1:t:263:LEU:CD1	2.57	0.68
1:1:40:GLY:O	1:8:265:ARG:HB2	1.93	0.68
1:A:486:ARG:HH21	1:P:483:HIS:CB	2.04	0.68
1:C:247:ALA:HB1	1:F:557:THR:HG23	1.76	0.68
1:D:557:THR:HG23	1:s:247:ALA:HB1	1.76	0.68
1:G:40:GLY:O	1:a:265:ARG:HB2	1.93	0.68
1:U:247:ALA:HB1	1:k:557:THR:HG23	1.76	0.68
1:X:263:LEU:CD1	1:2:152:ASN:ND2	2.57	0.68
1:b:247:ALA:HB1	1:8:557:THR:HG23	1.76	0.68
1:b:557:THR:HG23	1:m:247:ALA:HB1	1.76	0.68
1:e:152:ASN:ND2	1:4:263:LEU:CD1	2.57	0.68
1:g:247:ALA:HB1	1:y:557:THR:HG23	1.76	0.68
1:j:247:ALA:HB1	1:m:557:THR:HG23	1.76	0.68
1:j:265:ARG:HB2	1:m:40:GLY:O	1.93	0.68
1:k:265:ARG:HB2	1:u:40:GLY:O	1.93	0.68
1:q:548:THR:HG22	1:v:253:PHE:HE1	1.52	0.68
1:2:265:ARG:HB2	1:7:40:GLY:O	1.93	0.68
1:3:422:SER:CB	1:7:447:MET:HE1	2.21	0.68
1:E:548:THR:HG22	1:M:253:PHE:HE1	1.52	0.68
1:J:152:ASN:ND2	1:o:263:LEU:CD1	2.57	0.68
1:J:422:SER:CB	1:3:447:MET:HE1	2.21	0.68
1:K:263:LEU:CD1	1:c:152:ASN:ND2	2.57	0.68
1:M:247:ALA:HB1	1:r:557:THR:HG23	1.76	0.68
1:S:557:THR:HG23	1:h:247:ALA:HB1	1.76	0.68
1:T:247:ALA:HB1	1:f:557:THR:HG23	1.76	0.68
1:X:462:PHE:C	1:Z:483:HIS:CE1	2.70	0.68
1:Z:557:THR:HG23	1:f:247:ALA:HB1	1.76	0.68
1:s:483:HIS:CE1	1:6:462:PHE:C	2.70	0.68
1:C:557:THR:HG23	1:7:247:ALA:HB1	1.76	0.67
1:D:265:ARG:HB2	1:I:40:GLY:O	1.93	0.67
1:I:247:ALA:HB1	1:3:557:THR:HG23	1.76	0.67
1:X:247:ALA:HB1	1:2:557:THR:HG23	1.76	0.67
1:j:483:HIS:CB	1:v:486:ARG:HH21	2.04	0.67
1:o:462:PHE:C	1:8:483:HIS:CE1	2.70	0.67
1:H:557:THR:HG23	1:R:247:ALA:HB1	1.76	0.67
1:J:557:THR:HG23	1:o:247:ALA:HB1	1.76	0.67
1:O:263:LEU:CD1	1:R:152:ASN:ND2	2.57	0.67
1:T:263:LEU:CD1	1:f:152:ASN:ND2	2.57	0.67
1:Y:247:ALA:HB1	1:g:557:THR:HG23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:447:MET:HE1	1:a:422:SER:CB	2.21	0.67
1:h:253:PHE:HE1	1:w:548:THR:HG22	1.52	0.67
1:l:422:SER:CB	1:w:447:MET:HE1	2.21	0.67
1:s:40:GLY:O	1:t:265:ARG:HB2	1.93	0.67
1:A:152:ASN:ND2	1:V:263:LEU:CD1	2.57	0.67
1:E:447:MET:HE1	1:O:422:SER:CB	2.21	0.67
1:F:247:ALA:HB1	1:X:557:THR:HG23	1.76	0.67
1:G:486:ARG:HH21	1:X:483:HIS:CB	2.04	0.67
1:J:548:THR:HG22	1:3:253:PHE:HE1	1.52	0.67
1:a:152:ASN:ND2	1:u:263:LEU:CD1	2.57	0.67
1:a:557:THR:HG23	1:u:247:ALA:HB1	1.76	0.67
1:e:40:GLY:O	1:4:265:ARG:HB2	1.93	0.67
1:e:247:ALA:HB1	1:l:557:THR:HG23	1.76	0.67
1:l:263:LEU:CD1	1:q:152:ASN:ND2	2.57	0.67
1:o:557:THR:HG23	1:y:247:ALA:HB1	1.76	0.67
1:q:247:ALA:HB1	1:5:557:THR:HG23	1.76	0.67
1:B:247:ALA:HB1	1:P:557:THR:HG23	1.76	0.67
1:D:152:ASN:ND2	1:s:263:LEU:CD1	2.57	0.67
1:E:152:ASN:ND2	1:d:263:LEU:CD1	2.57	0.67
1:G:265:ARG:HB2	1:U:40:GLY:O	1.93	0.67
1:I:263:LEU:CD1	1:3:152:ASN:ND2	2.57	0.67
1:K:265:ARG:HB2	1:c:40:GLY:O	1.93	0.67
1:Q:483:HIS:CB	1:V:486:ARG:HH21	2.04	0.67
1:U:263:LEU:CD1	1:k:152:ASN:ND2	2.57	0.67
1:b:152:ASN:ND2	1:m:263:LEU:CD1	2.57	0.67
1:t:447:MET:HE1	1:8:422:SER:CB	2.21	0.67
1:x:152:ASN:ND2	1:6:263:LEU:CD1	2.57	0.67
1:A:263:LEU:CD1	1:M:152:ASN:ND2	2.57	0.67
1:O:557:THR:HG23	1:c:247:ALA:HB1	1.76	0.67
1:Q:152:ASN:ND2	1:W:263:LEU:CD1	2.57	0.67
1:a:253:PHE:HE1	1:2:548:THR:HG22	1.52	0.67
1:n:263:LEU:CD1	1:w:152:ASN:ND2	2.57	0.67
1:p:486:ARG:HH21	1:x:483:HIS:CB	2.04	0.67
1:t:557:THR:HG23	1:3:247:ALA:HB1	1.76	0.67
1:G:447:MET:HE1	1:Z:422:SER:CB	2.21	0.67
1:G:557:THR:HG23	1:a:247:ALA:HB1	1.76	0.67
1:T:486:ARG:HH21	1:V:483:HIS:CB	2.04	0.67
1:j:557:THR:HG23	1:1:247:ALA:HB1	1.76	0.67
1:m:486:ARG:HH21	1:p:483:HIS:CB	2.04	0.67
1:o:483:HIS:CB	1:t:486:ARG:HH21	2.04	0.67
1:O:152:ASN:ND2	1:c:263:LEU:CD1	2.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:152:ASN:ND2	1:v:263:LEU:CD1	2.57	0.67
1:q:263:LEU:CD1	1:5:152:ASN:ND2	2.57	0.67
1:e:263:LEU:CD1	1:l:152:ASN:ND2	2.57	0.67
1:B:557:THR:HG23	1:Z:247:ALA:HB1	1.76	0.67
1:D:459:LEU:HD11	1:L:489:VAL:CG2	2.25	0.67
1:H:152:ASN:ND2	1:R:263:LEU:CD1	2.57	0.67
1:H:247:ALA:HB1	1:K:557:THR:HG23	1.76	0.67
1:I:422:SER:CB	1:K:447:MET:HE1	2.21	0.67
1:Q:459:LEU:HD11	1:T:489:VAL:CG2	2.25	0.67
1:k:459:LEU:HD11	1:z:489:VAL:CG2	2.25	0.67
1:1:557:THR:HG23	1:8:247:ALA:HB1	1.76	0.67
1:4:557:THR:HG23	1:5:247:ALA:HB1	1.76	0.67
1:P:459:LEU:HD11	1:R:489:VAL:CG2	2.25	0.67
1:Q:247:ALA:HB1	1:n:557:THR:HG23	1.76	0.67
1:V:152:ASN:ND2	1:i:263:LEU:CD1	2.57	0.67
1:d:557:THR:HG23	1:x:247:ALA:HB1	1.76	0.67
1:j:459:LEU:HD11	1:q:489:VAL:CG2	2.25	0.67
1:m:489:VAL:CG2	1:x:459:LEU:HD11	2.25	0.67
1:B:486:ARG:HH21	1:F:483:HIS:CB	2.04	0.66
1:F:459:LEU:HD11	1:H:489:VAL:CG2	2.25	0.66
1:G:152:ASN:ND2	1:a:263:LEU:CD1	2.57	0.66
1:N:263:LEU:CD1	1:p:152:ASN:ND2	2.57	0.66
1:U:459:LEU:HD11	1:f:489:VAL:CG2	2.25	0.66
1:y:459:LEU:HD11	1:5:489:VAL:CG2	2.25	0.66
1:E:557:THR:HG23	1:d:247:ALA:HB1	1.76	0.66
1:Z:152:ASN:ND2	1:f:263:LEU:CD1	2.57	0.66
1:b:489:VAL:CG2	1:s:459:LEU:HD11	2.25	0.66
1:n:247:ALA:HB1	1:w:557:THR:HG23	1.76	0.66
1:t:152:ASN:ND2	1:3:263:LEU:CD1	2.57	0.66
1:u:422:SER:CB	1:4:447:MET:HE1	2.21	0.66
1:y:483:HIS:CB	1:1:486:ARG:HH21	2.04	0.66
1:C:459:LEU:HD11	1:I:489:VAL:CG2	2.25	0.66
1:G:247:ALA:HB1	1:U:557:THR:HG23	1.76	0.66
1:N:489:VAL:CG2	1:d:459:LEU:HD11	2.25	0.66
1:h:489:VAL:CG2	1:w:459:LEU:HD11	2.26	0.66
1:i:489:VAL:CG2	1:n:459:LEU:HD11	2.25	0.66
1:A:247:ALA:HB1	1:M:557:THR:HG23	1.76	0.66
1:C:462:PHE:N	1:I:483:HIS:CE1	2.64	0.66
1:E:459:LEU:HD11	1:M:489:VAL:CG2	2.26	0.66
1:J:459:LEU:HD11	1:3:489:VAL:CG2	2.25	0.66
1:L:462:PHE:N	1:c:483:HIS:CE1	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:263:LEU:CD1	1:r:152:ASN:ND2	2.57	0.66
1:P:263:LEU:CD1	1:T:152:ASN:ND2	2.57	0.66
1:X:459:LEU:HD11	1:Z:489:VAL:CG2	2.26	0.66
1:b:263:LEU:CD1	1:8:152:ASN:ND2	2.57	0.66
1:b:459:LEU:HD11	1:6:489:VAL:CG2	2.25	0.66
1:e:459:LEU:HD11	1:k:489:VAL:CG2	2.25	0.66
1:e:483:HIS:CE1	1:z:462:PHE:N	2.64	0.66
1:g:459:LEU:HD11	1:u:489:VAL:CG2	2.25	0.66
1:g:462:PHE:N	1:u:483:HIS:CE1	2.64	0.66
1:D:489:VAL:CG2	1:c:459:LEU:HD11	2.25	0.66
1:G:489:VAL:CG2	1:Z:459:LEU:HD11	2.26	0.66
1:S:152:ASN:ND2	1:h:263:LEU:CD1	2.57	0.66
1:S:489:VAL:CG2	1:i:459:LEU:HD11	2.25	0.66
1:W:489:VAL:CG2	1:f:459:LEU:HD11	2.25	0.66
1:Y:483:HIS:CE1	1:a:462:PHE:N	2.64	0.66
1:a:489:VAL:CG2	1:2:459:LEU:HD11	2.25	0.66
1:j:263:LEU:CD1	1:m:152:ASN:ND2	2.57	0.66
1:o:459:LEU:HD11	1:8:489:VAL:CG2	2.26	0.66
1:p:459:LEU:HD11	1:x:489:VAL:CG2	2.25	0.66
1:s:489:VAL:CG2	1:6:459:LEU:HD11	2.25	0.66
1:s:557:THR:HG23	1:t:247:ALA:HB1	1.76	0.66
1:1:489:VAL:CG2	1:5:459:LEU:HD11	2.25	0.66
1:B:489:VAL:CG2	1:H:459:LEU:HD11	2.25	0.66
1:E:263:LEU:CD1	1:L:152:ASN:ND2	2.57	0.66
1:J:247:ALA:HB1	1:Y:557:THR:HG23	1.76	0.66
1:L:247:ALA:HB1	1:6:557:THR:HG23	1.76	0.66
1:N:459:LEU:HD11	1:r:489:VAL:CG2	2.25	0.66
1:N:483:HIS:CE1	1:d:462:PHE:N	2.64	0.66
1:U:489:VAL:CG2	1:W:459:LEU:HD11	2.25	0.66
1:W:557:THR:HG23	1:z:247:ALA:HB1	1.76	0.66
1:i:483:HIS:CE1	1:n:462:PHE:N	2.64	0.66
1:j:489:VAL:CG2	1:v:459:LEU:HD11	2.25	0.66
1:t:489:VAL:CG2	1:8:459:LEU:HD11	2.26	0.66
1:y:483:HIS:CE1	1:1:462:PHE:N	2.64	0.66
1:2:247:ALA:HB1	1:7:557:THR:HG23	1.76	0.66
1:3:462:PHE:N	1:7:483:HIS:CE1	2.64	0.66
1:B:462:PHE:N	1:F:483:HIS:CE1	2.64	0.66
1:D:247:ALA:HB1	1:I:557:THR:HG23	1.76	0.66
1:E:247:ALA:HB1	1:L:557:THR:HG23	1.76	0.66
1:G:422:SER:CB	1:X:447:MET:HE1	2.21	0.66
1:Q:489:VAL:CG2	1:V:459:LEU:HD11	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:422:SER:CB	1:2:447:MET:HE1	2.21	0.66
1:g:489:VAL:CG2	1:4:459:LEU:HD11	2.25	0.66
1:h:459:LEU:HD11	1:l:489:VAL:CG2	2.26	0.66
1:h:557:THR:HG23	1:v:247:ALA:HB1	1.76	0.66
1:q:459:LEU:HD11	1:v:489:VAL:CG2	2.25	0.66
1:w:263:LEU:CD1	1:z:152:ASN:ND2	2.57	0.66
1:A:459:LEU:HD11	1:P:489:VAL:CG2	2.26	0.66
1:A:462:PHE:N	1:P:483:HIS:CE1	2.63	0.66
1:B:459:LEU:HD11	1:F:489:VAL:CG2	2.25	0.66
1:C:489:VAL:CG2	1:K:459:LEU:HD11	2.25	0.66
1:E:489:VAL:CG2	1:O:459:LEU:HD11	2.26	0.66
1:J:489:VAL:CG2	1:7:459:LEU:HD11	2.25	0.66
1:M:459:LEU:HD11	1:O:489:VAL:CG2	2.26	0.66
1:k:462:PHE:N	1:z:483:HIS:CE1	2.64	0.66
1:o:152:ASN:ND2	1:y:263:LEU:CD1	2.57	0.66
1:o:447:MET:HE1	1:t:422:SER:CB	2.21	0.66
1:p:247:ALA:HB1	1:v:557:THR:HG23	1.76	0.66
1:w:247:ALA:HB1	1:z:557:THR:HG23	1.76	0.66
1:C:152:ASN:ND2	1:7:263:LEU:CD1	2.57	0.66
1:D:462:PHE:N	1:L:483:HIS:CE1	2.64	0.66
1:F:548:THR:HG22	1:H:253:PHE:HE1	1.52	0.66
1:G:462:PHE:N	1:X:483:HIS:CE1	2.64	0.66
1:I:459:LEU:HD11	1:K:489:VAL:CG2	2.25	0.66
1:L:459:LEU:HD11	1:c:489:VAL:CG2	2.25	0.66
1:Y:459:LEU:HD11	1:2:489:VAL:CG2	2.25	0.66
1:l:459:LEU:HD11	1:w:489:VAL:CG2	2.26	0.66
1:o:483:HIS:CE1	1:t:462:PHE:N	2.64	0.66
1:y:489:VAL:CG2	1:1:459:LEU:HD11	2.25	0.66
1:3:459:LEU:HD11	1:7:489:VAL:CG2	2.25	0.66
1:A:483:HIS:CE1	1:R:462:PHE:N	2.64	0.66
1:A:489:VAL:CG2	1:R:459:LEU:HD11	2.26	0.66
1:F:263:LEU:CD1	1:X:152:ASN:ND2	2.57	0.66
1:N:462:PHE:N	1:r:483:HIS:CE1	2.64	0.66
1:S:483:HIS:CE1	1:i:462:PHE:N	2.64	0.66
1:Y:489:VAL:CG2	1:a:459:LEU:HD11	2.25	0.66
1:a:483:HIS:CE1	1:2:462:PHE:N	2.64	0.66
1:e:489:VAL:CG2	1:z:459:LEU:HD11	2.25	0.66
1:k:247:ALA:HB1	1:u:557:THR:HG23	1.76	0.66
1:q:462:PHE:N	1:v:483:HIS:CE1	2.64	0.66
1:u:459:LEU:HD11	1:4:489:VAL:CG2	2.25	0.66
1:A:557:THR:HG23	1:V:247:ALA:HB1	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:483:HIS:CE1	1:O:462:PHE:N	2.64	0.65
1:G:459:LEU:HD11	1:X:489:VAL:CG2	2.26	0.65
1:Y:263:LEU:CD1	1:g:152:ASN:ND2	2.57	0.65
1:J:462:PHE:N	1:3:483:HIS:CE1	2.64	0.65
1:j:483:HIS:CE1	1:v:462:PHE:N	2.64	0.65
1:l:462:PHE:N	1:w:483:HIS:CE1	2.64	0.65
1:o:489:VAL:CG2	1:t:459:LEU:HD11	2.26	0.65
1:y:548:THR:HG22	1:5:253:PHE:HE1	1.52	0.65
1:U:462:PHE:N	1:f:483:HIS:CE1	2.64	0.65
1:e:462:PHE:N	1:k:483:HIS:CE1	2.64	0.65
1:m:459:LEU:HD11	1:p:489:VAL:CG2	2.25	0.65
1:m:462:PHE:N	1:p:483:HIS:CE1	2.64	0.65
1:D:483:HIS:CE1	1:c:462:PHE:N	2.64	0.65
1:Q:557:THR:HG23	1:W:247:ALA:HB1	1.76	0.65
1:T:459:LEU:HD11	1:V:489:VAL:CG2	2.25	0.65
1:T:462:PHE:N	1:V:483:HIS:CE1	2.64	0.65
1:X:462:PHE:N	1:Z:483:HIS:CE1	2.64	0.65
1:b:483:HIS:CE1	1:s:462:PHE:N	2.64	0.65
1:1:253:PHE:HE1	1:5:548:THR:HG22	1.52	0.65
1:S:459:LEU:HD11	1:n:489:VAL:CG2	2.25	0.65
1:o:462:PHE:N	1:8:483:HIS:CE1	2.64	0.65
1:B:483:HIS:CE1	1:H:462:PHE:N	2.64	0.65
1:C:453:PHE:HE2	1:I:350:ASN:HD21	1.45	0.65
1:J:350:ASN:HD21	1:7:453:PHE:HE2	1.45	0.65
1:Q:483:HIS:CE1	1:V:462:PHE:N	2.64	0.65
1:d:489:VAL:CG2	1:r:459:LEU:HD11	2.25	0.65
1:h:462:PHE:N	1:l:483:HIS:CE1	2.64	0.65
1:p:462:PHE:N	1:x:483:HIS:CE1	2.64	0.65
1:s:483:HIS:CE1	1:6:462:PHE:N	2.64	0.65
1:t:483:HIS:CE1	1:8:462:PHE:N	2.64	0.65
1:x:557:THR:HG23	1:6:247:ALA:HB1	1.76	0.65
1:B:253:PHE:HE1	1:H:548:THR:HG22	1.52	0.65
1:F:462:PHE:N	1:H:483:HIS:CE1	2.64	0.65
1:G:483:HIS:CE1	1:Z:462:PHE:N	2.64	0.65
1:P:462:PHE:N	1:R:483:HIS:CE1	2.64	0.65
1:U:483:HIS:CE1	1:W:462:PHE:N	2.64	0.65
1:Y:453:PHE:HE2	1:2:350:ASN:HD21	1.45	0.65
1:g:453:PHE:HE2	1:u:350:ASN:HD21	1.45	0.65
1:j:462:PHE:N	1:q:483:HIS:CE1	2.64	0.65
1:1:350:ASN:HD21	1:5:453:PHE:HE2	1.45	0.65
1:B:350:ASN:HD21	1:H:453:PHE:HE2	1.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:453:PHE:HE2	1:O:350:ASN:HD21	1.45	0.65
1:M:462:PHE:N	1:O:483:HIS:CE1	2.64	0.65
1:W:483:HIS:CE1	1:f:462:PHE:N	2.64	0.65
1:X:453:PHE:HE2	1:Z:350:ASN:HD21	1.45	0.65
1:m:483:HIS:CE1	1:x:462:PHE:N	2.64	0.65
1:y:462:PHE:N	1:5:483:HIS:CE1	2.64	0.65
1:1:483:HIS:CE1	1:5:462:PHE:N	2.64	0.65
1:C:483:HIS:CE1	1:K:462:PHE:N	2.64	0.65
1:b:462:PHE:N	1:6:483:HIS:CE1	2.64	0.65
1:g:350:ASN:HD21	1:4:453:PHE:HE2	1.45	0.65
1:g:483:HIS:CE1	1:4:462:PHE:N	2.64	0.65
1:h:453:PHE:HE2	1:l:350:ASN:HD21	1.45	0.65
1:o:453:PHE:HE2	1:8:350:ASN:HD21	1.45	0.65
1:A:300:ILE:CG2	1:P:109:GLN:HE22	2.02	0.65
1:C:350:ASN:HD21	1:K:453:PHE:HE2	1.45	0.65
1:I:462:PHE:N	1:K:483:HIS:CE1	2.64	0.65
1:Q:462:PHE:N	1:T:483:HIS:CE1	2.64	0.65
1:p:453:PHE:HE2	1:x:350:ASN:HD21	1.45	0.65
1:u:462:PHE:N	1:4:483:HIS:CE1	2.64	0.65
1:A:42:SER:HG	1:V:265:ARG:HG3	1.62	0.64
1:S:462:PHE:N	1:n:483:HIS:CE1	2.64	0.64
1:d:483:HIS:CE1	1:r:462:PHE:N	2.64	0.64
1:Q:350:ASN:HD21	1:V:453:PHE:HE2	1.45	0.64
1:h:483:HIS:CE1	1:w:462:PHE:N	2.64	0.64
1:E:462:PHE:N	1:M:483:HIS:CE1	2.64	0.64
1:S:462:PHE:CA	1:n:483:HIS:CE1	2.81	0.64
1:d:483:HIS:CE1	1:r:462:PHE:CA	2.81	0.64
1:A:483:HIS:CE1	1:R:462:PHE:CA	2.81	0.64
1:E:462:PHE:CA	1:M:483:HIS:CE1	2.81	0.64
1:N:453:PHE:HE2	1:r:350:ASN:HD21	1.45	0.64
1:W:483:HIS:CE1	1:f:462:PHE:CA	2.81	0.64
1:h:350:ASN:HD21	1:w:453:PHE:HE2	1.45	0.64
1:h:483:HIS:CE1	1:w:462:PHE:CA	2.81	0.64
1:A:462:PHE:CA	1:P:483:HIS:CE1	2.80	0.64
1:E:453:PHE:HE2	1:M:350:ASN:HD21	1.45	0.64
1:J:453:PHE:HE2	1:3:350:ASN:HD21	1.45	0.64
1:S:350:ASN:HD21	1:i:453:PHE:HE2	1.45	0.64
1:T:462:PHE:CA	1:V:483:HIS:CE1	2.81	0.64
1:b:462:PHE:CA	1:6:483:HIS:CE1	2.81	0.64
1:h:462:PHE:CA	1:l:483:HIS:CE1	2.81	0.64
1:j:109:GLN:HE22	1:v:300:ILE:CG2	2.03	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:462:PHE:CA	1:p:483:HIS:CE1	2.81	0.64
1:C:483:HIS:CE1	1:K:462:PHE:CA	2.81	0.64
1:M:462:PHE:CA	1:O:483:HIS:CE1	2.81	0.64
1:Q:462:PHE:CA	1:T:483:HIS:CE1	2.81	0.64
1:U:483:HIS:CE1	1:W:462:PHE:CA	2.81	0.64
1:Y:462:PHE:N	1:2:483:HIS:CE1	2.64	0.64
1:a:350:ASN:HD21	1:2:453:PHE:HE2	1.45	0.64
1:g:483:HIS:CE1	1:4:462:PHE:CA	2.81	0.64
1:m:483:HIS:CE1	1:x:462:PHE:CA	2.81	0.64
1:q:462:PHE:CA	1:v:483:HIS:CE1	2.81	0.64
1:s:483:HIS:CE1	1:6:462:PHE:CA	2.81	0.64
1:G:462:PHE:CA	1:X:483:HIS:CE1	2.81	0.64
1:J:483:HIS:CE1	1:7:462:PHE:CA	2.81	0.64
1:J:483:HIS:CE1	1:7:462:PHE:N	2.64	0.64
1:N:483:HIS:CE1	1:d:462:PHE:CA	2.81	0.64
1:b:350:ASN:HD21	1:s:453:PHE:HE2	1.45	0.64
1:i:483:HIS:CE1	1:n:462:PHE:CA	2.81	0.64
1:3:462:PHE:CA	1:7:483:HIS:CE1	2.81	0.64
1:D:453:PHE:HE2	1:L:350:ASN:HD21	1.45	0.64
1:D:462:PHE:CA	1:L:483:HIS:CE1	2.81	0.64
1:Y:462:PHE:CA	1:2:483:HIS:CE1	2.81	0.64
1:Y:483:HIS:CE1	1:a:462:PHE:CA	2.81	0.64
1:j:483:HIS:CE1	1:v:462:PHE:CA	2.81	0.64
1:k:462:PHE:CA	1:z:483:HIS:CE1	2.81	0.64
1:o:483:HIS:CE1	1:t:462:PHE:CA	2.81	0.64
1:C:462:PHE:CA	1:I:483:HIS:CE1	2.81	0.64
1:U:453:PHE:HE2	1:f:350:ASN:HD21	1.45	0.64
1:E:483:HIS:CE1	1:O:462:PHE:CA	2.81	0.64
1:b:453:PHE:HE2	1:6:350:ASN:HD21	1.45	0.64
1:g:462:PHE:CA	1:u:483:HIS:CE1	2.81	0.64
1:j:462:PHE:CA	1:q:483:HIS:CE1	2.81	0.64
1:k:453:PHE:HE2	1:z:350:ASN:HD21	1.45	0.64
1:l:462:PHE:CA	1:w:483:HIS:CE1	2.81	0.64
1:A:453:PHE:HE2	1:P:350:ASN:HD21	1.45	0.63
1:J:351:PHE:CD2	1:7:419:PHE:CE1	2.87	0.63
1:P:462:PHE:CA	1:R:483:HIS:CE1	2.81	0.63
1:m:556:THR:CG2	1:v:556:THR:CG2	2.68	0.63
1:A:351:PHE:CD2	1:R:419:PHE:CE1	2.87	0.63
1:B:462:PHE:CA	1:F:483:HIS:CE1	2.81	0.63
1:D:483:HIS:CE1	1:c:462:PHE:CA	2.81	0.63
1:E:350:ASN:HD21	1:O:453:PHE:HE2	1.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:419:PHE:CE1	1:K:351:PHE:CD2	2.87	0.63
1:N:419:PHE:CE1	1:r:351:PHE:CD2	2.87	0.63
1:S:351:PHE:CD2	1:i:419:PHE:CE1	2.87	0.63
1:Y:419:PHE:CE1	1:2:351:PHE:CD2	2.87	0.63
1:b:483:HIS:CE1	1:s:462:PHE:CA	2.81	0.63
1:e:419:PHE:CE1	1:k:351:PHE:CD2	2.87	0.63
1:i:351:PHE:CD2	1:n:419:PHE:CE1	2.87	0.63
1:u:419:PHE:CE1	1:4:351:PHE:CD2	2.87	0.63
1:A:419:PHE:CE1	1:P:351:PHE:CD2	2.86	0.63
1:B:351:PHE:CD2	1:H:419:PHE:CE1	2.87	0.63
1:D:351:PHE:CD2	1:c:419:PHE:CE1	2.87	0.63
1:F:419:PHE:CE1	1:H:351:PHE:CD2	2.87	0.63
1:G:483:HIS:CE1	1:Z:462:PHE:CA	2.81	0.63
1:N:351:PHE:CD2	1:d:419:PHE:CE1	2.87	0.63
1:P:419:PHE:CE1	1:R:351:PHE:CD2	2.87	0.63
1:S:419:PHE:CE1	1:n:351:PHE:CD2	2.87	0.63
1:U:462:PHE:CA	1:f:483:HIS:CE1	2.81	0.63
1:W:350:ASN:HD21	1:f:453:PHE:HE2	1.45	0.63
1:d:351:PHE:CD2	1:r:419:PHE:CE1	2.87	0.63
1:e:350:ASN:HD21	1:z:453:PHE:HE2	1.45	0.63
1:e:462:PHE:CA	1:k:483:HIS:CE1	2.81	0.63
1:j:350:ASN:HD21	1:v:453:PHE:HE2	1.45	0.63
1:j:419:PHE:CE1	1:q:351:PHE:CD2	2.87	0.63
1:j:453:PHE:HE2	1:q:350:ASN:HD21	1.45	0.63
1:t:483:HIS:CE1	1:8:462:PHE:CA	2.81	0.63
1:y:419:PHE:CE1	1:5:351:PHE:CD2	2.87	0.63
1:y:483:HIS:CE1	1:1:462:PHE:CA	2.81	0.63
1:A:556:THR:CG2	1:T:556:THR:CG2	2.69	0.63
1:B:483:HIS:CE1	1:H:462:PHE:CA	2.81	0.63
1:C:351:PHE:CD2	1:K:419:PHE:CE1	2.87	0.63
1:F:462:PHE:CA	1:H:483:HIS:CE1	2.81	0.63
1:L:419:PHE:CE1	1:c:351:PHE:CD2	2.87	0.63
1:e:351:PHE:CD2	1:z:419:PHE:CE1	2.87	0.63
1:l:453:PHE:HE2	1:w:350:ASN:HD21	1.45	0.63
1:q:419:PHE:CE1	1:v:351:PHE:CD2	2.87	0.63
1:y:462:PHE:CA	1:5:483:HIS:CE1	2.81	0.63
1:1:351:PHE:CD2	1:5:419:PHE:CE1	2.87	0.63
1:1:483:HIS:CE1	1:5:462:PHE:CA	2.81	0.63
1:L:453:PHE:HE2	1:c:350:ASN:HD21	1.45	0.63
1:P:453:PHE:HE2	1:R:350:ASN:HD21	1.45	0.63
1:X:419:PHE:CE1	1:Z:351:PHE:CD2	2.87	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:351:PHE:CD2	1:4:419:PHE:CE1	2.87	0.63
1:j:351:PHE:CD2	1:v:419:PHE:CE1	2.87	0.63
1:o:419:PHE:CE1	1:8:351:PHE:CD2	2.87	0.63
1:G:350:ASN:HD21	1:Z:453:PHE:HE2	1.45	0.63
1:N:462:PHE:CA	1:r:483:HIS:CE1	2.81	0.63
1:Q:319:ARG:NH2	1:T:105:ASP:OD2	2.31	0.63
1:Q:483:HIS:CE1	1:V:462:PHE:CA	2.81	0.63
1:S:483:HIS:CE1	1:i:462:PHE:CA	2.81	0.63
1:W:351:PHE:CD2	1:f:419:PHE:CE1	2.87	0.63
1:X:462:PHE:CA	1:Z:483:HIS:CE1	2.81	0.63
1:e:483:HIS:CE1	1:z:462:PHE:CA	2.81	0.63
1:t:350:ASN:HD21	1:8:453:PHE:HE2	1.45	0.63
1:A:431:GLN:O	1:P:444:ARG:HD2	1.99	0.63
1:C:419:PHE:CE1	1:I:351:PHE:CD2	2.87	0.63
1:G:419:PHE:CE1	1:X:351:PHE:CD2	2.87	0.63
1:L:462:PHE:CA	1:c:483:HIS:CE1	2.81	0.63
1:b:419:PHE:CE1	1:6:351:PHE:CD2	2.87	0.63
1:g:419:PHE:CE1	1:u:351:PHE:CD2	2.87	0.63
1:m:453:PHE:HE2	1:p:350:ASN:HD21	1.45	0.63
1:o:462:PHE:CA	1:8:483:HIS:CE1	2.81	0.63
1:p:462:PHE:CA	1:x:483:HIS:CE1	2.81	0.63
1:1:350:ASN:ND2	1:5:453:PHE:CE2	2.67	0.63
1:B:350:ASN:ND2	1:H:453:PHE:CE2	2.67	0.63
1:F:453:PHE:CE2	1:H:350:ASN:ND2	2.67	0.63
1:N:431:GLN:O	1:r:444:ARG:HD2	1.99	0.63
1:S:444:ARG:HD2	1:i:431:GLN:O	1.99	0.63
1:T:453:PHE:HE2	1:V:350:ASN:HD21	1.45	0.63
1:e:431:GLN:O	1:k:444:ARG:HD2	1.99	0.63
1:k:419:PHE:CE1	1:z:351:PHE:CD2	2.87	0.63
1:o:350:ASN:HD21	1:t:453:PHE:HE2	1.45	0.63
1:o:351:PHE:CD2	1:t:419:PHE:CE1	2.87	0.63
1:s:556:THR:CG2	1:8:556:THR:CG2	2.69	0.63
1:u:462:PHE:CA	1:4:483:HIS:CE1	2.81	0.63
1:y:453:PHE:CE2	1:5:350:ASN:ND2	2.67	0.63
1:D:419:PHE:CE1	1:L:351:PHE:CD2	2.87	0.63
1:D:444:ARG:HD2	1:c:431:GLN:O	1.99	0.63
1:E:351:PHE:CD2	1:O:419:PHE:CE1	2.87	0.63
1:G:453:PHE:HE2	1:X:350:ASN:HD21	1.45	0.63
1:I:453:PHE:CE2	1:K:350:ASN:ND2	2.67	0.63
1:I:462:PHE:CA	1:K:483:HIS:CE1	2.81	0.63
1:J:462:PHE:CA	1:3:483:HIS:CE1	2.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:453:PHE:CE2	1:n:350:ASN:ND2	2.67	0.63
1:S:453:PHE:HE2	1:n:350:ASN:HD21	1.45	0.63
1:U:419:PHE:CE1	1:f:351:PHE:CD2	2.87	0.63
1:b:351:PHE:CD2	1:s:419:PHE:CE1	2.87	0.63
1:d:323:THR:HG23	1:d:331:VAL:HG12	1.81	0.63
1:d:350:ASN:ND2	1:r:453:PHE:CE2	2.67	0.63
1:h:319:ARG:NH2	1:l:105:ASP:OD2	2.31	0.63
1:j:444:ARG:HD2	1:v:431:GLN:O	1.99	0.63
1:n:323:THR:HG23	1:n:331:VAL:HG12	1.81	0.63
1:u:453:PHE:CE2	1:4:350:ASN:ND2	2.67	0.63
1:D:350:ASN:ND2	1:c:453:PHE:CE2	2.67	0.62
1:D:431:GLN:O	1:L:444:ARG:HD2	1.99	0.62
1:G:431:GLN:O	1:X:444:ARG:HD2	1.99	0.62
1:N:350:ASN:HD21	1:d:453:PHE:HE2	1.45	0.62
1:Q:444:ARG:HD2	1:V:431:GLN:O	1.99	0.62
1:T:453:PHE:CE2	1:V:350:ASN:ND2	2.67	0.62
1:a:483:HIS:CE1	1:2:462:PHE:CA	2.81	0.62
1:k:431:GLN:O	1:z:444:ARG:HD2	1.99	0.62
1:k:453:PHE:CE2	1:z:350:ASN:ND2	2.67	0.62
1:l:419:PHE:CE1	1:w:351:PHE:CD2	2.87	0.62
1:o:444:ARG:HD2	1:t:431:GLN:O	1.99	0.62
1:p:431:GLN:O	1:x:444:ARG:HD2	1.99	0.62
1:B:431:GLN:O	1:F:444:ARG:HD2	1.99	0.62
1:D:453:PHE:CE2	1:L:350:ASN:ND2	2.67	0.62
1:E:444:ARG:HD2	1:O:431:GLN:O	1.99	0.62
1:F:453:PHE:HE2	1:H:350:ASN:HD21	1.45	0.62
1:M:319:ARG:NH2	1:O:105:ASP:OD2	2.31	0.62
1:M:419:PHE:CZ	1:O:351:PHE:CG	2.88	0.62
1:Q:419:PHE:CE1	1:T:351:PHE:CD2	2.87	0.62
1:Q:453:PHE:CE2	1:T:350:ASN:ND2	2.67	0.62
1:Y:351:PHE:CG	1:a:419:PHE:CZ	2.88	0.62
1:Y:351:PHE:CD2	1:a:419:PHE:CE1	2.87	0.62
1:e:453:PHE:CE2	1:k:350:ASN:ND2	2.67	0.62
1:h:419:PHE:CZ	1:l:351:PHE:CG	2.88	0.62
1:l:431:GLN:O	1:w:444:ARG:HD2	1.99	0.62
1:m:350:ASN:ND2	1:x:453:PHE:CE2	2.67	0.62
1:m:453:PHE:CE2	1:p:350:ASN:ND2	2.67	0.62
1:s:351:PHE:CD2	1:6:419:PHE:CE1	2.87	0.62
1:u:453:PHE:HE2	1:4:350:ASN:HD21	1.45	0.62
1:y:323:THR:HG23	1:y:331:VAL:HG12	1.81	0.62
1:y:351:PHE:CD2	1:1:419:PHE:CE1	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:453:PHE:HE2	1:5:350:ASN:HD21	1.45	0.62
1:1:351:PHE:CG	1:5:419:PHE:CZ	2.88	0.62
1:3:419:PHE:CE1	1:7:351:PHE:CD2	2.87	0.62
1:B:351:PHE:CG	1:H:419:PHE:CZ	2.88	0.62
1:B:419:PHE:CE1	1:F:351:PHE:CD2	2.87	0.62
1:B:444:ARG:HD2	1:H:431:GLN:O	1.99	0.62
1:C:323:THR:HG23	1:C:331:VAL:HG12	1.82	0.62
1:E:419:PHE:CE1	1:M:351:PHE:CD2	2.87	0.62
1:E:419:PHE:CZ	1:M:351:PHE:CG	2.88	0.62
1:E:453:PHE:CE2	1:M:350:ASN:ND2	2.67	0.62
1:F:323:THR:HG23	1:F:331:VAL:HG12	1.81	0.62
1:F:419:PHE:CZ	1:H:351:PHE:CG	2.88	0.62
1:I:591:MET:CE	1:K:191:PRO:HG3	2.09	0.62
1:J:419:PHE:CZ	1:3:351:PHE:CG	2.88	0.62
1:K:323:THR:HG23	1:K:331:VAL:HG12	1.82	0.62
1:P:323:THR:HG23	1:P:331:VAL:HG12	1.81	0.62
1:Q:105:ASP:OD2	1:V:319:ARG:NH2	2.31	0.62
1:Q:351:PHE:CD2	1:V:419:PHE:CE1	2.87	0.62
1:S:323:THR:HG23	1:S:331:VAL:HG12	1.81	0.62
1:S:351:PHE:CG	1:i:419:PHE:CZ	2.88	0.62
1:U:351:PHE:CD2	1:W:419:PHE:CE1	2.87	0.62
1:U:419:PHE:CZ	1:f:351:PHE:CG	2.88	0.62
1:U:556:THR:CG2	1:Z:556:THR:CG2	2.69	0.62
1:Y:444:ARG:HD2	1:a:431:GLN:O	1.99	0.62
1:a:351:PHE:CG	1:2:419:PHE:CZ	2.88	0.62
1:b:350:ASN:ND2	1:s:453:PHE:CE2	2.67	0.62
1:b:351:PHE:CG	1:s:419:PHE:CZ	2.88	0.62
1:c:323:THR:HG23	1:c:331:VAL:HG12	1.81	0.62
1:d:350:ASN:HD21	1:r:453:PHE:HE2	1.45	0.62
1:g:323:THR:HG23	1:g:331:VAL:HG12	1.82	0.62
1:g:431:GLN:O	1:u:444:ARG:HD2	1.99	0.62
1:h:350:ASN:ND2	1:w:453:PHE:CE2	2.67	0.62
1:h:351:PHE:CG	1:w:419:PHE:CZ	2.88	0.62
1:i:350:ASN:HD21	1:n:453:PHE:HE2	1.45	0.62
1:m:350:ASN:HD21	1:x:453:PHE:HE2	1.45	0.62
1:m:351:PHE:CD2	1:x:419:PHE:CE1	2.87	0.62
1:m:419:PHE:CE1	1:p:351:PHE:CD2	2.87	0.62
1:p:419:PHE:CE1	1:x:351:PHE:CD2	2.87	0.62
1:q:453:PHE:HE2	1:v:350:ASN:HD21	1.45	0.62
1:r:323:THR:HG23	1:r:331:VAL:HG12	1.81	0.62
1:t:323:THR:HG23	1:t:331:VAL:HG12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:323:THR:HG23	1:x:331:VAL:HG12	1.82	0.62
1:y:419:PHE:CZ	1:5:351:PHE:CG	2.88	0.62
1:y:444:ARG:HD2	1:1:431:GLN:O	1.99	0.62
1:1:444:ARG:HD2	1:5:431:GLN:O	1.99	0.62
1:3:419:PHE:CZ	1:7:351:PHE:CG	2.88	0.62
1:3:453:PHE:HE2	1:7:350:ASN:HD21	1.45	0.62
1:4:323:THR:HG23	1:4:331:VAL:HG12	1.82	0.62
1:A:351:PHE:CG	1:R:419:PHE:CZ	2.88	0.62
1:B:191:PRO:HG3	1:H:591:MET:CE	2.09	0.62
1:C:431:GLN:O	1:I:444:ARG:HD2	1.99	0.62
1:E:351:PHE:CG	1:O:419:PHE:CZ	2.88	0.62
1:G:323:THR:HG23	1:G:331:VAL:HG12	1.81	0.62
1:L:453:PHE:CE2	1:c:350:ASN:ND2	2.67	0.62
1:M:431:GLN:O	1:O:444:ARG:HD2	1.99	0.62
1:M:453:PHE:CE2	1:O:350:ASN:ND2	2.67	0.62
1:N:419:PHE:CZ	1:r:351:PHE:CG	2.88	0.62
1:Q:323:THR:HG23	1:Q:331:VAL:HG12	1.82	0.62
1:Q:453:PHE:HE2	1:T:350:ASN:HD21	1.45	0.62
1:U:453:PHE:CE2	1:f:350:ASN:ND2	2.67	0.62
1:a:350:ASN:ND2	1:2:453:PHE:CE2	2.67	0.62
1:a:351:PHE:CD2	1:2:419:PHE:CE1	2.87	0.62
1:b:323:THR:HG23	1:b:331:VAL:HG12	1.81	0.62
1:e:323:THR:HG23	1:e:331:VAL:HG12	1.81	0.62
1:e:350:ASN:ND2	1:z:453:PHE:CE2	2.67	0.62
1:g:453:PHE:CE2	1:u:350:ASN:ND2	2.67	0.62
1:h:351:PHE:CD2	1:w:419:PHE:CE1	2.87	0.62
1:h:431:GLN:O	1:l:444:ARG:HD2	1.99	0.62
1:h:453:PHE:CE2	1:l:350:ASN:ND2	2.67	0.62
1:j:323:THR:HG23	1:j:331:VAL:HG12	1.81	0.62
1:j:350:ASN:ND2	1:v:453:PHE:CE2	2.67	0.62
1:l:323:THR:HG23	1:l:331:VAL:HG12	1.81	0.62
1:l:419:PHE:CZ	1:w:351:PHE:CG	2.88	0.62
1:p:319:ARG:NH2	1:x:105:ASP:OD2	2.31	0.62
1:p:453:PHE:CE2	1:x:350:ASN:ND2	2.67	0.62
1:1:191:PRO:HG3	1:5:591:MET:CE	2.09	0.62
1:3:431:GLN:O	1:7:444:ARG:HD2	1.99	0.62
1:A:444:ARG:HD2	1:R:431:GLN:O	1.99	0.62
1:C:453:PHE:CE2	1:I:350:ASN:ND2	2.67	0.62
1:G:350:ASN:ND2	1:Z:453:PHE:CE2	2.67	0.62
1:G:351:PHE:CD2	1:Z:419:PHE:CE1	2.87	0.62
1:H:323:THR:HG23	1:H:331:VAL:HG12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:453:PHE:HE2	1:K:350:ASN:HD21	1.45	0.62
1:J:419:PHE:CE1	1:3:351:PHE:CD2	2.87	0.62
1:J:453:PHE:CE2	1:3:350:ASN:ND2	2.67	0.62
1:N:350:ASN:ND2	1:d:453:PHE:CE2	2.67	0.62
1:O:323:THR:HG23	1:O:331:VAL:HG12	1.81	0.62
1:Q:350:ASN:ND2	1:V:453:PHE:CE2	2.67	0.62
1:S:350:ASN:ND2	1:i:453:PHE:CE2	2.67	0.62
1:S:431:GLN:O	1:n:444:ARG:HD2	1.99	0.62
1:T:419:PHE:CE1	1:V:351:PHE:CD2	2.87	0.62
1:U:350:ASN:HD21	1:W:453:PHE:HE2	1.45	0.62
1:U:351:PHE:CG	1:W:419:PHE:CZ	2.88	0.62
1:U:431:GLN:O	1:f:444:ARG:HD2	1.99	0.62
1:f:323:THR:HG23	1:f:331:VAL:HG12	1.81	0.62
1:q:419:PHE:CZ	1:v:351:PHE:CG	2.88	0.62
1:q:453:PHE:CE2	1:v:350:ASN:ND2	2.67	0.62
1:A:350:ASN:ND2	1:R:453:PHE:CE2	2.68	0.62
1:B:419:PHE:CZ	1:F:351:PHE:CG	2.88	0.62
1:C:350:ASN:ND2	1:K:453:PHE:CE2	2.67	0.62
1:C:444:ARG:HD2	1:K:431:GLN:O	1.99	0.62
1:D:419:PHE:CZ	1:L:351:PHE:CG	2.88	0.62
1:G:419:PHE:CZ	1:X:351:PHE:CG	2.88	0.62
1:G:453:PHE:CE2	1:X:350:ASN:ND2	2.67	0.62
1:J:350:ASN:ND2	1:7:453:PHE:CE2	2.67	0.62
1:M:419:PHE:CE1	1:O:351:PHE:CD2	2.87	0.62
1:U:417:ARG:HB2	1:f:353:ALA:HB3	1.82	0.62
1:Y:350:ASN:HD21	1:a:453:PHE:HE2	1.45	0.62
1:Y:453:PHE:CE2	1:2:350:ASN:ND2	2.67	0.62
1:b:353:ALA:HB3	1:s:417:ARG:HB2	1.82	0.62
1:b:444:ARG:HD2	1:s:431:GLN:O	1.99	0.62
1:d:444:ARG:HD2	1:r:431:GLN:O	1.99	0.62
1:g:350:ASN:ND2	1:4:453:PHE:CE2	2.67	0.62
1:i:350:ASN:ND2	1:n:453:PHE:CE2	2.67	0.62
1:k:419:PHE:CZ	1:z:351:PHE:CG	2.88	0.62
1:m:431:GLN:O	1:p:444:ARG:HD2	1.99	0.62
1:m:444:ARG:HD2	1:x:431:GLN:O	1.99	0.62
1:o:351:PHE:CG	1:t:419:PHE:CZ	2.88	0.62
1:s:350:ASN:HD21	1:6:453:PHE:HE2	1.45	0.62
1:s:351:PHE:CG	1:6:419:PHE:CZ	2.88	0.62
1:t:350:ASN:ND2	1:8:453:PHE:CE2	2.67	0.62
1:t:351:PHE:CD2	1:8:419:PHE:CE1	2.87	0.62
1:y:351:PHE:CG	1:1:419:PHE:CZ	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:453:PHE:CE2	1:7:350:ASN:ND2	2.67	0.62
1:5:323:THR:HG23	1:5:331:VAL:HG12	1.81	0.62
1:A:350:ASN:HD21	1:R:453:PHE:HE2	1.45	0.62
1:A:353:ALA:HB3	1:R:417:ARG:HB2	1.82	0.62
1:A:417:ARG:HB2	1:P:353:ALA:HB3	1.82	0.62
1:A:453:PHE:CE2	1:P:350:ASN:ND2	2.67	0.62
1:B:453:PHE:HE2	1:F:350:ASN:HD21	1.45	0.62
1:D:323:THR:HG23	1:D:331:VAL:HG12	1.81	0.62
1:D:351:PHE:CG	1:c:419:PHE:CZ	2.88	0.62
1:L:462:PHE:C	1:c:483:HIS:NE2	2.58	0.62
1:N:453:PHE:CE2	1:r:350:ASN:ND2	2.67	0.62
1:Q:431:GLN:O	1:T:444:ARG:HD2	1.99	0.62
1:T:431:GLN:O	1:V:444:ARG:HD2	1.99	0.62
1:U:323:THR:HG23	1:U:331:VAL:HG12	1.81	0.62
1:U:350:ASN:ND2	1:W:453:PHE:CE2	2.67	0.62
1:Y:350:ASN:ND2	1:a:453:PHE:CE2	2.67	0.62
1:Y:417:ARG:HB2	1:2:353:ALA:HB3	1.82	0.62
1:b:453:PHE:CE2	1:6:350:ASN:ND2	2.67	0.62
1:e:419:PHE:CZ	1:k:351:PHE:CG	2.88	0.62
1:e:483:HIS:NE2	1:z:462:PHE:C	2.58	0.62
1:g:444:ARG:HD2	1:4:431:GLN:O	1.99	0.62
1:h:419:PHE:CE1	1:l:351:PHE:CD2	2.87	0.62
1:i:444:ARG:HD2	1:n:431:GLN:O	1.99	0.62
1:o:350:ASN:ND2	1:t:453:PHE:CE2	2.67	0.62
1:o:431:GLN:O	1:8:444:ARG:HD2	1.99	0.62
1:q:417:ARG:HB2	1:v:353:ALA:HB3	1.82	0.62
1:s:350:ASN:ND2	1:6:453:PHE:CE2	2.67	0.62
1:1:105:ASP:OD2	1:5:319:ARG:NH2	2.31	0.62
1:B:105:ASP:OD2	1:H:319:ARG:NH2	2.31	0.62
1:J:353:ALA:HB3	1:7:417:ARG:HB2	1.82	0.62
1:N:417:ARG:HB2	1:r:353:ALA:HB3	1.82	0.62
1:P:431:GLN:O	1:R:444:ARG:HD2	1.99	0.62
1:T:462:PHE:C	1:V:483:HIS:NE2	2.58	0.62
1:W:350:ASN:ND2	1:f:453:PHE:CE2	2.67	0.62
1:X:431:GLN:O	1:Z:444:ARG:HD2	1.99	0.62
1:j:353:ALA:HB3	1:v:417:ARG:HB2	1.82	0.62
1:k:323:THR:HG23	1:k:331:VAL:HG12	1.81	0.62
1:m:462:PHE:C	1:p:483:HIS:NE2	2.58	0.62
1:q:431:GLN:O	1:v:444:ARG:HD2	1.99	0.62
1:t:191:PRO:HG3	1:8:591:MET:CE	2.09	0.62
1:t:444:ARG:HD2	1:8:431:GLN:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:323:THR:HG23	1:w:331:VAL:HG12	1.81	0.62
1:C:417:ARG:HB2	1:I:353:ALA:HB3	1.82	0.62
1:C:419:PHE:CZ	1:I:351:PHE:CG	2.88	0.62
1:E:323:THR:HG23	1:E:331:VAL:HG12	1.81	0.62
1:E:353:ALA:HB3	1:O:417:ARG:HB2	1.82	0.62
1:G:417:ARG:HB2	1:X:353:ALA:HB3	1.82	0.62
1:G:444:ARG:HD2	1:Z:431:GLN:O	1.99	0.62
1:G:462:PHE:C	1:X:483:HIS:NE2	2.58	0.62
1:L:323:THR:HG23	1:L:331:VAL:HG12	1.81	0.62
1:L:419:PHE:CZ	1:c:351:PHE:CG	2.88	0.62
1:N:351:PHE:CG	1:d:419:PHE:CZ	2.88	0.62
1:N:444:ARG:HD2	1:d:431:GLN:O	1.99	0.62
1:S:353:ALA:HB3	1:i:417:ARG:HB2	1.82	0.62
1:W:351:PHE:CG	1:f:419:PHE:CZ	2.88	0.62
1:b:419:PHE:CZ	1:6:351:PHE:CG	2.88	0.62
1:b:431:GLN:O	1:6:444:ARG:HD2	1.99	0.62
1:d:353:ALA:HB3	1:r:417:ARG:HB2	1.82	0.62
1:g:417:ARG:HB2	1:u:353:ALA:HB3	1.82	0.62
1:i:351:PHE:CG	1:n:419:PHE:CZ	2.88	0.62
1:j:431:GLN:O	1:q:444:ARG:HD2	1.99	0.62
1:l:417:ARG:HB2	1:w:353:ALA:HB3	1.82	0.62
1:o:483:HIS:NE2	1:t:462:PHE:C	2.58	0.62
1:s:323:THR:HG23	1:s:331:VAL:HG12	1.81	0.62
1:t:351:PHE:CG	1:8:419:PHE:CZ	2.88	0.62
1:A:419:PHE:CZ	1:P:351:PHE:CG	2.87	0.62
1:B:453:PHE:CE2	1:F:350:ASN:ND2	2.67	0.62
1:B:462:PHE:C	1:F:483:HIS:NE2	2.58	0.62
1:C:353:ALA:HB3	1:K:417:ARG:HB2	1.82	0.62
1:G:351:PHE:CG	1:Z:419:PHE:CZ	2.88	0.62
1:G:353:ALA:HB3	1:Z:417:ARG:HB2	1.82	0.62
1:J:105:ASP:OD2	1:7:319:ARG:NH2	2.31	0.62
1:J:351:PHE:CG	1:7:419:PHE:CZ	2.88	0.62
1:M:462:PHE:C	1:O:483:HIS:NE2	2.58	0.62
1:P:453:PHE:CE2	1:R:350:ASN:ND2	2.67	0.62
1:Q:351:PHE:CG	1:V:419:PHE:CZ	2.88	0.62
1:S:417:ARG:HB2	1:n:353:ALA:HB3	1.82	0.62
1:W:353:ALA:HB3	1:f:417:ARG:HB2	1.82	0.62
1:Y:419:PHE:CZ	1:2:351:PHE:CG	2.88	0.62
1:Y:431:GLN:O	1:2:444:ARG:HD2	1.99	0.62
1:e:351:PHE:CG	1:z:419:PHE:CZ	2.88	0.62
1:g:353:ALA:HB3	1:4:417:ARG:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:419:PHE:CZ	1:u:351:PHE:CG	2.88	0.62
1:h:462:PHE:C	1:l:483:HIS:NE2	2.58	0.62
1:i:353:ALA:HB3	1:n:417:ARG:HB2	1.82	0.62
1:o:353:ALA:HB3	1:t:417:ARG:HB2	1.82	0.62
1:t:353:ALA:HB3	1:8:417:ARG:HB2	1.82	0.62
1:u:323:THR:HG23	1:u:331:VAL:HG12	1.82	0.62
1:y:350:ASN:HD21	1:1:453:PHE:HE2	1.45	0.62
1:y:483:HIS:NE2	1:1:462:PHE:C	2.58	0.62
1:z:323:THR:HG23	1:z:331:VAL:HG12	1.81	0.62
1:6:323:THR:HG23	1:6:331:VAL:HG12	1.81	0.62
1:8:323:THR:HG23	1:8:331:VAL:HG12	1.81	0.62
1:C:453:PHE:CZ	1:I:350:ASN:ND2	2.68	0.61
1:E:319:ARG:NH2	1:M:105:ASP:OD2	2.31	0.61
1:E:351:PHE:CB	1:O:419:PHE:CZ	2.84	0.61
1:I:419:PHE:CZ	1:K:351:PHE:CB	2.83	0.61
1:J:351:PHE:CB	1:7:419:PHE:CZ	2.84	0.61
1:N:353:ALA:HB3	1:d:417:ARG:HB2	1.82	0.61
1:W:323:THR:HG23	1:W:331:VAL:HG12	1.81	0.61
1:W:444:ARG:HD2	1:f:431:GLN:O	1.99	0.61
1:Y:350:ASN:ND2	1:a:453:PHE:CZ	2.68	0.61
1:Z:323:THR:HG23	1:Z:331:VAL:HG12	1.81	0.61
1:b:417:ARG:HB2	1:6:353:ALA:HB3	1.82	0.61
1:g:591:MET:CE	1:u:191:PRO:HG3	2.09	0.61
1:h:105:ASP:OD2	1:w:319:ARG:NH2	2.31	0.61
1:l:419:PHE:CZ	1:w:351:PHE:CB	2.84	0.61
1:l:453:PHE:CZ	1:w:350:ASN:ND2	2.69	0.61
1:o:419:PHE:CZ	1:8:351:PHE:CG	2.88	0.61
1:p:419:PHE:CZ	1:x:351:PHE:CG	2.88	0.61
1:u:419:PHE:CZ	1:4:351:PHE:CB	2.83	0.61
1:y:350:ASN:ND2	1:1:453:PHE:CE2	2.67	0.61
1:3:453:PHE:CZ	1:7:350:ASN:ND2	2.68	0.61
1:A:572:PRO:HG2	1:V:252:PHE:CE1	2.35	0.61
1:B:483:HIS:NE2	1:H:462:PHE:C	2.58	0.61
1:D:152:ASN:HD22	1:s:263:LEU:CD1	2.14	0.61
1:D:350:ASN:HD21	1:c:453:PHE:HE2	1.45	0.61
1:D:453:PHE:CZ	1:L:350:ASN:ND2	2.69	0.61
1:E:350:ASN:ND2	1:O:453:PHE:CE2	2.67	0.61
1:E:350:ASN:ND2	1:O:453:PHE:CZ	2.69	0.61
1:I:323:THR:HG23	1:I:331:VAL:HG12	1.82	0.61
1:I:431:GLN:O	1:K:444:ARG:HD2	1.99	0.61
1:J:419:PHE:CZ	1:3:351:PHE:CB	2.84	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:444:ARG:HD2	1:7:431:GLN:O	1.99	0.61
1:N:419:PHE:CZ	1:r:351:PHE:CB	2.84	0.61
1:S:351:PHE:CB	1:i:419:PHE:CZ	2.84	0.61
1:S:419:PHE:CZ	1:n:351:PHE:CG	2.88	0.61
1:S:462:PHE:C	1:n:483:HIS:NE2	2.58	0.61
1:T:419:PHE:CZ	1:V:351:PHE:CB	2.83	0.61
1:Y:319:ARG:NH2	1:2:105:ASP:OD2	2.31	0.61
1:Y:419:PHE:CZ	1:2:351:PHE:CB	2.84	0.61
1:d:351:PHE:CG	1:r:419:PHE:CZ	2.88	0.61
1:d:483:HIS:NE2	1:r:462:PHE:C	2.58	0.61
1:g:453:PHE:CZ	1:u:350:ASN:ND2	2.68	0.61
1:j:351:PHE:CG	1:v:419:PHE:CZ	2.88	0.61
1:j:453:PHE:CE2	1:q:350:ASN:ND2	2.67	0.61
1:k:453:PHE:CZ	1:z:350:ASN:ND2	2.69	0.61
1:l:453:PHE:CE2	1:w:350:ASN:ND2	2.67	0.61
1:m:351:PHE:CG	1:x:419:PHE:CZ	2.88	0.61
1:m:419:PHE:CZ	1:p:351:PHE:CB	2.83	0.61
1:p:252:PHE:CE1	1:v:572:PRO:HG2	2.35	0.61
1:s:572:PRO:HG2	1:t:252:PHE:CE1	2.36	0.61
1:u:462:PHE:C	1:4:483:HIS:NE2	2.58	0.61
1:A:263:LEU:CD1	1:M:152:ASN:HD22	2.14	0.61
1:A:462:PHE:C	1:P:483:HIS:NE2	2.58	0.61
1:B:252:PHE:CE1	1:P:572:PRO:HG2	2.35	0.61
1:B:417:ARG:HB2	1:F:353:ALA:HB3	1.82	0.61
1:B:572:PRO:HG2	1:Z:252:PHE:CE1	2.36	0.61
1:C:351:PHE:CB	1:K:419:PHE:CZ	2.83	0.61
1:C:351:PHE:CG	1:K:419:PHE:CZ	2.88	0.61
1:E:419:PHE:CZ	1:M:351:PHE:CB	2.84	0.61
1:G:252:PHE:CE1	1:U:572:PRO:HG2	2.36	0.61
1:H:152:ASN:HD22	1:R:263:LEU:CD1	2.14	0.61
1:I:462:PHE:C	1:K:483:HIS:NE2	2.58	0.61
1:J:462:PHE:C	1:3:483:HIS:NE2	2.58	0.61
1:K:263:LEU:CD1	1:c:152:ASN:HD22	2.14	0.61
1:N:350:ASN:ND2	1:d:453:PHE:CZ	2.68	0.61
1:P:419:PHE:CZ	1:R:351:PHE:CG	2.88	0.61
1:Q:263:LEU:CD1	1:n:152:ASN:HD22	2.14	0.61
1:Q:417:ARG:HB2	1:T:353:ALA:HB3	1.82	0.61
1:Q:419:PHE:CZ	1:T:351:PHE:CG	2.88	0.61
1:T:427:ILE:HD13	1:V:102:ALA:CB	2.30	0.61
1:U:263:LEU:CD1	1:k:152:ASN:HD22	2.14	0.61
1:U:444:ARG:HD2	1:W:431:GLN:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:419:PHE:CZ	1:Z:351:PHE:CG	2.88	0.61
1:X:453:PHE:CE2	1:Z:350:ASN:ND2	2.67	0.61
1:a:351:PHE:CB	1:2:419:PHE:CZ	2.84	0.61
1:b:105:ASP:OD2	1:s:319:ARG:NH2	2.31	0.61
1:e:152:ASN:HD22	1:4:263:LEU:CD1	2.14	0.61
1:g:351:PHE:CG	1:4:419:PHE:CZ	2.88	0.61
1:h:351:PHE:CB	1:w:419:PHE:CZ	2.84	0.61
1:i:350:ASN:ND2	1:n:453:PHE:CZ	2.68	0.61
1:j:572:PRO:HG2	1:1:252:PHE:CE1	2.35	0.61
1:o:350:ASN:ND2	1:t:453:PHE:CZ	2.69	0.61
1:p:419:PHE:CZ	1:x:351:PHE:CB	2.83	0.61
1:q:263:LEU:CD1	1:5:152:ASN:HD22	2.14	0.61
1:v:323:THR:HG23	1:v:331:VAL:HG12	1.81	0.61
1:y:353:ALA:HB3	1:1:417:ARG:HB2	1.82	0.61
1:1:483:HIS:NE2	1:5:462:PHE:C	2.58	0.61
1:1:572:PRO:HG2	1:8:252:PHE:CE1	2.36	0.61
1:D:572:PRO:HG2	1:s:252:PHE:CE1	2.35	0.61
1:E:105:ASP:OD2	1:O:319:ARG:NH2	2.31	0.61
1:E:572:PRO:HG2	1:d:252:PHE:CE1	2.35	0.61
1:G:191:PRO:HG3	1:Z:591:MET:CE	2.09	0.61
1:G:453:PHE:CZ	1:X:350:ASN:ND2	2.69	0.61
1:I:417:ARG:HB2	1:K:353:ALA:HB3	1.82	0.61
1:J:83:VAL:HG13	1:J:109:GLN:HG3	1.83	0.61
1:K:252:PHE:CE1	1:c:572:PRO:HG2	2.35	0.61
1:L:252:PHE:CE1	1:6:572:PRO:HG2	2.35	0.61
1:N:572:PRO:HG2	1:S:252:PHE:CE1	2.35	0.61
1:Q:351:PHE:CB	1:V:419:PHE:CZ	2.83	0.61
1:Q:427:ILE:HD13	1:T:102:ALA:CB	2.30	0.61
1:T:263:LEU:CD1	1:f:152:ASN:HD22	2.14	0.61
1:T:419:PHE:CZ	1:V:351:PHE:CG	2.88	0.61
1:W:350:ASN:ND2	1:f:453:PHE:CZ	2.68	0.61
1:W:351:PHE:CB	1:f:419:PHE:CZ	2.84	0.61
1:W:572:PRO:HG2	1:z:252:PHE:CE1	2.35	0.61
1:Y:453:PHE:CZ	1:2:350:ASN:ND2	2.69	0.61
1:a:444:ARG:HD2	1:2:431:GLN:O	1.99	0.61
1:a:483:HIS:NE2	1:2:462:PHE:C	2.58	0.61
1:b:152:ASN:HD22	1:m:263:LEU:CD1	2.14	0.61
1:b:419:PHE:CZ	1:6:351:PHE:CB	2.84	0.61
1:b:453:PHE:CZ	1:6:350:ASN:ND2	2.68	0.61
1:d:102:ALA:CB	1:r:427:ILE:HD13	2.30	0.61
1:d:152:ASN:HD22	1:x:263:LEU:CD1	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:572:PRO:HG2	1:4:252:PHE:CE1	2.35	0.61
1:g:351:PHE:CB	1:4:419:PHE:CZ	2.83	0.61
1:i:572:PRO:HG2	1:r:252:PHE:CE1	2.35	0.61
1:j:350:ASN:ND2	1:v:453:PHE:CZ	2.68	0.61
1:j:419:PHE:CZ	1:q:351:PHE:CB	2.84	0.61
1:j:419:PHE:CZ	1:q:351:PHE:CG	2.88	0.61
1:m:353:ALA:HB3	1:x:417:ARG:HB2	1.82	0.61
1:m:419:PHE:CZ	1:p:351:PHE:CG	2.88	0.61
1:m:427:ILE:HD13	1:p:102:ALA:CB	2.30	0.61
1:p:417:ARG:HB2	1:x:353:ALA:HB3	1.82	0.61
1:p:462:PHE:C	1:x:483:HIS:NE2	2.58	0.61
1:s:444:ARG:HD2	1:6:431:GLN:O	1.99	0.61
1:u:431:GLN:O	1:4:444:ARG:HD2	1.99	0.61
1:2:83:VAL:HG13	1:2:109:GLN:HG3	1.83	0.61
1:A:323:THR:HG23	1:A:331:VAL:HG12	1.81	0.61
1:A:453:PHE:CZ	1:P:350:ASN:ND2	2.69	0.61
1:A:483:HIS:NE2	1:R:462:PHE:C	2.58	0.61
1:C:102:ALA:CB	1:K:427:ILE:HD13	2.30	0.61
1:C:350:ASN:ND2	1:K:453:PHE:CZ	2.68	0.61
1:D:419:PHE:CZ	1:L:351:PHE:CB	2.84	0.61
1:E:263:LEU:CD1	1:L:152:ASN:HD22	2.14	0.61
1:G:483:HIS:NE2	1:Z:462:PHE:C	2.58	0.61
1:J:350:ASN:ND2	1:7:453:PHE:CZ	2.69	0.61
1:J:431:GLN:O	1:3:444:ARG:HD2	1.99	0.61
1:P:419:PHE:CZ	1:R:351:PHE:CB	2.84	0.61
1:Q:353:ALA:HB3	1:V:417:ARG:HB2	1.82	0.61
1:S:427:ILE:HD13	1:n:102:ALA:CB	2.30	0.61
1:U:252:PHE:CE1	1:k:572:PRO:HG2	2.35	0.61
1:U:319:ARG:NH2	1:f:105:ASP:OD2	2.31	0.61
1:Y:483:HIS:NE2	1:a:462:PHE:C	2.58	0.61
1:a:105:ASP:OD2	1:2:319:ARG:NH2	2.31	0.61
1:d:572:PRO:HG2	1:x:252:PHE:CE1	2.35	0.61
1:e:453:PHE:HE2	1:k:350:ASN:HD21	1.45	0.61
1:g:102:ALA:CB	1:4:427:ILE:HD13	2.30	0.61
1:j:252:PHE:CE1	1:m:572:PRO:HG2	2.36	0.61
1:m:102:ALA:CB	1:x:427:ILE:HD13	2.30	0.61
1:n:252:PHE:CE1	1:w:572:PRO:HG2	2.35	0.61
1:o:319:ARG:NH2	1:8:105:ASP:OD2	2.31	0.61
1:o:419:PHE:CZ	1:8:351:PHE:CB	2.84	0.61
1:o:453:PHE:CE2	1:8:350:ASN:ND2	2.67	0.61
1:q:453:PHE:CZ	1:v:350:ASN:ND2	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:350:ASN:ND2	1:6:453:PHE:CZ	2.69	0.61
1:w:263:LEU:CD1	1:z:152:ASN:HD22	2.14	0.61
1:y:431:GLN:O	1:5:444:ARG:HD2	1.99	0.61
1:3:462:PHE:C	1:7:483:HIS:NE2	2.58	0.61
1:4:83:VAL:HG13	1:4:109:GLN:HG3	1.83	0.61
1:B:350:ASN:ND2	1:H:453:PHE:CZ	2.69	0.61
1:C:152:ASN:HD22	1:7:263:LEU:CD1	2.14	0.61
1:C:483:HIS:NE2	1:K:462:PHE:C	2.58	0.61
1:F:263:LEU:CD1	1:X:152:ASN:HD22	2.14	0.61
1:F:419:PHE:CZ	1:H:351:PHE:CB	2.84	0.61
1:G:350:ASN:ND2	1:Z:453:PHE:CZ	2.69	0.61
1:J:319:ARG:NH2	1:3:105:ASP:OD2	2.31	0.61
1:K:83:VAL:HG13	1:K:109:GLN:HG3	1.83	0.61
1:M:419:PHE:CZ	1:O:351:PHE:CB	2.84	0.61
1:N:102:ALA:CB	1:d:427:ILE:HD13	2.30	0.61
1:P:252:PHE:CE1	1:T:572:PRO:HG2	2.36	0.61
1:Q:252:PHE:CE1	1:n:572:PRO:HG2	2.35	0.61
1:Q:483:HIS:NE2	1:V:462:PHE:C	2.58	0.61
1:S:102:ALA:CB	1:i:427:ILE:HD13	2.30	0.61
1:U:350:ASN:ND2	1:W:453:PHE:CZ	2.69	0.61
1:U:453:PHE:CZ	1:f:350:ASN:ND2	2.68	0.61
1:X:419:PHE:CZ	1:Z:351:PHE:CB	2.84	0.61
1:a:323:THR:HG23	1:a:331:VAL:HG12	1.81	0.61
1:b:83:VAL:HG13	1:b:109:GLN:HG3	1.83	0.61
1:e:105:ASP:OD2	1:z:319:ARG:NH2	2.31	0.61
1:e:350:ASN:ND2	1:z:453:PHE:CZ	2.68	0.61
1:f:83:VAL:HG13	1:f:109:GLN:HG3	1.83	0.61
1:g:252:PHE:CE1	1:y:572:PRO:HG2	2.35	0.61
1:g:350:ASN:ND2	1:4:453:PHE:CZ	2.68	0.61
1:h:152:ASN:HD22	1:v:263:LEU:CD1	2.14	0.61
1:h:419:PHE:CZ	1:l:351:PHE:CB	2.84	0.61
1:j:483:HIS:NE2	1:v:462:PHE:C	2.58	0.61
1:k:265:ARG:HG3	1:u:42:SER:HG	1.66	0.61
1:k:419:PHE:CZ	1:z:351:PHE:CB	2.84	0.61
1:l:319:ARG:NH2	1:w:105:ASP:OD2	2.31	0.61
1:o:152:ASN:HD22	1:y:263:LEU:CD1	2.14	0.61
1:o:462:PHE:C	1:8:483:HIS:NE2	2.58	0.61
1:t:483:HIS:NE2	1:8:462:PHE:C	2.58	0.61
1:u:417:ARG:HB2	1:4:353:ALA:HB3	1.82	0.61
1:y:419:PHE:CZ	1:5:351:PHE:CB	2.84	0.61
1:3:323:THR:HG23	1:3:331:VAL:HG12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:350:ASN:ND2	1:R:453:PHE:CZ	2.69	0.61
1:B:453:PHE:CZ	1:F:350:ASN:ND2	2.68	0.61
1:C:252:PHE:CE1	1:F:572:PRO:HG2	2.35	0.61
1:D:105:ASP:OD2	1:c:319:ARG:NH2	2.31	0.61
1:D:483:HIS:NE2	1:c:462:PHE:C	2.58	0.61
1:E:453:PHE:CZ	1:M:350:ASN:ND2	2.69	0.61
1:F:431:GLN:O	1:H:444:ARG:HD2	1.99	0.61
1:F:453:PHE:CZ	1:H:350:ASN:ND2	2.68	0.61
1:G:152:ASN:HD22	1:a:263:LEU:CD1	2.14	0.61
1:G:419:PHE:CZ	1:X:351:PHE:CB	2.84	0.61
1:J:152:ASN:HD22	1:o:263:LEU:CD1	2.14	0.61
1:L:453:PHE:CZ	1:c:350:ASN:ND2	2.68	0.61
1:N:323:THR:HG23	1:N:331:VAL:HG12	1.81	0.61
1:N:427:ILE:HD13	1:r:102:ALA:CB	2.30	0.61
1:Q:350:ASN:ND2	1:V:453:PHE:CZ	2.68	0.61
1:Q:419:PHE:CZ	1:T:351:PHE:CB	2.83	0.61
1:Y:263:LEU:CD1	1:g:152:ASN:HD22	2.14	0.61
1:Y:462:PHE:C	1:2:483:HIS:NE2	2.58	0.61
1:b:351:PHE:CB	1:s:419:PHE:CZ	2.84	0.61
1:g:483:HIS:NE2	1:4:462:PHE:C	2.58	0.61
1:h:350:ASN:ND2	1:w:453:PHE:CZ	2.69	0.61
1:i:102:ALA:CB	1:n:427:ILE:HD13	2.30	0.61
1:m:351:PHE:CB	1:x:419:PHE:CZ	2.83	0.61
1:p:453:PHE:CZ	1:x:350:ASN:ND2	2.68	0.61
1:t:152:ASN:HD22	1:3:263:LEU:CD1	2.14	0.61
1:1:350:ASN:ND2	1:5:453:PHE:CZ	2.69	0.61
1:B:102:ALA:CB	1:H:427:ILE:HD13	2.30	0.61
1:C:591:MET:CE	1:I:191:PRO:HG3	2.09	0.61
1:D:252:PHE:CE1	1:I:572:PRO:HG2	2.36	0.61
1:E:431:GLN:O	1:M:444:ARG:HD2	1.99	0.61
1:J:323:THR:HG23	1:J:331:VAL:HG12	1.81	0.61
1:J:483:HIS:NE2	1:7:462:PHE:C	2.58	0.61
1:L:319:ARG:NH2	1:c:105:ASP:OD2	2.31	0.61
1:L:417:ARG:HB2	1:c:353:ALA:HB3	1.82	0.61
1:N:462:PHE:C	1:r:483:HIS:NE2	2.58	0.61
1:U:419:PHE:CZ	1:f:351:PHE:CB	2.84	0.61
1:X:263:LEU:CD1	1:2:152:ASN:HD22	2.14	0.61
1:X:319:ARG:NH2	1:Z:105:ASP:OD2	2.31	0.61
1:X:453:PHE:CZ	1:Z:350:ASN:ND2	2.69	0.61
1:X:462:PHE:C	1:Z:483:HIS:NE2	2.58	0.61
1:b:350:ASN:ND2	1:s:453:PHE:CZ	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:351:PHE:CB	1:r:419:PHE:CZ	2.84	0.61
1:e:319:ARG:NH2	1:k:105:ASP:OD2	2.31	0.61
1:e:353:ALA:HB3	1:z:417:ARG:HB2	1.82	0.61
1:e:444:ARG:HD2	1:z:431:GLN:O	1.99	0.61
1:e:462:PHE:C	1:k:483:HIS:NE2	2.58	0.61
1:h:444:ARG:HD2	1:w:431:GLN:O	1.99	0.61
1:h:453:PHE:CZ	1:l:350:ASN:ND2	2.69	0.61
1:j:417:ARG:HB2	1:q:353:ALA:HB3	1.82	0.61
1:k:252:PHE:CE1	1:u:572:PRO:HG2	2.36	0.61
1:o:351:PHE:CB	1:t:419:PHE:CZ	2.84	0.61
1:o:453:PHE:CZ	1:8:350:ASN:ND2	2.69	0.61
1:t:350:ASN:ND2	1:8:453:PHE:CZ	2.69	0.61
1:y:350:ASN:ND2	1:1:453:PHE:CZ	2.68	0.61
1:y:453:PHE:CZ	1:5:350:ASN:ND2	2.68	0.61
1:B:263:LEU:CD1	1:P:152:ASN:HD22	2.14	0.61
1:D:263:LEU:CD1	1:I:152:ASN:HD22	2.14	0.61
1:J:42:SER:HG	1:o:265:ARG:HG3	1.66	0.61
1:J:263:LEU:CD1	1:Y:152:ASN:HD22	2.14	0.61
1:M:453:PHE:CZ	1:O:350:ASN:ND2	2.69	0.61
1:N:252:PHE:CE1	1:p:572:PRO:HG2	2.36	0.61
1:N:483:HIS:NE2	1:d:462:PHE:C	2.58	0.61
1:S:419:PHE:CZ	1:n:351:PHE:CB	2.84	0.61
1:S:483:HIS:NE2	1:i:462:PHE:C	2.58	0.61
1:U:105:ASP:OD2	1:W:319:ARG:NH2	2.31	0.61
1:V:572:PRO:HG2	1:i:252:PHE:CE1	2.36	0.61
1:W:83:VAL:HG13	1:W:109:GLN:HG3	1.83	0.61
1:X:265:ARG:HG3	1:2:42:SER:HG	1.66	0.61
1:d:350:ASN:ND2	1:r:453:PHE:CZ	2.68	0.61
1:e:83:VAL:HG13	1:e:109:GLN:HG3	1.83	0.61
1:e:419:PHE:CZ	1:k:351:PHE:CB	2.84	0.61
1:i:323:THR:HG23	1:i:331:VAL:HG12	1.81	0.61
1:j:152:ASN:HD22	1:1:263:LEU:CD1	2.14	0.61
1:j:263:LEU:CD1	1:m:152:ASN:HD22	2.14	0.61
1:k:263:LEU:CD1	1:u:152:ASN:HD22	2.14	0.61
1:m:453:PHE:CZ	1:p:350:ASN:ND2	2.68	0.61
1:q:462:PHE:C	1:v:483:HIS:NE2	2.58	0.61
1:s:105:ASP:OD2	1:6:319:ARG:NH2	2.31	0.61
1:1:102:ALA:CB	1:5:427:ILE:HD13	2.30	0.61
1:2:263:LEU:CD1	1:7:152:ASN:HD22	2.14	0.61
1:2:323:THR:HG23	1:2:331:VAL:HG12	1.81	0.61
1:4:152:ASN:HD22	1:5:263:LEU:CD1	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:83:VAL:HG13	1:6:109:GLN:HG3	1.83	0.61
1:C:419:PHE:CZ	1:I:351:PHE:CB	2.83	0.61
1:D:351:PHE:CB	1:c:419:PHE:CZ	2.84	0.61
1:D:417:ARG:HB2	1:L:353:ALA:HB3	1.82	0.61
1:E:152:ASN:HD22	1:d:263:LEU:CD1	2.14	0.61
1:E:417:ARG:HB2	1:M:353:ALA:HB3	1.82	0.61
1:H:263:LEU:CD1	1:K:152:ASN:HD22	2.14	0.61
1:I:453:PHE:CZ	1:K:350:ASN:ND2	2.68	0.61
1:J:453:PHE:CZ	1:3:350:ASN:ND2	2.68	0.61
1:L:263:LEU:CD1	1:6:152:ASN:HD22	2.14	0.61
1:L:431:GLN:O	1:c:444:ARG:HD2	1.99	0.61
1:M:263:LEU:CD1	1:r:152:ASN:HD22	2.14	0.61
1:P:263:LEU:CD1	1:T:152:ASN:HD22	2.14	0.61
1:P:417:ARG:HB2	1:R:353:ALA:HB3	1.82	0.61
1:Q:453:PHE:CZ	1:T:350:ASN:ND2	2.68	0.61
1:S:453:PHE:CZ	1:n:350:ASN:ND2	2.68	0.61
1:T:323:THR:HG23	1:T:331:VAL:HG12	1.82	0.61
1:T:453:PHE:CZ	1:V:350:ASN:ND2	2.68	0.61
1:Y:351:PHE:CB	1:a:419:PHE:CZ	2.84	0.61
1:h:353:ALA:HB3	1:w:417:ARG:HB2	1.82	0.61
1:i:483:HIS:NE2	1:n:462:PHE:C	2.58	0.61
1:j:83:VAL:HG13	1:j:109:GLN:HG3	1.83	0.61
1:m:323:THR:HG23	1:m:331:VAL:HG12	1.82	0.61
1:m:350:ASN:ND2	1:x:453:PHE:CZ	2.68	0.61
1:u:419:PHE:CZ	1:4:351:PHE:CG	2.88	0.61
1:y:462:PHE:C	1:5:483:HIS:NE2	2.58	0.61
1:A:419:PHE:CZ	1:P:351:PHE:CB	2.83	0.60
1:B:323:THR:HG23	1:B:331:VAL:HG12	1.81	0.60
1:B:419:PHE:CZ	1:F:351:PHE:CB	2.84	0.60
1:C:263:LEU:CD1	1:F:152:ASN:HD22	2.14	0.60
1:G:263:LEU:CD1	1:U:152:ASN:HD22	2.14	0.60
1:G:572:PRO:HG2	1:a:252:PHE:CE1	2.35	0.60
1:I:419:PHE:CZ	1:K:351:PHE:CG	2.88	0.60
1:M:323:THR:HG23	1:M:331:VAL:HG12	1.81	0.60
1:O:572:PRO:HG2	1:c:252:PHE:CE1	2.35	0.60
1:P:83:VAL:HG13	1:P:109:GLN:HG3	1.83	0.60
1:S:152:ASN:HD22	1:h:263:LEU:CD1	2.14	0.60
1:S:572:PRO:HG2	1:h:252:PHE:CE1	2.36	0.60
1:U:83:VAL:HG13	1:U:109:GLN:HG3	1.83	0.60
1:W:152:ASN:HD22	1:z:263:LEU:CD1	2.14	0.60
1:X:252:PHE:CE1	1:2:572:PRO:HG2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:83:VAL:HG13	1:Y:109:GLN:HG3	1.83	0.60
1:Z:152:ASN:HD22	1:f:263:LEU:CD1	2.14	0.60
1:b:263:LEU:CD1	1:8:152:ASN:HD22	2.14	0.60
1:b:462:PHE:C	1:6:483:HIS:NE2	2.58	0.60
1:c:83:VAL:HG13	1:c:109:GLN:HG3	1.83	0.60
1:g:419:PHE:CZ	1:u:351:PHE:CB	2.83	0.60
1:l:462:PHE:C	1:w:483:HIS:NE2	2.58	0.60
1:n:263:LEU:CD1	1:w:152:ASN:HD22	2.14	0.60
1:t:572:PRO:HG2	1:3:252:PHE:CE1	2.35	0.60
1:u:453:PHE:CZ	1:4:350:ASN:ND2	2.68	0.60
1:y:351:PHE:CB	1:1:419:PHE:CZ	2.84	0.60
1:3:419:PHE:CZ	1:7:351:PHE:CB	2.84	0.60
1:A:252:PHE:CE1	1:M:572:PRO:HG2	2.35	0.60
1:A:351:PHE:CB	1:R:419:PHE:CZ	2.83	0.60
1:C:462:PHE:C	1:I:483:HIS:NE2	2.58	0.60
1:F:83:VAL:HG13	1:F:109:GLN:HG3	1.83	0.60
1:F:252:PHE:CE1	1:X:572:PRO:HG2	2.35	0.60
1:F:417:ARG:HB2	1:H:353:ALA:HB3	1.82	0.60
1:F:462:PHE:C	1:H:483:HIS:NE2	2.58	0.60
1:G:83:VAL:HG13	1:G:109:GLN:HG3	1.83	0.60
1:J:572:PRO:HG2	1:o:252:PHE:CE1	2.36	0.60
1:M:252:PHE:CE1	1:r:572:PRO:HG2	2.36	0.60
1:M:417:ARG:HB2	1:O:353:ALA:HB3	1.82	0.60
1:P:462:PHE:C	1:R:483:HIS:NE2	2.58	0.60
1:S:83:VAL:HG13	1:S:109:GLN:HG3	1.83	0.60
1:W:483:HIS:NE2	1:f:462:PHE:C	2.58	0.60
1:a:350:ASN:ND2	1:2:453:PHE:CZ	2.68	0.60
1:g:462:PHE:C	1:u:483:HIS:NE2	2.58	0.60
1:h:323:THR:HG23	1:h:331:VAL:HG12	1.81	0.60
1:i:351:PHE:CB	1:n:419:PHE:CZ	2.84	0.60
1:j:453:PHE:CZ	1:q:350:ASN:ND2	2.69	0.60
1:j:462:PHE:C	1:q:483:HIS:NE2	2.58	0.60
1:k:417:ARG:HB2	1:z:353:ALA:HB3	1.82	0.60
1:m:319:ARG:NH2	1:p:105:ASP:OD2	2.31	0.60
1:s:83:VAL:HG13	1:s:109:GLN:HG3	1.83	0.60
1:s:152:ASN:HD22	1:t:263:LEU:CD1	2.14	0.60
1:s:483:HIS:NE2	1:6:462:PHE:C	2.58	0.60
1:y:83:VAL:HG13	1:y:109:GLN:HG3	1.83	0.60
1:1:323:THR:HG23	1:1:331:VAL:HG12	1.81	0.60
1:D:350:ASN:ND2	1:c:453:PHE:CZ	2.68	0.60
1:D:353:ALA:HB3	1:c:417:ARG:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:483:HIS:NE2	1:O:462:PHE:C	2.58	0.60
1:G:193:THR:H	1:G:502:GLN:HE22	1.50	0.60
1:J:417:ARG:HB2	1:3:353:ALA:HB3	1.82	0.60
1:L:419:PHE:CZ	1:c:351:PHE:CB	2.84	0.60
1:N:351:PHE:CB	1:d:419:PHE:CZ	2.84	0.60
1:P:453:PHE:CZ	1:R:350:ASN:ND2	2.69	0.60
1:Q:462:PHE:C	1:T:483:HIS:NE2	2.58	0.60
1:T:319:ARG:NH2	1:V:105:ASP:OD2	2.31	0.60
1:U:483:HIS:NE2	1:W:462:PHE:C	2.58	0.60
1:X:323:THR:HG23	1:X:331:VAL:HG12	1.81	0.60
1:e:252:PHE:CE1	1:l:572:PRO:HG2	2.35	0.60
1:e:351:PHE:CB	1:z:419:PHE:CZ	2.84	0.60
1:g:263:LEU:CD1	1:y:152:ASN:HD22	2.14	0.60
1:h:417:ARG:HB2	1:l:353:ALA:HB3	1.82	0.60
1:h:572:PRO:HG2	1:v:252:PHE:CE1	2.35	0.60
1:k:462:PHE:C	1:z:483:HIS:NE2	2.58	0.60
1:o:323:THR:HG23	1:o:331:VAL:HG12	1.81	0.60
1:r:83:VAL:HG13	1:r:109:GLN:HG3	1.83	0.60
1:t:83:VAL:HG13	1:t:109:GLN:HG3	1.83	0.60
1:t:193:THR:H	1:t:502:GLN:HE22	1.50	0.60
1:w:252:PHE:CE1	1:z:572:PRO:HG2	2.36	0.60
1:y:417:ARG:HB2	1:5:353:ALA:HB3	1.82	0.60
1:7:83:VAL:HG13	1:7:109:GLN:HG3	1.83	0.60
1:7:193:THR:H	1:7:502:GLN:HE22	1.50	0.60
1:B:351:PHE:CB	1:H:419:PHE:CZ	2.84	0.60
1:D:83:VAL:HG13	1:D:109:GLN:HG3	1.83	0.60
1:D:462:PHE:C	1:L:483:HIS:NE2	2.58	0.60
1:E:83:VAL:HG13	1:E:109:GLN:HG3	1.83	0.60
1:E:252:PHE:CE1	1:L:572:PRO:HG2	2.36	0.60
1:G:351:PHE:CB	1:Z:419:PHE:CZ	2.84	0.60
1:N:453:PHE:CZ	1:r:350:ASN:ND2	2.69	0.60
1:S:350:ASN:ND2	1:i:453:PHE:CZ	2.69	0.60
1:U:462:PHE:C	1:f:483:HIS:NE2	2.58	0.60
1:V:323:THR:HG23	1:V:331:VAL:HG12	1.82	0.60
1:X:83:VAL:HG13	1:X:109:GLN:HG3	1.83	0.60
1:X:417:ARG:HB2	1:Z:353:ALA:HB3	1.82	0.60
1:Y:193:THR:H	1:Y:502:GLN:HE22	1.50	0.60
1:Y:323:THR:HG23	1:Y:331:VAL:HG12	1.81	0.60
1:b:252:PHE:CE1	1:8:572:PRO:HG2	2.35	0.60
1:d:193:THR:H	1:d:502:GLN:HE22	1.50	0.60
1:e:453:PHE:CZ	1:k:350:ASN:ND2	2.68	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:351:PHE:CB	1:v:419:PHE:CZ	2.84	0.60
1:k:83:VAL:HG13	1:k:109:GLN:HG3	1.83	0.60
1:m:417:ARG:HB2	1:p:353:ALA:HB3	1.82	0.60
1:m:483:HIS:NE2	1:x:462:PHE:C	2.58	0.60
1:n:193:THR:H	1:n:502:GLN:HE22	1.50	0.60
1:o:83:VAL:HG13	1:o:109:GLN:HG3	1.83	0.60
1:o:417:ARG:HB2	1:8:353:ALA:HB3	1.82	0.60
1:o:572:PRO:HG2	1:y:252:PHE:CE1	2.35	0.60
1:q:419:PHE:CZ	1:v:351:PHE:CB	2.84	0.60
1:t:351:PHE:CB	1:8:419:PHE:CZ	2.84	0.60
1:w:83:VAL:HG13	1:w:109:GLN:HG3	1.83	0.60
1:x:83:VAL:HG13	1:x:109:GLN:HG3	1.83	0.60
1:1:351:PHE:CB	1:5:419:PHE:CZ	2.84	0.60
1:7:323:THR:HG23	1:7:331:VAL:HG12	1.81	0.60
1:A:102:ALA:CB	1:R:427:ILE:HD13	2.30	0.60
1:A:427:ILE:HD13	1:P:102:ALA:CB	2.30	0.60
1:E:462:PHE:C	1:M:483:HIS:NE2	2.58	0.60
1:G:105:ASP:OD2	1:Z:319:ARG:NH2	2.31	0.60
1:I:252:PHE:CE1	1:3:572:PRO:HG2	2.35	0.60
1:J:48:ASN:ND2	1:J:67:SER:H	2.00	0.60
1:J:252:PHE:CE1	1:Y:572:PRO:HG2	2.35	0.60
1:M:48:ASN:ND2	1:M:67:SER:H	2.00	0.60
1:Q:83:VAL:HG13	1:Q:109:GLN:HG3	1.83	0.60
1:T:83:VAL:HG13	1:T:109:GLN:HG3	1.83	0.60
1:T:417:ARG:HB2	1:V:353:ALA:HB3	1.82	0.60
1:a:353:ALA:HB3	1:2:417:ARG:HB2	1.82	0.60
1:a:572:PRO:HG2	1:u:252:PHE:CE1	2.35	0.60
1:b:572:PRO:HG2	1:m:252:PHE:CE1	2.35	0.60
1:e:417:ARG:HB2	1:k:353:ALA:HB3	1.82	0.60
1:h:48:ASN:ND2	1:h:67:SER:H	2.00	0.60
1:h:483:HIS:NE2	1:w:462:PHE:C	2.58	0.60
1:l:252:PHE:CE1	1:q:572:PRO:HG2	2.36	0.60
1:m:83:VAL:HG13	1:m:109:GLN:HG3	1.83	0.60
1:p:323:THR:HG23	1:p:331:VAL:HG12	1.82	0.60
1:2:48:ASN:ND2	1:2:67:SER:H	2.00	0.60
1:H:83:VAL:HG13	1:H:109:GLN:HG3	1.83	0.60
1:H:252:PHE:CE1	1:K:572:PRO:HG2	2.36	0.60
1:N:591:MET:CE	1:r:191:PRO:HG3	2.09	0.60
1:O:252:PHE:CE1	1:R:572:PRO:HG2	2.36	0.60
1:R:323:THR:HG23	1:R:331:VAL:HG12	1.81	0.60
1:T:252:PHE:CE1	1:f:572:PRO:HG2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:351:PHE:CB	1:W:419:PHE:CZ	2.84	0.60
1:U:353:ALA:HB3	1:W:417:ARG:HB2	1.82	0.60
1:Z:48:ASN:ND2	1:Z:67:SER:H	2.00	0.60
1:Z:83:VAL:HG13	1:Z:109:GLN:HG3	1.83	0.60
1:Z:572:PRO:HG2	1:f:252:PHE:CE1	2.35	0.60
1:a:48:ASN:ND2	1:a:67:SER:H	2.00	0.60
1:a:193:THR:H	1:a:502:GLN:HE22	1.50	0.60
1:b:48:ASN:ND2	1:b:67:SER:H	2.00	0.60
1:b:483:HIS:NE2	1:s:462:PHE:C	2.58	0.60
1:f:48:ASN:ND2	1:f:67:SER:H	2.00	0.60
1:q:427:ILE:HD13	1:v:102:ALA:CB	2.30	0.60
1:s:351:PHE:CB	1:6:419:PHE:CZ	2.84	0.60
1:s:353:ALA:HB3	1:6:417:ARG:HB2	1.82	0.60
1:2:252:PHE:CE1	1:7:572:PRO:HG2	2.35	0.60
1:3:48:ASN:ND2	1:3:67:SER:H	2.00	0.60
1:5:83:VAL:HG13	1:5:109:GLN:HG3	1.83	0.60
1:8:48:ASN:ND2	1:8:67:SER:H	2.00	0.60
1:8:83:VAL:HG13	1:8:109:GLN:HG3	1.83	0.60
1:B:152:ASN:HD22	1:Z:263:LEU:CD1	2.14	0.60
1:B:193:THR:H	1:B:502:GLN:HE22	1.50	0.60
1:C:48:ASN:ND2	1:C:67:SER:H	2.00	0.60
1:D:48:ASN:ND2	1:D:67:SER:H	2.00	0.60
1:F:427:ILE:HD13	1:H:102:ALA:CB	2.30	0.60
1:L:48:ASN:ND2	1:L:67:SER:H	2.00	0.60
1:M:427:ILE:HD13	1:O:102:ALA:CB	2.30	0.60
1:Q:152:ASN:HD22	1:W:263:LEU:CD1	2.14	0.60
1:R:193:THR:H	1:R:502:GLN:HE22	1.50	0.60
1:Y:252:PHE:CE1	1:g:572:PRO:HG2	2.36	0.60
1:c:48:ASN:ND2	1:c:67:SER:H	2.00	0.60
1:g:48:ASN:ND2	1:g:67:SER:H	2.00	0.60
1:g:83:VAL:HG13	1:g:109:GLN:HG3	1.83	0.60
1:h:427:ILE:HD13	1:l:102:ALA:CB	2.30	0.60
1:j:102:ALA:CB	1:v:427:ILE:HD13	2.30	0.60
1:k:48:ASN:ND2	1:k:67:SER:H	2.00	0.60
1:q:323:THR:HG23	1:q:331:VAL:HG12	1.81	0.60
1:z:48:ASN:ND2	1:z:67:SER:H	2.00	0.60
1:3:193:THR:H	1:3:502:GLN:HE22	1.50	0.60
1:4:572:PRO:HG2	1:5:252:PHE:CE1	2.36	0.60
1:C:572:PRO:HG2	1:7:252:PHE:CE1	2.36	0.60
1:G:102:ALA:CB	1:Z:427:ILE:HD13	2.30	0.60
1:M:83:VAL:HG13	1:M:109:GLN:HG3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:191:PRO:HG3	1:i:591:MET:CE	2.09	0.60
1:Y:353:ALA:HB3	1:a:417:ARG:HB2	1.82	0.60
1:e:48:ASN:ND2	1:e:67:SER:H	2.00	0.60
1:h:83:VAL:HG13	1:h:109:GLN:HG3	1.83	0.60
1:h:591:MET:CE	1:l:191:PRO:HG3	2.09	0.60
1:q:193:THR:H	1:q:502:GLN:HE22	1.50	0.60
1:t:105:ASP:OD2	1:8:319:ARG:NH2	2.31	0.60
1:w:193:THR:H	1:w:502:GLN:HE22	1.50	0.60
1:x:152:ASN:HD22	1:6:263:LEU:CD1	2.14	0.60
1:y:427:ILE:HD13	1:5:102:ALA:CB	2.30	0.60
1:1:193:THR:H	1:1:502:GLN:HE22	1.50	0.60
1:4:193:THR:H	1:4:502:GLN:HE22	1.50	0.60
1:C:83:VAL:HG13	1:C:109:GLN:HG3	1.83	0.60
1:K:193:THR:H	1:K:502:GLN:HE22	1.50	0.60
1:P:319:ARG:NH2	1:R:105:ASP:OD2	2.31	0.60
1:P:427:ILE:HD13	1:R:102:ALA:CB	2.30	0.60
1:V:83:VAL:HG13	1:V:109:GLN:HG3	1.83	0.60
1:n:83:VAL:HG13	1:n:109:GLN:HG3	1.83	0.60
1:p:263:LEU:CD1	1:v:152:ASN:HD22	2.14	0.60
1:1:48:ASN:ND2	1:1:67:SER:H	2.00	0.60
1:1:152:ASN:HD22	1:8:263:LEU:CD1	2.14	0.60
1:3:417:ARG:HB2	1:7:353:ALA:HB3	1.82	0.60
1:A:83:VAL:HG13	1:A:109:GLN:HG3	1.83	0.60
1:B:48:ASN:ND2	1:B:67:SER:H	2.00	0.60
1:E:193:THR:H	1:E:502:GLN:HE22	1.50	0.60
1:d:42:SER:HG	1:x:265:ARG:HG3	1.66	0.60
1:d:83:VAL:HG13	1:d:109:GLN:HG3	1.83	0.60
1:d:105:ASP:OD2	1:r:319:ARG:NH2	2.31	0.60
1:j:319:ARG:NH2	1:q:105:ASP:OD2	2.31	0.60
1:j:427:ILE:HD13	1:q:102:ALA:CB	2.30	0.60
1:p:83:VAL:HG13	1:p:109:GLN:HG3	1.83	0.60
1:s:48:ASN:ND2	1:s:67:SER:H	2.00	0.60
1:t:102:ALA:CB	1:8:427:ILE:HD13	2.30	0.60
1:u:193:THR:H	1:u:502:GLN:HE22	1.50	0.60
1:u:319:ARG:NH2	1:4:105:ASP:OD2	2.31	0.60
1:v:83:VAL:HG13	1:v:109:GLN:HG3	1.83	0.60
1:y:591:MET:CE	1:5:191:PRO:HG3	2.09	0.60
1:B:353:ALA:HB3	1:H:417:ARG:HB2	1.82	0.59
1:G:427:ILE:HD13	1:X:102:ALA:CB	2.30	0.59
1:H:572:PRO:HG2	1:R:252:PHE:CE1	2.35	0.59
1:I:193:THR:H	1:I:502:GLN:HE22	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:319:ARG:NH2	1:K:105:ASP:OD2	2.31	0.59
1:N:48:ASN:ND2	1:N:67:SER:H	2.00	0.59
1:O:83:VAL:HG13	1:O:109:GLN:HG3	1.83	0.59
1:P:264:LEU:HD11	1:P:270:PHE:HB2	1.84	0.59
1:S:319:ARG:NH2	1:n:105:ASP:OD2	2.31	0.59
1:U:48:ASN:ND2	1:U:67:SER:H	2.00	0.59
1:V:48:ASN:ND2	1:V:67:SER:H	2.00	0.59
1:i:152:ASN:HD22	1:r:263:LEU:CD1	2.14	0.59
1:j:264:LEU:HD11	1:j:270:PHE:HB2	1.84	0.59
1:m:193:THR:H	1:m:502:GLN:HE22	1.50	0.59
1:p:48:ASN:ND2	1:p:67:SER:H	2.00	0.59
1:1:353:ALA:HB3	1:5:417:ARG:HB2	1.82	0.59
1:3:83:VAL:HG13	1:3:109:GLN:HG3	1.83	0.59
1:5:193:THR:H	1:5:502:GLN:HE22	1.50	0.59
1:A:152:ASN:HD22	1:V:263:LEU:CD1	2.14	0.59
1:A:462:PHE:O	1:P:483:HIS:CD2	2.55	0.59
1:B:427:ILE:HD13	1:F:102:ALA:CB	2.30	0.59
1:H:193:THR:H	1:H:502:GLN:HE22	1.50	0.59
1:O:263:LEU:CD1	1:R:152:ASN:HD22	2.14	0.59
1:X:48:ASN:ND2	1:X:67:SER:H	2.00	0.59
1:i:48:ASN:ND2	1:i:67:SER:H	2.00	0.59
1:o:48:ASN:ND2	1:o:67:SER:H	2.00	0.59
1:o:102:ALA:CB	1:t:427:ILE:HD13	2.30	0.59
1:q:83:VAL:HG13	1:q:109:GLN:HG3	1.83	0.59
1:q:252:PHE:CE1	1:5:572:PRO:HG2	2.35	0.59
1:v:193:THR:H	1:v:502:GLN:HE22	1.50	0.59
1:w:48:ASN:ND2	1:w:67:SER:H	2.00	0.59
1:A:193:THR:H	1:A:502:GLN:HE22	1.50	0.59
1:A:483:HIS:CD2	1:R:462:PHE:O	2.55	0.59
1:C:427:ILE:HD13	1:I:102:ALA:CB	2.30	0.59
1:E:48:ASN:ND2	1:E:67:SER:H	2.00	0.59
1:G:48:ASN:ND2	1:G:67:SER:H	2.00	0.59
1:L:83:VAL:HG13	1:L:109:GLN:HG3	1.83	0.59
1:N:152:ASN:HD22	1:S:263:LEU:CD1	2.14	0.59
1:Q:48:ASN:ND2	1:Q:67:SER:H	2.00	0.59
1:R:83:VAL:HG13	1:R:109:GLN:HG3	1.83	0.59
1:T:193:THR:H	1:T:502:GLN:HE22	1.50	0.59
1:U:462:PHE:O	1:f:483:HIS:CD2	2.56	0.59
1:W:193:THR:H	1:W:502:GLN:HE22	1.50	0.59
1:a:83:VAL:HG13	1:a:109:GLN:HG3	1.83	0.59
1:b:483:HIS:CD2	1:s:462:PHE:O	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:193:THR:H	1:i:502:GLN:HE22	1.50	0.59
1:l:83:VAL:HG13	1:l:109:GLN:HG3	1.83	0.59
1:l:263:LEU:CD1	1:q:152:ASN:HD22	2.14	0.59
1:n:264:LEU:HD11	1:n:270:PHE:HB2	1.84	0.59
1:t:48:ASN:ND2	1:t:67:SER:H	2.00	0.59
1:x:48:ASN:ND2	1:x:67:SER:H	2.00	0.59
1:E:102:ALA:CB	1:O:427:ILE:HD13	2.30	0.59
1:E:264:LEU:HD11	1:E:270:PHE:HB2	1.84	0.59
1:F:319:ARG:NH2	1:H:105:ASP:OD2	2.31	0.59
1:F:591:MET:CE	1:H:191:PRO:HG3	2.09	0.59
1:G:462:PHE:O	1:X:483:HIS:CD2	2.56	0.59
1:K:48:ASN:ND2	1:K:67:SER:H	2.00	0.59
1:N:105:ASP:OD2	1:d:319:ARG:NH2	2.31	0.59
1:N:193:THR:H	1:N:502:GLN:HE22	1.50	0.59
1:W:483:HIS:CD2	1:f:462:PHE:O	2.56	0.59
1:X:193:THR:H	1:X:502:GLN:HE22	1.50	0.59
1:d:264:LEU:HD11	1:d:270:PHE:HB2	1.84	0.59
1:h:193:THR:H	1:h:502:GLN:HE22	1.50	0.59
1:o:193:THR:H	1:o:502:GLN:HE22	1.50	0.59
1:o:483:HIS:CD2	1:t:462:PHE:O	2.56	0.59
1:p:462:PHE:O	1:x:483:HIS:CD2	2.56	0.59
1:y:102:ALA:CB	1:1:427:ILE:HD13	2.30	0.59
1:y:319:ARG:NH2	1:5:105:ASP:OD2	2.31	0.59
1:z:83:VAL:HG13	1:z:109:GLN:HG3	1.83	0.59
1:4:48:ASN:ND2	1:4:67:SER:H	2.00	0.59
1:6:193:THR:H	1:6:502:GLN:HE22	1.50	0.59
1:B:483:HIS:CD2	1:H:462:PHE:O	2.56	0.59
1:B:554:GLN:HG2	1:X:132:GLN:NE2	2.18	0.59
1:G:319:ARG:NH2	1:X:105:ASP:OD2	2.31	0.59
1:M:193:THR:H	1:M:502:GLN:HE22	1.50	0.59
1:N:444:ARG:HB2	1:N:447:MET:HB2	1.85	0.59
1:N:483:HIS:ND1	1:d:486:ARG:NH2	2.51	0.59
1:Q:264:LEU:HD11	1:Q:270:PHE:HB2	1.84	0.59
1:Q:483:HIS:CD2	1:V:462:PHE:O	2.56	0.59
1:Q:483:HIS:ND1	1:V:486:ARG:NH2	2.51	0.59
1:Q:572:PRO:HG2	1:W:252:PHE:CE1	2.36	0.59
1:S:105:ASP:OD2	1:i:319:ARG:NH2	2.31	0.59
1:S:444:ARG:HB2	1:S:447:MET:HB2	1.85	0.59
1:b:462:PHE:O	1:6:483:HIS:CD2	2.56	0.59
1:g:427:ILE:HD13	1:u:102:ALA:CB	2.30	0.59
1:h:486:ARG:NH2	1:l:483:HIS:ND1	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:444:ARG:HB2	1:i:447:MET:HB2	1.85	0.59
1:i:483:HIS:ND1	1:n:486:ARG:NH2	2.51	0.59
1:m:554:GLN:HG2	1:v:132:GLN:NE2	2.18	0.59
1:o:132:GLN:NE2	1:1:554:GLN:HG2	2.18	0.59
1:q:264:LEU:HD11	1:q:270:PHE:HB2	1.84	0.59
1:r:444:ARG:HB2	1:r:447:MET:HB2	1.85	0.59
1:s:193:THR:H	1:s:502:GLN:HE22	1.50	0.59
1:w:264:LEU:HD11	1:w:270:PHE:HB2	1.84	0.59
1:x:572:PRO:HG2	1:6:252:PHE:CE1	2.36	0.59
1:y:191:PRO:HG3	1:1:591:MET:CE	2.09	0.59
1:y:483:HIS:CD2	1:1:462:PHE:O	2.56	0.59
1:1:483:HIS:CD2	1:5:462:PHE:O	2.56	0.59
1:B:462:PHE:O	1:F:483:HIS:CD2	2.56	0.59
1:E:368:ILE:HG22	1:E:374:HIS:HA	1.85	0.59
1:E:483:HIS:CD2	1:O:462:PHE:O	2.56	0.59
1:I:83:VAL:HG13	1:I:109:GLN:HG3	1.83	0.59
1:J:368:ILE:HG22	1:J:374:HIS:HA	1.85	0.59
1:J:462:PHE:O	1:3:483:HIS:CD2	2.56	0.59
1:M:486:ARG:NH2	1:O:483:HIS:ND1	2.51	0.59
1:O:48:ASN:ND2	1:O:67:SER:H	2.00	0.59
1:R:264:LEU:HD11	1:R:270:PHE:HB2	1.84	0.59
1:S:48:ASN:ND2	1:S:67:SER:H	2.00	0.59
1:U:193:THR:H	1:U:502:GLN:HE22	1.50	0.59
1:U:483:HIS:CD2	1:W:462:PHE:O	2.56	0.59
1:U:554:GLN:HG2	1:Z:132:GLN:NE2	2.18	0.59
1:V:152:ASN:HD22	1:i:263:LEU:CD1	2.14	0.59
1:W:191:PRO:HG3	1:f:591:MET:CE	2.09	0.59
1:Y:554:GLN:HG2	1:7:132:GLN:NE2	2.18	0.59
1:Z:193:THR:H	1:Z:502:GLN:HE22	1.50	0.59
1:Z:368:ILE:HG22	1:Z:374:HIS:HA	1.85	0.59
1:c:368:ILE:HG22	1:c:374:HIS:HA	1.85	0.59
1:k:462:PHE:O	1:z:483:HIS:CD2	2.56	0.59
1:l:48:ASN:ND2	1:l:67:SER:H	2.00	0.59
1:l:462:PHE:O	1:w:483:HIS:CD2	2.56	0.59
1:p:486:ARG:NH2	1:x:483:HIS:ND1	2.51	0.59
1:q:462:PHE:O	1:v:483:HIS:CD2	2.56	0.59
1:r:48:ASN:ND2	1:r:67:SER:H	2.00	0.59
1:s:554:GLN:HG2	1:8:132:GLN:NE2	2.18	0.59
1:x:264:LEU:HD11	1:x:270:PHE:HB2	1.84	0.59
1:2:193:THR:H	1:2:502:GLN:HE22	1.50	0.59
1:8:193:THR:H	1:8:502:GLN:HE22	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:105:ASP:OD2	1:R:319:ARG:NH2	2.31	0.59
1:D:462:PHE:O	1:L:483:HIS:CD2	2.56	0.59
1:D:486:ARG:NH2	1:L:483:HIS:ND1	2.51	0.59
1:D:554:GLN:HG2	1:6:132:GLN:NE2	2.18	0.59
1:F:300:ILE:CG2	1:H:109:GLN:HE22	2.03	0.59
1:F:444:ARG:HB2	1:F:447:MET:HB2	1.85	0.59
1:I:263:LEU:CD1	1:3:152:ASN:HD22	2.14	0.59
1:J:193:THR:H	1:J:502:GLN:HE22	1.50	0.59
1:N:486:ARG:NH2	1:r:483:HIS:ND1	2.51	0.59
1:Q:368:ILE:HG22	1:Q:374:HIS:HA	1.85	0.59
1:S:368:ILE:HG22	1:S:374:HIS:HA	1.85	0.59
1:S:486:ARG:NH2	1:n:483:HIS:ND1	2.51	0.59
1:T:462:PHE:O	1:V:483:HIS:CD2	2.56	0.59
1:W:132:GLN:NE2	1:k:554:GLN:HG2	2.18	0.59
1:W:368:ILE:HG22	1:W:374:HIS:HA	1.85	0.59
1:W:444:ARG:HB2	1:W:447:MET:HB2	1.85	0.59
1:Y:132:GLN:NE2	1:7:554:GLN:HG2	2.18	0.59
1:a:483:HIS:CD2	1:2:462:PHE:O	2.56	0.59
1:d:368:ILE:HG22	1:d:374:HIS:HA	1.85	0.59
1:e:368:ILE:HG22	1:e:374:HIS:HA	1.85	0.59
1:g:486:ARG:NH2	1:u:483:HIS:ND1	2.51	0.59
1:i:105:ASP:OD2	1:n:319:ARG:NH2	2.31	0.59
1:j:483:HIS:CD2	1:v:462:PHE:O	2.56	0.59
1:l:427:ILE:HD13	1:w:102:ALA:CB	2.30	0.59
1:q:48:ASN:ND2	1:q:67:SER:H	2.00	0.59
1:q:319:ARG:NH2	1:v:105:ASP:OD2	2.31	0.59
1:r:368:ILE:HG22	1:r:374:HIS:HA	1.85	0.59
1:s:483:HIS:CD2	1:6:462:PHE:O	2.56	0.59
1:t:483:HIS:ND1	1:8:486:ARG:NH2	2.51	0.59
1:u:83:VAL:HG13	1:u:109:GLN:HG3	1.83	0.59
1:u:368:ILE:HG22	1:u:374:HIS:HA	1.85	0.59
1:w:368:ILE:HG22	1:w:374:HIS:HA	1.85	0.59
1:x:368:ILE:HG22	1:x:374:HIS:HA	1.85	0.59
1:y:444:ARG:HB2	1:y:447:MET:HB2	1.85	0.59
1:2:368:ILE:HG22	1:2:374:HIS:HA	1.85	0.59
1:6:48:ASN:ND2	1:6:67:SER:H	2.00	0.59
1:6:368:ILE:HG22	1:6:374:HIS:HA	1.85	0.59
1:6:444:ARG:HB2	1:6:447:MET:HB2	1.85	0.59
1:8:368:ILE:HG22	1:8:374:HIS:HA	1.85	0.59
1:A:132:GLN:NE2	1:T:554:GLN:HG2	2.18	0.59
1:B:83:VAL:HG13	1:B:109:GLN:HG3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:ARG:NH2	1:F:483:HIS:ND1	2.51	0.59
1:C:264:LEU:HD11	1:C:270:PHE:HB2	1.84	0.59
1:C:486:ARG:NH2	1:I:483:HIS:ND1	2.51	0.59
1:D:132:GLN:NE2	1:6:554:GLN:HG2	2.18	0.59
1:D:444:ARG:HB2	1:D:447:MET:HB2	1.85	0.59
1:G:444:ARG:HB2	1:G:447:MET:HB2	1.85	0.59
1:G:483:HIS:ND1	1:Z:486:ARG:NH2	2.51	0.59
1:I:368:ILE:HG22	1:I:374:HIS:HA	1.85	0.59
1:J:444:ARG:HB2	1:J:447:MET:HB2	1.85	0.59
1:L:132:GLN:NE2	1:O:554:GLN:HG2	2.18	0.59
1:M:132:GLN:NE2	1:R:554:GLN:HG2	2.18	0.59
1:M:462:PHE:O	1:O:483:HIS:CD2	2.56	0.59
1:N:263:LEU:CD1	1:p:152:ASN:HD22	2.14	0.59
1:N:319:ARG:NH2	1:r:105:ASP:OD2	2.31	0.59
1:P:486:ARG:NH2	1:R:483:HIS:ND1	2.51	0.59
1:S:483:HIS:ND1	1:i:486:ARG:NH2	2.51	0.59
1:T:486:ARG:NH2	1:V:483:HIS:ND1	2.51	0.59
1:W:48:ASN:ND2	1:W:67:SER:H	2.00	0.59
1:Y:48:ASN:ND2	1:Y:67:SER:H	2.00	0.59
1:a:152:ASN:HD22	1:u:263:LEU:CD1	2.14	0.59
1:b:591:MET:CE	1:6:191:PRO:HG3	2.09	0.59
1:d:483:HIS:ND1	1:r:486:ARG:NH2	2.51	0.59
1:g:264:LEU:HD11	1:g:270:PHE:HB2	1.84	0.59
1:h:132:GLN:NE2	1:q:554:GLN:HG2	2.18	0.59
1:h:462:PHE:O	1:l:483:HIS:CD2	2.56	0.59
1:j:483:HIS:ND1	1:v:486:ARG:NH2	2.51	0.59
1:j:486:ARG:NH2	1:q:483:HIS:ND1	2.51	0.59
1:k:486:ARG:NH2	1:z:483:HIS:ND1	2.51	0.59
1:m:462:PHE:O	1:p:483:HIS:CD2	2.56	0.59
1:n:48:ASN:ND2	1:n:67:SER:H	2.00	0.59
1:n:368:ILE:HG22	1:n:374:HIS:HA	1.85	0.59
1:o:105:ASP:OD2	1:t:319:ARG:NH2	2.31	0.59
1:t:444:ARG:HB2	1:t:447:MET:HB2	1.85	0.59
1:u:444:ARG:HB2	1:u:447:MET:HB2	1.85	0.59
1:v:48:ASN:ND2	1:v:67:SER:H	2.00	0.59
1:y:300:ILE:CG2	1:5:109:GLN:HE22	2.03	0.59
1:y:462:PHE:O	1:5:483:HIS:CD2	2.56	0.59
1:y:483:HIS:ND1	1:1:486:ARG:NH2	2.51	0.59
1:y:554:GLN:HG2	1:4:132:GLN:NE2	2.18	0.59
1:A:48:ASN:ND2	1:A:67:SER:H	2.00	0.59
1:C:193:THR:H	1:C:502:GLN:HE22	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:483:HIS:ND1	1:K:486:ARG:NH2	2.51	0.59
1:E:300:ILE:CG2	1:M:109:GLN:HE22	2.03	0.59
1:F:462:PHE:O	1:H:483:HIS:CD2	2.56	0.59
1:F:486:ARG:NH2	1:H:483:HIS:ND1	2.51	0.59
1:F:554:GLN:HG2	1:K:132:GLN:NE2	2.18	0.59
1:I:264:LEU:HD11	1:I:270:PHE:HB2	1.84	0.59
1:I:444:ARG:HB2	1:I:447:MET:HB2	1.85	0.59
1:Q:193:THR:H	1:Q:502:GLN:HE22	1.50	0.59
1:Q:444:ARG:HB2	1:Q:447:MET:HB2	1.85	0.59
1:Q:462:PHE:O	1:T:483:HIS:CD2	2.56	0.59
1:R:48:ASN:ND2	1:R:67:SER:H	2.00	0.59
1:W:554:GLN:HG2	1:k:132:GLN:NE2	2.18	0.59
1:W:556:THR:CG2	1:k:556:THR:CG2	2.68	0.59
1:b:102:ALA:CB	1:s:427:ILE:HD13	2.30	0.59
1:b:444:ARG:HB2	1:b:447:MET:HB2	1.85	0.59
1:d:48:ASN:ND2	1:d:67:SER:H	2.00	0.59
1:g:368:ILE:HG22	1:g:374:HIS:HA	1.85	0.59
1:g:483:HIS:ND1	1:4:486:ARG:NH2	2.51	0.59
1:j:105:ASP:OD2	1:v:319:ARG:NH2	2.31	0.59
1:k:444:ARG:HB2	1:k:447:MET:HB2	1.85	0.59
1:l:554:GLN:HG2	1:z:132:GLN:NE2	2.18	0.59
1:m:486:ARG:NH2	1:p:483:HIS:ND1	2.51	0.59
1:2:444:ARG:HB2	1:2:447:MET:HB2	1.85	0.59
1:A:486:ARG:NH2	1:P:483:HIS:ND1	2.51	0.59
1:C:368:ILE:HG22	1:C:374:HIS:HA	1.85	0.59
1:C:462:PHE:O	1:I:483:HIS:CD2	2.56	0.59
1:D:368:ILE:HG22	1:D:374:HIS:HA	1.85	0.59
1:F:368:ILE:HG22	1:F:374:HIS:HA	1.85	0.59
1:I:48:ASN:ND2	1:I:67:SER:H	2.00	0.59
1:I:554:GLN:HG2	1:c:132:GLN:NE2	2.18	0.59
1:N:83:VAL:HG13	1:N:109:GLN:HG3	1.83	0.59
1:O:152:ASN:HD22	1:c:263:LEU:CD1	2.14	0.59
1:b:368:ILE:HG22	1:b:374:HIS:HA	1.85	0.59
1:e:263:LEU:CD1	1:l:152:ASN:HD22	2.14	0.59
1:f:368:ILE:HG22	1:f:374:HIS:HA	1.85	0.59
1:f:444:ARG:HB2	1:f:447:MET:HB2	1.85	0.59
1:g:462:PHE:O	1:u:483:HIS:CD2	2.56	0.59
1:i:191:PRO:HG3	1:n:591:MET:CE	2.09	0.59
1:l:132:GLN:NE2	1:z:554:GLN:HG2	2.18	0.59
1:l:368:ILE:HG22	1:l:374:HIS:HA	1.85	0.59
1:m:48:ASN:ND2	1:m:67:SER:H	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:483:HIS:CD2	1:x:462:PHE:O	2.56	0.59
1:o:462:PHE:O	1:8:483:HIS:CD2	2.56	0.59
1:u:264:LEU:HD11	1:u:270:PHE:HB2	1.84	0.59
1:u:427:ILE:HD13	1:4:102:ALA:CB	2.30	0.59
1:x:444:ARG:HB2	1:x:447:MET:HB2	1.85	0.59
1:y:486:ARG:NH2	1:5:483:HIS:ND1	2.51	0.59
1:1:83:VAL:HG13	1:1:109:GLN:HG3	1.83	0.59
1:7:48:ASN:ND2	1:7:67:SER:H	2.00	0.59
1:B:444:ARG:HB2	1:B:447:MET:HB2	1.85	0.58
1:B:591:MET:CE	1:F:191:PRO:HG3	2.09	0.58
1:E:444:ARG:HB2	1:E:447:MET:HB2	1.85	0.58
1:G:554:GLN:HG2	1:2:132:GLN:NE2	2.18	0.58
1:H:444:ARG:HB2	1:H:447:MET:HB2	1.85	0.58
1:K:368:ILE:HG22	1:K:374:HIS:HA	1.85	0.58
1:L:264:LEU:HD11	1:L:270:PHE:HB2	1.84	0.58
1:L:554:GLN:HG2	1:O:132:GLN:NE2	2.18	0.58
1:O:368:ILE:HG22	1:O:374:HIS:HA	1.85	0.58
1:Q:102:ALA:CB	1:V:427:ILE:HD13	2.30	0.58
1:S:132:GLN:NE2	1:w:554:GLN:HG2	2.18	0.58
1:T:48:ASN:ND2	1:T:67:SER:H	2.00	0.58
1:W:483:HIS:ND1	1:f:486:ARG:NH2	2.51	0.58
1:Y:483:HIS:CD2	1:a:462:PHE:O	2.56	0.58
1:b:264:LEU:HD11	1:b:270:PHE:HB2	1.84	0.58
1:b:486:ARG:NH2	1:6:483:HIS:ND1	2.51	0.58
1:e:132:GLN:NE2	1:u:554:GLN:HG2	2.18	0.58
1:f:264:LEU:HD11	1:f:270:PHE:HB2	1.84	0.58
1:k:368:ILE:HG22	1:k:374:HIS:HA	1.85	0.58
1:u:48:ASN:ND2	1:u:67:SER:H	2.00	0.58
1:x:193:THR:H	1:x:502:GLN:HE22	1.50	0.58
1:y:368:ILE:HG22	1:y:374:HIS:HA	1.85	0.58
1:z:264:LEU:HD11	1:z:270:PHE:HB2	1.84	0.58
1:1:444:ARG:HB2	1:1:447:MET:HB2	1.85	0.58
1:5:444:ARG:HB2	1:5:447:MET:HB2	1.85	0.58
1:6:264:LEU:HD11	1:6:270:PHE:HB2	1.84	0.58
1:A:319:ARG:NH2	1:P:105:ASP:OD2	2.31	0.58
1:C:554:GLN:HG2	1:3:132:GLN:NE2	2.18	0.58
1:E:554:GLN:HG2	1:r:132:GLN:NE2	2.18	0.58
1:F:193:THR:H	1:F:502:GLN:HE22	1.50	0.58
1:H:554:GLN:HG2	1:P:132:GLN:NE2	2.18	0.58
1:M:444:ARG:HB2	1:M:447:MET:HB2	1.85	0.58
1:N:483:HIS:CD2	1:d:462:PHE:O	2.56	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:554:GLN:HG2	1:f:132:GLN:NE2	2.18	0.58
1:S:462:PHE:O	1:n:483:HIS:CD2	2.56	0.58
1:U:264:LEU:HD11	1:U:270:PHE:HB2	1.84	0.58
1:U:427:ILE:HD13	1:f:102:ALA:CB	2.30	0.58
1:W:264:LEU:HD11	1:W:270:PHE:HB2	1.84	0.58
1:X:462:PHE:O	1:Z:483:HIS:CD2	2.56	0.58
1:Y:105:ASP:OD2	1:a:319:ARG:NH2	2.31	0.58
1:Y:486:ARG:NH2	1:2:483:HIS:ND1	2.51	0.58
1:a:444:ARG:HB2	1:a:447:MET:HB2	1.85	0.58
1:g:193:THR:H	1:g:502:GLN:HE22	1.50	0.58
1:i:83:VAL:HG13	1:i:109:GLN:HG3	1.83	0.58
1:i:483:HIS:CD2	1:n:462:PHE:O	2.56	0.58
1:j:132:GLN:NE2	1:5:554:GLN:HG2	2.18	0.58
1:s:264:LEU:HD11	1:s:270:PHE:HB2	1.84	0.58
1:s:368:ILE:HG22	1:s:374:HIS:HA	1.85	0.58
1:w:444:ARG:HB2	1:w:447:MET:HB2	1.85	0.58
1:z:368:ILE:HG22	1:z:374:HIS:HA	1.85	0.58
1:3:264:LEU:HD11	1:3:270:PHE:HB2	1.84	0.58
1:3:444:ARG:HB2	1:3:447:MET:HB2	1.85	0.58
1:3:462:PHE:O	1:7:483:HIS:CD2	2.56	0.58
1:4:368:ILE:HG22	1:4:374:HIS:HA	1.85	0.58
1:A:368:ILE:HG22	1:A:374:HIS:HA	1.85	0.58
1:C:132:GLN:NE2	1:3:554:GLN:HG2	2.18	0.58
1:C:483:HIS:CD2	1:K:462:PHE:O	2.56	0.58
1:D:556:THR:CG2	1:6:556:THR:CG2	2.68	0.58
1:F:48:ASN:ND2	1:F:67:SER:H	2.00	0.58
1:H:264:LEU:HD11	1:H:270:PHE:HB2	1.84	0.58
1:I:427:ILE:HD13	1:K:102:ALA:CB	2.30	0.58
1:J:132:GLN:NE2	1:t:554:GLN:HG2	2.18	0.58
1:J:483:HIS:ND1	1:7:486:ARG:NH2	2.51	0.58
1:L:444:ARG:HB2	1:L:447:MET:HB2	1.85	0.58
1:O:193:THR:H	1:O:502:GLN:HE22	1.50	0.58
1:P:48:ASN:ND2	1:P:67:SER:H	2.00	0.58
1:U:132:GLN:NE2	1:Z:554:GLN:HG2	2.18	0.58
1:U:368:ILE:HG22	1:U:374:HIS:HA	1.85	0.58
1:U:483:HIS:ND1	1:W:486:ARG:NH2	2.51	0.58
1:a:132:GLN:NE2	1:g:554:GLN:HG2	2.18	0.58
1:a:264:LEU:HD11	1:a:270:PHE:HB2	1.84	0.58
1:d:483:HIS:CD2	1:r:462:PHE:O	2.56	0.58
1:e:462:PHE:O	1:k:483:HIS:CD2	2.56	0.58
1:h:444:ARG:HB2	1:h:447:MET:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:193:THR:H	1:l:502:GLN:HE22	1.50	0.58
1:p:427:ILE:HD13	1:x:102:ALA:CB	2.30	0.58
1:s:132:GLN:NE2	1:8:554:GLN:HG2	2.18	0.58
1:s:483:HIS:ND1	1:6:486:ARG:NH2	2.51	0.58
1:v:368:ILE:HG22	1:v:374:HIS:HA	1.85	0.58
1:5:264:LEU:HD11	1:5:270:PHE:HB2	1.84	0.58
1:D:193:THR:H	1:D:502:GLN:HE22	1.50	0.58
1:D:483:HIS:ND1	1:c:486:ARG:NH2	2.51	0.58
1:G:132:GLN:NE2	1:2:554:GLN:HG2	2.18	0.58
1:J:191:PRO:HG3	1:7:591:MET:CE	2.09	0.58
1:J:486:ARG:NH2	1:3:483:HIS:ND1	2.51	0.58
1:L:368:ILE:HG22	1:L:374:HIS:HA	1.85	0.58
1:P:193:THR:H	1:P:502:GLN:HE22	1.50	0.58
1:U:486:ARG:NH2	1:f:483:HIS:ND1	2.51	0.58
1:Y:444:ARG:HB2	1:Y:447:MET:HB2	1.85	0.58
1:Y:591:MET:CE	1:2:191:PRO:HG3	2.09	0.58
1:a:483:HIS:ND1	1:2:486:ARG:NH2	2.51	0.58
1:a:554:GLN:HG2	1:g:132:GLN:NE2	2.18	0.58
1:b:132:GLN:NE2	1:x:554:GLN:HG2	2.18	0.58
1:e:264:LEU:HD11	1:e:270:PHE:HB2	1.84	0.58
1:e:486:ARG:NH2	1:k:483:HIS:ND1	2.51	0.58
1:f:193:THR:H	1:f:502:GLN:HE22	1.50	0.58
1:g:105:ASP:OD2	1:4:319:ARG:NH2	2.31	0.58
1:g:483:HIS:CD2	1:4:462:PHE:O	2.56	0.58
1:h:109:GLN:HE22	1:w:300:ILE:CG2	2.03	0.58
1:j:42:SER:HG	1:1:265:ARG:HG3	1.66	0.58
1:j:191:PRO:HG3	1:v:591:MET:CE	2.09	0.58
1:j:368:ILE:HG22	1:j:374:HIS:HA	1.85	0.58
1:k:193:THR:H	1:k:502:GLN:HE22	1.50	0.58
1:r:193:THR:H	1:r:502:GLN:HE22	1.50	0.58
1:t:483:HIS:CD2	1:8:462:PHE:O	2.56	0.58
1:y:193:THR:H	1:y:502:GLN:HE22	1.50	0.58
1:y:264:LEU:HD11	1:y:270:PHE:HB2	1.84	0.58
1:1:483:HIS:ND1	1:5:486:ARG:NH2	2.51	0.58
1:5:48:ASN:ND2	1:5:67:SER:H	2.00	0.58
1:7:444:ARG:HB2	1:7:447:MET:HB2	1.85	0.58
1:B:483:HIS:ND1	1:H:486:ARG:NH2	2.51	0.58
1:D:483:HIS:CD2	1:c:462:PHE:O	2.56	0.58
1:E:483:HIS:ND1	1:O:486:ARG:NH2	2.51	0.58
1:F:264:LEU:HD11	1:F:270:PHE:HB2	1.84	0.58
1:G:483:HIS:CD2	1:Z:462:PHE:O	2.56	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:132:GLN:NE2	1:c:554:GLN:HG2	2.18	0.58
1:I:462:PHE:O	1:K:483:HIS:CD2	2.56	0.58
1:J:554:GLN:HG2	1:t:132:GLN:NE2	2.18	0.58
1:L:462:PHE:O	1:c:483:HIS:CD2	2.56	0.58
1:L:486:ARG:NH2	1:c:483:HIS:ND1	2.51	0.58
1:M:264:LEU:HD11	1:M:270:PHE:HB2	1.84	0.58
1:P:368:ILE:HG22	1:P:374:HIS:HA	1.85	0.58
1:V:132:GLN:NE2	1:n:554:GLN:HG2	2.18	0.58
1:b:483:HIS:ND1	1:s:486:ARG:NH2	2.51	0.58
1:c:264:LEU:HD11	1:c:270:PHE:HB2	1.84	0.58
1:e:483:HIS:CD2	1:z:462:PHE:O	2.56	0.58
1:h:264:LEU:HD11	1:h:270:PHE:HB2	1.84	0.58
1:j:48:ASN:ND2	1:j:67:SER:H	2.00	0.58
1:j:193:THR:H	1:j:502:GLN:HE22	1.50	0.58
1:l:486:ARG:NH2	1:w:483:HIS:ND1	2.51	0.58
1:u:462:PHE:O	1:4:483:HIS:CD2	2.56	0.58
1:y:48:ASN:ND2	1:y:67:SER:H	2.00	0.58
1:z:193:THR:H	1:z:502:GLN:HE22	1.50	0.58
1:z:444:ARG:HB2	1:z:447:MET:HB2	1.85	0.58
1:2:264:LEU:HD11	1:2:270:PHE:HB2	1.84	0.58
1:3:319:ARG:NH2	1:7:105:ASP:OD2	2.31	0.58
1:H:48:ASN:ND2	1:H:67:SER:H	2.00	0.58
1:J:483:HIS:CD2	1:7:462:PHE:O	2.56	0.58
1:L:193:THR:H	1:L:502:GLN:HE22	1.50	0.58
1:N:264:LEU:HD11	1:N:270:PHE:HB2	1.84	0.58
1:S:193:THR:H	1:S:502:GLN:HE22	1.50	0.58
1:V:554:GLN:HG2	1:n:132:GLN:NE2	2.18	0.58
1:X:264:LEU:HD11	1:X:270:PHE:HB2	1.84	0.58
1:Y:102:ALA:CB	1:a:427:ILE:HD13	2.30	0.58
1:b:427:ILE:HD13	1:6:102:ALA:CB	2.30	0.58
1:e:483:HIS:ND1	1:z:486:ARG:NH2	2.51	0.58
1:e:554:GLN:HG2	1:u:132:GLN:NE2	2.18	0.58
1:h:483:HIS:ND1	1:w:486:ARG:NH2	2.51	0.58
1:m:483:HIS:ND1	1:x:486:ARG:NH2	2.51	0.58
1:o:554:GLN:HG2	1:1:132:GLN:NE2	2.18	0.58
1:q:486:ARG:NH2	1:v:483:HIS:ND1	2.51	0.58
1:v:444:ARG:HB2	1:v:447:MET:HB2	1.85	0.58
1:3:427:ILE:HD13	1:7:102:ALA:CB	2.30	0.58
1:A:444:ARG:HB2	1:A:447:MET:HB2	1.85	0.58
1:B:264:LEU:HD11	1:B:270:PHE:HB2	1.84	0.58
1:B:319:ARG:NH2	1:F:105:ASP:OD2	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:427:ILE:HD13	1:L:102:ALA:CB	2.30	0.58
1:E:486:ARG:NH2	1:M:483:HIS:ND1	2.51	0.58
1:H:132:GLN:NE2	1:P:554:GLN:HG2	2.18	0.58
1:J:264:LEU:HD11	1:J:270:PHE:HB2	1.84	0.58
1:N:191:PRO:HG3	1:d:591:MET:CE	2.09	0.58
1:Q:486:ARG:NH2	1:T:483:HIS:ND1	2.51	0.58
1:T:444:ARG:HB2	1:T:447:MET:HB2	1.85	0.58
1:V:193:THR:H	1:V:502:GLN:HE22	1.50	0.58
1:V:264:LEU:HD11	1:V:270:PHE:HB2	1.84	0.58
1:W:102:ALA:CB	1:f:427:ILE:HD13	2.30	0.58
1:X:368:ILE:HG22	1:X:374:HIS:HA	1.85	0.58
1:b:193:THR:H	1:b:502:GLN:HE22	1.50	0.58
1:d:132:GLN:NE2	1:p:554:GLN:HG2	2.18	0.58
1:d:554:GLN:HG2	1:p:132:GLN:NE2	2.18	0.58
1:i:264:LEU:HD11	1:i:270:PHE:HB2	1.84	0.58
1:j:483:HIS:CE1	1:v:462:PHE:CE1	2.92	0.58
1:m:264:LEU:HD11	1:m:270:PHE:HB2	1.84	0.58
1:o:264:LEU:HD11	1:o:270:PHE:HB2	1.84	0.58
1:A:264:LEU:HD11	1:A:270:PHE:HB2	1.84	0.58
1:B:132:GLN:NE2	1:X:554:GLN:HG2	2.18	0.58
1:C:105:ASP:OD2	1:K:319:ARG:NH2	2.31	0.58
1:D:319:ARG:NH2	1:L:105:ASP:OD2	2.31	0.58
1:J:484:LYS:HB3	1:J:485:PRO:HD2	1.86	0.58
1:U:444:ARG:HB2	1:U:447:MET:HB2	1.85	0.58
1:Y:462:PHE:O	1:2:483:HIS:CD2	2.56	0.58
1:h:483:HIS:CE1	1:w:462:PHE:CE1	2.92	0.58
1:h:483:HIS:CD2	1:w:462:PHE:O	2.56	0.58
1:m:132:GLN:NE2	1:v:554:GLN:HG2	2.18	0.58
1:o:368:ILE:HG22	1:o:374:HIS:HA	1.85	0.58
1:p:193:THR:H	1:p:502:GLN:HE22	1.50	0.58
1:p:264:LEU:HD11	1:p:270:PHE:HB2	1.84	0.58
1:p:265:ARG:HG3	1:v:42:SER:HG	1.69	0.58
1:q:462:PHE:CE1	1:v:483:HIS:CE1	2.92	0.58
1:q:484:LYS:HB3	1:q:485:PRO:HD2	1.86	0.58
1:v:264:LEU:HD11	1:v:270:PHE:HB2	1.84	0.58
1:1:264:LEU:HD11	1:1:270:PHE:HB2	1.84	0.58
1:2:484:LYS:HB3	1:2:485:PRO:HD2	1.86	0.58
1:3:486:ARG:NH2	1:7:483:HIS:ND1	2.51	0.58
1:8:264:LEU:HD11	1:8:270:PHE:HB2	1.84	0.58
1:A:462:PHE:CE1	1:P:483:HIS:CE1	2.92	0.58
1:A:483:HIS:ND1	1:R:486:ARG:NH2	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:554:GLN:HG2	1:T:132:GLN:NE2	2.18	0.58
1:D:264:LEU:HD11	1:D:270:PHE:HB2	1.84	0.58
1:G:264:LEU:HD11	1:G:270:PHE:HB2	1.84	0.58
1:I:486:ARG:NH2	1:K:483:HIS:ND1	2.51	0.58
1:N:462:PHE:O	1:r:483:HIS:CD2	2.56	0.58
1:R:484:LYS:HB3	1:R:485:PRO:HD2	1.86	0.58
1:T:264:LEU:HD11	1:T:270:PHE:HB2	1.84	0.58
1:T:484:LYS:HB3	1:T:485:PRO:HD2	1.86	0.58
1:Y:483:HIS:ND1	1:a:486:ARG:NH2	2.51	0.58
1:j:554:GLN:HG2	1:5:132:GLN:NE2	2.18	0.58
1:m:444:ARG:HB2	1:m:447:MET:HB2	1.85	0.58
1:m:484:LYS:HB3	1:m:485:PRO:HD2	1.86	0.58
1:r:264:LEU:HD11	1:r:270:PHE:HB2	1.84	0.58
1:t:264:LEU:HD11	1:t:270:PHE:HB2	1.84	0.58
1:B:462:PHE:CE1	1:F:483:HIS:CE1	2.92	0.58
1:F:484:LYS:HB3	1:F:485:PRO:HD2	1.86	0.58
1:J:462:PHE:CE1	1:3:483:HIS:CE1	2.92	0.58
1:M:554:GLN:HG2	1:R:132:GLN:NE2	2.18	0.58
1:O:484:LYS:HB3	1:O:485:PRO:HD2	1.86	0.58
1:Q:462:PHE:CE1	1:T:483:HIS:CE1	2.92	0.58
1:S:264:LEU:HD11	1:S:270:PHE:HB2	1.84	0.58
1:S:483:HIS:CD2	1:i:462:PHE:O	2.56	0.58
1:X:462:PHE:CE1	1:Z:483:HIS:CE1	2.92	0.58
1:Y:484:LYS:HB3	1:Y:485:PRO:HD2	1.86	0.58
1:Z:264:LEU:HD11	1:Z:270:PHE:HB2	1.84	0.58
1:c:444:ARG:HB2	1:c:447:MET:HB2	1.85	0.58
1:h:554:GLN:HG2	1:q:132:GLN:NE2	2.18	0.58
1:j:462:PHE:O	1:q:483:HIS:CD2	2.56	0.58
1:k:264:LEU:HD11	1:k:270:PHE:HB2	1.84	0.58
1:k:427:ILE:HD13	1:z:102:ALA:CB	2.30	0.58
1:l:264:LEU:HD11	1:l:270:PHE:HB2	1.84	0.58
1:l:484:LYS:HB3	1:l:485:PRO:HD2	1.86	0.58
1:m:483:HIS:CE1	1:x:462:PHE:CE1	2.92	0.58
1:o:462:PHE:CE1	1:8:483:HIS:CE1	2.92	0.58
1:o:486:ARG:NH2	1:8:483:HIS:ND1	2.51	0.58
1:s:444:ARG:HB2	1:s:447:MET:HB2	1.85	0.58
1:u:486:ARG:NH2	1:4:483:HIS:ND1	2.51	0.58
1:y:483:HIS:CE1	1:1:462:PHE:CE1	2.92	0.58
1:y:484:LYS:HB3	1:y:485:PRO:HD2	1.86	0.58
1:7:484:LYS:HB3	1:7:485:PRO:HD2	1.86	0.58
1:A:483:HIS:CE1	1:R:462:PHE:CE1	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:132:GLN:NE2	1:K:554:GLN:HG2	2.18	0.57
1:O:264:LEU:HD11	1:O:270:PHE:HB2	1.84	0.57
1:O:444:ARG:HB2	1:O:447:MET:HB2	1.85	0.57
1:P:444:ARG:HB2	1:P:447:MET:HB2	1.85	0.57
1:P:462:PHE:O	1:R:483:HIS:CD2	2.56	0.57
1:Q:132:GLN:NE2	1:f:554:GLN:HG2	2.18	0.57
1:Q:483:HIS:CE1	1:V:462:PHE:CE1	2.92	0.57
1:V:444:ARG:HB2	1:V:447:MET:HB2	1.85	0.57
1:a:483:HIS:CE1	1:2:462:PHE:CE1	2.92	0.57
1:a:484:LYS:HB3	1:a:485:PRO:HD2	1.86	0.57
1:b:554:GLN:HG2	1:x:132:GLN:NE2	2.18	0.57
1:d:444:ARG:HB2	1:d:447:MET:HB2	1.85	0.57
1:e:444:ARG:HB2	1:e:447:MET:HB2	1.85	0.57
1:j:444:ARG:HB2	1:j:447:MET:HB2	1.85	0.57
1:l:444:ARG:HB2	1:l:447:MET:HB2	1.85	0.57
1:l:591:MET:CE	1:w:191:PRO:HG3	2.09	0.57
1:n:444:ARG:HB2	1:n:447:MET:HB2	1.85	0.57
1:o:483:HIS:ND1	1:t:486:ARG:NH2	2.51	0.57
1:y:105:ASP:OD2	1:1:319:ARG:NH2	2.31	0.57
1:1:368:ILE:HG22	1:1:374:HIS:HA	1.85	0.57
1:3:484:LYS:HB3	1:3:485:PRO:HD2	1.86	0.57
1:B:368:ILE:HG22	1:B:374:HIS:HA	1.85	0.57
1:C:444:ARG:HB2	1:C:447:MET:HB2	1.85	0.57
1:E:427:ILE:HD13	1:M:102:ALA:CB	2.30	0.57
1:G:368:ILE:HG22	1:G:374:HIS:HA	1.85	0.57
1:G:486:ARG:NH2	1:X:483:HIS:ND1	2.51	0.57
1:N:462:PHE:CE1	1:r:483:HIS:CE1	2.92	0.57
1:X:444:ARG:HB2	1:X:447:MET:HB2	1.85	0.57
1:X:486:ARG:NH2	1:Z:483:HIS:ND1	2.51	0.57
1:g:444:ARG:HB2	1:g:447:MET:HB2	1.85	0.57
1:k:319:ARG:NH2	1:z:105:ASP:OD2	2.31	0.57
1:k:484:LYS:HB3	1:k:485:PRO:HD2	1.86	0.57
1:p:462:PHE:CE1	1:x:483:HIS:CE1	2.92	0.57
1:t:368:ILE:HG22	1:t:374:HIS:HA	1.85	0.57
1:y:132:GLN:NE2	1:4:554:GLN:HG2	2.18	0.57
1:A:591:MET:CE	1:P:191:PRO:HG3	2.10	0.57
1:D:484:LYS:HB3	1:D:485:PRO:HD2	1.86	0.57
1:E:462:PHE:O	1:M:483:HIS:CD2	2.56	0.57
1:G:484:LYS:HB3	1:G:485:PRO:HD2	1.86	0.57
1:N:132:GLN:NE2	1:i:554:GLN:HG2	2.18	0.57
1:N:484:LYS:HB3	1:N:485:PRO:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:483:HIS:CE1	1:i:462:PHE:CE1	2.92	0.57
1:S:484:LYS:HB3	1:S:485:PRO:HD2	1.86	0.57
1:U:591:MET:CE	1:f:191:PRO:HG3	2.09	0.57
1:V:368:ILE:HG22	1:V:374:HIS:HA	1.85	0.57
1:a:102:ALA:CB	1:2:427:ILE:HD13	2.30	0.57
1:h:102:ALA:CB	1:w:427:ILE:HD13	2.30	0.57
1:o:444:ARG:HB2	1:o:447:MET:HB2	1.85	0.57
1:p:444:ARG:HB2	1:p:447:MET:HB2	1.85	0.57
1:t:484:LYS:HB3	1:t:485:PRO:HD2	1.86	0.57
1:v:484:LYS:HB3	1:v:485:PRO:HD2	1.86	0.57
1:w:484:LYS:HB3	1:w:485:PRO:HD2	1.86	0.57
1:D:462:PHE:CE1	1:L:483:HIS:CE1	2.92	0.57
1:E:484:LYS:HB3	1:E:485:PRO:HD2	1.86	0.57
1:J:427:ILE:HD13	1:3:102:ALA:CB	2.30	0.57
1:N:554:GLN:HG2	1:i:132:GLN:NE2	2.18	0.57
1:g:483:HIS:CE1	1:4:462:PHE:CE1	2.92	0.57
1:i:368:ILE:HG22	1:i:374:HIS:HA	1.85	0.57
1:q:591:MET:CE	1:v:191:PRO:HG3	2.09	0.57
1:r:484:LYS:HB3	1:r:485:PRO:HD2	1.86	0.57
1:3:462:PHE:CE1	1:7:483:HIS:CE1	2.92	0.57
1:4:264:LEU:HD11	1:4:270:PHE:HB2	1.84	0.57
1:A:484:LYS:HB3	1:A:485:PRO:HD2	1.86	0.57
1:C:483:HIS:CE1	1:K:462:PHE:CE1	2.92	0.57
1:E:132:GLN:NE2	1:r:554:GLN:HG2	2.18	0.57
1:K:264:LEU:HD11	1:K:270:PHE:HB2	1.84	0.57
1:P:462:PHE:CE1	1:R:483:HIS:CE1	2.92	0.57
1:Q:484:LYS:HB3	1:Q:485:PRO:HD2	1.86	0.57
1:R:368:ILE:HG22	1:R:374:HIS:HA	1.85	0.57
1:Z:444:ARG:HB2	1:Z:447:MET:HB2	1.85	0.57
1:i:484:LYS:HB3	1:i:485:PRO:HD2	1.86	0.57
1:k:462:PHE:CE1	1:z:483:HIS:CE1	2.92	0.57
1:o:427:ILE:HD13	1:8:102:ALA:CB	2.30	0.57
1:p:368:ILE:HG22	1:p:374:HIS:HA	1.85	0.57
1:x:484:LYS:HB3	1:x:485:PRO:HD2	1.86	0.57
1:7:264:LEU:HD11	1:7:270:PHE:HB2	1.84	0.57
1:G:189:ILE:HG21	1:Z:547:LEU:CD1	2.34	0.57
1:N:368:ILE:HG22	1:N:374:HIS:HA	1.85	0.57
1:X:427:ILE:HD13	1:Z:102:ALA:CB	2.30	0.57
1:Y:264:LEU:HD11	1:Y:270:PHE:HB2	1.84	0.57
1:Y:483:HIS:CE1	1:a:462:PHE:CE1	2.92	0.57
1:a:368:ILE:HG22	1:a:374:HIS:HA	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:191:PRO:HG3	1:s:591:MET:CE	2.09	0.57
1:e:193:THR:H	1:e:502:GLN:HE22	1.50	0.57
1:h:368:ILE:HG22	1:h:374:HIS:HA	1.85	0.57
1:j:462:PHE:CE1	1:q:483:HIS:CE1	2.92	0.57
1:q:368:ILE:HG22	1:q:374:HIS:HA	1.85	0.57
1:3:368:ILE:HG22	1:3:374:HIS:HA	1.85	0.57
1:8:444:ARG:HB2	1:8:447:MET:HB2	1.85	0.57
1:E:191:PRO:HG3	1:O:591:MET:CE	2.09	0.57
1:F:556:THR:CG2	1:K:556:THR:CG2	2.68	0.57
1:G:547:LEU:CD1	1:X:189:ILE:HG21	2.34	0.57
1:J:483:HIS:CE1	1:7:462:PHE:CE1	2.92	0.57
1:M:368:ILE:HG22	1:M:374:HIS:HA	1.85	0.57
1:S:554:GLN:HG2	1:w:132:GLN:NE2	2.18	0.57
1:T:368:ILE:HG22	1:T:374:HIS:HA	1.85	0.57
1:U:462:PHE:CE1	1:f:483:HIS:CE1	2.92	0.57
1:Y:462:PHE:CE1	1:2:483:HIS:CE1	2.92	0.57
1:b:484:LYS:HB3	1:b:485:PRO:HD2	1.86	0.57
1:c:193:THR:H	1:c:502:GLN:HE22	1.50	0.57
1:f:484:LYS:HB3	1:f:485:PRO:HD2	1.86	0.57
1:t:189:ILE:HG21	1:8:547:LEU:CD1	2.34	0.57
2:JB:2:GLA:H2	2:JB:3:SIA:H8	1.87	0.57
2:PB:2:GLA:H2	2:PB:3:SIA:H8	1.87	0.57
1:C:547:LEU:CD1	1:I:189:ILE:HG21	2.34	0.57
1:H:484:LYS:HB3	1:H:485:PRO:HD2	1.86	0.57
1:S:462:PHE:CE1	1:n:483:HIS:CE1	2.92	0.57
1:U:484:LYS:HB3	1:U:485:PRO:HD2	1.86	0.57
1:Y:368:ILE:HG22	1:Y:374:HIS:HA	1.85	0.57
1:b:483:HIS:CE1	1:s:462:PHE:CE1	2.92	0.57
1:o:189:ILE:HG21	1:t:547:LEU:CD1	2.34	0.57
1:y:462:PHE:CE1	1:5:483:HIS:CE1	2.92	0.57
1:7:368:ILE:HG22	1:7:374:HIS:HA	1.85	0.57
2:JA:2:GLA:H2	2:JA:3:SIA:H8	1.87	0.57
2:XA:2:GLA:H2	2:XA:3:SIA:H8	1.87	0.57
2:qA:2:GLA:H2	2:qA:3:SIA:H8	1.87	0.57
2:tA:2:GLA:H2	2:tA:3:SIA:H8	1.87	0.57
1:D:102:ALA:CB	1:c:427:ILE:HD13	2.30	0.57
1:F:462:PHE:CE1	1:H:483:HIS:CE1	2.92	0.57
1:I:188:ASN:HD21	1:I:501:GLY:HA2	1.70	0.57
1:M:484:LYS:HB3	1:M:485:PRO:HD2	1.86	0.57
1:W:483:HIS:CE1	1:f:462:PHE:CE1	2.92	0.57
1:d:483:HIS:CE1	1:r:462:PHE:CE1	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:547:LEU:CD1	1:u:189:ILE:HG21	2.34	0.57
1:m:368:ILE:HG22	1:m:374:HIS:HA	1.85	0.57
1:y:556:THR:CG2	1:4:556:THR:CG2	2.68	0.57
1:1:483:HIS:CE1	1:5:462:PHE:CE1	2.92	0.57
1:5:484:LYS:HB3	1:5:485:PRO:HD2	1.86	0.57
1:7:188:ASN:HD21	1:7:501:GLY:HA2	1.70	0.57
2:9:2:GLA:H2	2:9:3:SIA:H8	1.87	0.57
2:IA:2:GLA:H2	2:IA:3:SIA:H8	1.87	0.57
2:hA:2:GLA:H2	2:hA:3:SIA:H8	1.87	0.57
2:nA:2:GLA:H2	2:nA:3:SIA:H8	1.87	0.57
2:QB:2:GLA:H2	2:QB:3:SIA:H8	1.87	0.57
1:B:483:HIS:CE1	1:H:462:PHE:CE1	2.92	0.57
1:H:368:ILE:HG22	1:H:374:HIS:HA	1.85	0.57
1:L:300:ILE:CG2	1:c:109:GLN:HE22	2.03	0.57
1:R:300:ILE:HD11	1:R:303:LEU:HD23	1.87	0.57
1:R:444:ARG:HB2	1:R:447:MET:HB2	1.85	0.57
1:S:300:ILE:HD11	1:S:303:LEU:HD23	1.87	0.57
1:X:188:ASN:HD21	1:X:501:GLY:HA2	1.70	0.57
1:Y:188:ASN:HD21	1:Y:501:GLY:HA2	1.70	0.57
1:b:462:PHE:CE1	1:6:483:HIS:CE1	2.92	0.57
1:e:483:HIS:CE1	1:z:462:PHE:CE1	2.92	0.57
1:h:484:LYS:HB3	1:h:485:PRO:HD2	1.86	0.57
1:o:188:ASN:HD21	1:o:501:GLY:HA2	1.70	0.57
1:q:300:ILE:HD11	1:q:303:LEU:HD23	1.87	0.57
1:r:300:ILE:HD11	1:r:303:LEU:HD23	1.87	0.57
1:s:484:LYS:HB3	1:s:485:PRO:HD2	1.86	0.57
1:u:188:ASN:HD21	1:u:501:GLY:HA2	1.70	0.57
2:OA:2:GLA:H2	2:OA:3:SIA:H8	1.87	0.57
2:2A:2:GLA:H2	2:2A:3:SIA:H8	1.87	0.57
2:4A:2:GLA:H2	2:4A:3:SIA:H8	1.87	0.57
2:5A:2:GLA:H2	2:5A:3:SIA:H8	1.87	0.57
2:MB:2:GLA:H2	2:MB:3:SIA:H8	1.87	0.57
1:A:191:PRO:HG3	1:R:591:MET:CE	2.09	0.56
1:B:188:ASN:HD21	1:B:501:GLY:HA2	1.70	0.56
1:E:483:HIS:CE1	1:O:462:PHE:CE1	2.92	0.56
1:G:188:ASN:HD21	1:G:501:GLY:HA2	1.70	0.56
1:K:444:ARG:HB2	1:K:447:MET:HB2	1.85	0.56
1:L:462:PHE:CE1	1:c:483:HIS:CE1	2.92	0.56
1:M:368:ILE:HD12	1:M:372:GLU:HA	1.87	0.56
1:N:159:THR:HG23	1:N:171:VAL:HB	1.87	0.56
1:N:188:ASN:HD21	1:N:501:GLY:HA2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:483:HIS:CE1	1:d:462:PHE:CE1	2.92	0.56
1:a:188:ASN:HD21	1:a:501:GLY:HA2	1.70	0.56
1:e:109:GLN:HE22	1:z:300:ILE:CG2	2.03	0.56
1:e:462:PHE:CE1	1:k:483:HIS:CE1	2.92	0.56
1:h:368:ILE:HD12	1:h:372:GLU:HA	1.87	0.56
1:i:159:THR:HG23	1:i:171:VAL:HB	1.87	0.56
1:i:188:ASN:HD21	1:i:501:GLY:HA2	1.70	0.56
1:i:483:HIS:CE1	1:n:462:PHE:CE1	2.92	0.56
1:l:462:PHE:CE1	1:w:483:HIS:CE1	2.92	0.56
1:o:484:LYS:HB3	1:o:485:PRO:HD2	1.86	0.56
1:q:444:ARG:HB2	1:q:447:MET:HB2	1.85	0.56
1:t:188:ASN:HD21	1:t:501:GLY:HA2	1.70	0.56
2:DA:2:GLA:H2	2:DA:3:SIA:H8	1.87	0.56
2:FA:2:GLA:H2	2:FA:3:SIA:H8	1.87	0.56
2:sA:2:GLA:H2	2:sA:3:SIA:H8	1.87	0.56
2:1A:2:GLA:H2	2:1A:3:SIA:H8	1.87	0.56
2:TB:2:GLA:H2	2:TB:3:SIA:H8	1.87	0.56
1:B:556:THR:CG2	1:X:556:THR:CG2	2.69	0.56
1:C:319:ARG:NH2	1:I:105:ASP:OD2	2.31	0.56
1:J:102:ALA:CB	1:7:427:ILE:HD13	2.30	0.56
1:N:300:ILE:HD11	1:N:303:LEU:HD23	1.87	0.56
1:O:159:THR:HG23	1:O:171:VAL:HB	1.87	0.56
1:T:368:ILE:HD12	1:T:372:GLU:HA	1.88	0.56
1:T:462:PHE:CE1	1:V:483:HIS:CE1	2.92	0.56
1:Z:300:ILE:HD11	1:Z:303:LEU:HD23	1.87	0.56
1:a:300:ILE:HD11	1:a:303:LEU:HD23	1.87	0.56
1:e:427:ILE:HD13	1:k:102:ALA:CB	2.30	0.56
1:i:300:ILE:HD11	1:i:303:LEU:HD23	1.87	0.56
1:l:159:THR:HG23	1:l:171:VAL:HB	1.87	0.56
1:m:188:ASN:HD21	1:m:501:GLY:HA2	1.70	0.56
1:m:368:ILE:HD12	1:m:372:GLU:HA	1.88	0.56
1:m:462:PHE:CE1	1:p:483:HIS:CE1	2.92	0.56
1:o:556:THR:CG2	1:1:556:THR:CG2	2.69	0.56
1:u:484:LYS:HB3	1:u:485:PRO:HD2	1.86	0.56
1:1:188:ASN:HD21	1:1:501:GLY:HA2	1.70	0.56
1:3:188:ASN:HD21	1:3:501:GLY:HA2	1.70	0.56
1:5:368:ILE:HG22	1:5:374:HIS:HA	1.85	0.56
2:AA:2:GLA:H2	2:AA:3:SIA:H8	1.87	0.56
2:LA:2:GLA:H2	2:LA:3:SIA:H8	1.87	0.56
2:UA:2:GLA:H2	2:UA:3:SIA:H8	1.87	0.56
2:aA:2:GLA:H2	2:aA:3:SIA:H8	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eA:2:GLA:H2	2:eA:3:SIA:H8	1.87	0.56
2:yA:2:GLA:H2	2:yA:3:SIA:H8	1.87	0.56
2:VB:2:GLA:H2	2:VB:3:SIA:H8	1.87	0.56
2:ZB:2:GLA:H2	2:ZB:3:SIA:H8	1.87	0.56
1:B:484:LYS:HB3	1:B:485:PRO:HD2	1.86	0.56
1:C:462:PHE:CE1	1:I:483:HIS:CE1	2.92	0.56
1:D:483:HIS:CE1	1:c:462:PHE:CE1	2.92	0.56
1:E:214:PRO:HG2	1:E:216:ARG:HH21	1.71	0.56
1:G:300:ILE:HD11	1:G:303:LEU:HD23	1.87	0.56
1:G:462:PHE:CE1	1:X:483:HIS:CE1	2.92	0.56
1:I:159:THR:HG23	1:I:171:VAL:HB	1.87	0.56
1:I:300:ILE:HD11	1:I:303:LEU:HD23	1.88	0.56
1:I:484:LYS:HB3	1:I:485:PRO:HD2	1.86	0.56
1:J:188:ASN:HD21	1:J:501:GLY:HA2	1.70	0.56
1:J:368:ILE:HD12	1:J:372:GLU:HA	1.88	0.56
1:K:188:ASN:HD21	1:K:501:GLY:HA2	1.70	0.56
1:K:300:ILE:HD11	1:K:303:LEU:HD23	1.88	0.56
1:M:547:LEU:CD1	1:O:189:ILE:HG21	2.34	0.56
1:P:300:ILE:HD11	1:P:303:LEU:HD23	1.87	0.56
1:T:188:ASN:HD21	1:T:501:GLY:HA2	1.70	0.56
1:U:159:THR:HG23	1:U:171:VAL:HB	1.87	0.56
1:U:483:HIS:CE1	1:W:462:PHE:CE1	2.92	0.56
1:X:484:LYS:HB3	1:X:485:PRO:HD2	1.86	0.56
1:Y:159:THR:HG23	1:Y:171:VAL:HB	1.87	0.56
1:Y:368:ILE:HD12	1:Y:372:GLU:HA	1.88	0.56
1:Z:159:THR:HG23	1:Z:171:VAL:HB	1.87	0.56
1:b:188:ASN:HD21	1:b:501:GLY:HA2	1.70	0.56
1:b:368:ILE:HD12	1:b:372:GLU:HA	1.88	0.56
1:e:484:LYS:HB3	1:e:485:PRO:HD2	1.86	0.56
1:f:188:ASN:HD21	1:f:501:GLY:HA2	1.70	0.56
1:f:368:ILE:HD12	1:f:372:GLU:HA	1.88	0.56
1:g:368:ILE:HD12	1:g:372:GLU:HA	1.88	0.56
1:j:484:LYS:HB3	1:j:485:PRO:HD2	1.86	0.56
1:t:300:ILE:HD11	1:t:303:LEU:HD23	1.87	0.56
1:u:159:THR:HG23	1:u:171:VAL:HB	1.87	0.56
1:u:300:ILE:HD11	1:u:303:LEU:HD23	1.88	0.56
1:w:214:PRO:HG2	1:w:216:ARG:HH21	1.71	0.56
1:y:368:ILE:HD12	1:y:372:GLU:HA	1.88	0.56
1:1:484:LYS:HB3	1:1:485:PRO:HD2	1.86	0.56
1:2:188:ASN:HD21	1:2:501:GLY:HA2	1.70	0.56
1:2:368:ILE:HD12	1:2:372:GLU:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:300:ILE:HD11	1:3:303:LEU:HD23	1.87	0.56
1:4:300:ILE:HD11	1:4:303:LEU:HD23	1.88	0.56
1:4:444:ARG:HB2	1:4:447:MET:HB2	1.85	0.56
1:7:159:THR:HG23	1:7:171:VAL:HB	1.87	0.56
1:7:368:ILE:HD12	1:7:372:GLU:HA	1.88	0.56
1:8:159:THR:HG23	1:8:171:VAL:HB	1.87	0.56
1:8:214:PRO:HG2	1:8:216:ARG:HH21	1.71	0.56
1:8:300:ILE:HD11	1:8:303:LEU:HD23	1.87	0.56
2:dA:2:GLA:H2	2:dA:3:SIA:H8	1.87	0.56
2:7A:2:GLA:H2	2:7A:3:SIA:H8	1.87	0.56
2:BB:2:GLA:H2	2:BB:3:SIA:H8	1.87	0.56
2:DB:2:GLA:H2	2:DB:3:SIA:H8	1.87	0.56
2:GB:2:GLA:H2	2:GB:3:SIA:H8	1.87	0.56
1:C:368:ILE:HD12	1:C:372:GLU:HA	1.88	0.56
1:C:484:LYS:HB3	1:C:485:PRO:HD2	1.86	0.56
1:F:214:PRO:HG2	1:F:216:ARG:HH21	1.71	0.56
1:F:368:ILE:HD12	1:F:372:GLU:HA	1.88	0.56
1:I:214:PRO:HG2	1:I:216:ARG:HH21	1.71	0.56
1:K:214:PRO:HG2	1:K:216:ARG:HH21	1.71	0.56
1:M:188:ASN:HD21	1:M:501:GLY:HA2	1.70	0.56
1:R:188:ASN:HD21	1:R:501:GLY:HA2	1.70	0.56
1:X:159:THR:HG23	1:X:171:VAL:HB	1.87	0.56
1:Y:427:ILE:HD13	1:2:102:ALA:CB	2.30	0.56
1:Z:214:PRO:HG2	1:Z:216:ARG:HH21	1.71	0.56
1:a:42:SER:HG	1:u:265:ARG:HG3	1.70	0.56
1:c:484:LYS:HB3	1:c:485:PRO:HD2	1.86	0.56
1:g:265:ARG:HG3	1:y:42:SER:HG	1.70	0.56
1:g:462:PHE:CE1	1:u:483:HIS:CE1	2.92	0.56
1:h:547:LEU:CD1	1:l:189:ILE:HG21	2.34	0.56
1:j:300:ILE:HD11	1:j:303:LEU:HD23	1.87	0.56
1:n:300:ILE:HD11	1:n:303:LEU:HD23	1.87	0.56
1:o:159:THR:HG23	1:o:171:VAL:HB	1.87	0.56
1:o:483:HIS:CE1	1:t:462:PHE:CE1	2.92	0.56
1:p:484:LYS:HB3	1:p:485:PRO:HD2	1.86	0.56
1:s:159:THR:HG23	1:s:171:VAL:HB	1.87	0.56
1:s:483:HIS:CE1	1:6:462:PHE:CE1	2.92	0.56
1:y:214:PRO:HG2	1:y:216:ARG:HH21	1.71	0.56
1:4:188:ASN:HD21	1:4:501:GLY:HA2	1.70	0.56
1:4:214:PRO:HG2	1:4:216:ARG:HH21	1.71	0.56
1:5:368:ILE:HD12	1:5:372:GLU:HA	1.88	0.56
1:8:368:ILE:HD12	1:8:372:GLU:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:2:GLA:H2	2:CA:3:SIA:H8	1.87	0.56
2:AB:2:GLA:H2	2:AB:3:SIA:H8	1.87	0.56
1:B:159:THR:HG23	1:B:171:VAL:HB	1.87	0.56
1:C:265:ARG:HG3	1:F:42:SER:HG	1.70	0.56
1:F:159:THR:HG23	1:F:171:VAL:HB	1.87	0.56
1:H:368:ILE:HD12	1:H:372:GLU:HA	1.88	0.56
1:L:188:ASN:HD21	1:L:501:GLY:HA2	1.70	0.56
1:P:484:LYS:HB3	1:P:485:PRO:HD2	1.86	0.56
1:S:214:PRO:HG2	1:S:216:ARG:HH21	1.71	0.56
1:S:300:ILE:CG2	1:n:109:GLN:HE22	2.03	0.56
1:V:159:THR:HG23	1:V:171:VAL:HB	1.87	0.56
1:V:188:ASN:HD21	1:V:501:GLY:HA2	1.70	0.56
1:V:484:LYS:HB3	1:V:485:PRO:HD2	1.86	0.56
1:Y:547:LEU:CD1	1:2:189:ILE:HG21	2.34	0.56
1:Z:368:ILE:HD12	1:Z:372:GLU:HA	1.87	0.56
1:Z:484:LYS:HB3	1:Z:485:PRO:HD2	1.86	0.56
1:b:214:PRO:HG2	1:b:216:ARG:HH21	1.71	0.56
1:g:319:ARG:NH2	1:u:105:ASP:OD2	2.31	0.56
1:g:484:LYS:HB3	1:g:485:PRO:HD2	1.86	0.56
1:h:188:ASN:HD21	1:h:501:GLY:HA2	1.70	0.56
1:k:214:PRO:HG2	1:k:216:ARG:HH21	1.71	0.56
1:l:368:ILE:HD12	1:l:372:GLU:HA	1.87	0.56
1:p:159:THR:HG23	1:p:171:VAL:HB	1.87	0.56
1:p:368:ILE:HD12	1:p:372:GLU:HA	1.88	0.56
1:q:188:ASN:HD21	1:q:501:GLY:HA2	1.70	0.56
1:r:214:PRO:HG2	1:r:216:ARG:HH21	1.71	0.56
1:t:483:HIS:CE1	1:8:462:PHE:CE1	2.92	0.56
1:u:214:PRO:HG2	1:u:216:ARG:HH21	1.71	0.56
1:v:300:ILE:HD11	1:v:303:LEU:HD23	1.87	0.56
1:z:188:ASN:HD21	1:z:501:GLY:HA2	1.70	0.56
1:1:159:THR:HG23	1:1:171:VAL:HB	1.87	0.56
1:8:484:LYS:HB3	1:8:485:PRO:HD2	1.86	0.56
2:MA:2:GLA:H2	2:MA:3:SIA:H8	1.87	0.56
2:bA:2:GLA:H2	2:bA:3:SIA:H8	1.87	0.56
1:A:300:ILE:HD11	1:A:303:LEU:HD23	1.87	0.56
1:D:214:PRO:HG2	1:D:216:ARG:HH21	1.71	0.56
1:K:484:LYS:HB3	1:K:485:PRO:HD2	1.86	0.56
1:L:484:LYS:HB3	1:L:485:PRO:HD2	1.86	0.56
1:O:368:ILE:HD12	1:O:372:GLU:HA	1.87	0.56
1:U:102:ALA:CB	1:W:427:ILE:HD13	2.30	0.56
1:V:368:ILE:HD12	1:V:372:GLU:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:159:THR:HG23	1:W:171:VAL:HB	1.87	0.56
1:c:214:PRO:HG2	1:c:216:ARG:HH21	1.71	0.56
1:d:300:ILE:HD11	1:d:303:LEU:HD23	1.87	0.56
1:e:214:PRO:HG2	1:e:216:ARG:HH21	1.71	0.56
1:f:214:PRO:HG2	1:f:216:ARG:HH21	1.71	0.56
1:p:188:ASN:HD21	1:p:501:GLY:HA2	1.70	0.56
1:t:368:ILE:HD12	1:t:372:GLU:HA	1.87	0.56
1:y:159:THR:HG23	1:y:171:VAL:HB	1.87	0.56
1:y:188:ASN:HD21	1:y:501:GLY:HA2	1.70	0.56
1:6:159:THR:HG23	1:6:171:VAL:HB	1.87	0.56
1:6:484:LYS:HB3	1:6:485:PRO:HD2	1.86	0.56
2:VA:2:GLA:H2	2:VA:3:SIA:H8	1.87	0.56
2:kA:2:GLA:H2	2:kA:3:SIA:H8	1.87	0.56
2:EB:2:GLA:H2	2:EB:3:SIA:H8	1.87	0.56
1:E:188:ASN:HD21	1:E:501:GLY:HA2	1.70	0.56
1:F:188:ASN:HD21	1:F:501:GLY:HA2	1.70	0.56
1:G:368:ILE:HD12	1:G:372:GLU:HA	1.87	0.56
1:G:483:HIS:CE1	1:Z:462:PHE:CE1	2.92	0.56
1:H:300:ILE:HD11	1:H:303:LEU:HD23	1.87	0.56
1:J:189:ILE:HG21	1:7:547:LEU:CD1	2.34	0.56
1:K:368:ILE:HD12	1:K:372:GLU:HA	1.88	0.56
1:L:185:ASP:HB2	1:L:259:LEU:HD11	1.88	0.56
1:Q:368:ILE:HD12	1:Q:372:GLU:HA	1.88	0.56
1:W:484:LYS:HB3	1:W:485:PRO:HD2	1.86	0.56
1:s:102:ALA:CB	1:6:427:ILE:HD13	2.30	0.56
1:z:185:ASP:HB2	1:z:259:LEU:HD11	1.88	0.56
1:z:484:LYS:HB3	1:z:485:PRO:HD2	1.86	0.56
1:4:368:ILE:HD12	1:4:372:GLU:HA	1.88	0.56
1:4:484:LYS:HB3	1:4:485:PRO:HD2	1.86	0.56
2:HB:2:GLA:H2	2:HB:3:SIA:H8	1.87	0.56
1:A:185:ASP:HB2	1:A:259:LEU:HD11	1.88	0.56
1:A:368:ILE:HD12	1:A:372:GLU:HA	1.88	0.56
1:F:185:ASP:HB2	1:F:259:LEU:HD11	1.88	0.56
1:N:185:ASP:HB2	1:N:259:LEU:HD11	1.88	0.56
1:T:214:PRO:HG2	1:T:216:ARG:HH21	1.71	0.56
1:Y:214:PRO:HG2	1:Y:216:ARG:HH21	1.71	0.56
1:d:214:PRO:HG2	1:d:216:ARG:HH21	1.71	0.56
1:d:484:LYS:HB3	1:d:485:PRO:HD2	1.86	0.56
1:i:368:ILE:HD12	1:i:372:GLU:HA	1.88	0.56
1:n:214:PRO:HG2	1:n:216:ARG:HH21	1.71	0.56
1:r:368:ILE:HD12	1:r:372:GLU:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:368:ILE:HD12	1:x:372:GLU:HA	1.88	0.56
1:y:185:ASP:HB2	1:y:259:LEU:HD11	1.88	0.56
1:5:185:ASP:HB2	1:5:259:LEU:HD11	1.88	0.56
1:5:300:ILE:HD11	1:5:303:LEU:HD23	1.87	0.56
1:7:214:PRO:HG2	1:7:216:ARG:HH21	1.71	0.56
1:A:159:THR:HG23	1:A:171:VAL:HB	1.87	0.56
1:A:188:ASN:HD21	1:A:501:GLY:HA2	1.70	0.56
1:B:185:ASP:HB2	1:B:259:LEU:HD11	1.88	0.56
1:E:368:ILE:HD12	1:E:372:GLU:HA	1.87	0.56
1:H:185:ASP:HB2	1:H:259:LEU:HD11	1.88	0.56
1:I:462:PHE:CE1	1:K:483:HIS:CE1	2.92	0.56
1:J:265:ARG:HG3	1:Y:42:SER:HG	1.70	0.56
1:L:159:THR:HG23	1:L:171:VAL:HB	1.87	0.56
1:L:214:PRO:HG2	1:L:216:ARG:HH21	1.71	0.56
1:N:368:ILE:HD12	1:N:372:GLU:HA	1.88	0.56
1:R:185:ASP:HB2	1:R:259:LEU:HD11	1.88	0.56
1:S:368:ILE:HD12	1:S:372:GLU:HA	1.88	0.56
1:T:159:THR:HG23	1:T:171:VAL:HB	1.87	0.56
1:V:185:ASP:HB2	1:V:259:LEU:HD11	1.88	0.56
1:X:263:LEU:HD12	1:2:152:ASN:HD21	1.71	0.56
1:b:265:ARG:HG3	1:8:42:SER:HG	1.71	0.56
1:i:185:ASP:HB2	1:i:259:LEU:HD11	1.88	0.56
1:m:214:PRO:HG2	1:m:216:ARG:HH21	1.71	0.56
1:n:484:LYS:HB3	1:n:485:PRO:HD2	1.86	0.56
1:p:185:ASP:HB2	1:p:259:LEU:HD11	1.88	0.56
1:q:185:ASP:HB2	1:q:259:LEU:HD11	1.88	0.56
1:v:185:ASP:HB2	1:v:259:LEU:HD11	1.88	0.56
1:v:368:ILE:HD12	1:v:372:GLU:HA	1.88	0.56
1:w:188:ASN:HD21	1:w:501:GLY:HA2	1.70	0.56
1:z:159:THR:HG23	1:z:171:VAL:HB	1.87	0.56
1:1:300:ILE:HD11	1:1:303:LEU:HD23	1.87	0.56
2:RA:2:GLA:H2	2:RA:3:SIA:H8	1.87	0.56
1:B:300:ILE:HD11	1:B:303:LEU:HD23	1.87	0.56
1:C:188:ASN:HD21	1:C:501:GLY:HA2	1.70	0.56
1:F:265:ARG:HG3	1:X:42:SER:HG	1.69	0.56
1:F:547:LEU:CD1	1:H:189:ILE:HG21	2.34	0.56
1:L:368:ILE:HD12	1:L:372:GLU:HA	1.88	0.56
1:P:368:ILE:HD12	1:P:372:GLU:HA	1.88	0.56
1:Q:300:ILE:HD11	1:Q:303:LEU:HD23	1.88	0.56
1:R:214:PRO:HG2	1:R:216:ARG:HH21	1.71	0.56
1:T:591:MET:CE	1:V:191:PRO:HG3	2.09	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:214:PRO:HG2	1:U:216:ARG:HH21	1.71	0.56
1:W:188:ASN:HD21	1:W:501:GLY:HA2	1.70	0.56
1:a:185:ASP:HB2	1:a:259:LEU:HD11	1.88	0.56
1:b:319:ARG:NH2	1:6:105:ASP:OD2	2.31	0.56
1:e:185:ASP:HB2	1:e:259:LEU:HD11	1.88	0.56
1:f:185:ASP:HB2	1:f:259:LEU:HD11	1.88	0.56
1:m:159:THR:HG23	1:m:171:VAL:HB	1.87	0.56
1:p:300:ILE:HD11	1:p:303:LEU:HD23	1.88	0.56
1:v:159:THR:HG23	1:v:171:VAL:HB	1.87	0.56
1:x:300:ILE:HD11	1:x:303:LEU:HD23	1.88	0.56
1:z:214:PRO:HG2	1:z:216:ARG:HH21	1.71	0.56
1:1:185:ASP:HB2	1:1:259:LEU:HD11	1.88	0.56
1:2:265:ARG:HG3	1:7:42:SER:HG	1.70	0.56
1:3:185:ASP:HB2	1:3:259:LEU:HD11	1.88	0.56
1:D:188:ASN:HD21	1:D:501:GLY:HA2	1.70	0.55
1:J:214:PRO:HG2	1:J:216:ARG:HH21	1.71	0.55
1:J:300:ILE:HD11	1:J:303:LEU:HD23	1.87	0.55
1:K:159:THR:HG23	1:K:171:VAL:HB	1.87	0.55
1:Q:348:HIS:O	1:V:420:VAL:HG13	2.07	0.55
1:S:159:THR:HG23	1:S:171:VAL:HB	1.87	0.55
1:V:300:ILE:HD11	1:V:303:LEU:HD23	1.88	0.55
1:W:105:ASP:OD2	1:f:319:ARG:NH2	2.31	0.55
1:W:214:PRO:HG2	1:W:216:ARG:HH21	1.71	0.55
1:W:368:ILE:HD12	1:W:372:GLU:HA	1.88	0.55
1:Y:185:ASP:HB2	1:Y:259:LEU:HD11	1.88	0.55
1:Y:348:HIS:O	1:a:420:VAL:HG13	2.07	0.55
1:b:159:THR:HG23	1:b:171:VAL:HB	1.87	0.55
1:b:185:ASP:HB2	1:b:259:LEU:HD11	1.88	0.55
1:c:159:THR:HG23	1:c:171:VAL:HB	1.87	0.55
1:c:185:ASP:HB2	1:c:259:LEU:HD11	1.88	0.55
1:d:109:GLN:HE22	1:r:300:ILE:CG2	2.03	0.55
1:e:159:THR:HG23	1:e:171:VAL:HB	1.87	0.55
1:f:159:THR:HG23	1:f:171:VAL:HB	1.87	0.55
1:g:188:ASN:HD21	1:g:501:GLY:HA2	1.70	0.55
1:g:348:HIS:O	1:4:420:VAL:HG13	2.07	0.55
1:h:300:ILE:HD11	1:h:303:LEU:HD23	1.87	0.55
1:j:368:ILE:HD12	1:j:372:GLU:HA	1.88	0.55
1:k:188:ASN:HD21	1:k:501:GLY:HA2	1.70	0.55
1:p:420:VAL:HG13	1:x:348:HIS:O	2.07	0.55
1:q:214:PRO:HG2	1:q:216:ARG:HH21	1.71	0.55
1:s:214:PRO:HG2	1:s:216:ARG:HH21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:300:ILE:HD11	1:s:303:LEU:HD23	1.87	0.55
1:t:159:THR:HG23	1:t:171:VAL:HB	1.87	0.55
1:u:462:PHE:CE1	1:4:483:HIS:CE1	2.92	0.55
1:v:188:ASN:HD21	1:v:501:GLY:HA2	1.70	0.55
1:v:214:PRO:HG2	1:v:216:ARG:HH21	1.71	0.55
1:w:368:ILE:HD12	1:w:372:GLU:HA	1.87	0.55
1:y:547:LEU:CD1	1:5:189:ILE:HG21	2.34	0.55
1:z:368:ILE:HD12	1:z:372:GLU:HA	1.88	0.55
1:6:188:ASN:HD21	1:6:501:GLY:HA2	1.70	0.55
1:6:368:ILE:HD12	1:6:372:GLU:HA	1.88	0.55
1:7:185:ASP:HB2	1:7:259:LEU:HD11	1.88	0.55
2:SA:2:GLA:H2	2:SA:3:SIA:H8	1.87	0.55
2:vA:2:GLA:H2	2:vA:3:SIA:H8	1.87	0.55
1:A:214:PRO:HG2	1:A:216:ARG:HH21	1.71	0.55
1:C:185:ASP:HB2	1:C:259:LEU:HD11	1.88	0.55
1:C:348:HIS:O	1:K:420:VAL:HG13	2.07	0.55
1:F:300:ILE:HD11	1:F:303:LEU:HD23	1.87	0.55
1:G:159:THR:HG23	1:G:171:VAL:HB	1.87	0.55
1:G:556:THR:CG2	1:2:556:THR:CG2	2.69	0.55
1:M:300:ILE:HD11	1:M:303:LEU:HD23	1.87	0.55
1:N:214:PRO:HG2	1:N:216:ARG:HH21	1.71	0.55
1:N:420:VAL:HG13	1:r:348:HIS:O	2.07	0.55
1:O:188:ASN:HD21	1:O:501:GLY:HA2	1.70	0.55
1:O:214:PRO:HG2	1:O:216:ARG:HH21	1.71	0.55
1:S:348:HIS:O	1:i:420:VAL:HG13	2.07	0.55
1:d:159:THR:HG23	1:d:171:VAL:HB	1.87	0.55
1:e:102:ALA:CB	1:z:427:ILE:HD13	2.30	0.55
1:g:185:ASP:HB2	1:g:259:LEU:HD11	1.88	0.55
1:k:420:VAL:HG13	1:z:348:HIS:O	2.07	0.55
1:l:214:PRO:HG2	1:l:216:ARG:HH21	1.71	0.55
1:y:300:ILE:HD11	1:y:303:LEU:HD23	1.87	0.55
1:y:420:VAL:HG13	1:5:348:HIS:O	2.07	0.55
1:2:214:PRO:HG2	1:2:216:ARG:HH21	1.71	0.55
1:2:300:ILE:HD11	1:2:303:LEU:HD23	1.87	0.55
1:3:420:VAL:HG13	1:7:348:HIS:O	2.07	0.55
1:6:214:PRO:HG2	1:6:216:ARG:HH21	1.71	0.55
2:KB:2:GLA:H2	2:KB:3:SIA:H8	1.87	0.55
2:NB:2:GLA:H2	2:NB:3:SIA:H8	1.87	0.55
1:C:420:VAL:HG13	1:I:348:HIS:O	2.07	0.55
1:D:368:ILE:HD12	1:D:372:GLU:HA	1.88	0.55
1:D:420:VAL:HG13	1:L:348:HIS:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:420:VAL:HG13	1:H:348:HIS:O	2.07	0.55
1:G:214:PRO:HG2	1:G:216:ARG:HH21	1.71	0.55
1:G:348:HIS:O	1:Z:420:VAL:HG13	2.07	0.55
1:L:420:VAL:HG13	1:c:348:HIS:O	2.07	0.55
1:T:420:VAL:HG13	1:V:348:HIS:O	2.07	0.55
1:U:300:ILE:HD11	1:U:303:LEU:HD23	1.87	0.55
1:Z:188:ASN:HD21	1:Z:501:GLY:HA2	1.70	0.55
1:h:214:PRO:HG2	1:h:216:ARG:HH21	1.71	0.55
1:o:42:SER:HG	1:y:265:ARG:HG3	1.69	0.55
1:r:159:THR:HG23	1:r:171:VAL:HB	1.87	0.55
1:r:188:ASN:HD21	1:r:501:GLY:HA2	1.70	0.55
1:t:214:PRO:HG2	1:t:216:ARG:HH21	1.71	0.55
1:t:348:HIS:O	1:8:420:VAL:HG13	2.07	0.55
1:u:368:ILE:HD12	1:u:372:GLU:HA	1.88	0.55
1:4:159:THR:HG23	1:4:171:VAL:HB	1.87	0.55
2:gA:2:GLA:H2	2:gA:3:SIA:H8	1.87	0.55
2:1A:1:NAG:H4	2:1A:2:GLA:H5	1.89	0.55
2:VB:1:NAG:H4	2:VB:2:GLA:H5	1.89	0.55
1:A:420:VAL:HG13	1:P:348:HIS:O	2.07	0.55
1:B:348:HIS:O	1:H:420:VAL:HG13	2.07	0.55
1:D:348:HIS:O	1:c:420:VAL:HG13	2.07	0.55
1:E:348:HIS:O	1:O:420:VAL:HG13	2.07	0.55
1:G:420:VAL:HG13	1:X:348:HIS:O	2.07	0.55
1:I:368:ILE:HD12	1:I:372:GLU:HA	1.88	0.55
1:M:214:PRO:HG2	1:M:216:ARG:HH21	1.71	0.55
1:P:185:ASP:HB2	1:P:259:LEU:HD11	1.88	0.55
1:Q:188:ASN:HD21	1:Q:501:GLY:HA2	1.70	0.55
1:V:214:PRO:HG2	1:V:216:ARG:HH21	1.71	0.55
1:X:420:VAL:HG13	1:Z:348:HIS:O	2.07	0.55
1:b:300:ILE:HD11	1:b:303:LEU:HD23	1.87	0.55
1:e:348:HIS:O	1:z:420:VAL:HG13	2.07	0.55
1:e:417:ARG:HB2	1:k:353:ALA:CB	2.37	0.55
1:f:300:ILE:HD11	1:f:303:LEU:HD23	1.87	0.55
1:g:159:THR:HG23	1:g:171:VAL:HB	1.87	0.55
1:g:420:VAL:HG13	1:u:348:HIS:O	2.07	0.55
1:i:214:PRO:HG2	1:i:216:ARG:HH21	1.71	0.55
1:j:185:ASP:HB2	1:j:259:LEU:HD11	1.88	0.55
1:j:188:ASN:HD21	1:j:501:GLY:HA2	1.70	0.55
1:k:368:ILE:HD12	1:k:372:GLU:HA	1.88	0.55
1:l:188:ASN:HD21	1:l:501:GLY:HA2	1.70	0.55
1:m:300:ILE:HD11	1:m:303:LEU:HD23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:420:VAL:HG13	1:p:348:HIS:O	2.07	0.55
1:n:159:THR:HG23	1:n:171:VAL:HB	1.87	0.55
1:o:348:HIS:O	1:t:420:VAL:HG13	2.07	0.55
1:o:420:VAL:HG13	1:8:348:HIS:O	2.07	0.55
1:q:368:ILE:HD12	1:q:372:GLU:HA	1.88	0.55
1:y:417:ARG:HB2	1:5:353:ALA:CB	2.37	0.55
1:3:547:LEU:CD1	1:7:189:ILE:HG21	2.34	0.55
1:8:188:ASN:HD21	1:8:501:GLY:HA2	1.70	0.55
2:tA:1:NAG:H4	2:tA:2:GLA:H5	1.89	0.55
1:C:159:THR:HG23	1:C:171:VAL:HB	1.87	0.55
1:C:300:ILE:CG2	1:I:109:GLN:HE22	2.03	0.55
1:D:159:THR:HG23	1:D:171:VAL:HB	1.87	0.55
1:F:417:ARG:HB2	1:H:353:ALA:CB	2.37	0.55
1:G:127:GLN:HE21	1:a:257:ASN:CB	2.20	0.55
1:G:353:ALA:CB	1:Z:417:ARG:HB2	2.37	0.55
1:L:591:MET:CE	1:c:191:PRO:HG3	2.09	0.55
1:P:188:ASN:HD21	1:P:501:GLY:HA2	1.70	0.55
1:P:214:PRO:HG2	1:P:216:ARG:HH21	1.71	0.55
1:Q:556:THR:CG2	1:f:556:THR:CG2	2.68	0.55
1:R:368:ILE:HD12	1:R:372:GLU:HA	1.88	0.55
1:S:188:ASN:HD21	1:S:501:GLY:HA2	1.70	0.55
1:T:300:ILE:HD11	1:T:303:LEU:HD23	1.88	0.55
1:U:210:THR:HG22	1:U:211:ALA:H	1.72	0.55
1:X:368:ILE:HD12	1:X:372:GLU:HA	1.87	0.55
1:Y:189:ILE:HG21	1:a:547:LEU:CD1	2.34	0.55
1:e:188:ASN:HD21	1:e:501:GLY:HA2	1.70	0.55
1:e:420:VAL:HG13	1:k:348:HIS:O	2.07	0.55
1:g:300:ILE:CG2	1:u:109:GLN:HE22	2.03	0.55
1:i:152:ASN:HD21	1:r:263:LEU:HD12	1.71	0.55
1:j:214:PRO:HG2	1:j:216:ARG:HH21	1.71	0.55
1:j:348:HIS:O	1:v:420:VAL:HG13	2.07	0.55
1:l:420:VAL:HG13	1:w:348:HIS:O	2.07	0.55
1:m:105:ASP:OD2	1:x:319:ARG:NH2	2.31	0.55
1:m:591:MET:CE	1:p:191:PRO:HG3	2.09	0.55
1:n:368:ILE:HD12	1:n:372:GLU:HA	1.88	0.55
1:o:300:ILE:HD11	1:o:303:LEU:HD23	1.87	0.55
1:t:127:GLN:HE21	1:3:257:ASN:CB	2.20	0.55
1:t:353:ALA:CB	1:8:417:ARG:HB2	2.37	0.55
1:1:348:HIS:O	1:5:420:VAL:HG13	2.07	0.55
2:LA:1:NAG:H4	2:LA:2:GLA:H5	1.89	0.55
2:SA:1:NAG:H4	2:SA:2:GLA:H5	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:XA:1:NAG:H4	2:XA:2:GLA:H5	1.89	0.55
2:YA:1:NAG:H4	2:YA:2:GLA:H5	1.89	0.55
2:eA:1:NAG:H4	2:eA:2:GLA:H5	1.89	0.55
2:gA:1:NAG:H4	2:gA:2:GLA:H5	1.89	0.55
2:mA:2:GLA:H2	2:mA:3:SIA:H8	1.87	0.55
2:AB:1:NAG:H4	2:AB:2:GLA:H5	1.89	0.55
1:B:210:THR:HG22	1:B:211:ALA:H	1.72	0.55
1:D:353:ALA:CB	1:c:417:ARG:HB2	2.37	0.55
1:H:159:THR:HG23	1:H:171:VAL:HB	1.87	0.55
1:I:185:ASP:HB2	1:I:259:LEU:HD11	1.88	0.55
1:J:556:THR:CG2	1:t:556:THR:CG2	2.69	0.55
1:L:300:ILE:HD11	1:L:303:LEU:HD23	1.87	0.55
1:L:427:ILE:HD13	1:c:102:ALA:CB	2.30	0.55
1:M:417:ARG:HB2	1:O:353:ALA:CB	2.37	0.55
1:N:152:ASN:HD21	1:S:263:LEU:HD12	1.71	0.55
1:W:300:ILE:HD11	1:W:303:LEU:HD23	1.87	0.55
1:X:185:ASP:HB2	1:X:259:LEU:HD11	1.88	0.55
1:X:214:PRO:HG2	1:X:216:ARG:HH21	1.71	0.55
1:Z:127:GLN:HE21	1:f:257:ASN:CB	2.20	0.55
1:d:368:ILE:HD12	1:d:372:GLU:HA	1.88	0.55
1:h:348:HIS:O	1:w:420:VAL:HG13	2.07	0.55
1:h:417:ARG:HB2	1:l:353:ALA:CB	2.37	0.55
1:k:159:THR:HG23	1:k:171:VAL:HB	1.87	0.55
1:l:210:THR:HG22	1:l:211:ALA:H	1.72	0.55
1:m:353:ALA:CB	1:x:417:ARG:HB2	2.37	0.55
1:o:368:ILE:HD12	1:o:372:GLU:HA	1.87	0.55
1:p:214:PRO:HG2	1:p:216:ARG:HH21	1.71	0.55
1:s:185:ASP:HB2	1:s:259:LEU:HD11	1.88	0.55
1:s:210:THR:HG22	1:s:211:ALA:H	1.72	0.55
1:t:210:THR:HG22	1:t:211:ALA:H	1.72	0.55
1:x:188:ASN:HD21	1:x:501:GLY:HA2	1.70	0.55
1:y:353:ALA:CB	1:1:417:ARG:HB2	2.37	0.55
1:1:210:THR:HG22	1:1:211:ALA:H	1.72	0.55
1:5:159:THR:HG23	1:5:171:VAL:HB	1.87	0.55
2:CA:1:NAG:H4	2:CA:2:GLA:H5	1.89	0.55
2:FA:1:NAG:H4	2:FA:2:GLA:H5	1.89	0.55
2:pA:1:NAG:H4	2:pA:2:GLA:H5	1.89	0.55
2:5A:1:NAG:H4	2:5A:2:GLA:H5	1.89	0.55
2:TB:1:NAG:H4	2:TB:2:GLA:H5	1.89	0.55
1:A:210:THR:HG22	1:A:211:ALA:H	1.72	0.55
1:B:417:ARG:HB2	1:F:353:ALA:CB	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:185:ASP:HB2	1:D:259:LEU:HD11	1.88	0.55
1:E:300:ILE:HD11	1:E:303:LEU:HD23	1.87	0.55
1:E:417:ARG:HB2	1:M:353:ALA:CB	2.37	0.55
1:E:420:VAL:HG13	1:M:348:HIS:O	2.07	0.55
1:G:210:THR:HG22	1:G:211:ALA:H	1.72	0.55
1:J:159:THR:HG23	1:J:171:VAL:HB	1.87	0.55
1:J:353:ALA:CB	1:7:417:ARG:HB2	2.37	0.55
1:O:210:THR:HG22	1:O:211:ALA:H	1.72	0.55
1:Q:417:ARG:HB2	1:T:353:ALA:CB	2.37	0.55
1:T:417:ARG:HB2	1:V:353:ALA:CB	2.37	0.55
1:U:185:ASP:HB2	1:U:259:LEU:HD11	1.88	0.55
1:U:353:ALA:CB	1:W:417:ARG:HB2	2.37	0.55
1:U:417:ARG:HB2	1:f:353:ALA:CB	2.37	0.55
1:W:477:LYS:HB2	1:W:499:PRO:HG3	1.89	0.55
1:X:300:ILE:HD11	1:X:303:LEU:HD23	1.87	0.55
1:Y:210:THR:HG22	1:Y:211:ALA:H	1.72	0.55
1:Y:417:ARG:HB2	1:2:353:ALA:CB	2.37	0.55
1:a:189:ILE:HG21	1:2:547:LEU:CD1	2.34	0.55
1:b:257:ASN:CB	1:8:127:GLN:HE21	2.20	0.55
1:c:188:ASN:HD21	1:c:501:GLY:HA2	1.70	0.55
1:c:368:ILE:HD12	1:c:372:GLU:HA	1.88	0.55
1:e:191:PRO:HG3	1:z:591:MET:CE	2.09	0.55
1:h:353:ALA:CB	1:w:417:ARG:HB2	2.37	0.55
1:l:185:ASP:HB2	1:l:259:LEU:HD11	1.88	0.55
1:l:257:ASN:CB	1:q:127:GLN:HE21	2.20	0.55
1:m:417:ARG:HB2	1:p:353:ALA:CB	2.37	0.55
1:o:185:ASP:HB2	1:o:259:LEU:HD11	1.88	0.55
1:o:210:THR:HG22	1:o:211:ALA:H	1.72	0.55
1:o:214:PRO:HG2	1:o:216:ARG:HH21	1.71	0.55
1:s:353:ALA:CB	1:6:417:ARG:HB2	2.37	0.55
1:v:210:THR:HG22	1:v:211:ALA:H	1.72	0.55
1:w:300:ILE:HD11	1:w:303:LEU:HD23	1.87	0.55
1:1:368:ILE:HD12	1:1:372:GLU:HA	1.88	0.55
1:3:368:ILE:HD12	1:3:372:GLU:HA	1.88	0.55
1:6:300:ILE:HD11	1:6:303:LEU:HD23	1.87	0.55
1:6:477:LYS:HB2	1:6:499:PRO:HG3	1.89	0.55
1:7:210:THR:HG22	1:7:211:ALA:H	1.72	0.55
2:PA:2:GLA:H2	2:PA:3:SIA:H8	1.87	0.55
2:pA:2:GLA:H2	2:pA:3:SIA:H8	1.87	0.55
2:yA:1:NAG:H4	2:yA:2:GLA:H5	1.89	0.55
2:WB:2:GLA:H2	2:WB:3:SIA:H8	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:368:ILE:HD12	1:B:372:GLU:HA	1.88	0.55
1:D:210:THR:HG22	1:D:211:ALA:H	1.72	0.55
1:E:159:THR:HG23	1:E:171:VAL:HB	1.87	0.55
1:H:188:ASN:HD21	1:H:501:GLY:HA2	1.70	0.55
1:H:210:THR:HG22	1:H:211:ALA:H	1.72	0.55
1:J:263:LEU:HD12	1:Y:152:ASN:HD21	1.71	0.55
1:J:348:HIS:O	1:7:420:VAL:HG13	2.07	0.55
1:N:556:THR:CG2	1:i:556:THR:CG2	2.68	0.55
1:O:185:ASP:HB2	1:O:259:LEU:HD11	1.88	0.55
1:O:257:ASN:CB	1:R:127:GLN:HE21	2.20	0.55
1:Q:159:THR:HG23	1:Q:171:VAL:HB	1.87	0.55
1:Q:210:THR:HG22	1:Q:211:ALA:H	1.72	0.55
1:Q:214:PRO:HG2	1:Q:216:ARG:HH21	1.71	0.55
1:Q:462:PHE:CB	1:T:483:HIS:CE1	2.90	0.55
1:U:348:HIS:O	1:W:420:VAL:HG13	2.07	0.55
1:X:210:THR:HG22	1:X:211:ALA:H	1.72	0.55
1:Y:420:VAL:HG13	1:2:348:HIS:O	2.07	0.55
1:a:368:ILE:HD12	1:a:372:GLU:HA	1.88	0.55
1:b:353:ALA:CB	1:s:417:ARG:HB2	2.37	0.55
1:c:300:ILE:HD11	1:c:303:LEU:HD23	1.87	0.55
1:e:368:ILE:HD12	1:e:372:GLU:HA	1.88	0.55
1:f:477:LYS:HB2	1:f:499:PRO:HG3	1.89	0.55
1:h:420:VAL:HG13	1:l:348:HIS:O	2.07	0.55
1:k:185:ASP:HB2	1:k:259:LEU:HD11	1.88	0.55
1:k:210:THR:HG22	1:k:211:ALA:H	1.72	0.55
1:t:152:ASN:HD22	1:3:263:LEU:HD12	1.72	0.55
1:u:185:ASP:HB2	1:u:259:LEU:HD11	1.88	0.55
1:w:159:THR:HG23	1:w:171:VAL:HB	1.87	0.55
1:x:159:THR:HG23	1:x:171:VAL:HB	1.87	0.55
1:x:185:ASP:HB2	1:x:259:LEU:HD11	1.88	0.55
1:x:210:THR:HG22	1:x:211:ALA:H	1.72	0.55
1:z:300:ILE:HD11	1:z:303:LEU:HD23	1.87	0.55
1:3:417:ARG:HB2	1:7:353:ALA:CB	2.37	0.55
1:5:210:THR:HG22	1:5:211:ALA:H	1.72	0.55
2:jA:2:GLA:H2	2:jA:3:SIA:H8	1.87	0.55
2:zA:2:GLA:H2	2:zA:3:SIA:H8	1.87	0.55
1:A:257:ASN:CB	1:M:127:GLN:HE21	2.20	0.55
1:A:353:ALA:CB	1:R:417:ARG:HB2	2.37	0.55
1:D:189:ILE:HG21	1:c:547:LEU:CD1	2.34	0.55
1:I:547:LEU:CD1	1:K:189:ILE:HG21	2.34	0.55
1:J:210:THR:HG22	1:J:211:ALA:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:458:PRO:HG3	1:3:456:TYR:CE1	2.42	0.55
1:J:547:LEU:CD1	1:3:189:ILE:HG21	2.34	0.55
1:M:420:VAL:HG13	1:O:348:HIS:O	2.07	0.55
1:U:188:ASN:HD21	1:U:501:GLY:HA2	1.70	0.55
1:V:210:THR:HG22	1:V:211:ALA:H	1.72	0.55
1:Y:353:ALA:CB	1:a:417:ARG:HB2	2.37	0.55
1:a:456:TYR:CE1	1:2:458:PRO:HG3	2.42	0.55
1:a:483:HIS:CE1	1:2:462:PHE:CB	2.90	0.55
1:a:556:THR:CG2	1:g:556:THR:CG2	2.68	0.55
1:b:477:LYS:HB2	1:b:499:PRO:HG3	1.89	0.55
1:e:300:ILE:HD11	1:e:303:LEU:HD23	1.87	0.55
1:g:214:PRO:HG2	1:g:216:ARG:HH21	1.71	0.55
1:g:300:ILE:HD11	1:g:303:LEU:HD23	1.88	0.55
1:l:300:ILE:HD11	1:l:303:LEU:HD23	1.87	0.55
1:n:188:ASN:HD21	1:n:501:GLY:HA2	1.70	0.55
1:q:477:LYS:HB2	1:q:499:PRO:HG3	1.89	0.55
1:s:348:HIS:O	1:6:420:VAL:HG13	2.07	0.55
1:2:159:THR:HG23	1:2:171:VAL:HB	1.87	0.55
1:2:263:LEU:HD12	1:7:152:ASN:HD21	1.71	0.55
1:5:188:ASN:HD21	1:5:501:GLY:HA2	1.70	0.55
2:AA:1:NAG:H4	2:AA:2:GLA:H5	1.89	0.55
2:PA:1:NAG:H4	2:PA:2:GLA:H5	1.89	0.55
2:YA:2:GLA:H2	2:YA:3:SIA:H8	1.87	0.55
2:SB:2:GLA:H2	2:SB:3:SIA:H8	1.87	0.55
2:YB:1:NAG:H4	2:YB:2:GLA:H5	1.89	0.55
2:YB:2:GLA:H2	2:YB:3:SIA:H8	1.87	0.55
1:B:127:GLN:HE21	1:Z:257:ASN:CB	2.20	0.55
1:B:420:VAL:HG13	1:F:348:HIS:O	2.07	0.55
1:B:477:LYS:HB2	1:B:499:PRO:HG3	1.89	0.55
1:C:152:ASN:HD21	1:7:263:LEU:HD12	1.71	0.55
1:C:214:PRO:HG2	1:C:216:ARG:HH21	1.71	0.55
1:C:456:TYR:CE1	1:K:458:PRO:HG3	2.42	0.55
1:C:462:PHE:CB	1:I:483:HIS:CE1	2.90	0.55
1:E:456:TYR:CE1	1:O:458:PRO:HG3	2.42	0.55
1:J:462:PHE:CB	1:3:483:HIS:CE1	2.90	0.55
1:L:82:ARG:HG2	1:L:108:GLN:HE21	1.72	0.55
1:L:257:ASN:CB	1:6:127:GLN:HE21	2.20	0.55
1:M:159:THR:HG23	1:M:171:VAL:HB	1.87	0.55
1:N:257:ASN:CB	1:p:127:GLN:HE21	2.20	0.55
1:N:348:HIS:O	1:d:420:VAL:HG13	2.07	0.55
1:O:300:ILE:HD11	1:O:303:LEU:HD23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:477:LYS:HB2	1:O:499:PRO:HG3	1.89	0.55
1:Q:185:ASP:HB2	1:Q:259:LEU:HD11	1.88	0.55
1:R:210:THR:HG22	1:R:211:ALA:H	1.72	0.55
1:R:477:LYS:HB2	1:R:499:PRO:HG3	1.89	0.55
1:U:547:LEU:CD1	1:f:189:ILE:HG21	2.34	0.55
1:V:127:GLN:HE21	1:i:257:ASN:CB	2.20	0.55
1:W:185:ASP:HB2	1:W:259:LEU:HD11	1.88	0.55
1:W:348:HIS:O	1:f:420:VAL:HG13	2.07	0.55
1:Y:300:ILE:HD11	1:Y:303:LEU:HD23	1.87	0.55
1:Y:456:TYR:CE1	1:a:458:PRO:HG3	2.42	0.55
1:a:348:HIS:O	1:2:420:VAL:HG13	2.07	0.55
1:b:420:VAL:HG13	1:6:348:HIS:O	2.07	0.55
1:g:353:ALA:CB	1:4:417:ARG:HB2	2.37	0.55
1:g:456:TYR:CE1	1:4:458:PRO:HG3	2.42	0.55
1:i:189:ILE:HG21	1:n:547:LEU:CD1	2.34	0.55
1:l:458:PRO:HG3	1:w:456:TYR:CE1	2.42	0.55
1:l:477:LYS:HB2	1:l:499:PRO:HG3	1.89	0.55
1:m:348:HIS:O	1:x:420:VAL:HG13	2.07	0.55
1:p:210:THR:HG22	1:p:211:ALA:H	1.72	0.55
1:q:159:THR:HG23	1:q:171:VAL:HB	1.87	0.55
1:q:417:ARG:HB2	1:v:353:ALA:CB	2.37	0.55
1:u:547:LEU:CD1	1:4:189:ILE:HG21	2.34	0.55
1:y:348:HIS:O	1:1:420:VAL:HG13	2.07	0.55
1:2:210:THR:HG22	1:2:211:ALA:H	1.72	0.55
1:3:458:PRO:HG3	1:7:456:TYR:CE1	2.42	0.55
1:6:185:ASP:HB2	1:6:259:LEU:HD11	1.88	0.55
1:7:300:ILE:HD11	1:7:303:LEU:HD23	1.87	0.55
2:jA:1:NAG:H4	2:jA:2:GLA:H5	1.89	0.55
2:mA:1:NAG:H4	2:mA:2:GLA:H5	1.89	0.55
2:sA:1:NAG:H4	2:sA:2:GLA:H5	1.89	0.55
2:zA:1:NAG:H4	2:zA:2:GLA:H5	1.89	0.55
2:DB:1:NAG:H4	2:DB:2:GLA:H5	1.89	0.55
2:GB:1:NAG:H4	2:GB:2:GLA:H5	1.89	0.55
2:ZB:1:NAG:H4	2:ZB:2:GLA:H5	1.89	0.55
1:A:127:GLN:HE21	1:V:257:ASN:CB	2.20	0.54
1:A:456:TYR:CE1	1:R:458:PRO:HG3	2.42	0.54
1:C:300:ILE:HD11	1:C:303:LEU:HD23	1.88	0.54
1:C:353:ALA:CB	1:K:417:ARG:HB2	2.37	0.54
1:C:477:LYS:HB2	1:C:499:PRO:HG3	1.89	0.54
1:E:458:PRO:HG3	1:M:456:TYR:CE1	2.42	0.54
1:E:547:LEU:CD1	1:M:189:ILE:HG21	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:257:ASN:CB	1:U:127:GLN:HE21	2.20	0.54
1:K:185:ASP:HB2	1:K:259:LEU:HD11	1.88	0.54
1:L:477:LYS:HB2	1:L:499:PRO:HG3	1.89	0.54
1:P:420:VAL:HG13	1:R:348:HIS:O	2.07	0.54
1:P:458:PRO:HG3	1:R:456:TYR:CE1	2.42	0.54
1:Q:420:VAL:HG13	1:T:348:HIS:O	2.07	0.54
1:U:82:ARG:HG2	1:U:108:GLN:HE21	1.72	0.54
1:W:82:ARG:HG2	1:W:108:GLN:HE21	1.73	0.54
1:W:127:GLN:HE21	1:z:257:ASN:CB	2.20	0.54
1:Y:263:LEU:HD12	1:g:152:ASN:HD21	1.71	0.54
1:b:189:ILE:HG21	1:s:547:LEU:CD1	2.34	0.54
1:d:185:ASP:HB2	1:d:259:LEU:HD11	1.88	0.54
1:d:188:ASN:HD21	1:d:501:GLY:HA2	1.70	0.54
1:e:456:TYR:CE1	1:z:458:PRO:HG3	2.42	0.54
1:g:462:PHE:CB	1:u:483:HIS:CE1	2.90	0.54
1:g:477:LYS:HB2	1:g:499:PRO:HG3	1.89	0.54
1:h:152:ASN:HD21	1:v:263:LEU:HD12	1.71	0.54
1:h:159:THR:HG23	1:h:171:VAL:HB	1.87	0.54
1:h:189:ILE:HG21	1:w:547:LEU:CD1	2.34	0.54
1:h:456:TYR:CE1	1:w:458:PRO:HG3	2.42	0.54
1:i:348:HIS:O	1:n:420:VAL:HG13	2.07	0.54
1:j:420:VAL:HG13	1:q:348:HIS:O	2.07	0.54
1:j:458:PRO:HG3	1:q:456:TYR:CE1	2.42	0.54
1:k:300:ILE:HD11	1:k:303:LEU:HD23	1.87	0.54
1:p:458:PRO:HG3	1:x:456:TYR:CE1	2.42	0.54
1:s:82:ARG:HG2	1:s:108:GLN:HE21	1.72	0.54
1:s:188:ASN:HD21	1:s:501:GLY:HA2	1.70	0.54
1:s:368:ILE:HD12	1:s:372:GLU:HA	1.88	0.54
1:w:185:ASP:HB2	1:w:259:LEU:HD11	1.88	0.54
1:w:257:ASN:CB	1:z:127:GLN:HE21	2.20	0.54
1:x:214:PRO:HG2	1:x:216:ARG:HH21	1.71	0.54
1:z:82:ARG:HG2	1:z:108:GLN:HE21	1.72	0.54
1:1:127:GLN:HE21	1:8:257:ASN:CB	2.20	0.54
1:1:477:LYS:HB2	1:1:499:PRO:HG3	1.89	0.54
1:6:82:ARG:HG2	1:6:108:GLN:HE21	1.73	0.54
2:UA:1:NAG:H4	2:UA:2:GLA:H5	1.89	0.54
2:dA:1:NAG:H4	2:dA:2:GLA:H5	1.89	0.54
2:wA:2:GLA:H2	2:wA:3:SIA:H8	1.87	0.54
2:WB:1:NAG:H4	2:WB:2:GLA:H5	1.89	0.54
1:A:348:HIS:O	1:R:420:VAL:HG13	2.07	0.54
1:A:417:ARG:HB2	1:P:353:ALA:CB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:257:ASN:CB	1:L:127:GLN:HE21	2.20	0.54
1:J:420:VAL:HG13	1:3:348:HIS:O	2.07	0.54
1:L:263:LEU:HD12	1:6:152:ASN:HD21	1.71	0.54
1:L:458:PRO:HG3	1:c:456:TYR:CE1	2.42	0.54
1:M:257:ASN:CB	1:r:127:GLN:HE21	2.20	0.54
1:N:353:ALA:CB	1:d:417:ARG:HB2	2.37	0.54
1:Q:456:TYR:CE1	1:V:458:PRO:HG3	2.42	0.54
1:R:159:THR:HG23	1:R:171:VAL:HB	1.87	0.54
1:S:127:GLN:HE21	1:h:257:ASN:CB	2.20	0.54
1:T:210:THR:HG22	1:T:211:ALA:H	1.72	0.54
1:U:368:ILE:HD12	1:U:372:GLU:HA	1.88	0.54
1:U:456:TYR:CE1	1:W:458:PRO:HG3	2.42	0.54
1:Y:458:PRO:HG3	1:2:456:TYR:CE1	2.42	0.54
1:Z:185:ASP:HB2	1:Z:259:LEU:HD11	1.88	0.54
1:b:210:THR:HG22	1:b:211:ALA:H	1.72	0.54
1:e:547:LEU:CD1	1:k:189:ILE:HG21	2.34	0.54
1:e:556:THR:CG2	1:u:556:THR:CG2	2.68	0.54
1:h:127:GLN:HE21	1:v:257:ASN:CB	2.20	0.54
1:j:189:ILE:HG21	1:v:547:LEU:CD1	2.34	0.54
1:j:353:ALA:CB	1:v:417:ARG:HB2	2.37	0.54
1:n:185:ASP:HB2	1:n:259:LEU:HD11	1.88	0.54
1:q:210:THR:HG22	1:q:211:ALA:H	1.72	0.54
1:s:127:GLN:HE21	1:t:257:ASN:CB	2.20	0.54
1:s:456:TYR:CE1	1:6:458:PRO:HG3	2.42	0.54
2:GA:2:GLA:H2	2:GA:3:SIA:H8	1.87	0.54
2:aA:1:NAG:H4	2:aA:2:GLA:H5	1.89	0.54
2:nA:1:NAG:H4	2:nA:2:GLA:H5	1.89	0.54
2:7A:1:NAG:H4	2:7A:2:GLA:H5	1.89	0.54
2:BB:1:NAG:H4	2:BB:2:GLA:H5	1.89	0.54
1:A:263:LEU:HD12	1:M:152:ASN:HD21	1.71	0.54
1:D:300:ILE:HD11	1:D:303:LEU:HD23	1.87	0.54
1:E:185:ASP:HB2	1:E:259:LEU:HD11	1.88	0.54
1:E:462:PHE:CE1	1:M:483:HIS:CE1	2.92	0.54
1:J:185:ASP:HB2	1:J:259:LEU:HD11	1.88	0.54
1:J:456:TYR:CE1	1:7:458:PRO:HG3	2.42	0.54
1:M:458:PRO:HG3	1:O:456:TYR:CE1	2.42	0.54
1:N:189:ILE:HG21	1:d:547:LEU:CD1	2.34	0.54
1:W:152:ASN:HD21	1:z:263:LEU:HD12	1.71	0.54
1:Y:483:HIS:CE1	1:a:462:PHE:CB	2.90	0.54
1:Z:152:ASN:HD21	1:f:263:LEU:HD12	1.71	0.54
1:d:127:GLN:HE21	1:x:257:ASN:CB	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:210:THR:HG22	1:f:211:ALA:H	1.72	0.54
1:h:210:THR:HG22	1:h:211:ALA:H	1.72	0.54
1:i:353:ALA:CB	1:n:417:ARG:HB2	2.37	0.54
1:j:159:THR:HG23	1:j:171:VAL:HB	1.87	0.54
1:l:82:ARG:HG2	1:l:108:GLN:HE21	1.72	0.54
1:t:185:ASP:HB2	1:t:259:LEU:HD11	1.88	0.54
1:z:477:LYS:HB2	1:z:499:PRO:HG3	1.89	0.54
1:3:462:PHE:CB	1:7:483:HIS:CE1	2.90	0.54
1:4:185:ASP:HB2	1:4:259:LEU:HD11	1.88	0.54
2:OA:1:NAG:H4	2:OA:2:GLA:H5	1.89	0.54
2:bA:1:NAG:H4	2:bA:2:GLA:H5	1.89	0.54
2:2A:1:NAG:H4	2:2A:2:GLA:H5	1.89	0.54
1:A:547:LEU:CD1	1:P:189:ILE:HG21	2.34	0.54
1:C:556:THR:CG2	1:3:556:THR:CG2	2.68	0.54
1:L:417:ARG:HB2	1:c:353:ALA:CB	2.37	0.54
1:M:185:ASP:HB2	1:M:259:LEU:HD11	1.88	0.54
1:M:210:THR:HG22	1:M:211:ALA:H	1.72	0.54
1:M:462:PHE:CE1	1:O:483:HIS:CE1	2.92	0.54
1:N:210:THR:HG22	1:N:211:ALA:H	1.72	0.54
1:O:82:ARG:HG2	1:O:108:GLN:HE21	1.72	0.54
1:P:159:THR:HG23	1:P:171:VAL:HB	1.87	0.54
1:P:210:THR:HG22	1:P:211:ALA:H	1.72	0.54
1:Q:257:ASN:CB	1:n:127:GLN:HE21	2.20	0.54
1:U:257:ASN:CB	1:k:127:GLN:HE21	2.20	0.54
1:a:82:ARG:HG2	1:a:108:GLN:HE21	1.72	0.54
1:a:210:THR:HG22	1:a:211:ALA:H	1.72	0.54
1:b:263:LEU:HD12	1:8:152:ASN:HD21	1.71	0.54
1:c:82:ARG:HG2	1:c:108:GLN:HE21	1.72	0.54
1:d:82:ARG:HG2	1:d:108:GLN:HE21	1.72	0.54
1:e:82:ARG:HG2	1:e:108:GLN:HE21	1.72	0.54
1:e:353:ALA:CB	1:z:417:ARG:HB2	2.37	0.54
1:h:458:PRO:HG3	1:l:456:TYR:CE1	2.42	0.54
1:m:185:ASP:HB2	1:m:259:LEU:HD11	1.88	0.54
1:m:210:THR:HG22	1:m:211:ALA:H	1.72	0.54
1:q:420:VAL:HG13	1:v:348:HIS:O	2.07	0.54
1:q:458:PRO:HG3	1:v:456:TYR:CE1	2.42	0.54
1:3:82:ARG:HG2	1:3:108:GLN:HE21	1.72	0.54
1:8:185:ASP:HB2	1:8:259:LEU:HD11	1.88	0.54
2:IA:1:NAG:H4	2:IA:2:GLA:H5	1.89	0.54
2:JA:1:NAG:H4	2:JA:2:GLA:H5	1.89	0.54
2:MA:1:NAG:H4	2:MA:2:GLA:H5	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:qA:1:NAG:H4	2:qA:2:GLA:H5	1.89	0.54
2:8A:2:GLA:H2	2:8A:3:SIA:H8	1.87	0.54
2:EB:1:NAG:H4	2:EB:2:GLA:H5	1.89	0.54
2:KB:1:NAG:H4	2:KB:2:GLA:H5	1.89	0.54
1:A:458:PRO:HG3	1:P:456:TYR:CE1	2.42	0.54
1:B:547:LEU:CD1	1:F:189:ILE:HG21	2.34	0.54
1:D:127:GLN:HE21	1:s:257:ASN:CB	2.20	0.54
1:E:82:ARG:HG2	1:E:108:GLN:HE21	1.72	0.54
1:G:185:ASP:HB2	1:G:259:LEU:HD11	1.88	0.54
1:G:263:LEU:HD12	1:U:152:ASN:HD21	1.71	0.54
1:I:210:THR:HG22	1:I:211:ALA:H	1.72	0.54
1:K:82:ARG:HG2	1:K:108:GLN:HE21	1.72	0.54
1:Q:353:ALA:CB	1:V:417:ARG:HB2	2.37	0.54
1:S:82:ARG:HG2	1:S:108:GLN:HE21	1.72	0.54
1:S:185:ASP:HB2	1:S:259:LEU:HD11	1.88	0.54
1:S:189:ILE:HG21	1:i:547:LEU:CD1	2.34	0.54
1:S:420:VAL:HG13	1:n:348:HIS:O	2.07	0.54
1:U:189:ILE:HG21	1:W:547:LEU:CD1	2.34	0.54
1:X:458:PRO:HG3	1:Z:456:TYR:CE1	2.42	0.54
1:a:159:THR:HG23	1:a:171:VAL:HB	1.87	0.54
1:d:152:ASN:HD21	1:x:263:LEU:HD12	1.71	0.54
1:d:348:HIS:O	1:r:420:VAL:HG13	2.07	0.54
1:d:353:ALA:CB	1:r:417:ARG:HB2	2.37	0.54
1:e:458:PRO:HG3	1:k:456:TYR:CE1	2.42	0.54
1:j:210:THR:HG22	1:j:211:ALA:H	1.72	0.54
1:l:417:ARG:HB2	1:w:353:ALA:CB	2.37	0.54
1:n:82:ARG:HG2	1:n:108:GLN:HE21	1.72	0.54
1:o:458:PRO:HG3	1:8:456:TYR:CE1	2.42	0.54
1:p:417:ARG:HB2	1:x:353:ALA:CB	2.37	0.54
1:s:189:ILE:HG21	1:6:547:LEU:CD1	2.34	0.54
1:s:483:HIS:CE1	1:6:462:PHE:CB	2.90	0.54
1:y:189:ILE:HG21	1:1:547:LEU:CD1	2.34	0.54
1:2:185:ASP:HB2	1:2:259:LEU:HD11	1.88	0.54
1:3:210:THR:HG22	1:3:211:ALA:H	1.72	0.54
1:5:214:PRO:HG2	1:5:216:ARG:HH21	1.71	0.54
2:kA:1:NAG:H4	2:kA:2:GLA:H5	1.89	0.54
1:B:458:PRO:HG3	1:F:456:TYR:CE1	2.42	0.54
1:D:191:PRO:HG3	1:c:591:MET:CE	2.09	0.54
1:D:456:TYR:CE1	1:c:458:PRO:HG3	2.42	0.54
1:E:353:ALA:CB	1:O:417:ARG:HB2	2.37	0.54
1:F:458:PRO:HG3	1:H:456:TYR:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:456:TYR:CE1	1:Z:458:PRO:HG3	2.42	0.54
1:I:82:ARG:HG2	1:I:108:GLN:HE21	1.72	0.54
1:I:556:THR:CG2	1:c:556:THR:CG2	2.68	0.54
1:N:547:LEU:CD1	1:r:189:ILE:HG21	2.34	0.54
1:Q:189:ILE:HG21	1:V:547:LEU:CD1	2.34	0.54
1:Q:263:LEU:HD12	1:n:152:ASN:HD21	1.71	0.54
1:S:417:ARG:HB2	1:n:353:ALA:CB	2.37	0.54
1:U:420:VAL:HG13	1:f:348:HIS:O	2.07	0.54
1:X:257:ASN:CB	1:2:127:GLN:HE21	2.20	0.54
1:h:185:ASP:HB2	1:h:259:LEU:HD11	1.88	0.54
1:i:210:THR:HG22	1:i:211:ALA:H	1.72	0.54
1:p:547:LEU:CD1	1:x:189:ILE:HG21	2.34	0.54
1:r:82:ARG:HG2	1:r:108:GLN:HE21	1.72	0.54
1:r:185:ASP:HB2	1:r:259:LEU:HD11	1.88	0.54
1:s:152:ASN:HD21	1:t:263:LEU:HD12	1.71	0.54
1:t:456:TYR:CE1	1:8:458:PRO:HG3	2.42	0.54
1:u:210:THR:HG22	1:u:211:ALA:H	1.72	0.54
1:w:82:ARG:HG2	1:w:108:GLN:HE21	1.72	0.54
1:y:210:THR:HG22	1:y:211:ALA:H	1.72	0.54
1:y:458:PRO:HG3	1:5:456:TYR:CE1	2.42	0.54
1:1:214:PRO:HG2	1:1:216:ARG:HH21	1.71	0.54
1:4:82:ARG:HG2	1:4:108:GLN:HE21	1.72	0.54
1:8:82:ARG:HG2	1:8:108:GLN:HE21	1.72	0.54
2:hA:1:NAG:H4	2:hA:2:GLA:H5	1.89	0.54
2:NB:1:NAG:H4	2:NB:2:GLA:H5	1.89	0.54
2:QB:1:NAG:H4	2:QB:2:GLA:H5	1.89	0.54
1:C:257:ASN:CB	1:F:127:GLN:HE21	2.20	0.54
1:G:458:PRO:HG3	1:X:456:TYR:CE1	2.42	0.54
1:H:214:PRO:HG2	1:H:216:ARG:HH21	1.71	0.54
1:I:420:VAL:HG13	1:K:348:HIS:O	2.07	0.54
1:K:477:LYS:HB2	1:K:499:PRO:HG3	1.89	0.54
1:N:127:GLN:HE21	1:S:257:ASN:CB	2.20	0.54
1:Q:458:PRO:HG3	1:T:456:TYR:CE1	2.42	0.54
1:S:353:ALA:CB	1:i:417:ARG:HB2	2.37	0.54
1:T:185:ASP:HB2	1:T:259:LEU:HD11	1.88	0.54
1:U:483:HIS:CE1	1:W:462:PHE:CB	2.90	0.54
1:Z:82:ARG:HG2	1:Z:108:GLN:HE21	1.72	0.54
1:b:348:HIS:O	1:s:420:VAL:HG13	2.07	0.54
1:g:257:ASN:CB	1:y:127:GLN:HE21	2.20	0.54
1:h:462:PHE:CE1	1:l:483:HIS:CE1	2.92	0.54
1:m:82:ARG:HG2	1:m:108:GLN:HE21	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:456:TYR:CE1	1:x:458:PRO:HG3	2.42	0.54
1:p:257:ASN:CB	1:v:127:GLN:HE21	2.20	0.54
1:u:82:ARG:HG2	1:u:108:GLN:HE21	1.72	0.54
1:y:456:TYR:CE1	1:1:458:PRO:HG3	2.42	0.54
1:A:483:HIS:CE1	1:R:462:PHE:CB	2.90	0.54
1:B:214:PRO:HG2	1:B:216:ARG:HH21	1.71	0.54
1:B:353:ALA:CB	1:H:417:ARG:HB2	2.37	0.54
1:C:458:PRO:HG3	1:I:456:TYR:CE1	2.42	0.54
1:F:210:THR:HG22	1:F:211:ALA:H	1.72	0.54
1:I:257:ASN:CB	1:3:127:GLN:HE21	2.20	0.54
1:J:127:GLN:HE21	1:o:257:ASN:CB	2.20	0.54
1:P:462:PHE:CB	1:R:483:HIS:CE1	2.90	0.54
1:V:82:ARG:HG2	1:V:108:GLN:HE21	1.72	0.54
1:W:189:ILE:HG21	1:f:547:LEU:CD1	2.34	0.54
1:X:417:ARG:HB2	1:Z:353:ALA:CB	2.37	0.54
1:g:458:PRO:HG3	1:u:456:TYR:CE1	2.42	0.54
1:i:127:GLN:HE21	1:r:257:ASN:CB	2.20	0.54
1:j:462:PHE:CB	1:q:483:HIS:CE1	2.90	0.54
1:k:458:PRO:HG3	1:z:456:TYR:CE1	2.42	0.54
1:o:82:ARG:HG2	1:o:108:GLN:HE21	1.72	0.54
1:o:456:TYR:CE1	1:t:458:PRO:HG3	2.42	0.54
1:q:462:PHE:CB	1:v:483:HIS:CE1	2.90	0.54
1:3:159:THR:HG23	1:3:171:VAL:HB	1.87	0.54
1:4:477:LYS:HB2	1:4:499:PRO:HG3	1.89	0.54
2:HB:1:NAG:H4	2:HB:2:GLA:H5	1.89	0.54
1:D:82:ARG:HG2	1:D:108:GLN:HE21	1.73	0.54
1:D:458:PRO:HG3	1:L:456:TYR:CE1	2.42	0.54
1:D:462:PHE:CB	1:L:483:HIS:CE1	2.90	0.54
1:F:257:ASN:CB	1:X:127:GLN:HE21	2.20	0.54
1:G:82:ARG:HG2	1:G:108:GLN:HE21	1.72	0.54
1:M:477:LYS:HB2	1:M:499:PRO:HG3	1.89	0.54
1:N:417:ARG:HB2	1:r:353:ALA:CB	2.37	0.54
1:T:82:ARG:HG2	1:T:108:GLN:HE21	1.72	0.54
1:W:456:TYR:CE1	1:f:458:PRO:HG3	2.42	0.54
1:X:82:ARG:HG2	1:X:108:GLN:HE21	1.72	0.54
1:e:591:MET:CE	1:k:191:PRO:HG3	2.09	0.54
1:k:82:ARG:HG2	1:k:108:GLN:HE21	1.73	0.54
1:k:462:PHE:CB	1:z:483:HIS:CE1	2.90	0.54
1:n:210:THR:HG22	1:n:211:ALA:H	1.72	0.54
1:o:417:ARG:HB2	1:8:353:ALA:CB	2.37	0.54
1:p:82:ARG:HG2	1:p:108:GLN:HE21	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:417:ARG:HB2	1:4:353:ALA:CB	2.37	0.54
1:u:420:VAL:HG13	1:4:348:HIS:O	2.07	0.54
1:1:353:ALA:CB	1:5:417:ARG:HB2	2.37	0.54
2:VA:1:NAG:H4	2:VA:2:GLA:H5	1.89	0.54
1:C:191:PRO:HG3	1:K:591:MET:CE	2.09	0.54
1:C:417:ARG:HB2	1:I:353:ALA:CB	2.37	0.54
1:D:417:ARG:HB2	1:L:353:ALA:CB	2.37	0.54
1:E:477:LYS:HB2	1:E:499:PRO:HG3	1.89	0.54
1:I:417:ARG:HB2	1:K:353:ALA:CB	2.37	0.54
1:P:417:ARG:HB2	1:R:353:ALA:CB	2.37	0.54
1:V:477:LYS:HB2	1:V:499:PRO:HG3	1.89	0.54
1:a:127:GLN:HE21	1:u:257:ASN:CB	2.20	0.54
1:b:456:TYR:CE1	1:s:458:PRO:HG3	2.42	0.54
1:b:458:PRO:HG3	1:6:456:TYR:CE1	2.42	0.54
1:d:210:THR:HG22	1:d:211:ALA:H	1.72	0.54
1:d:483:HIS:CE1	1:r:462:PHE:CB	2.90	0.54
1:g:263:LEU:HD12	1:y:152:ASN:HD21	1.71	0.54
1:j:456:TYR:CE1	1:v:458:PRO:HG3	2.42	0.54
1:k:547:LEU:CD1	1:z:189:ILE:HG21	2.34	0.54
1:o:127:GLN:HE21	1:y:257:ASN:CB	2.20	0.54
1:p:477:LYS:HB2	1:p:499:PRO:HG3	1.89	0.54
1:r:477:LYS:HB2	1:r:499:PRO:HG3	1.89	0.54
1:t:82:ARG:HG2	1:t:108:GLN:HE21	1.72	0.54
1:w:477:LYS:HB2	1:w:499:PRO:HG3	1.89	0.54
1:2:367:ASP:HB3	1:2:412:GLY:HA3	1.91	0.54
1:3:477:LYS:HB2	1:3:499:PRO:HG3	1.89	0.54
2:DA:1:NAG:H4	2:DA:2:GLA:H5	1.89	0.54
2:4A:1:NAG:H4	2:4A:2:GLA:H5	1.89	0.54
1:C:210:THR:HG22	1:C:211:ALA:H	1.72	0.53
1:G:417:ARG:HB2	1:X:353:ALA:CB	2.37	0.53
1:J:367:ASP:HB3	1:J:412:GLY:HA3	1.91	0.53
1:J:417:ARG:HB2	1:3:353:ALA:CB	2.37	0.53
1:J:483:HIS:CE1	1:7:462:PHE:CB	2.90	0.53
1:M:367:ASP:HB3	1:M:412:GLY:HA3	1.91	0.53
1:N:458:PRO:HG3	1:r:456:TYR:CE1	2.42	0.53
1:Q:82:ARG:HG2	1:Q:108:GLN:HE21	1.72	0.53
1:S:462:PHE:CB	1:n:483:HIS:CE1	2.90	0.53
1:S:477:LYS:HB2	1:S:499:PRO:HG3	1.89	0.53
1:U:458:PRO:HG3	1:f:456:TYR:CE1	2.42	0.53
1:Z:477:LYS:HB2	1:Z:499:PRO:HG3	1.89	0.53
1:a:353:ALA:CB	1:2:417:ARG:HB2	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:477:LYS:HB2	1:a:499:PRO:HG3	1.89	0.53
1:b:483:HIS:CE1	1:s:462:PHE:CB	2.90	0.53
1:b:547:LEU:CD1	1:6:189:ILE:HG21	2.34	0.53
1:g:417:ARG:HB2	1:u:353:ALA:CB	2.37	0.53
1:h:367:ASP:HB3	1:h:412:GLY:HA3	1.91	0.53
1:h:477:LYS:HB2	1:h:499:PRO:HG3	1.89	0.53
1:i:82:ARG:HG2	1:i:108:GLN:HE21	1.73	0.53
1:j:152:ASN:HD21	1:1:263:LEU:HD12	1.71	0.53
1:j:417:ARG:HB2	1:q:353:ALA:CB	2.37	0.53
1:k:417:ARG:HB2	1:z:353:ALA:CB	2.37	0.53
1:y:82:ARG:HG2	1:y:108:GLN:HE21	1.72	0.53
1:z:210:THR:HG22	1:z:211:ALA:H	1.72	0.53
1:1:456:TYR:CE1	1:5:458:PRO:HG3	2.42	0.53
1:8:477:LYS:HB2	1:8:499:PRO:HG3	1.89	0.53
1:B:456:TYR:CE1	1:H:458:PRO:HG3	2.42	0.53
1:D:547:LEU:CD1	1:L:189:ILE:HG21	2.34	0.53
1:I:458:PRO:HG3	1:K:456:TYR:CE1	2.42	0.53
1:M:82:ARG:HG2	1:M:108:GLN:HE21	1.72	0.53
1:N:82:ARG:HG2	1:N:108:GLN:HE21	1.73	0.53
1:R:82:ARG:HG2	1:R:108:GLN:HE21	1.72	0.53
1:S:367:ASP:HB3	1:S:412:GLY:HA3	1.91	0.53
1:S:456:TYR:CE1	1:i:458:PRO:HG3	2.42	0.53
1:U:462:PHE:CB	1:f:483:HIS:CE1	2.90	0.53
1:Y:462:PHE:CB	1:2:483:HIS:CE1	2.90	0.53
1:Z:210:THR:HG22	1:Z:211:ALA:H	1.72	0.53
1:e:483:HIS:CE1	1:z:462:PHE:CB	2.90	0.53
1:f:82:ARG:HG2	1:f:108:GLN:HE21	1.72	0.53
1:i:477:LYS:HB2	1:i:499:PRO:HG3	1.89	0.53
1:k:591:MET:CE	1:z:191:PRO:HG3	2.09	0.53
1:q:82:ARG:HG2	1:q:108:GLN:HE21	1.72	0.53
1:r:367:ASP:HB3	1:r:412:GLY:HA3	1.91	0.53
1:x:367:ASP:HB3	1:x:412:GLY:HA3	1.90	0.53
2:9:1:NAG:H4	2:9:2:GLA:H5	1.89	0.53
1:C:263:LEU:HD12	1:F:152:ASN:HD21	1.71	0.53
1:E:483:HIS:CE1	1:O:462:PHE:CB	2.90	0.53
1:F:82:ARG:HG2	1:F:108:GLN:HE21	1.72	0.53
1:H:82:ARG:HG2	1:H:108:GLN:HE21	1.73	0.53
1:I:265:ARG:HG3	1:3:42:SER:HG	1.73	0.53
1:J:477:LYS:HB2	1:J:499:PRO:HG3	1.89	0.53
1:L:210:THR:HG22	1:L:211:ALA:H	1.72	0.53
1:N:109:GLN:HE22	1:d:300:ILE:CG2	2.03	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:477:LYS:HB2	1:N:499:PRO:HG3	1.89	0.53
1:Q:367:ASP:HB3	1:Q:412:GLY:HA3	1.90	0.53
1:b:82:ARG:HG2	1:b:108:GLN:HE21	1.72	0.53
1:b:175:ASP:CG	1:b:178:ALA:HB2	2.34	0.53
1:e:477:LYS:HB2	1:e:499:PRO:HG3	1.89	0.53
1:f:175:ASP:CG	1:f:178:ALA:HB2	2.34	0.53
1:f:367:ASP:HB3	1:f:412:GLY:HA3	1.90	0.53
1:g:210:THR:HG22	1:g:211:ALA:H	1.72	0.53
1:j:82:ARG:HG2	1:j:108:GLN:HE21	1.73	0.53
1:l:556:THR:CG2	1:z:556:THR:CG2	2.69	0.53
1:o:353:ALA:CB	1:t:417:ARG:HB2	2.37	0.53
1:u:477:LYS:HB2	1:u:499:PRO:HG3	1.89	0.53
1:x:82:ARG:HG2	1:x:108:GLN:HE21	1.72	0.53
1:2:477:LYS:HB2	1:2:499:PRO:HG3	1.89	0.53
1:4:210:THR:HG22	1:4:211:ALA:H	1.72	0.53
1:5:82:ARG:HG2	1:5:108:GLN:HE21	1.73	0.53
1:7:477:LYS:HB2	1:7:499:PRO:HG3	1.89	0.53
2:MB:1:NAG:H4	2:MB:2:GLA:H5	1.89	0.53
1:B:263:LEU:HD12	1:P:152:ASN:HD21	1.71	0.53
1:B:367:ASP:HB3	1:B:412:GLY:HA3	1.91	0.53
1:C:42:SER:HG	1:7:265:ARG:HG3	1.72	0.53
1:C:175:ASP:CG	1:C:178:ALA:HB2	2.34	0.53
1:D:483:HIS:CE1	1:c:462:PHE:CB	2.90	0.53
1:L:462:PHE:CB	1:c:483:HIS:CE1	2.90	0.53
1:N:456:TYR:CE1	1:d:458:PRO:HG3	2.42	0.53
1:P:331:VAL:HG13	1:R:383:ASN:ND2	2.24	0.53
1:R:175:ASP:CG	1:R:178:ALA:HB2	2.34	0.53
1:S:210:THR:HG22	1:S:211:ALA:H	1.72	0.53
1:T:458:PRO:HG3	1:V:456:TYR:CE1	2.42	0.53
1:Y:383:ASN:ND2	1:a:331:VAL:HG13	2.24	0.53
1:Y:477:LYS:HB2	1:Y:499:PRO:HG3	1.89	0.53
1:b:367:ASP:HB3	1:b:412:GLY:HA3	1.90	0.53
1:c:477:LYS:HB2	1:c:499:PRO:HG3	1.89	0.53
1:g:175:ASP:CG	1:g:178:ALA:HB2	2.34	0.53
1:h:82:ARG:HG2	1:h:108:GLN:HE21	1.72	0.53
1:i:456:TYR:CE1	1:n:458:PRO:HG3	2.42	0.53
1:l:462:PHE:CB	1:w:483:HIS:CE1	2.90	0.53
1:q:175:ASP:CG	1:q:178:ALA:HB2	2.34	0.53
1:u:458:PRO:HG3	1:4:456:TYR:CE1	2.42	0.53
1:v:367:ASP:HB3	1:v:412:GLY:HA3	1.90	0.53
1:w:210:THR:HG22	1:w:211:ALA:H	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:367:ASP:HB3	1:1:412:GLY:HA3	1.91	0.53
1:3:214:PRO:HG2	1:3:216:ARG:HH21	1.71	0.53
1:3:331:VAL:HG13	1:7:383:ASN:ND2	2.24	0.53
1:8:210:THR:HG22	1:8:211:ALA:H	1.72	0.53
2:GA:1:NAG:H4	2:GA:2:GLA:H5	1.89	0.53
1:A:367:ASP:HB3	1:A:412:GLY:HA3	1.90	0.53
1:C:82:ARG:HG2	1:C:108:GLN:HE21	1.72	0.53
1:D:383:ASN:ND2	1:c:331:VAL:HG13	2.24	0.53
1:G:477:LYS:HB2	1:G:499:PRO:HG3	1.89	0.53
1:I:175:ASP:CG	1:I:178:ALA:HB2	2.34	0.53
1:I:331:VAL:HG13	1:K:383:ASN:ND2	2.24	0.53
1:I:477:LYS:HB2	1:I:499:PRO:HG3	1.89	0.53
1:K:210:THR:HG22	1:K:211:ALA:H	1.72	0.53
1:L:175:ASP:CG	1:L:178:ALA:HB2	2.34	0.53
1:P:82:ARG:HG2	1:P:108:GLN:HE21	1.72	0.53
1:U:175:ASP:CG	1:U:178:ALA:HB2	2.34	0.53
1:a:214:PRO:HG2	1:a:216:ARG:HH21	1.71	0.53
1:d:477:LYS:HB2	1:d:499:PRO:HG3	1.89	0.53
1:e:127:GLN:HE21	1:4:257:ASN:CB	2.20	0.53
1:e:331:VAL:HG13	1:k:383:ASN:ND2	2.24	0.53
1:i:109:GLN:HE22	1:n:300:ILE:CG2	2.03	0.53
1:j:331:VAL:HG13	1:q:383:ASN:ND2	2.24	0.53
1:m:458:PRO:HG3	1:p:456:TYR:CE1	2.42	0.53
1:n:263:LEU:HD12	1:w:152:ASN:HD21	1.71	0.53
1:n:477:LYS:HB2	1:n:499:PRO:HG3	1.89	0.53
1:o:483:HIS:CE1	1:t:462:PHE:CB	2.90	0.53
1:q:257:ASN:CB	1:5:127:GLN:HE21	2.20	0.53
1:r:210:THR:HG22	1:r:211:ALA:H	1.72	0.53
1:s:175:ASP:CG	1:s:178:ALA:HB2	2.34	0.53
1:u:175:ASP:CG	1:u:178:ALA:HB2	2.34	0.53
1:u:331:VAL:HG13	1:4:383:ASN:ND2	2.24	0.53
1:z:175:ASP:CG	1:z:178:ALA:HB2	2.34	0.53
1:z:367:ASP:HB3	1:z:412:GLY:HA3	1.91	0.53
1:2:82:ARG:HG2	1:2:108:GLN:HE21	1.72	0.53
2:8A:1:NAG:H4	2:8A:2:GLA:H5	1.89	0.53
2:PB:1:NAG:H4	2:PB:2:GLA:H5	1.89	0.53
1:A:247:ALA:CB	1:M:557:THR:HG23	2.39	0.53
1:D:477:LYS:HB2	1:D:499:PRO:HG3	1.89	0.53
1:E:152:ASN:HD21	1:d:263:LEU:HD12	1.71	0.53
1:E:210:THR:HG22	1:E:211:ALA:H	1.72	0.53
1:G:462:PHE:CB	1:X:483:HIS:CE1	2.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:82:ARG:HG2	1:J:108:GLN:HE21	1.72	0.53
1:L:367:ASP:HB3	1:L:412:GLY:HA3	1.91	0.53
1:N:175:ASP:CG	1:N:178:ALA:HB2	2.34	0.53
1:N:367:ASP:HB3	1:N:412:GLY:HA3	1.90	0.53
1:Q:483:HIS:CE1	1:V:462:PHE:CB	2.90	0.53
1:S:458:PRO:HG3	1:n:456:TYR:CE1	2.42	0.53
1:T:367:ASP:HB3	1:T:412:GLY:HA3	1.90	0.53
1:W:175:ASP:CG	1:W:178:ALA:HB2	2.34	0.53
1:X:175:ASP:CG	1:X:178:ALA:HB2	2.34	0.53
1:c:210:THR:HG22	1:c:211:ALA:H	1.72	0.53
1:e:462:PHE:CB	1:k:483:HIS:CE1	2.90	0.53
1:g:82:ARG:HG2	1:g:108:GLN:HE21	1.72	0.53
1:i:175:ASP:CG	1:i:178:ALA:HB2	2.34	0.53
1:k:331:VAL:HG13	1:z:383:ASN:ND2	2.24	0.53
1:l:331:VAL:HG13	1:w:383:ASN:ND2	2.24	0.53
1:m:367:ASP:HB3	1:m:412:GLY:HA3	1.90	0.53
1:o:331:VAL:HG13	1:8:383:ASN:ND2	2.24	0.53
1:o:383:ASN:ND2	1:t:331:VAL:HG13	2.24	0.53
1:1:383:ASN:ND2	1:5:331:VAL:HG13	2.24	0.53
1:6:175:ASP:CG	1:6:178:ALA:HB2	2.34	0.53
2:RA:1:NAG:H4	2:RA:2:GLA:H5	1.89	0.53
2:JB:1:NAG:H4	2:JB:2:GLA:H5	1.89	0.53
1:A:82:ARG:HG2	1:A:108:GLN:HE21	1.72	0.53
1:B:383:ASN:ND2	1:H:331:VAL:HG13	2.24	0.53
1:D:331:VAL:HG13	1:L:383:ASN:ND2	2.24	0.53
1:E:383:ASN:ND2	1:O:331:VAL:HG13	2.24	0.53
1:F:331:VAL:HG13	1:H:383:ASN:ND2	2.24	0.53
1:G:331:VAL:HG13	1:X:383:ASN:ND2	2.24	0.53
1:H:127:GLN:HE21	1:R:257:ASN:CB	2.20	0.53
1:X:331:VAL:HG13	1:Z:383:ASN:ND2	2.24	0.53
1:b:127:GLN:HE21	1:m:257:ASN:CB	2.20	0.53
1:c:175:ASP:CG	1:c:178:ALA:HB2	2.34	0.53
1:d:456:TYR:CE1	1:r:458:PRO:HG3	2.42	0.53
1:e:175:ASP:CG	1:e:178:ALA:HB2	2.34	0.53
1:g:191:PRO:HG3	1:4:591:MET:CE	2.09	0.53
1:i:367:ASP:HB3	1:i:412:GLY:HA3	1.90	0.53
1:k:477:LYS:HB2	1:k:499:PRO:HG3	1.89	0.53
1:o:175:ASP:CG	1:o:178:ALA:HB2	2.34	0.53
1:p:462:PHE:CB	1:x:483:HIS:CE1	2.90	0.53
1:t:477:LYS:HB2	1:t:499:PRO:HG3	1.89	0.53
1:y:331:VAL:HG13	1:5:383:ASN:ND2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:591:MET:CE	1:7:191:PRO:HG3	2.09	0.53
2:vA:1:NAG:H4	2:vA:2:GLA:H5	1.89	0.53
1:B:175:ASP:CG	1:B:178:ALA:HB2	2.34	0.53
1:L:556:THR:CG2	1:O:556:THR:CG2	2.69	0.53
1:P:477:LYS:HB2	1:P:499:PRO:HG3	1.89	0.53
1:Q:477:LYS:HB2	1:Q:499:PRO:HG3	1.89	0.53
1:W:210:THR:HG22	1:W:211:ALA:H	1.72	0.53
1:e:210:THR:HG22	1:e:211:ALA:H	1.72	0.53
1:j:477:LYS:HB2	1:j:499:PRO:HG3	1.89	0.53
1:m:477:LYS:HB2	1:m:499:PRO:HG3	1.89	0.53
1:o:477:LYS:HB2	1:o:499:PRO:HG3	1.89	0.53
1:1:175:ASP:CG	1:1:178:ALA:HB2	2.34	0.53
1:4:127:GLN:HE21	1:5:257:ASN:CB	2.20	0.53
2:SB:1:NAG:H4	2:SB:2:GLA:H5	1.89	0.53
1:A:383:ASN:ND2	1:R:331:VAL:HG13	2.24	0.53
1:B:82:ARG:HG2	1:B:108:GLN:HE21	1.72	0.53
1:D:175:ASP:CG	1:D:178:ALA:HB2	2.34	0.53
1:D:300:ILE:CG2	1:L:109:GLN:HE22	2.03	0.53
1:D:591:MET:CE	1:L:191:PRO:HG3	2.09	0.53
1:E:127:GLN:HE21	1:d:257:ASN:CB	2.20	0.53
1:L:247:ALA:CB	1:6:557:THR:HG23	2.39	0.53
1:O:367:ASP:HB3	1:O:412:GLY:HA3	1.91	0.53
1:O:557:THR:HG23	1:c:247:ALA:CB	2.39	0.53
1:S:331:VAL:HG13	1:n:383:ASN:ND2	2.24	0.53
1:T:547:LEU:CD1	1:V:189:ILE:HG21	2.34	0.53
1:V:367:ASP:HB3	1:V:412:GLY:HA3	1.90	0.53
1:W:557:THR:HG23	1:z:247:ALA:CB	2.39	0.53
1:b:417:ARG:HB2	1:6:353:ALA:CB	2.37	0.53
1:e:247:ALA:CB	1:l:557:THR:HG23	2.39	0.53
1:e:257:ASN:CB	1:l:127:GLN:HE21	2.20	0.53
1:h:557:THR:HG23	1:v:247:ALA:CB	2.39	0.53
1:k:175:ASP:CG	1:k:178:ALA:HB2	2.34	0.53
1:p:367:ASP:HB3	1:p:412:GLY:HA3	1.90	0.53
1:q:331:VAL:HG13	1:v:383:ASN:ND2	2.24	0.53
1:u:591:MET:CE	1:4:191:PRO:HG3	2.09	0.53
1:v:82:ARG:HG2	1:v:108:GLN:HE21	1.72	0.53
1:w:175:ASP:CG	1:w:178:ALA:HB2	2.34	0.53
1:x:477:LYS:HB2	1:x:499:PRO:HG3	1.89	0.53
1:y:477:LYS:HB2	1:y:499:PRO:HG3	1.89	0.53
1:3:175:ASP:CG	1:3:178:ALA:HB2	2.34	0.53
2:wA:1:NAG:H4	2:wA:2:GLA:H5	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:557:THR:HG23	1:Z:247:ALA:CB	2.39	0.53
1:E:41:VAL:HA	1:d:268:ASP:OD1	2.09	0.53
1:E:175:ASP:CG	1:E:178:ALA:HB2	2.34	0.53
1:F:268:ASP:OD1	1:X:41:VAL:HA	2.09	0.53
1:G:383:ASN:ND2	1:Z:331:VAL:HG13	2.24	0.53
1:H:268:ASP:OD1	1:K:41:VAL:HA	2.09	0.53
1:I:247:ALA:CB	1:3:557:THR:HG23	2.39	0.53
1:I:459:LEU:CD1	1:K:489:VAL:CG2	2.87	0.53
1:O:127:GLN:HE21	1:c:257:ASN:CB	2.20	0.53
1:P:367:ASP:HB3	1:P:412:GLY:HA3	1.90	0.53
1:S:459:LEU:CD1	1:n:489:VAL:CG2	2.87	0.53
1:T:257:ASN:CB	1:f:127:GLN:HE21	2.20	0.53
1:T:477:LYS:HB2	1:T:499:PRO:HG3	1.89	0.53
1:W:483:HIS:CE1	1:f:462:PHE:CB	2.90	0.53
1:X:477:LYS:HB2	1:X:499:PRO:HG3	1.89	0.53
1:Y:367:ASP:HB3	1:Y:412:GLY:HA3	1.90	0.53
1:Y:489:VAL:CG2	1:a:459:LEU:CD1	2.87	0.53
1:a:175:ASP:CG	1:a:178:ALA:HB2	2.34	0.53
1:a:557:THR:HG23	1:u:247:ALA:CB	2.39	0.53
1:d:134:ILE:HA	1:d:138:MET:HE2	1.91	0.53
1:d:175:ASP:CG	1:d:178:ALA:HB2	2.34	0.53
1:d:383:ASN:ND2	1:r:331:VAL:HG13	2.24	0.53
1:h:191:PRO:HG3	1:w:591:MET:CE	2.09	0.53
1:j:367:ASP:HB3	1:j:412:GLY:HA3	1.90	0.53
1:l:367:ASP:HB3	1:l:412:GLY:HA3	1.91	0.53
1:m:175:ASP:CG	1:m:178:ALA:HB2	2.34	0.53
1:m:547:LEU:CD1	1:p:189:ILE:HG21	2.34	0.53
1:n:134:ILE:HA	1:n:138:MET:HE2	1.91	0.53
1:n:268:ASP:OD1	1:w:41:VAL:HA	2.09	0.53
1:o:41:VAL:HA	1:y:268:ASP:OD1	2.09	0.53
1:t:383:ASN:ND2	1:8:331:VAL:HG13	2.24	0.53
1:u:459:LEU:CD1	1:4:489:VAL:CG2	2.87	0.53
1:x:41:VAL:HA	1:6:268:ASP:OD1	2.09	0.53
1:1:557:THR:HG23	1:8:247:ALA:CB	2.39	0.53
1:2:257:ASN:CB	1:7:127:GLN:HE21	2.20	0.53
1:3:459:LEU:CD1	1:7:489:VAL:CG2	2.87	0.53
1:6:210:THR:HG22	1:6:211:ALA:H	1.72	0.53
1:7:367:ASP:HB3	1:7:412:GLY:HA3	1.90	0.53
1:B:268:ASP:OD1	1:P:41:VAL:HA	2.09	0.52
1:D:557:THR:HG23	1:s:247:ALA:CB	2.39	0.52
1:E:247:ALA:CB	1:L:557:THR:HG23	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:175:ASP:CG	1:F:178:ALA:HB2	2.34	0.52
1:F:477:LYS:HB2	1:F:499:PRO:HG3	1.89	0.52
1:H:152:ASN:HD21	1:R:263:LEU:HD12	1.71	0.52
1:H:257:ASN:CB	1:K:127:GLN:HE21	2.20	0.52
1:P:175:ASP:CG	1:P:178:ALA:HB2	2.34	0.52
1:Q:41:VAL:HA	1:W:268:ASP:OD1	2.09	0.52
1:T:175:ASP:CG	1:T:178:ALA:HB2	2.34	0.52
1:T:247:ALA:CB	1:f:557:THR:HG23	2.39	0.52
1:T:459:LEU:CD1	1:V:489:VAL:CG2	2.87	0.52
1:T:462:PHE:CB	1:V:483:HIS:CE1	2.90	0.52
1:U:247:ALA:CB	1:k:557:THR:HG23	2.39	0.52
1:W:41:VAL:HA	1:z:268:ASP:OD1	2.09	0.52
1:W:134:ILE:HA	1:W:138:MET:HE2	1.92	0.52
1:W:353:ALA:CB	1:f:417:ARG:HB2	2.37	0.52
1:X:419:PHE:CE2	1:Z:351:PHE:HB2	2.45	0.52
1:Z:41:VAL:HA	1:f:268:ASP:OD1	2.09	0.52
1:b:134:ILE:HA	1:b:138:MET:HE2	1.91	0.52
1:b:268:ASP:OD1	1:8:41:VAL:HA	2.09	0.52
1:b:557:THR:HG23	1:m:247:ALA:CB	2.39	0.52
1:d:489:VAL:CG2	1:r:459:LEU:CD1	2.87	0.52
1:f:134:ILE:HA	1:f:138:MET:HE2	1.91	0.52
1:h:42:SER:HG	1:v:265:ARG:HG3	1.74	0.52
1:h:175:ASP:CG	1:h:178:ALA:HB2	2.34	0.52
1:j:41:VAL:HA	1:1:268:ASP:OD1	2.09	0.52
1:j:175:ASP:CG	1:j:178:ALA:HB2	2.34	0.52
1:j:257:ASN:CB	1:m:127:GLN:HE21	2.20	0.52
1:n:175:ASP:CG	1:n:178:ALA:HB2	2.34	0.52
1:o:419:PHE:CE2	1:8:351:PHE:HB2	2.45	0.52
1:w:247:ALA:CB	1:z:557:THR:HG23	2.39	0.52
1:y:175:ASP:CG	1:y:178:ALA:HB2	2.34	0.52
1:1:82:ARG:HG2	1:1:108:GLN:HE21	1.72	0.52
1:4:41:VAL:HA	1:5:268:ASP:OD1	2.09	0.52
1:5:175:ASP:CG	1:5:178:ALA:HB2	2.34	0.52
1:6:134:ILE:HA	1:6:138:MET:HE2	1.92	0.52
1:A:175:ASP:CG	1:A:178:ALA:HB2	2.34	0.52
1:C:189:ILE:HG21	1:K:547:LEU:CD1	2.34	0.52
1:C:331:VAL:HG13	1:I:383:ASN:ND2	2.24	0.52
1:C:383:ASN:ND2	1:K:331:VAL:HG13	2.24	0.52
1:E:263:LEU:HD12	1:L:152:ASN:HD22	1.71	0.52
1:E:419:PHE:CE2	1:M:351:PHE:HB2	2.45	0.52
1:G:351:PHE:HB2	1:Z:419:PHE:CE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:175:ASP:CG	1:H:178:ALA:HB2	2.34	0.52
1:H:477:LYS:HB2	1:H:499:PRO:HG3	1.89	0.52
1:J:257:ASN:CB	1:Y:127:GLN:HE21	2.20	0.52
1:J:331:VAL:HG13	1:3:383:ASN:ND2	2.24	0.52
1:K:175:ASP:CG	1:K:178:ALA:HB2	2.34	0.52
1:L:268:ASP:OD1	1:6:41:VAL:HA	2.09	0.52
1:M:175:ASP:CG	1:M:178:ALA:HB2	2.34	0.52
1:M:459:LEU:CD1	1:O:489:VAL:CG2	2.87	0.52
1:U:383:ASN:ND2	1:W:331:VAL:HG13	2.24	0.52
1:U:477:LYS:HB2	1:U:499:PRO:HG3	1.89	0.52
1:Y:191:PRO:HG3	1:a:591:MET:CE	2.09	0.52
1:Y:257:ASN:CB	1:g:127:GLN:HE21	2.20	0.52
1:Y:556:THR:CG2	1:7:556:THR:CG2	2.68	0.52
1:Z:134:ILE:HA	1:Z:138:MET:HE2	1.92	0.52
1:Z:175:ASP:CG	1:Z:178:ALA:HB2	2.34	0.52
1:a:383:ASN:ND2	1:2:331:VAL:HG13	2.24	0.52
1:b:462:PHE:CB	1:6:483:HIS:CE1	2.90	0.52
1:d:556:THR:CG2	1:p:556:THR:CG2	2.68	0.52
1:g:331:VAL:HG13	1:u:383:ASN:ND2	2.24	0.52
1:g:383:ASN:ND2	1:4:331:VAL:HG13	2.24	0.52
1:h:331:VAL:HG13	1:l:383:ASN:ND2	2.24	0.52
1:h:351:PHE:HB2	1:w:419:PHE:CE2	2.45	0.52
1:h:459:LEU:CD1	1:l:489:VAL:CG2	2.87	0.52
1:m:459:LEU:CD1	1:p:489:VAL:CG2	2.87	0.52
1:n:257:ASN:CB	1:w:127:GLN:HE21	2.20	0.52
1:q:263:LEU:HD12	1:5:152:ASN:HD21	1.71	0.52
1:t:351:PHE:HB2	1:8:419:PHE:CE2	2.45	0.52
1:v:175:ASP:CG	1:v:178:ALA:HB2	2.34	0.52
1:5:477:LYS:HB2	1:5:499:PRO:HG3	1.89	0.52
1:B:459:LEU:CD1	1:F:489:VAL:CG2	2.87	0.52
1:B:489:VAL:CG2	1:H:459:LEU:CD1	2.87	0.52
1:C:127:GLN:HE21	1:7:257:ASN:CB	2.20	0.52
1:C:134:ILE:HA	1:C:138:MET:HE2	1.92	0.52
1:E:182:VAL:HG22	1:E:505:VAL:HG12	1.92	0.52
1:E:268:ASP:OD1	1:L:41:VAL:HA	2.10	0.52
1:H:247:ALA:CB	1:K:557:THR:HG23	2.39	0.52
1:I:367:ASP:HB3	1:I:412:GLY:HA3	1.90	0.52
1:J:41:VAL:HA	1:o:268:ASP:OD1	2.10	0.52
1:L:547:LEU:CD1	1:c:189:ILE:HG21	2.34	0.52
1:N:41:VAL:HA	1:S:268:ASP:OD1	2.09	0.52
1:O:175:ASP:CG	1:O:178:ALA:HB2	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:127:GLN:HE21	1:W:257:ASN:CB	2.20	0.52
1:Q:268:ASP:OD1	1:n:41:VAL:HA	2.10	0.52
1:T:331:VAL:HG13	1:V:383:ASN:ND2	2.24	0.52
1:V:175:ASP:CG	1:V:178:ALA:HB2	2.34	0.52
1:W:182:VAL:HG22	1:W:505:VAL:HG12	1.92	0.52
1:X:268:ASP:OD1	1:2:41:VAL:HA	2.10	0.52
1:X:367:ASP:HB3	1:X:412:GLY:HA3	1.91	0.52
1:Y:82:ARG:HG2	1:Y:108:GLN:HE21	1.73	0.52
1:d:41:VAL:HA	1:x:268:ASP:OD1	2.10	0.52
1:e:459:LEU:CD1	1:k:489:VAL:CG2	2.87	0.52
1:g:134:ILE:HA	1:g:138:MET:HE2	1.92	0.52
1:i:41:VAL:HA	1:r:268:ASP:OD1	2.09	0.52
1:j:85:VAL:O	1:j:106:THR:HA	2.10	0.52
1:j:383:ASN:ND2	1:v:331:VAL:HG13	2.24	0.52
1:k:300:ILE:CG2	1:z:109:GLN:HE22	2.03	0.52
1:m:462:PHE:CB	1:p:483:HIS:CE1	2.90	0.52
1:o:191:PRO:HG3	1:t:591:MET:CE	2.09	0.52
1:p:247:ALA:CB	1:v:557:THR:HG23	2.39	0.52
1:s:477:LYS:HB2	1:s:499:PRO:HG3	1.89	0.52
1:w:182:VAL:HG22	1:w:505:VAL:HG12	1.92	0.52
1:y:489:VAL:CG2	1:1:459:LEU:CD1	2.87	0.52
1:1:489:VAL:CG2	1:5:459:LEU:CD1	2.87	0.52
1:4:152:ASN:HD21	1:5:263:LEU:HD12	1.71	0.52
1:6:182:VAL:HG22	1:6:505:VAL:HG12	1.92	0.52
1:8:134:ILE:HA	1:8:138:MET:HE2	1.92	0.52
1:8:175:ASP:CG	1:8:178:ALA:HB2	2.34	0.52
1:A:268:ASP:OD1	1:M:41:VAL:HA	2.09	0.52
1:A:331:VAL:HG13	1:P:383:ASN:ND2	2.24	0.52
1:A:557:THR:HG23	1:V:247:ALA:CB	2.39	0.52
1:B:85:VAL:O	1:B:106:THR:HA	2.10	0.52
1:B:134:ILE:HA	1:B:138:MET:HE2	1.92	0.52
1:B:331:VAL:HG13	1:F:383:ASN:ND2	2.24	0.52
1:D:247:ALA:CB	1:I:557:THR:HG23	2.39	0.52
1:D:257:ASN:CB	1:I:127:GLN:HE21	2.20	0.52
1:D:419:PHE:CE2	1:L:351:PHE:HB2	2.45	0.52
1:D:489:VAL:CG2	1:c:459:LEU:CD1	2.87	0.52
1:E:591:MET:CE	1:M:191:PRO:HG3	2.09	0.52
1:G:367:ASP:HB3	1:G:412:GLY:HA3	1.91	0.52
1:G:557:THR:HG23	1:a:247:ALA:CB	2.39	0.52
1:I:134:ILE:HA	1:I:138:MET:HE2	1.92	0.52
1:J:182:VAL:HG22	1:J:505:VAL:HG12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:331:VAL:HG13	1:O:383:ASN:ND2	2.24	0.52
1:N:331:VAL:HG13	1:r:383:ASN:ND2	2.24	0.52
1:O:85:VAL:O	1:O:106:THR:HA	2.10	0.52
1:P:85:VAL:O	1:P:106:THR:HA	2.10	0.52
1:P:222:PRO:HB2	1:P:243:GLY:HA3	1.92	0.52
1:R:134:ILE:HA	1:R:138:MET:HE2	1.92	0.52
1:S:383:ASN:ND2	1:i:331:VAL:HG13	2.24	0.52
1:W:367:ASP:HB3	1:W:412:GLY:HA3	1.90	0.52
1:a:191:PRO:HG3	1:2:591:MET:CE	2.09	0.52
1:e:41:VAL:HA	1:4:268:ASP:OD1	2.10	0.52
1:g:189:ILE:HG21	1:4:547:LEU:CD1	2.34	0.52
1:j:222:PRO:HB2	1:j:243:GLY:HA3	1.92	0.52
1:k:419:PHE:CE2	1:z:351:PHE:HB2	2.45	0.52
1:o:367:ASP:HB3	1:o:412:GLY:HA3	1.91	0.52
1:q:459:LEU:CD1	1:v:489:VAL:CG2	2.87	0.52
1:s:367:ASP:HB3	1:s:412:GLY:HA3	1.91	0.52
1:s:383:ASN:ND2	1:6:331:VAL:HG13	2.24	0.52
1:t:557:THR:HG23	1:3:247:ALA:CB	2.39	0.52
1:u:134:ILE:HA	1:u:138:MET:HE2	1.92	0.52
1:u:367:ASP:HB3	1:u:412:GLY:HA3	1.90	0.52
1:v:477:LYS:HB2	1:v:499:PRO:HG3	1.89	0.52
1:w:268:ASP:OD1	1:z:41:VAL:HA	2.10	0.52
1:z:134:ILE:HA	1:z:138:MET:HE2	1.92	0.52
1:1:85:VAL:O	1:1:106:THR:HA	2.10	0.52
1:1:134:ILE:HA	1:1:138:MET:HE2	1.92	0.52
1:2:182:VAL:HG22	1:2:505:VAL:HG12	1.92	0.52
1:3:85:VAL:O	1:3:106:THR:HA	2.10	0.52
1:4:175:ASP:CG	1:4:178:ALA:HB2	2.34	0.52
1:4:557:THR:HG23	1:5:247:ALA:CB	2.39	0.52
1:A:489:VAL:CG2	1:R:459:LEU:CD1	2.87	0.52
1:B:257:ASN:CB	1:P:127:GLN:HE21	2.20	0.52
1:C:41:VAL:HA	1:7:268:ASP:OD1	2.09	0.52
1:C:268:ASP:OD1	1:F:41:VAL:HA	2.10	0.52
1:H:41:VAL:HA	1:R:268:ASP:OD1	2.09	0.52
1:J:247:ALA:CB	1:Y:557:THR:HG23	2.39	0.52
1:K:268:ASP:OD1	1:c:41:VAL:HA	2.10	0.52
1:L:134:ILE:HA	1:L:138:MET:HE2	1.92	0.52
1:L:331:VAL:HG13	1:c:383:ASN:ND2	2.24	0.52
1:P:419:PHE:CE2	1:R:351:PHE:HB2	2.45	0.52
1:S:109:GLN:HE21	1:i:300:ILE:CG2	2.23	0.52
1:U:222:PRO:HB2	1:U:243:GLY:HA3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:367:ASP:HB3	1:U:412:GLY:HA3	1.91	0.52
1:U:489:VAL:CG2	1:W:459:LEU:CD1	2.87	0.52
1:a:85:VAL:O	1:a:106:THR:HA	2.10	0.52
1:a:489:VAL:CG2	1:2:459:LEU:CD1	2.87	0.52
1:e:85:VAL:O	1:e:106:THR:HA	2.10	0.52
1:e:189:ILE:HG21	1:z:547:LEU:CD1	2.34	0.52
1:e:383:ASN:ND2	1:z:331:VAL:HG13	2.24	0.52
1:g:268:ASP:OD1	1:y:41:VAL:HA	2.10	0.52
1:g:300:ILE:CG2	1:u:109:GLN:HE21	2.22	0.52
1:j:419:PHE:CE2	1:q:351:PHE:HB2	2.45	0.52
1:k:247:ALA:CB	1:u:557:THR:HG23	2.39	0.52
1:l:85:VAL:O	1:l:106:THR:HA	2.10	0.52
1:m:331:VAL:HG13	1:p:383:ASN:ND2	2.24	0.52
1:o:134:ILE:HA	1:o:138:MET:HE2	1.92	0.52
1:p:175:ASP:CG	1:p:178:ALA:HB2	2.34	0.52
1:p:182:VAL:HG22	1:p:505:VAL:HG12	1.92	0.52
1:p:331:VAL:HG13	1:x:383:ASN:ND2	2.24	0.52
1:q:134:ILE:HA	1:q:138:MET:HE2	1.92	0.52
1:q:268:ASP:OD1	1:5:41:VAL:HA	2.09	0.52
1:r:175:ASP:CG	1:r:178:ALA:HB2	2.34	0.52
1:s:222:PRO:HB2	1:s:243:GLY:HA3	1.92	0.52
1:s:489:VAL:CG2	1:6:459:LEU:CD1	2.87	0.52
1:t:85:VAL:O	1:t:106:THR:HA	2.10	0.52
1:t:367:ASP:HB3	1:t:412:GLY:HA3	1.91	0.52
1:w:263:LEU:HD12	1:z:152:ASN:HD22	1.71	0.52
1:w:367:ASP:HB3	1:w:412:GLY:HA3	1.91	0.52
1:x:127:GLN:HE21	1:6:257:ASN:CB	2.20	0.52
1:y:383:ASN:ND2	1:1:331:VAL:HG13	2.24	0.52
1:3:367:ASP:HB3	1:3:412:GLY:HA3	1.90	0.52
1:7:82:ARG:HG2	1:7:108:GLN:HE21	1.73	0.52
1:A:477:LYS:HB2	1:A:499:PRO:HG3	1.89	0.52
1:B:182:VAL:HG22	1:B:505:VAL:HG12	1.92	0.52
1:C:300:ILE:CG2	1:I:109:GLN:HE21	2.22	0.52
1:C:489:VAL:CG2	1:K:459:LEU:CD1	2.87	0.52
1:E:423:ALA:HA	1:E:424:PRO:C	2.35	0.52
1:G:85:VAL:O	1:G:106:THR:HA	2.10	0.52
1:G:175:ASP:CG	1:G:178:ALA:HB2	2.34	0.52
1:H:367:ASP:HB3	1:H:412:GLY:HA3	1.90	0.52
1:I:85:VAL:O	1:I:106:THR:HA	2.10	0.52
1:I:300:ILE:CG2	1:K:109:GLN:HE21	2.22	0.52
1:J:268:ASP:OD1	1:Y:41:VAL:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:459:LEU:CD1	1:3:489:VAL:CG2	2.87	0.52
1:K:257:ASN:CB	1:c:127:GLN:HE21	2.20	0.52
1:K:367:ASP:HB3	1:K:412:GLY:HA3	1.90	0.52
1:O:423:ALA:HA	1:O:424:PRO:C	2.35	0.52
1:V:182:VAL:HG22	1:V:505:VAL:HG12	1.92	0.52
1:W:85:VAL:O	1:W:106:THR:HA	2.10	0.52
1:W:383:ASN:ND2	1:f:331:VAL:HG13	2.24	0.52
1:W:489:VAL:CG2	1:f:459:LEU:CD1	2.87	0.52
1:X:134:ILE:HA	1:X:138:MET:HE2	1.92	0.52
1:Y:268:ASP:OD1	1:g:41:VAL:HA	2.09	0.52
1:Z:423:ALA:HA	1:Z:424:PRO:C	2.35	0.52
1:a:367:ASP:HB3	1:a:412:GLY:HA3	1.90	0.52
1:c:85:VAL:O	1:c:106:THR:HA	2.10	0.52
1:g:222:PRO:HB2	1:g:243:GLY:HA3	1.92	0.52
1:g:489:VAL:CG2	1:4:459:LEU:CD1	2.87	0.52
1:i:383:ASN:ND2	1:n:331:VAL:HG13	2.24	0.52
1:j:462:PHE:CB	1:q:483:HIS:HE1	2.19	0.52
1:l:175:ASP:CG	1:l:178:ALA:HB2	2.34	0.52
1:l:423:ALA:HA	1:l:424:PRO:C	2.35	0.52
1:m:351:PHE:HB2	1:x:419:PHE:CE2	2.45	0.52
1:n:367:ASP:HB3	1:n:412:GLY:HA3	1.90	0.52
1:q:367:ASP:HB3	1:q:412:GLY:HA3	1.91	0.52
1:u:85:VAL:O	1:u:106:THR:HA	2.10	0.52
1:u:462:PHE:CB	1:4:483:HIS:CE1	2.90	0.52
1:y:222:PRO:HB2	1:y:243:GLY:HA3	1.92	0.52
1:y:483:HIS:CE1	1:1:462:PHE:CB	2.90	0.52
1:z:182:VAL:HG22	1:z:505:VAL:HG12	1.92	0.52
1:z:423:ALA:HA	1:z:424:PRO:C	2.35	0.52
1:1:41:VAL:HA	1:8:268:ASP:OD1	2.10	0.52
1:1:182:VAL:HG22	1:1:505:VAL:HG12	1.92	0.52
1:2:268:ASP:OD1	1:7:41:VAL:HA	2.09	0.52
1:3:134:ILE:HA	1:3:138:MET:HE2	1.91	0.52
1:6:85:VAL:O	1:6:106:THR:HA	2.10	0.52
1:6:367:ASP:HB3	1:6:412:GLY:HA3	1.90	0.52
1:8:423:ALA:HA	1:8:424:PRO:C	2.35	0.52
1:B:41:VAL:HA	1:Z:268:ASP:OD1	2.10	0.52
1:B:222:PRO:HB2	1:B:243:GLY:HA3	1.92	0.52
1:B:462:PHE:CB	1:F:483:HIS:CE1	2.90	0.52
1:C:222:PRO:HB2	1:C:243:GLY:HA3	1.92	0.52
1:C:459:LEU:CD1	1:I:489:VAL:CG2	2.87	0.52
1:E:331:VAL:HG13	1:M:383:ASN:ND2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:367:ASP:HB3	1:E:412:GLY:HA3	1.91	0.52
1:E:459:LEU:CD1	1:M:489:VAL:CG2	2.87	0.52
1:F:134:ILE:HA	1:F:138:MET:HE2	1.91	0.52
1:F:222:PRO:HB2	1:F:243:GLY:HA3	1.92	0.52
1:G:489:VAL:CG2	1:Z:459:LEU:CD1	2.87	0.52
1:H:263:LEU:HD12	1:K:152:ASN:HD21	1.71	0.52
1:J:175:ASP:CG	1:J:178:ALA:HB2	2.34	0.52
1:J:222:PRO:HB2	1:J:243:GLY:HA3	1.92	0.52
1:J:419:PHE:CE2	1:3:351:PHE:HB2	2.45	0.52
1:K:423:ALA:HA	1:K:424:PRO:C	2.35	0.52
1:L:182:VAL:HG22	1:L:505:VAL:HG12	1.92	0.52
1:L:423:ALA:HA	1:L:424:PRO:C	2.35	0.52
1:L:459:LEU:CD1	1:c:489:VAL:CG2	2.87	0.52
1:M:423:ALA:HA	1:M:424:PRO:C	2.35	0.52
1:N:383:ASN:ND2	1:d:331:VAL:HG13	2.24	0.52
1:N:423:ALA:HA	1:N:424:PRO:C	2.35	0.52
1:O:134:ILE:HA	1:O:138:MET:HE2	1.92	0.52
1:P:462:PHE:CB	1:R:483:HIS:HE1	2.19	0.52
1:Q:85:VAL:O	1:Q:106:THR:HA	2.10	0.52
1:Q:175:ASP:CG	1:Q:178:ALA:HB2	2.34	0.52
1:Q:383:ASN:ND2	1:V:331:VAL:HG13	2.24	0.52
1:Q:419:PHE:CE2	1:T:351:PHE:HB2	2.45	0.52
1:S:175:ASP:CG	1:S:178:ALA:HB2	2.34	0.52
1:U:134:ILE:HA	1:U:138:MET:HE2	1.92	0.52
1:Y:175:ASP:CG	1:Y:178:ALA:HB2	2.34	0.52
1:a:134:ILE:HA	1:a:138:MET:HE2	1.91	0.52
1:a:351:PHE:HB2	1:2:419:PHE:CE2	2.45	0.52
1:b:182:VAL:HG22	1:b:505:VAL:HG12	1.92	0.52
1:b:331:VAL:HG13	1:6:383:ASN:ND2	2.24	0.52
1:b:459:LEU:CD1	1:6:489:VAL:CG2	2.87	0.52
1:c:222:PRO:HB2	1:c:243:GLY:HA3	1.92	0.52
1:c:423:ALA:HA	1:c:424:PRO:C	2.35	0.52
1:d:85:VAL:O	1:d:106:THR:HA	2.10	0.52
1:d:182:VAL:HG22	1:d:505:VAL:HG12	1.92	0.52
1:f:182:VAL:HG22	1:f:505:VAL:HG12	1.92	0.52
1:g:85:VAL:O	1:g:106:THR:HA	2.10	0.52
1:g:247:ALA:CB	1:y:557:THR:HG23	2.39	0.52
1:h:423:ALA:HA	1:h:424:PRO:C	2.35	0.52
1:h:489:VAL:CG2	1:w:459:LEU:CD1	2.87	0.52
1:i:423:ALA:HA	1:i:424:PRO:C	2.35	0.52
1:i:489:VAL:CG2	1:n:459:LEU:CD1	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:557:THR:HG23	1:r:247:ALA:CB	2.39	0.52
1:j:127:GLN:HE21	1:1:257:ASN:CB	2.20	0.52
1:j:247:ALA:CB	1:m:557:THR:HG23	2.39	0.52
1:l:182:VAL:HG22	1:l:505:VAL:HG12	1.92	0.52
1:n:182:VAL:HG22	1:n:505:VAL:HG12	1.92	0.52
1:r:423:ALA:HA	1:r:424:PRO:C	2.35	0.52
1:s:134:ILE:HA	1:s:138:MET:HE2	1.92	0.52
1:s:557:THR:HG23	1:t:247:ALA:CB	2.39	0.52
1:t:175:ASP:CG	1:t:178:ALA:HB2	2.34	0.52
1:t:489:VAL:CG2	1:8:459:LEU:CD1	2.87	0.52
1:w:423:ALA:HA	1:w:424:PRO:C	2.35	0.52
1:y:134:ILE:HA	1:y:138:MET:HE2	1.91	0.52
1:y:419:PHE:CE2	1:5:351:PHE:HB2	2.45	0.52
1:y:483:HIS:HE1	1:1:462:PHE:N	2.07	0.52
1:2:247:ALA:CB	1:7:557:THR:HG23	2.39	0.52
1:4:367:ASP:HB3	1:4:412:GLY:HA3	1.90	0.52
1:4:423:ALA:HA	1:4:424:PRO:C	2.35	0.52
1:5:367:ASP:HB3	1:5:412:GLY:HA3	1.90	0.52
1:7:175:ASP:CG	1:7:178:ALA:HB2	2.34	0.52
1:7:222:PRO:HB2	1:7:243:GLY:HA3	1.92	0.52
1:B:109:GLN:HE21	1:H:300:ILE:CG2	2.23	0.52
1:B:462:PHE:N	1:F:483:HIS:HE1	2.07	0.52
1:C:85:VAL:O	1:C:106:THR:HA	2.10	0.52
1:C:247:ALA:CB	1:F:557:THR:HG23	2.39	0.52
1:D:459:LEU:CD1	1:L:489:VAL:CG2	2.87	0.52
1:F:419:PHE:CE2	1:H:351:PHE:HB2	2.45	0.52
1:G:152:ASN:HD21	1:a:263:LEU:HD12	1.71	0.52
1:G:459:LEU:CD1	1:X:489:VAL:CG2	2.87	0.52
1:G:591:MET:CE	1:X:191:PRO:HG3	2.09	0.52
1:H:134:ILE:HA	1:H:138:MET:HE2	1.92	0.52
1:N:419:PHE:CE2	1:r:351:PHE:HB2	2.45	0.52
1:N:489:VAL:CG2	1:d:459:LEU:CD1	2.87	0.52
1:N:557:THR:HG23	1:S:247:ALA:CB	2.39	0.52
1:O:182:VAL:HG22	1:O:505:VAL:HG12	1.92	0.52
1:P:247:ALA:CB	1:T:557:THR:HG23	2.39	0.52
1:P:423:ALA:HA	1:P:424:PRO:C	2.35	0.52
1:R:85:VAL:O	1:R:106:THR:HA	2.10	0.52
1:R:367:ASP:HB3	1:R:412:GLY:HA3	1.91	0.52
1:S:152:ASN:HD21	1:h:263:LEU:HD12	1.71	0.52
1:S:423:ALA:HA	1:S:424:PRO:C	2.35	0.52
1:V:556:THR:CG2	1:n:556:THR:CG2	2.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:423:ALA:HA	1:W:424:PRO:C	2.35	0.52
1:X:591:MET:CE	1:Z:191:PRO:HG3	2.09	0.52
1:Y:134:ILE:HA	1:Y:138:MET:HE2	1.92	0.52
1:Y:222:PRO:HB2	1:Y:243:GLY:HA3	1.92	0.52
1:Z:85:VAL:O	1:Z:106:THR:HA	2.10	0.52
1:Z:367:ASP:HB3	1:Z:412:GLY:HA3	1.91	0.52
1:a:182:VAL:HG22	1:a:505:VAL:HG12	1.92	0.52
1:c:367:ASP:HB3	1:c:412:GLY:HA3	1.90	0.52
1:d:189:ILE:HG21	1:r:547:LEU:CD1	2.34	0.52
1:d:367:ASP:HB3	1:d:412:GLY:HA3	1.90	0.52
1:e:222:PRO:HB2	1:e:243:GLY:HA3	1.92	0.52
1:e:423:ALA:HA	1:e:424:PRO:C	2.35	0.52
1:e:489:VAL:CG2	1:z:459:LEU:CD1	2.87	0.52
1:g:459:LEU:CD1	1:u:489:VAL:CG2	2.87	0.52
1:h:41:VAL:HA	1:v:268:ASP:OD1	2.09	0.52
1:j:423:ALA:HA	1:j:424:PRO:C	2.35	0.52
1:k:257:ASN:CB	1:u:127:GLN:HE21	2.20	0.52
1:l:134:ILE:HA	1:l:138:MET:HE2	1.92	0.52
1:m:489:VAL:CG2	1:x:459:LEU:CD1	2.87	0.52
1:n:85:VAL:O	1:n:106:THR:HA	2.10	0.52
1:q:85:VAL:O	1:q:106:THR:HA	2.10	0.52
1:u:182:VAL:HG22	1:u:505:VAL:HG12	1.92	0.52
1:x:85:VAL:O	1:x:106:THR:HA	2.10	0.52
1:x:175:ASP:CG	1:x:178:ALA:HB2	2.34	0.52
1:1:222:PRO:HB2	1:1:243:GLY:HA3	1.92	0.52
1:2:175:ASP:CG	1:2:178:ALA:HB2	2.34	0.52
1:2:222:PRO:HB2	1:2:243:GLY:HA3	1.92	0.52
1:3:182:VAL:HG22	1:3:505:VAL:HG12	1.92	0.52
1:5:134:ILE:HA	1:5:138:MET:HE2	1.92	0.52
1:D:85:VAL:O	1:D:106:THR:HA	2.10	0.52
1:D:367:ASP:HB3	1:D:412:GLY:HA3	1.90	0.52
1:E:85:VAL:O	1:E:106:THR:HA	2.10	0.52
1:F:423:ALA:HA	1:F:424:PRO:C	2.35	0.52
1:G:182:VAL:HG22	1:G:505:VAL:HG12	1.92	0.52
1:G:247:ALA:CB	1:U:557:THR:HG23	2.39	0.52
1:I:182:VAL:HG22	1:I:505:VAL:HG12	1.92	0.52
1:I:462:PHE:CB	1:K:483:HIS:CE1	2.90	0.52
1:J:489:VAL:CG2	1:7:459:LEU:CD1	2.87	0.52
1:L:222:PRO:HB2	1:L:243:GLY:HA3	1.92	0.52
1:M:134:ILE:HA	1:M:138:MET:HE2	1.92	0.52
1:N:134:ILE:HA	1:N:138:MET:HE2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:222:PRO:HB2	1:N:243:GLY:HA3	1.92	0.52
1:Q:459:LEU:CD1	1:T:489:VAL:CG2	2.87	0.52
1:S:351:PHE:HB2	1:i:419:PHE:CE2	2.45	0.52
1:Y:459:LEU:CD1	1:2:489:VAL:CG2	2.87	0.52
1:e:367:ASP:HB3	1:e:412:GLY:HA3	1.90	0.52
1:g:367:ASP:HB3	1:g:412:GLY:HA3	1.90	0.52
1:h:134:ILE:HA	1:h:138:MET:HE2	1.92	0.52
1:h:383:ASN:ND2	1:w:331:VAL:HG13	2.24	0.52
1:i:222:PRO:HB2	1:i:243:GLY:HA3	1.92	0.52
1:j:268:ASP:OD1	1:m:41:VAL:HA	2.09	0.52
1:k:459:LEU:CD1	1:z:489:VAL:CG2	2.87	0.52
1:m:134:ILE:HA	1:m:138:MET:HE2	1.92	0.52
1:t:109:GLN:HE21	1:8:300:ILE:CG2	2.23	0.52
1:t:152:ASN:HD21	1:3:263:LEU:HD12	1.71	0.52
1:z:85:VAL:O	1:z:106:THR:HA	2.10	0.52
1:3:222:PRO:HB2	1:3:243:GLY:HA3	1.92	0.52
1:7:134:ILE:HA	1:7:138:MET:HE2	1.92	0.52
1:8:85:VAL:O	1:8:106:THR:HA	2.10	0.52
1:B:351:PHE:HB2	1:H:419:PHE:CE2	2.45	0.52
1:D:263:LEU:HD12	1:I:152:ASN:HD21	1.71	0.52
1:D:268:ASP:OD1	1:I:41:VAL:HA	2.09	0.52
1:I:423:ALA:HA	1:I:424:PRO:C	2.35	0.52
1:J:351:PHE:HB2	1:7:419:PHE:CE2	2.45	0.52
1:J:591:MET:CE	1:3:191:PRO:HG3	2.09	0.52
1:L:85:VAL:O	1:L:106:THR:HA	2.10	0.52
1:M:85:VAL:O	1:M:106:THR:HA	2.10	0.52
1:M:182:VAL:HG22	1:M:505:VAL:HG12	1.92	0.52
1:N:85:VAL:O	1:N:106:THR:HA	2.10	0.52
1:P:268:ASP:OD1	1:T:41:VAL:HA	2.09	0.52
1:Q:489:VAL:CG2	1:V:459:LEU:CD1	2.87	0.52
1:Q:547:LEU:CD1	1:T:189:ILE:HG21	2.34	0.52
1:S:547:LEU:CD1	1:n:189:ILE:HG21	2.34	0.52
1:T:134:ILE:HA	1:T:138:MET:HE2	1.92	0.52
1:T:182:VAL:HG22	1:T:505:VAL:HG12	1.92	0.52
1:Y:419:PHE:CE2	1:2:351:PHE:HB2	2.45	0.52
1:a:152:ASN:HD21	1:u:263:LEU:HD12	1.71	0.52
1:a:222:PRO:HB2	1:a:243:GLY:HA3	1.92	0.52
1:a:423:ALA:HA	1:a:424:PRO:C	2.35	0.52
1:e:462:PHE:N	1:k:483:HIS:HE1	2.07	0.52
1:h:85:VAL:O	1:h:106:THR:HA	2.10	0.52
1:i:85:VAL:O	1:i:106:THR:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:134:ILE:HA	1:i:138:MET:HE2	1.92	0.52
1:k:367:ASP:HB3	1:k:412:GLY:HA3	1.90	0.52
1:m:222:PRO:HB2	1:m:243:GLY:HA3	1.92	0.52
1:m:383:ASN:ND2	1:x:331:VAL:HG13	2.24	0.52
1:o:489:VAL:CG2	1:t:459:LEU:CD1	2.87	0.52
1:p:419:PHE:CE2	1:x:351:PHE:HB2	2.45	0.52
1:t:182:VAL:HG22	1:t:505:VAL:HG12	1.92	0.52
1:w:85:VAL:O	1:w:106:THR:HA	2.10	0.52
1:y:367:ASP:HB3	1:y:412:GLY:HA3	1.90	0.52
1:y:423:ALA:HA	1:y:424:PRO:C	2.35	0.52
1:z:222:PRO:HB2	1:z:243:GLY:HA3	1.92	0.52
1:1:351:PHE:HB2	1:5:419:PHE:CE2	2.45	0.52
1:2:85:VAL:O	1:2:106:THR:HA	2.10	0.52
1:3:423:ALA:HA	1:3:424:PRO:C	2.35	0.52
1:6:423:ALA:HA	1:6:424:PRO:C	2.35	0.52
1:8:367:ASP:HB3	1:8:412:GLY:HA3	1.91	0.52
1:A:85:VAL:O	1:A:106:THR:HA	2.10	0.51
1:A:459:LEU:CD1	1:P:489:VAL:CG2	2.88	0.51
1:B:423:ALA:HA	1:B:424:PRO:C	2.35	0.51
1:C:367:ASP:HB3	1:C:412:GLY:HA3	1.90	0.51
1:D:423:ALA:HA	1:D:424:PRO:C	2.35	0.51
1:F:459:LEU:CD1	1:H:489:VAL:CG2	2.87	0.51
1:G:109:GLN:HE21	1:Z:300:ILE:CG2	2.23	0.51
1:H:182:VAL:HG22	1:H:505:VAL:HG12	1.92	0.51
1:J:85:VAL:O	1:J:106:THR:HA	2.10	0.51
1:M:263:LEU:HD12	1:r:152:ASN:HD21	1.71	0.51
1:N:247:ALA:CB	1:p:557:THR:HG23	2.39	0.51
1:Q:331:VAL:HG13	1:T:383:ASN:ND2	2.24	0.51
1:Q:351:PHE:HB2	1:V:419:PHE:CE2	2.45	0.51
1:Q:591:MET:CE	1:T:191:PRO:HG3	2.09	0.51
1:T:222:PRO:HB2	1:T:243:GLY:HA3	1.92	0.51
1:U:85:VAL:O	1:U:106:THR:HA	2.10	0.51
1:U:268:ASP:OD1	1:k:41:VAL:HA	2.09	0.51
1:X:85:VAL:O	1:X:106:THR:HA	2.10	0.51
1:X:423:ALA:HA	1:X:424:PRO:C	2.35	0.51
1:X:547:LEU:CD1	1:Z:189:ILE:HG21	2.34	0.51
1:b:489:VAL:CG2	1:s:459:LEU:CD1	2.87	0.51
1:j:489:VAL:CG2	1:v:459:LEU:CD1	2.87	0.51
1:k:85:VAL:O	1:k:106:THR:HA	2.10	0.51
1:k:134:ILE:HA	1:k:138:MET:HE2	1.92	0.51
1:k:268:ASP:OD1	1:u:41:VAL:HA	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:182:VAL:HG22	1:m:505:VAL:HG12	1.92	0.51
1:m:189:ILE:HG21	1:x:547:LEU:CD1	2.34	0.51
1:m:191:PRO:HG3	1:x:591:MET:CE	2.09	0.51
1:o:109:GLN:HE21	1:t:300:ILE:CG2	2.23	0.51
1:o:423:ALA:HA	1:o:424:PRO:C	2.35	0.51
1:p:134:ILE:HA	1:p:138:MET:HE2	1.92	0.51
1:p:591:MET:CE	1:x:191:PRO:HG3	2.09	0.51
1:u:423:ALA:HA	1:u:424:PRO:C	2.35	0.51
1:y:85:VAL:O	1:y:106:THR:HA	2.10	0.51
1:y:459:LEU:CD1	1:5:489:VAL:CG2	2.87	0.51
1:D:134:ILE:HA	1:D:138:MET:HE2	1.92	0.51
1:D:483:HIS:HE1	1:c:462:PHE:N	2.07	0.51
1:F:85:VAL:O	1:F:106:THR:HA	2.10	0.51
1:F:367:ASP:HB3	1:F:412:GLY:HA3	1.90	0.51
1:I:263:LEU:HD12	1:3:152:ASN:HD21	1.71	0.51
1:J:383:ASN:ND2	1:7:331:VAL:HG13	2.24	0.51
1:M:462:PHE:CB	1:O:483:HIS:CE1	2.90	0.51
1:M:591:MET:CE	1:O:191:PRO:HG3	2.09	0.51
1:S:41:VAL:HA	1:h:268:ASP:OD1	2.10	0.51
1:T:423:ALA:HA	1:T:424:PRO:C	2.35	0.51
1:U:459:LEU:CD1	1:f:489:VAL:CG2	2.87	0.51
1:V:134:ILE:HA	1:V:138:MET:HE2	1.92	0.51
1:V:557:THR:HG23	1:i:247:ALA:CB	2.39	0.51
1:W:216:ARG:HG2	1:f:296:MET:SD	2.51	0.51
1:b:296:MET:SD	1:6:216:ARG:HG2	2.51	0.51
1:b:423:ALA:HA	1:b:424:PRO:C	2.35	0.51
1:f:423:ALA:HA	1:f:424:PRO:C	2.35	0.51
1:h:182:VAL:HG22	1:h:505:VAL:HG12	1.92	0.51
1:h:300:ILE:CG2	1:l:109:GLN:HE22	2.03	0.51
1:k:222:PRO:HB2	1:k:243:GLY:HA3	1.92	0.51
1:k:296:MET:SD	1:z:216:ARG:HG2	2.51	0.51
1:k:423:ALA:HA	1:k:424:PRO:C	2.35	0.51
1:l:268:ASP:OD1	1:q:41:VAL:HA	2.10	0.51
1:l:300:ILE:CG2	1:w:109:GLN:HE22	2.03	0.51
1:m:423:ALA:HA	1:m:424:PRO:C	2.35	0.51
1:o:300:ILE:CG2	1:8:109:GLN:HE21	2.23	0.51
1:o:591:MET:CE	1:8:191:PRO:HG3	2.09	0.51
1:p:459:LEU:CD1	1:x:489:VAL:CG2	2.87	0.51
1:s:85:VAL:O	1:s:106:THR:HA	2.10	0.51
1:1:423:ALA:HA	1:1:424:PRO:C	2.35	0.51
1:5:85:VAL:O	1:5:106:THR:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:182:VAL:HG22	1:5:505:VAL:HG12	1.92	0.51
1:A:423:ALA:HA	1:A:424:PRO:C	2.35	0.51
1:B:247:ALA:CB	1:P:557:THR:HG23	2.39	0.51
1:D:41:VAL:HA	1:s:268:ASP:OD1	2.09	0.51
1:D:222:PRO:HB2	1:D:243:GLY:HA3	1.92	0.51
1:D:296:MET:SD	1:L:216:ARG:HG2	2.51	0.51
1:E:557:THR:HG23	1:d:247:ALA:CB	2.39	0.51
1:F:296:MET:SD	1:H:216:ARG:HG2	2.51	0.51
1:G:41:VAL:HA	1:a:268:ASP:OD1	2.09	0.51
1:G:300:ILE:CG2	1:X:109:GLN:HE21	2.23	0.51
1:G:346:GLN:HE22	1:G:364:VAL:H	1.59	0.51
1:H:85:VAL:O	1:H:106:THR:HA	2.10	0.51
1:J:483:HIS:HE1	1:7:462:PHE:CB	2.19	0.51
1:J:483:HIS:CG	1:7:486:ARG:NH2	2.79	0.51
1:L:486:ARG:NH2	1:c:483:HIS:CG	2.79	0.51
1:M:268:ASP:OD1	1:r:41:VAL:HA	2.10	0.51
1:M:486:ARG:NH2	1:O:483:HIS:CG	2.79	0.51
1:T:85:VAL:O	1:T:106:THR:HA	2.10	0.51
1:T:296:MET:SD	1:V:216:ARG:HG2	2.51	0.51
1:X:300:ILE:CG2	1:Z:109:GLN:HE21	2.23	0.51
1:X:459:LEU:CD1	1:Z:489:VAL:CG2	2.87	0.51
1:Y:486:ARG:NH2	1:2:483:HIS:CG	2.79	0.51
1:b:41:VAL:HA	1:m:268:ASP:OD1	2.10	0.51
1:b:85:VAL:O	1:b:106:THR:HA	2.10	0.51
1:b:222:PRO:HB2	1:b:243:GLY:HA3	1.92	0.51
1:c:182:VAL:HG22	1:c:505:VAL:HG12	1.92	0.51
1:e:182:VAL:HG22	1:e:505:VAL:HG12	1.92	0.51
1:e:483:HIS:CG	1:z:486:ARG:NH2	2.79	0.51
1:g:182:VAL:HG22	1:g:505:VAL:HG12	1.92	0.51
1:h:222:PRO:HB2	1:h:243:GLY:HA3	1.92	0.51
1:h:486:ARG:NH2	1:l:483:HIS:CG	2.79	0.51
1:j:557:THR:HG23	1:1:247:ALA:CB	2.39	0.51
1:m:85:VAL:O	1:m:106:THR:HA	2.10	0.51
1:m:296:MET:SD	1:p:216:ARG:HG2	2.51	0.51
1:o:85:VAL:O	1:o:106:THR:HA	2.10	0.51
1:o:459:LEU:CD1	1:8:489:VAL:CG2	2.87	0.51
1:p:268:ASP:OD1	1:v:41:VAL:HA	2.10	0.51
1:p:346:GLN:HE22	1:p:364:VAL:H	1.59	0.51
1:t:346:GLN:HE22	1:t:364:VAL:H	1.59	0.51
1:v:85:VAL:O	1:v:106:THR:HA	2.10	0.51
1:v:423:ALA:HA	1:v:424:PRO:C	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:296:MET:SD	1:5:216:ARG:HG2	2.51	0.51
1:5:222:PRO:HB2	1:5:243:GLY:HA3	1.92	0.51
1:7:85:VAL:O	1:7:106:THR:HA	2.10	0.51
1:C:182:VAL:HG22	1:C:505:VAL:HG12	1.92	0.51
1:D:182:VAL:HG22	1:D:505:VAL:HG12	1.92	0.51
1:E:216:ARG:HG2	1:O:296:MET:SD	2.51	0.51
1:E:351:PHE:HB2	1:O:419:PHE:CE2	2.45	0.51
1:E:489:VAL:CG2	1:O:459:LEU:CD1	2.87	0.51
1:H:222:PRO:HB2	1:H:243:GLY:HA3	1.92	0.51
1:I:222:PRO:HB2	1:I:243:GLY:HA3	1.92	0.51
1:M:346:GLN:HE22	1:M:364:VAL:H	1.59	0.51
1:N:268:ASP:OD1	1:p:41:VAL:HA	2.09	0.51
1:O:268:ASP:OD1	1:R:41:VAL:HA	2.10	0.51
1:P:182:VAL:HG22	1:P:505:VAL:HG12	1.92	0.51
1:P:486:ARG:NH2	1:R:483:HIS:CG	2.79	0.51
1:S:182:VAL:HG22	1:S:505:VAL:HG12	1.92	0.51
1:T:419:PHE:CE2	1:V:351:PHE:HB2	2.45	0.51
1:U:486:ARG:NH2	1:f:483:HIS:CG	2.79	0.51
1:V:346:GLN:HE22	1:V:364:VAL:H	1.59	0.51
1:Y:85:VAL:O	1:Y:106:THR:HA	2.10	0.51
1:Y:331:VAL:HG13	1:2:383:ASN:ND2	2.24	0.51
1:Y:483:HIS:CG	1:a:486:ARG:NH2	2.79	0.51
1:a:41:VAL:HA	1:u:268:ASP:OD1	2.10	0.51
1:b:247:ALA:CB	1:8:557:THR:HG23	2.39	0.51
1:b:483:HIS:CG	1:s:486:ARG:NH2	2.79	0.51
1:d:483:HIS:HE1	1:r:462:PHE:CB	2.19	0.51
1:e:557:THR:HG23	1:4:247:ALA:CB	2.39	0.51
1:f:85:VAL:O	1:f:106:THR:HA	2.10	0.51
1:f:222:PRO:HB2	1:f:243:GLY:HA3	1.92	0.51
1:i:109:GLN:HE21	1:n:300:ILE:CG2	2.22	0.51
1:j:182:VAL:HG22	1:j:505:VAL:HG12	1.92	0.51
1:j:459:LEU:CD1	1:q:489:VAL:CG2	2.87	0.51
1:j:486:ARG:NH2	1:q:483:HIS:CG	2.79	0.51
1:j:556:THR:CG2	1:5:556:THR:CG2	2.68	0.51
1:k:182:VAL:HG22	1:k:505:VAL:HG12	1.92	0.51
1:k:263:LEU:HD12	1:u:152:ASN:HD21	1.71	0.51
1:l:296:MET:SD	1:w:216:ARG:HG2	2.51	0.51
1:p:222:PRO:HB2	1:p:243:GLY:HA3	1.92	0.51
1:r:182:VAL:HG22	1:r:505:VAL:HG12	1.92	0.51
1:t:41:VAL:HA	1:3:268:ASP:OD1	2.09	0.51
1:t:423:ALA:HA	1:t:424:PRO:C	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:486:ARG:NH2	1:7:483:HIS:CG	2.79	0.51
1:7:182:VAL:HG22	1:7:505:VAL:HG12	1.92	0.51
1:A:41:VAL:HA	1:V:268:ASP:OD1	2.10	0.51
1:A:222:PRO:HB2	1:A:243:GLY:HA3	1.92	0.51
1:A:351:PHE:HB2	1:R:419:PHE:CE2	2.44	0.51
1:A:462:PHE:CB	1:P:483:HIS:CE1	2.89	0.51
1:B:486:ARG:NH2	1:F:483:HIS:CG	2.79	0.51
1:D:486:ARG:NH2	1:L:483:HIS:CG	2.79	0.51
1:E:486:ARG:NH2	1:M:483:HIS:CG	2.79	0.51
1:G:423:ALA:HA	1:G:424:PRO:C	2.35	0.51
1:I:268:ASP:OD1	1:3:41:VAL:HA	2.10	0.51
1:J:462:PHE:N	1:3:483:HIS:HE1	2.07	0.51
1:M:222:PRO:HB2	1:M:243:GLY:HA3	1.92	0.51
1:Q:296:MET:SD	1:T:216:ARG:HG2	2.51	0.51
1:S:346:GLN:HE22	1:S:364:VAL:H	1.59	0.51
1:S:489:VAL:CG2	1:i:459:LEU:CD1	2.87	0.51
1:T:268:ASP:OD1	1:f:41:VAL:HA	2.10	0.51
1:T:462:PHE:CB	1:V:483:HIS:HE1	2.19	0.51
1:U:296:MET:SD	1:f:216:ARG:HG2	2.51	0.51
1:U:331:VAL:HG13	1:f:383:ASN:ND2	2.24	0.51
1:U:423:ALA:HA	1:U:424:PRO:C	2.35	0.51
1:V:41:VAL:HA	1:i:268:ASP:OD1	2.09	0.51
1:V:85:VAL:O	1:V:106:THR:HA	2.10	0.51
1:V:222:PRO:HB2	1:V:243:GLY:HA3	1.92	0.51
1:X:296:MET:SD	1:Z:216:ARG:HG2	2.51	0.51
1:Y:182:VAL:HG22	1:Y:505:VAL:HG12	1.92	0.51
1:Y:351:PHE:HB2	1:a:419:PHE:CE2	2.45	0.51
1:Z:203:GLY:H	1:Z:210:THR:HG21	1.76	0.51
1:a:483:HIS:HE1	1:2:462:PHE:N	2.07	0.51
1:b:383:ASN:ND2	1:s:331:VAL:HG13	2.24	0.51
1:b:486:ARG:NH2	1:6:483:HIS:CG	2.79	0.51
1:d:423:ALA:HA	1:d:424:PRO:C	2.35	0.51
1:e:109:GLN:HE21	1:z:300:ILE:CG2	2.23	0.51
1:e:268:ASP:OD1	1:l:41:VAL:HA	2.09	0.51
1:h:346:GLN:HE22	1:h:364:VAL:H	1.59	0.51
1:h:462:PHE:CB	1:l:483:HIS:CE1	2.90	0.51
1:j:483:HIS:CE1	1:v:462:PHE:CB	2.90	0.51
1:l:459:LEU:CD1	1:w:489:VAL:CG2	2.87	0.51
1:m:216:ARG:HG2	1:x:296:MET:SD	2.51	0.51
1:m:419:PHE:CE2	1:p:351:PHE:HB2	2.45	0.51
1:n:247:ALA:CB	1:w:557:THR:HG23	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:296:MET:SD	1:8:216:ARG:HG2	2.51	0.51
1:o:486:ARG:NH2	1:8:483:HIS:CG	2.79	0.51
1:o:547:LEU:CD1	1:8:189:ILE:HG21	2.34	0.51
1:p:85:VAL:O	1:p:106:THR:HA	2.10	0.51
1:r:346:GLN:HE22	1:r:364:VAL:H	1.59	0.51
1:v:222:PRO:HB2	1:v:243:GLY:HA3	1.92	0.51
1:y:462:PHE:CB	1:5:483:HIS:CE1	2.90	0.51
1:y:486:ARG:NH2	1:5:483:HIS:CG	2.79	0.51
1:6:222:PRO:HB2	1:6:243:GLY:HA3	1.92	0.51
1:A:182:VAL:HG22	1:A:505:VAL:HG12	1.92	0.51
1:A:552:VAL:HG11	1:A:588:VAL:HG13	1.93	0.51
1:D:216:ARG:HG2	1:c:296:MET:SD	2.51	0.51
1:E:109:GLN:HE22	1:O:300:ILE:CG2	2.03	0.51
1:F:486:ARG:NH2	1:H:483:HIS:CG	2.79	0.51
1:G:268:ASP:OD1	1:U:41:VAL:HA	2.10	0.51
1:H:346:GLN:HE22	1:H:364:VAL:H	1.59	0.51
1:I:486:ARG:NH2	1:K:483:HIS:CG	2.79	0.51
1:K:247:ALA:CB	1:c:557:THR:HG23	2.39	0.51
1:N:109:GLN:HE21	1:d:300:ILE:CG2	2.22	0.51
1:N:459:LEU:CD1	1:r:489:VAL:CG2	2.87	0.51
1:O:41:VAL:HA	1:c:268:ASP:OD1	2.09	0.51
1:P:134:ILE:HA	1:P:138:MET:HE2	1.92	0.51
1:P:257:ASN:CB	1:T:127:GLN:HE21	2.20	0.51
1:P:459:LEU:CD1	1:R:489:VAL:CG2	2.87	0.51
1:P:552:VAL:HG11	1:P:588:VAL:HG13	1.93	0.51
1:Q:462:PHE:N	1:T:483:HIS:HE1	2.07	0.51
1:S:85:VAL:O	1:S:106:THR:HA	2.10	0.51
1:S:557:THR:HG23	1:h:247:ALA:CB	2.39	0.51
1:T:486:ARG:NH2	1:V:483:HIS:CG	2.79	0.51
1:U:286:HIS:NE2	1:f:248:LEU:O	2.44	0.51
1:W:222:PRO:HB2	1:W:243:GLY:HA3	1.92	0.51
1:W:483:HIS:CG	1:f:486:ARG:NH2	2.79	0.51
1:X:486:ARG:NH2	1:Z:483:HIS:CG	2.79	0.51
1:Y:462:PHE:CB	1:2:483:HIS:HE1	2.19	0.51
1:Y:483:HIS:HE1	1:a:462:PHE:N	2.07	0.51
1:Z:557:THR:HG23	1:f:247:ALA:CB	2.39	0.51
1:b:216:ARG:HG2	1:s:296:MET:SD	2.51	0.51
1:b:248:LEU:O	1:s:286:HIS:NE2	2.44	0.51
1:d:351:PHE:HB2	1:r:419:PHE:CE2	2.45	0.51
1:e:216:ARG:HG2	1:z:296:MET:SD	2.51	0.51
1:g:483:HIS:HE1	1:4:462:PHE:N	2.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:483:HIS:CG	1:w:486:ARG:NH2	2.79	0.51
1:i:248:LEU:O	1:n:286:HIS:NE2	2.44	0.51
1:j:216:ARG:HG2	1:v:296:MET:SD	2.51	0.51
1:j:552:VAL:HG11	1:j:588:VAL:HG13	1.93	0.51
1:k:486:ARG:NH2	1:z:483:HIS:CG	2.79	0.51
1:l:419:PHE:CE2	1:w:351:PHE:HB2	2.45	0.51
1:m:483:HIS:HE1	1:x:462:PHE:N	2.07	0.51
1:m:486:ARG:NH2	1:p:483:HIS:CG	2.79	0.51
1:p:423:ALA:HA	1:p:424:PRO:C	2.35	0.51
1:q:222:PRO:HB2	1:q:243:GLY:HA3	1.92	0.51
1:q:419:PHE:CE2	1:v:351:PHE:HB2	2.45	0.51
1:s:182:VAL:HG22	1:s:505:VAL:HG12	1.92	0.51
1:u:222:PRO:HB2	1:u:243:GLY:HA3	1.92	0.51
1:u:419:PHE:CE2	1:4:351:PHE:HB2	2.45	0.51
1:u:486:ARG:NH2	1:4:483:HIS:CG	2.79	0.51
1:y:351:PHE:HB2	1:1:419:PHE:CE2	2.45	0.51
1:y:483:HIS:CG	1:1:486:ARG:NH2	2.79	0.51
1:6:346:GLN:HE22	1:6:364:VAL:H	1.59	0.51
1:8:203:GLY:H	1:8:210:THR:HG21	1.76	0.51
1:A:486:ARG:NH2	1:P:483:HIS:CG	2.79	0.51
1:B:189:ILE:HG21	1:H:547:LEU:CD1	2.34	0.51
1:D:203:GLY:H	1:D:210:THR:HG21	1.76	0.51
1:F:286:HIS:NE2	1:H:248:LEU:O	2.44	0.51
1:F:462:PHE:CB	1:H:483:HIS:CE1	2.90	0.51
1:G:222:PRO:HB2	1:G:243:GLY:HA3	1.92	0.51
1:H:556:THR:CG2	1:P:556:THR:CG2	2.68	0.51
1:J:286:HIS:NE2	1:3:248:LEU:O	2.44	0.51
1:L:203:GLY:H	1:L:210:THR:HG21	1.76	0.51
1:L:296:MET:SD	1:c:216:ARG:HG2	2.51	0.51
1:M:247:ALA:CB	1:r:557:THR:HG23	2.39	0.51
1:M:300:ILE:CG2	1:O:109:GLN:HE22	2.03	0.51
1:N:248:LEU:O	1:d:286:HIS:NE2	2.44	0.51
1:O:203:GLY:H	1:O:210:THR:HG21	1.76	0.51
1:Q:248:LEU:O	1:V:286:HIS:NE2	2.44	0.51
1:Q:286:HIS:NE2	1:T:248:LEU:O	2.44	0.51
1:Q:483:HIS:CG	1:V:486:ARG:NH2	2.79	0.51
1:R:222:PRO:HB2	1:R:243:GLY:HA3	1.92	0.51
1:R:423:ALA:HA	1:R:424:PRO:C	2.35	0.51
1:S:419:PHE:CE2	1:n:351:PHE:HB2	2.45	0.51
1:S:462:PHE:CB	1:n:483:HIS:HE1	2.19	0.51
1:S:486:ARG:NH2	1:n:483:HIS:CG	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:182:VAL:HG22	1:U:505:VAL:HG12	1.92	0.51
1:U:300:ILE:CG2	1:f:109:GLN:HE21	2.23	0.51
1:W:346:GLN:HE22	1:W:364:VAL:H	1.59	0.51
1:a:248:LEU:O	1:2:286:HIS:NE2	2.44	0.51
1:b:152:ASN:HD21	1:m:263:LEU:HD12	1.71	0.51
1:d:346:GLN:HE22	1:d:364:VAL:H	1.59	0.51
1:e:203:GLY:H	1:e:210:THR:HG21	1.76	0.51
1:e:296:MET:SD	1:k:216:ARG:HG2	2.51	0.51
1:j:134:ILE:HA	1:j:138:MET:HE2	1.92	0.51
1:j:483:HIS:CG	1:v:486:ARG:NH2	2.79	0.51
1:l:203:GLY:H	1:l:210:THR:HG21	1.76	0.51
1:l:247:ALA:CB	1:q:557:THR:HG23	2.39	0.51
1:m:248:LEU:O	1:x:286:HIS:NE2	2.44	0.51
1:m:462:PHE:CB	1:p:483:HIS:HE1	2.19	0.51
1:n:222:PRO:HB2	1:n:243:GLY:HA3	1.92	0.51
1:n:346:GLN:HE22	1:n:364:VAL:H	1.59	0.51
1:p:286:HIS:NE2	1:x:248:LEU:O	2.44	0.51
1:p:486:ARG:NH2	1:x:483:HIS:CG	2.79	0.51
1:q:182:VAL:HG22	1:q:505:VAL:HG12	1.92	0.51
1:q:286:HIS:NE2	1:v:248:LEU:O	2.44	0.51
1:q:423:ALA:HA	1:q:424:PRO:C	2.35	0.51
1:s:423:ALA:HA	1:s:424:PRO:C	2.35	0.51
1:u:552:VAL:HG11	1:u:588:VAL:HG13	1.93	0.51
1:v:552:VAL:HG11	1:v:588:VAL:HG13	1.93	0.51
1:y:286:HIS:NE2	1:5:248:LEU:O	2.44	0.51
1:z:203:GLY:H	1:z:210:THR:HG21	1.76	0.51
1:3:419:PHE:CE2	1:7:351:PHE:HB2	2.45	0.51
1:4:182:VAL:HG22	1:4:505:VAL:HG12	1.92	0.51
1:5:346:GLN:HE22	1:5:364:VAL:H	1.59	0.51
1:B:419:PHE:CE2	1:F:351:PHE:HB2	2.45	0.51
1:C:286:HIS:NE2	1:I:248:LEU:O	2.44	0.51
1:C:423:ALA:HA	1:C:424:PRO:C	2.35	0.51
1:C:483:HIS:HE1	1:K:462:PHE:N	2.07	0.51
1:C:483:HIS:CG	1:K:486:ARG:NH2	2.79	0.51
1:E:483:HIS:CG	1:O:486:ARG:NH2	2.79	0.51
1:G:483:HIS:CG	1:Z:486:ARG:NH2	2.79	0.51
1:G:486:ARG:NH2	1:X:483:HIS:CG	2.79	0.51
1:H:203:GLY:H	1:H:210:THR:HG21	1.76	0.51
1:I:286:HIS:NE2	1:K:248:LEU:O	2.44	0.51
1:I:419:PHE:CE2	1:K:351:PHE:HB2	2.45	0.51
1:I:552:VAL:HG11	1:I:588:VAL:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:296:MET:SD	1:3:216:ARG:HG2	2.51	0.51
1:K:182:VAL:HG22	1:K:505:VAL:HG12	1.92	0.51
1:K:552:VAL:HG11	1:K:588:VAL:HG13	1.93	0.51
1:O:247:ALA:CB	1:R:557:THR:HG23	2.39	0.51
1:Q:191:PRO:HG3	1:V:591:MET:CE	2.09	0.51
1:R:552:VAL:HG11	1:R:588:VAL:HG13	1.93	0.51
1:V:423:ALA:HA	1:V:424:PRO:C	2.35	0.51
1:W:203:GLY:H	1:W:210:THR:HG21	1.76	0.51
1:a:109:GLN:HE21	1:2:300:ILE:CG2	2.23	0.51
1:a:552:VAL:HG11	1:a:588:VAL:HG13	1.93	0.51
1:b:109:GLN:HE21	1:s:300:ILE:CG2	2.23	0.51
1:c:203:GLY:H	1:c:210:THR:HG21	1.76	0.51
1:d:222:PRO:HB2	1:d:243:GLY:HA3	1.92	0.51
1:d:483:HIS:CG	1:r:486:ARG:NH2	2.79	0.51
1:e:152:ASN:HD21	1:4:263:LEU:HD12	1.71	0.51
1:g:286:HIS:NE2	1:u:248:LEU:O	2.44	0.51
1:g:483:HIS:CG	1:4:486:ARG:NH2	2.79	0.51
1:h:552:VAL:HG11	1:h:588:VAL:HG13	1.93	0.51
1:j:263:LEU:HD12	1:m:152:ASN:HD21	1.71	0.51
1:k:203:GLY:H	1:k:210:THR:HG21	1.76	0.51
1:l:222:PRO:HB2	1:l:243:GLY:HA3	1.92	0.51
1:m:300:ILE:CG2	1:p:109:GLN:HE21	2.22	0.51
1:r:85:VAL:O	1:r:106:THR:HA	2.10	0.51
1:s:41:VAL:HA	1:t:268:ASP:OD1	2.10	0.51
1:t:483:HIS:CG	1:8:486:ARG:NH2	2.79	0.51
1:v:134:ILE:HA	1:v:138:MET:HE2	1.91	0.51
1:v:182:VAL:HG22	1:v:505:VAL:HG12	1.92	0.51
1:y:216:ARG:HG2	1:1:296:MET:SD	2.51	0.51
1:3:462:PHE:N	1:7:483:HIS:HE1	2.07	0.51
1:4:552:VAL:HG11	1:4:588:VAL:HG13	1.93	0.51
1:5:552:VAL:HG11	1:5:588:VAL:HG13	1.93	0.51
1:6:203:GLY:H	1:6:210:THR:HG21	1.76	0.51
1:7:203:GLY:H	1:7:210:THR:HG21	1.76	0.51
1:A:134:ILE:HA	1:A:138:MET:HE2	1.91	0.51
1:B:296:MET:SD	1:F:216:ARG:HG2	2.51	0.51
1:C:351:PHE:HB2	1:K:419:PHE:CE2	2.45	0.51
1:E:222:PRO:HB2	1:E:243:GLY:HA3	1.92	0.51
1:E:296:MET:SD	1:M:216:ARG:HG2	2.51	0.51
1:H:552:VAL:HG11	1:H:588:VAL:HG13	1.93	0.51
1:J:134:ILE:HA	1:J:138:MET:HE2	1.92	0.51
1:K:263:LEU:HD12	1:c:152:ASN:HD21	1.71	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:552:VAL:HG11	1:L:588:VAL:HG13	1.93	0.51
1:M:296:MET:SD	1:O:216:ARG:HG2	2.51	0.51
1:M:552:VAL:HG11	1:M:588:VAL:HG13	1.93	0.51
1:N:296:MET:SD	1:r:216:ARG:HG2	2.51	0.51
1:R:182:VAL:HG22	1:R:505:VAL:HG12	1.92	0.51
1:S:134:ILE:HA	1:S:138:MET:HE2	1.92	0.51
1:T:300:ILE:CG2	1:V:109:GLN:HE21	2.22	0.51
1:W:248:LEU:O	1:f:286:HIS:NE2	2.44	0.51
1:Y:203:GLY:H	1:Y:210:THR:HG21	1.76	0.51
1:Z:42:SER:HG	1:f:265:ARG:HG3	1.76	0.51
1:Z:346:GLN:HE22	1:Z:364:VAL:H	1.59	0.51
1:a:216:ARG:HG2	1:2:296:MET:SD	2.51	0.51
1:b:286:HIS:NE2	1:6:248:LEU:O	2.44	0.51
1:f:552:VAL:HG11	1:f:588:VAL:HG13	1.93	0.51
1:g:423:ALA:HA	1:g:424:PRO:C	2.35	0.51
1:h:216:ARG:HG2	1:w:296:MET:SD	2.51	0.51
1:i:216:ARG:HG2	1:n:296:MET:SD	2.51	0.51
1:l:486:ARG:NH2	1:w:483:HIS:CG	2.79	0.51
1:n:423:ALA:HA	1:n:424:PRO:C	2.35	0.51
1:o:483:HIS:CG	1:t:486:ARG:NH2	2.79	0.51
1:q:552:VAL:HG11	1:q:588:VAL:HG13	1.93	0.51
1:r:134:ILE:HA	1:r:138:MET:HE2	1.92	0.51
1:t:222:PRO:HB2	1:t:243:GLY:HA3	1.92	0.51
1:u:286:HIS:NE2	1:4:248:LEU:O	2.44	0.51
1:u:296:MET:SD	1:4:216:ARG:HG2	2.51	0.51
1:u:462:PHE:N	1:4:483:HIS:HE1	2.07	0.51
1:x:182:VAL:HG22	1:x:505:VAL:HG12	1.92	0.51
1:1:189:ILE:HG21	1:5:547:LEU:CD1	2.34	0.51
1:3:552:VAL:HG11	1:3:588:VAL:HG13	1.93	0.51
1:5:203:GLY:H	1:5:210:THR:HG21	1.76	0.51
1:A:296:MET:SD	1:P:216:ARG:HG2	2.51	0.51
1:A:300:ILE:CG2	1:P:109:GLN:HE21	2.22	0.51
1:C:402:TYR:CD2	1:C:582:PRO:HG2	2.46	0.51
1:C:486:ARG:NH2	1:I:483:HIS:CG	2.79	0.51
1:E:483:HIS:HE1	1:O:462:PHE:CB	2.19	0.51
1:H:557:THR:HG23	1:R:247:ALA:CB	2.39	0.51
1:I:462:PHE:N	1:K:483:HIS:HE1	2.07	0.51
1:J:300:ILE:CG2	1:3:109:GLN:HE21	2.23	0.51
1:K:134:ILE:HA	1:K:138:MET:HE2	1.92	0.51
1:N:203:GLY:H	1:N:210:THR:HG21	1.76	0.51
1:N:216:ARG:HG2	1:d:296:MET:SD	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:222:PRO:HB2	1:O:243:GLY:HA3	1.92	0.51
1:O:346:GLN:HE22	1:O:364:VAL:H	1.59	0.51
1:Q:134:ILE:HA	1:Q:138:MET:HE2	1.92	0.51
1:Q:182:VAL:HG22	1:Q:505:VAL:HG12	1.92	0.51
1:Q:486:ARG:NH2	1:T:483:HIS:CG	2.79	0.51
1:S:216:ARG:HG2	1:i:296:MET:SD	2.51	0.51
1:S:483:HIS:CE1	1:i:462:PHE:CB	2.90	0.51
1:T:286:HIS:NE2	1:V:248:LEU:O	2.44	0.51
1:W:552:VAL:HG11	1:W:588:VAL:HG13	1.93	0.51
1:Y:423:ALA:HA	1:Y:424:PRO:C	2.35	0.51
1:Z:552:VAL:HG11	1:Z:588:VAL:HG13	1.93	0.51
1:b:203:GLY:H	1:b:210:THR:HG21	1.76	0.51
1:b:552:VAL:HG11	1:b:588:VAL:HG13	1.93	0.51
1:c:134:ILE:HA	1:c:138:MET:HE2	1.91	0.51
1:c:402:TYR:CD2	1:c:582:PRO:HG2	2.46	0.51
1:d:402:TYR:CD2	1:d:582:PRO:HG2	2.46	0.51
1:e:134:ILE:HA	1:e:138:MET:HE2	1.91	0.51
1:e:402:TYR:CD2	1:e:582:PRO:HG2	2.46	0.51
1:f:203:GLY:H	1:f:210:THR:HG21	1.76	0.51
1:g:351:PHE:HB2	1:4:419:PHE:CE2	2.45	0.51
1:h:296:MET:SD	1:l:216:ARG:HG2	2.51	0.51
1:i:203:GLY:H	1:i:210:THR:HG21	1.76	0.51
1:l:346:GLN:HE22	1:l:364:VAL:H	1.59	0.51
1:n:402:TYR:CD2	1:n:582:PRO:HG2	2.46	0.51
1:q:296:MET:SD	1:v:216:ARG:HG2	2.51	0.51
1:r:552:VAL:HG11	1:r:588:VAL:HG13	1.93	0.51
1:t:134:ILE:HA	1:t:138:MET:HE2	1.92	0.51
1:x:134:ILE:HA	1:x:138:MET:HE2	1.92	0.51
1:x:222:PRO:HB2	1:x:243:GLY:HA3	1.92	0.51
1:z:552:VAL:HG11	1:z:588:VAL:HG13	1.93	0.51
1:3:296:MET:SD	1:7:216:ARG:HG2	2.51	0.51
1:4:134:ILE:HA	1:4:138:MET:HE2	1.92	0.51
1:7:423:ALA:HA	1:7:424:PRO:C	2.35	0.51
1:8:346:GLN:HE22	1:8:364:VAL:H	1.59	0.51
1:A:248:LEU:O	1:R:286:HIS:NE2	2.45	0.50
1:A:346:GLN:HE22	1:A:364:VAL:H	1.59	0.50
1:B:216:ARG:HG2	1:H:296:MET:SD	2.51	0.50
1:D:286:HIS:NE2	1:L:248:LEU:O	2.44	0.50
1:G:134:ILE:HA	1:G:138:MET:HE2	1.92	0.50
1:H:423:ALA:HA	1:H:424:PRO:C	2.35	0.50
1:J:557:THR:HG23	1:o:247:ALA:CB	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:346:GLN:HE22	1:K:364:VAL:H	1.59	0.50
1:M:203:GLY:H	1:M:210:THR:HG21	1.76	0.50
1:N:402:TYR:CD2	1:N:582:PRO:HG2	2.46	0.50
1:N:486:ARG:NH2	1:r:483:HIS:CG	2.79	0.50
1:S:483:HIS:CG	1:i:486:ARG:NH2	2.79	0.50
1:S:552:VAL:HG11	1:S:588:VAL:HG13	1.93	0.50
1:T:263:LEU:HD12	1:f:152:ASN:HD21	1.71	0.50
1:Y:216:ARG:HG2	1:a:296:MET:SD	2.51	0.50
1:a:483:HIS:CG	1:2:486:ARG:NH2	2.79	0.50
1:b:351:PHE:HB2	1:s:419:PHE:CE2	2.45	0.50
1:g:402:TYR:CD2	1:g:582:PRO:HG2	2.46	0.50
1:g:486:ARG:NH2	1:u:483:HIS:CG	2.79	0.50
1:h:203:GLY:H	1:h:210:THR:HG21	1.76	0.50
1:i:402:TYR:CD2	1:i:582:PRO:HG2	2.46	0.50
1:l:462:PHE:CB	1:w:483:HIS:HE1	2.19	0.50
1:m:286:HIS:NE2	1:p:248:LEU:O	2.44	0.50
1:o:462:PHE:CB	1:8:483:HIS:CE1	2.90	0.50
1:q:247:ALA:CB	1:5:557:THR:HG23	2.39	0.50
1:s:191:PRO:HG3	1:6:591:MET:CE	2.09	0.50
1:s:483:HIS:CG	1:6:486:ARG:NH2	2.79	0.50
1:u:402:TYR:CD2	1:u:582:PRO:HG2	2.46	0.50
1:v:346:GLN:HE22	1:v:364:VAL:H	1.59	0.50
1:w:222:PRO:HB2	1:w:243:GLY:HA3	1.92	0.50
1:x:203:GLY:H	1:x:210:THR:HG21	1.76	0.50
1:1:216:ARG:HG2	1:5:296:MET:SD	2.51	0.50
1:1:346:GLN:HE22	1:1:364:VAL:H	1.59	0.50
1:1:483:HIS:CG	1:5:486:ARG:NH2	2.79	0.50
1:2:134:ILE:HA	1:2:138:MET:HE2	1.92	0.50
1:4:222:PRO:HB2	1:4:243:GLY:HA3	1.92	0.50
1:4:402:TYR:CD2	1:4:582:PRO:HG2	2.46	0.50
1:5:423:ALA:HA	1:5:424:PRO:C	2.35	0.50
1:6:552:VAL:HG11	1:6:588:VAL:HG13	1.93	0.50
1:8:552:VAL:HG11	1:8:588:VAL:HG13	1.93	0.50
1:A:203:GLY:H	1:A:210:THR:HG21	1.76	0.50
1:B:346:GLN:HE22	1:B:364:VAL:H	1.59	0.50
1:B:402:TYR:CD2	1:B:582:PRO:HG2	2.46	0.50
1:B:483:HIS:CG	1:H:486:ARG:NH2	2.79	0.50
1:D:152:ASN:HD21	1:s:263:LEU:HD12	1.71	0.50
1:D:483:HIS:CG	1:c:486:ARG:NH2	2.79	0.50
1:E:134:ILE:HA	1:E:138:MET:HE2	1.92	0.50
1:E:286:HIS:NE2	1:M:248:LEU:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:346:GLN:HE22	1:E:364:VAL:H	1.59	0.50
1:I:296:MET:SD	1:K:216:ARG:HG2	2.51	0.50
1:I:346:GLN:HE22	1:I:364:VAL:H	1.59	0.50
1:I:402:TYR:CD2	1:I:582:PRO:HG2	2.46	0.50
1:J:346:GLN:HE22	1:J:364:VAL:H	1.59	0.50
1:J:486:ARG:NH2	1:3:483:HIS:CG	2.79	0.50
1:K:222:PRO:HB2	1:K:243:GLY:HA3	1.92	0.50
1:K:402:TYR:CD2	1:K:582:PRO:HG2	2.46	0.50
1:N:462:PHE:CB	1:r:483:HIS:CE1	2.90	0.50
1:P:263:LEU:HD12	1:T:152:ASN:HD21	1.71	0.50
1:P:286:HIS:NE2	1:R:248:LEU:O	2.44	0.50
1:Q:203:GLY:H	1:Q:210:THR:HG21	1.76	0.50
1:Q:222:PRO:HB2	1:Q:243:GLY:HA3	1.92	0.50
1:Q:346:GLN:HE22	1:Q:364:VAL:H	1.59	0.50
1:Q:402:TYR:CD2	1:Q:582:PRO:HG2	2.46	0.50
1:S:556:THR:CG2	1:w:556:THR:CG2	2.69	0.50
1:U:419:PHE:CE2	1:f:351:PHE:HB2	2.45	0.50
1:X:462:PHE:CB	1:Z:483:HIS:CE1	2.90	0.50
1:d:56:GLY:C	1:d:58:GLY:N	2.69	0.50
1:e:486:ARG:NH2	1:k:483:HIS:CG	2.79	0.50
1:g:109:GLN:HE21	1:4:300:ILE:CG2	2.22	0.50
1:j:109:GLN:HE21	1:v:300:ILE:CG2	2.22	0.50
1:k:286:HIS:NE2	1:z:248:LEU:O	2.44	0.50
1:k:346:GLN:HE22	1:k:364:VAL:H	1.59	0.50
1:m:483:HIS:CG	1:x:486:ARG:NH2	2.79	0.50
1:w:346:GLN:HE22	1:w:364:VAL:H	1.59	0.50
1:x:402:TYR:CD2	1:x:582:PRO:HG2	2.46	0.50
1:y:248:LEU:O	1:1:286:HIS:NE2	2.44	0.50
1:1:402:TYR:CD2	1:1:582:PRO:HG2	2.46	0.50
1:2:346:GLN:HE22	1:2:364:VAL:H	1.59	0.50
1:B:286:HIS:NE2	1:F:248:LEU:O	2.44	0.50
1:B:552:VAL:HG11	1:B:588:VAL:HG13	1.93	0.50
1:C:109:GLN:HE21	1:K:300:ILE:CG2	2.22	0.50
1:C:557:THR:HG23	1:7:247:ALA:CB	2.39	0.50
1:E:203:GLY:H	1:E:210:THR:HG21	1.76	0.50
1:F:182:VAL:HG22	1:F:505:VAL:HG12	1.92	0.50
1:F:346:GLN:HE22	1:F:364:VAL:H	1.59	0.50
1:G:483:HIS:CE1	1:Z:462:PHE:CB	2.90	0.50
1:J:203:GLY:H	1:J:210:THR:HG21	1.76	0.50
1:P:462:PHE:N	1:R:483:HIS:HE1	2.07	0.50
1:Q:423:ALA:HA	1:Q:424:PRO:C	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:483:HIS:CG	1:W:486:ARG:NH2	2.79	0.50
1:X:247:ALA:CB	1:2:557:THR:HG23	2.39	0.50
1:X:286:HIS:NE2	1:Z:248:LEU:O	2.44	0.50
1:X:346:GLN:HE22	1:X:364:VAL:H	1.59	0.50
1:Z:182:VAL:HG22	1:Z:505:VAL:HG12	1.92	0.50
1:c:552:VAL:HG11	1:c:588:VAL:HG13	1.93	0.50
1:d:203:GLY:H	1:d:210:THR:HG21	1.76	0.50
1:g:346:GLN:HE22	1:g:364:VAL:H	1.59	0.50
1:h:248:LEU:O	1:w:286:HIS:NE2	2.44	0.50
1:h:483:HIS:CE1	1:w:462:PHE:CB	2.90	0.50
1:j:248:LEU:O	1:v:286:HIS:NE2	2.44	0.50
1:j:462:PHE:N	1:q:483:HIS:HE1	2.07	0.50
1:o:222:PRO:HB2	1:o:243:GLY:HA3	1.92	0.50
1:o:286:HIS:NE2	1:8:248:LEU:O	2.44	0.50
1:o:346:GLN:HE22	1:o:364:VAL:H	1.59	0.50
1:p:296:MET:SD	1:x:216:ARG:HG2	2.51	0.50
1:r:222:PRO:HB2	1:r:243:GLY:HA3	1.92	0.50
1:s:248:LEU:O	1:6:286:HIS:NE2	2.44	0.50
1:s:483:HIS:HE1	1:6:462:PHE:CB	2.19	0.50
1:u:346:GLN:HE22	1:u:364:VAL:H	1.59	0.50
1:y:182:VAL:HG22	1:y:505:VAL:HG12	1.92	0.50
1:2:203:GLY:H	1:2:210:THR:HG21	1.76	0.50
1:4:346:GLN:HE22	1:4:364:VAL:H	1.59	0.50
1:8:182:VAL:HG22	1:8:505:VAL:HG12	1.92	0.50
1:A:216:ARG:HG2	1:R:296:MET:SD	2.51	0.50
1:A:419:PHE:CE2	1:P:351:PHE:HB2	2.44	0.50
1:C:346:GLN:HE22	1:C:364:VAL:H	1.59	0.50
1:D:346:GLN:HE22	1:D:364:VAL:H	1.59	0.50
1:I:203:GLY:H	1:I:210:THR:HG21	1.76	0.50
1:L:486:ARG:HH21	1:c:483:HIS:CG	2.30	0.50
1:M:402:TYR:CD2	1:M:582:PRO:HG2	2.46	0.50
1:M:419:PHE:CE2	1:O:351:PHE:HB2	2.45	0.50
1:Q:216:ARG:HG2	1:V:296:MET:SD	2.51	0.50
1:R:203:GLY:H	1:R:210:THR:HG21	1.76	0.50
1:S:222:PRO:HB2	1:S:243:GLY:HA3	1.92	0.50
1:S:248:LEU:O	1:i:286:HIS:NE2	2.44	0.50
1:T:462:PHE:N	1:V:483:HIS:HE1	2.07	0.50
1:U:248:LEU:O	1:W:286:HIS:NE2	2.44	0.50
1:U:263:LEU:HD12	1:k:152:ASN:HD21	1.71	0.50
1:V:56:GLY:C	1:V:58:GLY:N	2.69	0.50
1:V:203:GLY:H	1:V:210:THR:HG21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:247:ALA:CB	1:g:557:THR:HG23	2.39	0.50
1:Y:286:HIS:NE2	1:2:248:LEU:O	2.44	0.50
1:Z:402:TYR:CD2	1:Z:582:PRO:HG2	2.46	0.50
1:b:402:TYR:CD2	1:b:582:PRO:HG2	2.46	0.50
1:d:248:LEU:O	1:r:286:HIS:NE2	2.44	0.50
1:d:557:THR:HG23	1:x:247:ALA:CB	2.39	0.50
1:e:483:HIS:HE1	1:z:462:PHE:N	2.07	0.50
1:e:483:HIS:CG	1:z:486:ARG:HH21	2.30	0.50
1:e:552:VAL:HG11	1:e:588:VAL:HG13	1.93	0.50
1:f:402:TYR:CD2	1:f:582:PRO:HG2	2.46	0.50
1:g:483:HIS:CG	1:4:486:ARG:HH21	2.30	0.50
1:h:402:TYR:CD2	1:h:582:PRO:HG2	2.46	0.50
1:j:286:HIS:NE2	1:q:248:LEU:O	2.44	0.50
1:k:300:ILE:CG2	1:z:109:GLN:HE21	2.23	0.50
1:n:203:GLY:H	1:n:210:THR:HG21	1.76	0.50
1:o:557:THR:HG23	1:y:247:ALA:CB	2.39	0.50
1:p:203:GLY:H	1:p:210:THR:HG21	1.76	0.50
1:q:203:GLY:H	1:q:210:THR:HG21	1.76	0.50
1:u:203:GLY:H	1:u:210:THR:HG21	1.76	0.50
1:v:203:GLY:H	1:v:210:THR:HG21	1.76	0.50
1:w:134:ILE:HA	1:w:138:MET:HE2	1.92	0.50
1:w:203:GLY:H	1:w:210:THR:HG21	1.76	0.50
1:x:346:GLN:HE22	1:x:364:VAL:H	1.59	0.50
1:y:346:GLN:HE22	1:y:364:VAL:H	1.59	0.50
1:1:203:GLY:H	1:1:210:THR:HG21	1.76	0.50
1:1:552:VAL:HG11	1:1:588:VAL:HG13	1.93	0.50
1:4:203:GLY:H	1:4:210:THR:HG21	1.76	0.50
1:7:552:VAL:HG11	1:7:588:VAL:HG13	1.93	0.50
1:A:402:TYR:CD2	1:A:582:PRO:HG2	2.46	0.50
1:B:203:GLY:H	1:B:210:THR:HG21	1.76	0.50
1:C:248:LEU:O	1:K:286:HIS:NE2	2.44	0.50
1:C:483:HIS:CG	1:K:486:ARG:HH21	2.30	0.50
1:F:402:TYR:CD2	1:F:582:PRO:HG2	2.46	0.50
1:G:216:ARG:HG2	1:Z:296:MET:SD	2.51	0.50
1:J:216:ARG:HG2	1:7:296:MET:SD	2.51	0.50
1:J:248:LEU:O	1:7:286:HIS:NE2	2.44	0.50
1:J:552:VAL:HG11	1:J:588:VAL:HG13	1.93	0.50
1:K:203:GLY:H	1:K:210:THR:HG21	1.76	0.50
1:L:402:TYR:CD2	1:L:582:PRO:HG2	2.46	0.50
1:N:286:HIS:NE2	1:r:248:LEU:O	2.44	0.50
1:N:483:HIS:CG	1:d:486:ARG:NH2	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:286:HIS:NE2	1:n:248:LEU:O	2.44	0.50
1:T:203:GLY:H	1:T:210:THR:HG21	1.76	0.50
1:X:182:VAL:HG22	1:X:505:VAL:HG12	1.92	0.50
1:X:222:PRO:HB2	1:X:243:GLY:HA3	1.92	0.50
1:Y:296:MET:SD	1:2:216:ARG:HG2	2.51	0.50
1:Y:462:PHE:N	1:2:483:HIS:HE1	2.07	0.50
1:Y:552:VAL:HG11	1:Y:588:VAL:HG13	1.93	0.50
1:a:203:GLY:H	1:a:210:THR:HG21	1.76	0.50
1:c:346:GLN:HE22	1:c:364:VAL:H	1.59	0.50
1:h:419:PHE:CE2	1:l:351:PHE:HB2	2.45	0.50
1:j:402:TYR:CD2	1:j:582:PRO:HG2	2.46	0.50
1:j:483:HIS:HE1	1:v:462:PHE:CB	2.19	0.50
1:p:552:VAL:HG11	1:p:588:VAL:HG13	1.93	0.50
1:r:402:TYR:CD2	1:r:582:PRO:HG2	2.46	0.50
1:t:216:ARG:HG2	1:8:296:MET:SD	2.51	0.50
1:8:402:TYR:CD2	1:8:582:PRO:HG2	2.46	0.50
1:A:462:PHE:CB	1:P:483:HIS:HE1	2.19	0.50
1:C:296:MET:SD	1:I:216:ARG:HG2	2.51	0.50
1:D:300:ILE:CG2	1:L:109:GLN:HE21	2.23	0.50
1:D:351:PHE:HB2	1:c:419:PHE:CE2	2.45	0.50
1:E:462:PHE:CB	1:M:483:HIS:CE1	2.90	0.50
1:F:247:ALA:CB	1:X:557:THR:HG23	2.39	0.50
1:G:296:MET:SD	1:X:216:ARG:HG2	2.51	0.50
1:H:402:TYR:CD2	1:H:582:PRO:HG2	2.46	0.50
1:J:464:HIS:CE1	1:J:487:LEU:HB3	2.47	0.50
1:J:483:HIS:HE1	1:7:462:PHE:N	2.07	0.50
1:K:85:VAL:O	1:K:106:THR:HA	2.10	0.50
1:L:419:PHE:CE2	1:c:351:PHE:HB2	2.45	0.50
1:M:286:HIS:NE2	1:O:248:LEU:O	2.44	0.50
1:N:486:ARG:HH21	1:r:483:HIS:CG	2.30	0.50
1:P:402:TYR:CD2	1:P:582:PRO:HG2	2.46	0.50
1:Q:247:ALA:CB	1:n:557:THR:HG23	2.39	0.50
1:Q:464:HIS:CE1	1:Q:487:LEU:HB3	2.47	0.50
1:S:296:MET:SD	1:n:216:ARG:HG2	2.51	0.50
1:S:402:TYR:CD2	1:S:582:PRO:HG2	2.46	0.50
1:S:483:HIS:CG	1:i:486:ARG:HH21	2.30	0.50
1:U:464:HIS:CE1	1:U:487:LEU:HB3	2.47	0.50
1:U:483:HIS:HE1	1:W:462:PHE:CB	2.19	0.50
1:V:552:VAL:HG11	1:V:588:VAL:HG13	1.93	0.50
1:b:483:HIS:CG	1:s:486:ARG:HH21	2.30	0.50
1:e:346:GLN:HE22	1:e:364:VAL:H	1.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:486:ARG:HH21	1:k:483:HIS:CG	2.30	0.50
1:g:248:LEU:O	1:4:286:HIS:NE2	2.44	0.50
1:i:483:HIS:CG	1:n:486:ARG:NH2	2.79	0.50
1:k:402:TYR:CD2	1:k:582:PRO:HG2	2.46	0.50
1:m:203:GLY:H	1:m:210:THR:HG21	1.76	0.50
1:m:462:PHE:N	1:p:483:HIS:HE1	2.07	0.50
1:o:203:GLY:H	1:o:210:THR:HG21	1.76	0.50
1:p:56:GLY:C	1:p:58:GLY:N	2.69	0.50
1:q:486:ARG:NH2	1:v:483:HIS:CG	2.79	0.50
1:s:464:HIS:CE1	1:s:487:LEU:HB3	2.47	0.50
1:t:483:HIS:CE1	1:8:462:PHE:CB	2.90	0.50
1:v:402:TYR:CD2	1:v:582:PRO:HG2	2.46	0.50
1:x:423:ALA:HA	1:x:424:PRO:C	2.35	0.50
1:x:464:HIS:CE1	1:x:487:LEU:HB3	2.47	0.50
1:y:402:TYR:CD2	1:y:582:PRO:HG2	2.46	0.50
1:z:402:TYR:CD2	1:z:582:PRO:HG2	2.46	0.50
1:2:402:TYR:CD2	1:2:582:PRO:HG2	2.46	0.50
1:2:423:ALA:HA	1:2:424:PRO:C	2.35	0.50
1:2:464:HIS:CE1	1:2:487:LEU:HB3	2.47	0.50
1:2:552:VAL:HG11	1:2:588:VAL:HG13	1.93	0.50
1:3:203:GLY:H	1:3:210:THR:HG21	1.76	0.50
1:5:402:TYR:CD2	1:5:582:PRO:HG2	2.46	0.50
1:A:286:HIS:NE2	1:P:248:LEU:O	2.44	0.50
1:B:464:HIS:CE1	1:B:487:LEU:HB3	2.47	0.50
1:D:402:TYR:CD2	1:D:582:PRO:HG2	2.46	0.50
1:D:483:HIS:CG	1:c:486:ARG:HH21	2.30	0.50
1:E:248:LEU:O	1:O:286:HIS:CE1	2.65	0.50
1:E:248:LEU:O	1:O:286:HIS:NE2	2.44	0.50
1:E:464:HIS:CE1	1:E:487:LEU:HB3	2.47	0.50
1:G:248:LEU:O	1:Z:286:HIS:NE2	2.44	0.50
1:G:552:VAL:HG11	1:G:588:VAL:HG13	1.93	0.50
1:H:464:HIS:CE1	1:H:487:LEU:HB3	2.47	0.50
1:J:402:TYR:CD2	1:J:582:PRO:HG2	2.46	0.50
1:J:423:ALA:HA	1:J:424:PRO:C	2.35	0.50
1:L:462:PHE:N	1:c:483:HIS:HE1	2.07	0.50
1:N:182:VAL:HG22	1:N:505:VAL:HG12	1.92	0.50
1:P:286:HIS:CE1	1:R:248:LEU:O	2.65	0.50
1:P:547:LEU:CD1	1:R:189:ILE:HG21	2.34	0.50
1:S:464:HIS:CE1	1:S:487:LEU:HB3	2.47	0.50
1:U:216:ARG:HG2	1:W:296:MET:SD	2.51	0.50
1:U:486:ARG:HH21	1:f:483:HIS:CG	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:402:TYR:CD2	1:X:582:PRO:HG2	2.46	0.50
1:d:146:LEU:HD13	1:d:537:LEU:HD13	1.94	0.50
1:d:216:ARG:HG2	1:r:296:MET:SD	2.51	0.50
1:e:248:LEU:O	1:z:286:HIS:NE2	2.44	0.50
1:e:263:LEU:HD12	1:l:152:ASN:HD21	1.71	0.50
1:e:286:HIS:NE2	1:k:248:LEU:O	2.44	0.50
1:e:419:PHE:CE2	1:k:351:PHE:HB2	2.45	0.50
1:h:56:GLY:C	1:h:58:GLY:N	2.69	0.50
1:h:286:HIS:NE2	1:l:248:LEU:O	2.44	0.50
1:i:182:VAL:HG22	1:i:505:VAL:HG12	1.92	0.50
1:j:286:HIS:CE1	1:q:248:LEU:O	2.65	0.50
1:l:286:HIS:CE1	1:w:248:LEU:O	2.65	0.50
1:m:402:TYR:CD2	1:m:582:PRO:HG2	2.46	0.50
1:n:146:LEU:HD13	1:n:537:LEU:HD13	1.94	0.50
1:o:182:VAL:HG22	1:o:505:VAL:HG12	1.92	0.50
1:o:216:ARG:HG2	1:t:296:MET:SD	2.51	0.50
1:o:351:PHE:HB2	1:t:419:PHE:CE2	2.45	0.50
1:s:216:ARG:HG2	1:6:296:MET:SD	2.51	0.50
1:v:146:LEU:HD13	1:v:537:LEU:HD13	1.94	0.50
1:w:464:HIS:CE1	1:w:487:LEU:HB3	2.47	0.50
1:x:552:VAL:HG11	1:x:588:VAL:HG13	1.93	0.50
1:y:486:ARG:HH21	1:5:483:HIS:CG	2.30	0.50
1:1:464:HIS:CE1	1:1:487:LEU:HB3	2.47	0.50
1:5:464:HIS:CE1	1:5:487:LEU:HB3	2.47	0.50
1:A:146:LEU:HD13	1:A:537:LEU:HD13	1.94	0.50
1:B:486:ARG:HH21	1:F:483:HIS:CG	2.30	0.50
1:D:248:LEU:O	1:c:286:HIS:NE2	2.44	0.50
1:D:464:HIS:CE1	1:D:487:LEU:HB3	2.47	0.50
1:E:556:THR:CG2	1:r:556:THR:CG2	2.69	0.50
1:F:486:ARG:HH21	1:H:483:HIS:CG	2.30	0.50
1:G:248:LEU:O	1:Z:286:HIS:CE1	2.65	0.50
1:K:56:GLY:C	1:K:58:GLY:N	2.69	0.50
1:L:286:HIS:NE2	1:c:248:LEU:O	2.44	0.50
1:N:346:GLN:HE22	1:N:364:VAL:H	1.59	0.50
1:N:462:PHE:N	1:r:483:HIS:HE1	2.07	0.50
1:O:152:ASN:HD21	1:c:263:LEU:HD12	1.71	0.50
1:O:464:HIS:CE1	1:O:487:LEU:HB3	2.47	0.50
1:Q:152:ASN:HD21	1:W:263:LEU:HD12	1.71	0.50
1:Q:552:VAL:HG11	1:Q:588:VAL:HG13	1.93	0.50
1:S:203:GLY:H	1:S:210:THR:HG21	1.76	0.50
1:S:483:HIS:HE1	1:i:462:PHE:N	2.07	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:402:TYR:CD2	1:T:582:PRO:HG2	2.46	0.50
1:U:191:PRO:HG3	1:W:591:MET:CE	2.09	0.50
1:U:203:GLY:H	1:U:210:THR:HG21	1.76	0.50
1:U:351:PHE:HB2	1:W:419:PHE:CE2	2.45	0.50
1:X:203:GLY:H	1:X:210:THR:HG21	1.76	0.50
1:X:286:HIS:CE1	1:Z:248:LEU:O	2.65	0.50
1:Y:146:LEU:HD13	1:Y:537:LEU:HD13	1.94	0.50
1:Z:222:PRO:HB2	1:Z:243:GLY:HA3	1.92	0.50
1:Z:464:HIS:CE1	1:Z:487:LEU:HB3	2.47	0.50
1:c:464:HIS:CE1	1:c:487:LEU:HB3	2.47	0.50
1:e:351:PHE:HB2	1:z:419:PHE:CE2	2.45	0.50
1:e:464:HIS:CE1	1:e:487:LEU:HB3	2.47	0.50
1:g:296:MET:SD	1:u:216:ARG:HG2	2.51	0.50
1:j:351:PHE:HB2	1:v:419:PHE:CE2	2.45	0.50
1:k:56:GLY:C	1:k:58:GLY:N	2.69	0.50
1:k:464:HIS:CE1	1:k:487:LEU:HB3	2.47	0.50
1:l:286:HIS:NE2	1:w:248:LEU:O	2.44	0.50
1:l:464:HIS:CE1	1:l:487:LEU:HB3	2.47	0.50
1:o:286:HIS:CE1	1:8:248:LEU:O	2.65	0.50
1:o:402:TYR:CD2	1:o:582:PRO:HG2	2.46	0.50
1:r:146:LEU:HD13	1:r:537:LEU:HD13	1.94	0.50
1:r:203:GLY:H	1:r:210:THR:HG21	1.76	0.50
1:r:464:HIS:CE1	1:r:487:LEU:HB3	2.47	0.50
1:s:203:GLY:H	1:s:210:THR:HG21	1.76	0.50
1:t:248:LEU:O	1:8:286:HIS:CE1	2.65	0.50
1:t:248:LEU:O	1:8:286:HIS:NE2	2.44	0.50
1:t:552:VAL:HG11	1:t:588:VAL:HG13	1.93	0.50
1:3:56:GLY:C	1:3:58:GLY:N	2.69	0.50
1:4:56:GLY:C	1:4:58:GLY:N	2.69	0.50
1:4:85:VAL:O	1:4:106:THR:HA	2.10	0.50
1:7:146:LEU:HD13	1:7:537:LEU:HD13	1.94	0.50
1:8:464:HIS:CE1	1:8:487:LEU:HB3	2.47	0.50
1:A:462:PHE:N	1:P:483:HIS:HE1	2.06	0.50
1:C:216:ARG:HG2	1:K:296:MET:SD	2.51	0.50
1:L:286:HIS:CE1	1:c:248:LEU:O	2.65	0.50
1:L:346:GLN:HE22	1:L:364:VAL:H	1.59	0.50
1:M:56:GLY:C	1:M:58:GLY:N	2.69	0.50
1:O:56:GLY:C	1:O:58:GLY:N	2.69	0.50
1:P:296:MET:SD	1:R:216:ARG:HG2	2.51	0.50
1:P:591:MET:CE	1:R:191:PRO:HG3	2.09	0.50
1:Q:105:ASP:CG	1:V:319:ARG:HH22	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:146:LEU:HD13	1:S:537:LEU:HD13	1.94	0.50
1:X:486:ARG:HH21	1:Z:483:HIS:CG	2.30	0.50
1:Y:109:GLN:HE21	1:a:300:ILE:CG2	2.22	0.50
1:Y:402:TYR:CD2	1:Y:582:PRO:HG2	2.46	0.50
1:a:56:GLY:C	1:a:58:GLY:N	2.69	0.50
1:b:419:PHE:CE2	1:6:351:PHE:HB2	2.45	0.50
1:e:248:LEU:O	1:z:286:HIS:CE1	2.65	0.50
1:g:216:ARG:HG2	1:4:296:MET:SD	2.51	0.50
1:i:483:HIS:HE1	1:n:462:PHE:CB	2.19	0.50
1:j:296:MET:SD	1:q:216:ARG:HG2	2.51	0.50
1:j:483:HIS:CG	1:v:486:ARG:HH21	2.30	0.50
1:p:319:ARG:HH22	1:x:105:ASP:CG	2.20	0.50
1:q:486:ARG:HH21	1:v:483:HIS:CG	2.30	0.50
1:s:351:PHE:HB2	1:6:419:PHE:CE2	2.45	0.50
1:u:296:MET:HB2	1:4:193:THR:HB	1.94	0.50
1:y:483:HIS:CG	1:1:486:ARG:HH21	2.30	0.50
1:z:346:GLN:HE22	1:z:364:VAL:H	1.59	0.50
1:3:286:HIS:NE2	1:7:248:LEU:O	2.44	0.50
1:6:464:HIS:CE1	1:6:487:LEU:HB3	2.47	0.50
1:7:402:TYR:CD2	1:7:582:PRO:HG2	2.46	0.50
1:8:222:PRO:HB2	1:8:243:GLY:HA3	1.92	0.50
1:D:56:GLY:C	1:D:58:GLY:N	2.69	0.49
1:D:462:PHE:N	1:L:483:HIS:HE1	2.07	0.49
1:E:56:GLY:C	1:E:58:GLY:N	2.69	0.49
1:G:419:PHE:CE2	1:X:351:PHE:HB2	2.45	0.49
1:G:464:HIS:CE1	1:G:487:LEU:HB3	2.47	0.49
1:I:296:MET:HB2	1:K:193:THR:HB	1.94	0.49
1:K:146:LEU:HD13	1:K:537:LEU:HD13	1.94	0.49
1:N:483:HIS:HE1	1:d:462:PHE:CB	2.19	0.49
1:P:346:GLN:HE22	1:P:364:VAL:H	1.59	0.49
1:R:56:GLY:C	1:R:58:GLY:N	2.69	0.49
1:S:193:THR:HB	1:i:296:MET:HB2	1.95	0.49
1:U:286:HIS:CE1	1:f:248:LEU:O	2.65	0.49
1:U:402:TYR:CD2	1:U:582:PRO:HG2	2.46	0.49
1:W:351:PHE:HB2	1:f:419:PHE:CE2	2.45	0.49
1:W:402:TYR:CD2	1:W:582:PRO:HG2	2.46	0.49
1:W:464:HIS:CE1	1:W:487:LEU:HB3	2.47	0.49
1:Y:248:LEU:O	1:a:286:HIS:NE2	2.44	0.49
1:b:248:LEU:O	1:s:286:HIS:CE1	2.65	0.49
1:b:464:HIS:CE1	1:b:487:LEU:HB3	2.47	0.49
1:b:486:ARG:HH21	1:6:483:HIS:CG	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:464:HIS:CE1	1:d:487:LEU:HB3	2.47	0.49
1:f:464:HIS:CE1	1:f:487:LEU:HB3	2.47	0.49
1:h:483:HIS:HE1	1:w:462:PHE:CB	2.19	0.49
1:i:346:GLN:HE22	1:i:364:VAL:H	1.59	0.49
1:j:56:GLY:C	1:j:58:GLY:N	2.69	0.49
1:j:547:LEU:CD1	1:q:189:ILE:HG21	2.34	0.49
1:j:591:MET:CE	1:q:191:PRO:HG3	2.09	0.49
1:l:56:GLY:C	1:l:58:GLY:N	2.69	0.49
1:m:248:LEU:O	1:x:286:HIS:CE1	2.65	0.49
1:m:486:ARG:NH2	1:p:483:HIS:CB	2.71	0.49
1:n:464:HIS:CE1	1:n:487:LEU:HB3	2.47	0.49
1:o:483:HIS:CG	1:t:486:ARG:HH21	2.30	0.49
1:o:486:ARG:HH21	1:8:483:HIS:CG	2.30	0.49
1:q:56:GLY:C	1:q:58:GLY:N	2.69	0.49
1:s:402:TYR:CD2	1:s:582:PRO:HG2	2.46	0.49
1:t:464:HIS:CE1	1:t:487:LEU:HB3	2.47	0.49
1:w:56:GLY:C	1:w:58:GLY:N	2.69	0.49
1:1:483:HIS:CE1	1:5:462:PHE:CB	2.90	0.49
1:3:486:ARG:HH21	1:7:483:HIS:CG	2.30	0.49
1:4:146:LEU:HD13	1:4:537:LEU:HD13	1.94	0.49
1:B:483:HIS:CE1	1:H:462:PHE:CB	2.90	0.49
1:C:193:THR:HB	1:K:296:MET:HB2	1.94	0.49
1:E:286:HIS:CE1	1:M:248:LEU:O	2.65	0.49
1:E:486:ARG:HH21	1:M:483:HIS:CG	2.30	0.49
1:E:552:VAL:HG11	1:E:588:VAL:HG13	1.93	0.49
1:F:552:VAL:HG11	1:F:588:VAL:HG13	1.93	0.49
1:G:146:LEU:HD13	1:G:537:LEU:HD13	1.94	0.49
1:G:402:TYR:CD2	1:G:582:PRO:HG2	2.46	0.49
1:G:486:ARG:HH21	1:X:483:HIS:CG	2.30	0.49
1:I:420:VAL:HA	1:K:349:ASP:O	2.13	0.49
1:L:296:MET:HB2	1:c:193:THR:HB	1.94	0.49
1:N:296:MET:HB2	1:r:193:THR:HB	1.95	0.49
1:P:486:ARG:HH21	1:R:483:HIS:CG	2.30	0.49
1:Q:286:HIS:CE1	1:T:248:LEU:O	2.65	0.49
1:R:146:LEU:HD13	1:R:537:LEU:HD13	1.94	0.49
1:S:486:ARG:HH21	1:n:483:HIS:CG	2.30	0.49
1:T:420:VAL:HA	1:V:349:ASP:O	2.13	0.49
1:V:402:TYR:CD2	1:V:582:PRO:HG2	2.46	0.49
1:W:483:HIS:CG	1:f:486:ARG:HH21	2.30	0.49
1:Y:483:HIS:CG	1:a:486:ARG:HH21	2.30	0.49
1:a:464:HIS:CE1	1:a:487:LEU:HB3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:346:GLN:HE22	1:b:364:VAL:H	1.59	0.49
1:g:193:THR:HB	1:4:296:MET:HB2	1.94	0.49
1:h:248:LEU:O	1:w:286:HIS:CE1	2.65	0.49
1:j:146:LEU:HD13	1:j:537:LEU:HD13	1.94	0.49
1:j:346:GLN:HE22	1:j:364:VAL:H	1.59	0.49
1:j:486:ARG:HH21	1:q:483:HIS:CG	2.30	0.49
1:m:420:VAL:HA	1:p:349:ASP:O	2.13	0.49
1:p:402:TYR:CD2	1:p:582:PRO:HG2	2.46	0.49
1:q:346:GLN:HE22	1:q:364:VAL:H	1.59	0.49
1:t:146:LEU:HD13	1:t:537:LEU:HD13	1.94	0.49
1:t:402:TYR:CD2	1:t:582:PRO:HG2	2.46	0.49
1:u:420:VAL:HA	1:4:349:ASP:O	2.13	0.49
1:w:552:VAL:HG11	1:w:588:VAL:HG13	1.93	0.49
1:y:464:HIS:CE1	1:y:487:LEU:HB3	2.47	0.49
1:3:464:HIS:CE1	1:3:487:LEU:HB3	2.47	0.49
1:A:420:VAL:HA	1:P:349:ASP:O	2.13	0.49
1:A:483:HIS:CG	1:R:486:ARG:NH2	2.79	0.49
1:A:486:ARG:HH21	1:P:483:HIS:CG	2.30	0.49
1:B:152:ASN:HD21	1:Z:263:LEU:HD12	1.71	0.49
1:B:420:VAL:HA	1:F:349:ASP:O	2.13	0.49
1:C:146:LEU:HD13	1:C:537:LEU:HD13	1.94	0.49
1:C:349:ASP:O	1:K:420:VAL:HA	2.13	0.49
1:D:286:HIS:CE1	1:L:248:LEU:O	2.65	0.49
1:E:420:VAL:HA	1:M:349:ASP:O	2.13	0.49
1:E:483:HIS:CG	1:O:486:ARG:HH21	2.30	0.49
1:F:203:GLY:H	1:F:210:THR:HG21	1.76	0.49
1:F:464:HIS:CE1	1:F:487:LEU:HB3	2.47	0.49
1:G:286:HIS:NE2	1:X:248:LEU:O	2.44	0.49
1:N:193:THR:HB	1:d:296:MET:HB2	1.94	0.49
1:O:552:VAL:HG11	1:O:588:VAL:HG13	1.93	0.49
1:P:146:LEU:HD13	1:P:537:LEU:HD13	1.94	0.49
1:P:296:MET:HB2	1:R:193:THR:HB	1.95	0.49
1:Q:557:THR:HG23	1:W:247:ALA:CB	2.39	0.49
1:R:346:GLN:HE22	1:R:364:VAL:H	1.59	0.49
1:R:464:HIS:CE1	1:R:487:LEU:HB3	2.47	0.49
1:T:346:GLN:HE22	1:T:364:VAL:H	1.59	0.49
1:U:296:MET:HB2	1:f:193:THR:HB	1.94	0.49
1:U:552:VAL:HG11	1:U:588:VAL:HG13	1.93	0.49
1:V:464:HIS:CE1	1:V:487:LEU:HB3	2.47	0.49
1:W:105:ASP:CG	1:f:319:ARG:HH22	2.20	0.49
1:X:146:LEU:HD13	1:X:537:LEU:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:296:MET:HB2	1:Z:193:THR:HB	1.94	0.49
1:Y:349:ASP:O	1:a:420:VAL:HA	2.13	0.49
1:b:193:THR:HB	1:s:296:MET:HB2	1.94	0.49
1:b:319:ARG:HH22	1:6:105:ASP:CG	2.20	0.49
1:e:193:THR:HB	1:z:296:MET:HB2	1.94	0.49
1:f:346:GLN:HE22	1:f:364:VAL:H	1.59	0.49
1:g:146:LEU:HD13	1:g:537:LEU:HD13	1.94	0.49
1:g:349:ASP:O	1:4:420:VAL:HA	2.13	0.49
1:g:552:VAL:HG11	1:g:588:VAL:HG13	1.93	0.49
1:h:349:ASP:O	1:w:420:VAL:HA	2.13	0.49
1:h:483:HIS:CG	1:w:486:ARG:HH21	2.30	0.49
1:j:248:LEU:O	1:v:286:HIS:CE1	2.65	0.49
1:j:349:ASP:O	1:v:420:VAL:HA	2.13	0.49
1:k:552:VAL:HG11	1:k:588:VAL:HG13	1.93	0.49
1:l:486:ARG:HH21	1:w:483:HIS:CG	2.30	0.49
1:l:552:VAL:HG11	1:l:588:VAL:HG13	1.93	0.49
1:m:483:HIS:CG	1:x:486:ARG:HH21	2.30	0.49
1:o:152:ASN:HD21	1:y:263:LEU:HD12	1.71	0.49
1:o:248:LEU:O	1:t:286:HIS:NE2	2.44	0.49
1:o:296:MET:HB2	1:8:193:THR:HB	1.94	0.49
1:o:464:HIS:CE1	1:o:487:LEU:HB3	2.47	0.49
1:p:286:HIS:CE1	1:x:248:LEU:O	2.65	0.49
1:p:296:MET:HB2	1:x:193:THR:HB	1.94	0.49
1:q:146:LEU:HD13	1:q:537:LEU:HD13	1.94	0.49
1:s:552:VAL:HG11	1:s:588:VAL:HG13	1.93	0.49
1:u:286:HIS:CE1	1:4:248:LEU:O	2.65	0.49
1:w:402:TYR:CD2	1:w:582:PRO:HG2	2.46	0.49
1:x:152:ASN:HD21	1:6:263:LEU:HD12	1.71	0.49
1:y:349:ASP:O	1:1:420:VAL:HA	2.13	0.49
1:y:552:VAL:HG11	1:y:588:VAL:HG13	1.93	0.49
1:6:402:TYR:CD2	1:6:582:PRO:HG2	2.46	0.49
1:C:248:LEU:O	1:K:286:HIS:CE1	2.65	0.49
1:D:552:VAL:HG11	1:D:588:VAL:HG13	1.93	0.49
1:E:402:TYR:CD2	1:E:582:PRO:HG2	2.46	0.49
1:E:486:ARG:NH2	1:M:483:HIS:CB	2.71	0.49
1:F:286:HIS:CE1	1:H:248:LEU:O	2.65	0.49
1:I:286:HIS:CE1	1:K:248:LEU:O	2.65	0.49
1:I:464:HIS:CE1	1:I:487:LEU:HB3	2.47	0.49
1:J:56:GLY:C	1:J:58:GLY:N	2.69	0.49
1:J:349:ASP:O	1:7:420:VAL:HA	2.13	0.49
1:J:420:VAL:HA	1:3:349:ASP:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:483:HIS:CG	1:7:486:ARG:HH21	2.30	0.49
1:J:486:ARG:HH21	1:3:483:HIS:CG	2.30	0.49
1:K:464:HIS:CE1	1:K:487:LEU:HB3	2.47	0.49
1:M:464:HIS:CE1	1:M:487:LEU:HB3	2.47	0.49
1:Q:193:THR:HB	1:V:296:MET:HB2	1.94	0.49
1:Q:248:LEU:O	1:V:286:HIS:CE1	2.65	0.49
1:Q:486:ARG:HH21	1:T:483:HIS:CG	2.30	0.49
1:R:402:TYR:CD2	1:R:582:PRO:HG2	2.46	0.49
1:T:486:ARG:NH2	1:V:483:HIS:CB	2.71	0.49
1:U:160:GLU:O	1:k:169:ILE:HD13	2.12	0.49
1:U:346:GLN:HE22	1:U:364:VAL:H	1.59	0.49
1:X:464:HIS:CE1	1:X:487:LEU:HB3	2.47	0.49
1:Z:56:GLY:C	1:Z:58:GLY:N	2.69	0.49
1:a:349:ASP:O	1:2:420:VAL:HA	2.13	0.49
1:a:483:HIS:CG	1:2:486:ARG:HH21	2.30	0.49
1:d:483:HIS:CG	1:r:486:ARG:HH21	2.30	0.49
1:e:420:VAL:HA	1:k:349:ASP:O	2.13	0.49
1:f:56:GLY:C	1:f:58:GLY:N	2.69	0.49
1:i:146:LEU:HD13	1:i:537:LEU:HD13	1.94	0.49
1:i:193:THR:HB	1:n:296:MET:HB2	1.94	0.49
1:j:296:MET:HB2	1:q:193:THR:HB	1.95	0.49
1:j:483:HIS:HE1	1:v:462:PHE:N	2.07	0.49
1:k:286:HIS:CE1	1:z:248:LEU:O	2.65	0.49
1:k:462:PHE:N	1:z:483:HIS:HE1	2.07	0.49
1:k:486:ARG:HH21	1:z:483:HIS:CG	2.30	0.49
1:l:160:GLU:O	1:q:169:ILE:HD13	2.12	0.49
1:m:286:HIS:CE1	1:p:248:LEU:O	2.65	0.49
1:m:464:HIS:CE1	1:m:487:LEU:HB3	2.47	0.49
1:o:146:LEU:HD13	1:o:537:LEU:HD13	1.94	0.49
1:p:464:HIS:CE1	1:p:487:LEU:HB3	2.47	0.49
1:q:464:HIS:CE1	1:q:487:LEU:HB3	2.47	0.49
1:s:483:HIS:CG	1:6:486:ARG:HH21	2.30	0.49
1:t:203:GLY:H	1:t:210:THR:HG21	1.76	0.49
1:t:349:ASP:O	1:8:420:VAL:HA	2.13	0.49
1:v:464:HIS:CE1	1:v:487:LEU:HB3	2.47	0.49
1:y:203:GLY:H	1:y:210:THR:HG21	1.76	0.49
1:y:286:HIS:CE1	1:5:248:LEU:O	2.65	0.49
1:1:152:ASN:HD21	1:8:263:LEU:HD12	1.71	0.49
1:2:56:GLY:C	1:2:58:GLY:N	2.69	0.49
1:3:420:VAL:HA	1:7:349:ASP:O	2.13	0.49
1:7:346:GLN:HE22	1:7:364:VAL:H	1.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:ILE:HG21	1:R:547:LEU:CD1	2.34	0.49
1:A:464:HIS:CE1	1:A:487:LEU:HB3	2.47	0.49
1:A:483:HIS:CG	1:R:486:ARG:HH21	2.30	0.49
1:B:146:LEU:HD13	1:B:537:LEU:HD13	1.94	0.49
1:C:552:VAL:HG11	1:C:588:VAL:HG13	1.93	0.49
1:D:349:ASP:O	1:c:420:VAL:HA	2.13	0.49
1:D:486:ARG:HH21	1:L:483:HIS:CG	2.30	0.49
1:E:462:PHE:CB	1:M:483:HIS:HE1	2.19	0.49
1:G:349:ASP:O	1:Z:420:VAL:HA	2.13	0.49
1:J:486:ARG:NH2	1:3:483:HIS:CB	2.71	0.49
1:L:56:GLY:C	1:L:58:GLY:N	2.69	0.49
1:L:300:ILE:CG2	1:c:109:GLN:HE21	2.23	0.49
1:M:420:VAL:HA	1:O:349:ASP:O	2.13	0.49
1:N:146:LEU:HD13	1:N:537:LEU:HD13	1.94	0.49
1:P:420:VAL:HA	1:R:349:ASP:O	2.13	0.49
1:S:105:ASP:CG	1:i:319:ARG:HH22	2.20	0.49
1:T:286:HIS:CE1	1:V:248:LEU:O	2.65	0.49
1:U:483:HIS:CG	1:W:486:ARG:HH21	2.30	0.49
1:W:248:LEU:O	1:f:286:HIS:CE1	2.65	0.49
1:Y:420:VAL:HA	1:2:349:ASP:O	2.13	0.49
1:d:248:LEU:O	1:r:286:HIS:CE1	2.65	0.49
1:e:56:GLY:C	1:e:58:GLY:N	2.69	0.49
1:g:248:LEU:O	1:4:286:HIS:CE1	2.65	0.49
1:l:300:ILE:CG2	1:w:109:GLN:HE21	2.23	0.49
1:l:402:TYR:CD2	1:l:582:PRO:HG2	2.46	0.49
1:m:346:GLN:HE22	1:m:364:VAL:H	1.59	0.49
1:q:402:TYR:CD2	1:q:582:PRO:HG2	2.46	0.49
1:s:346:GLN:HE22	1:s:364:VAL:H	1.59	0.49
1:t:483:HIS:HE1	1:8:462:PHE:N	2.07	0.49
1:u:464:HIS:CE1	1:u:487:LEU:HB3	2.47	0.49
1:x:146:LEU:HD13	1:x:537:LEU:HD13	1.94	0.49
1:x:557:THR:HG23	1:6:247:ALA:CB	2.39	0.49
1:y:146:LEU:HD13	1:y:537:LEU:HD13	1.94	0.49
1:1:146:LEU:HD13	1:1:537:LEU:HD13	1.94	0.49
1:3:300:ILE:CG2	1:7:109:GLN:HE21	2.22	0.49
1:4:464:HIS:CE1	1:4:487:LEU:HB3	2.47	0.49
1:8:56:GLY:C	1:8:58:GLY:N	2.69	0.49
1:A:296:MET:HB2	1:P:193:THR:HB	1.94	0.49
1:B:56:GLY:C	1:B:58:GLY:N	2.69	0.49
1:C:203:GLY:H	1:C:210:THR:HG21	1.76	0.49
1:C:486:ARG:HH21	1:I:483:HIS:CG	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:169:ILE:HD13	1:s:160:GLU:O	2.12	0.49
1:F:146:LEU:HD13	1:F:537:LEU:HD13	1.94	0.49
1:F:296:MET:HB2	1:H:193:THR:HB	1.94	0.49
1:G:203:GLY:H	1:G:210:THR:HG21	1.76	0.49
1:G:286:HIS:CE1	1:X:248:LEU:O	2.65	0.49
1:I:56:GLY:C	1:I:58:GLY:N	2.69	0.49
1:M:286:HIS:CE1	1:O:248:LEU:O	2.65	0.49
1:M:319:ARG:HH22	1:O:105:ASP:CG	2.20	0.49
1:M:462:PHE:CB	1:O:483:HIS:HE1	2.19	0.49
1:N:248:LEU:O	1:d:286:HIS:CE1	2.65	0.49
1:N:319:ARG:HH22	1:r:105:ASP:CG	2.20	0.49
1:O:160:GLU:O	1:R:169:ILE:HD13	2.12	0.49
1:O:402:TYR:CD2	1:O:582:PRO:HG2	2.46	0.49
1:Q:146:LEU:HD13	1:Q:537:LEU:HD13	1.94	0.49
1:S:286:HIS:CE1	1:n:248:LEU:O	2.65	0.49
1:T:464:HIS:CE1	1:T:487:LEU:HB3	2.47	0.49
1:T:486:ARG:HH21	1:V:483:HIS:CG	2.30	0.49
1:T:552:VAL:HG11	1:T:588:VAL:HG13	1.93	0.49
1:U:349:ASP:O	1:W:420:VAL:HA	2.13	0.49
1:U:483:HIS:CB	1:W:486:ARG:NH2	2.71	0.49
1:V:271:THR:HG22	1:V:273:GLY:H	1.78	0.49
1:W:56:GLY:C	1:W:58:GLY:N	2.69	0.49
1:Y:193:THR:HB	1:a:296:MET:HB2	1.94	0.49
1:Y:346:GLN:HE22	1:Y:364:VAL:H	1.59	0.49
1:Y:486:ARG:HH21	1:2:483:HIS:CG	2.30	0.49
1:b:56:GLY:C	1:b:58:GLY:N	2.69	0.49
1:b:146:LEU:HD13	1:b:537:LEU:HD13	1.94	0.49
1:b:286:HIS:CE1	1:6:248:LEU:O	2.65	0.49
1:c:56:GLY:C	1:c:58:GLY:N	2.69	0.49
1:g:203:GLY:H	1:g:210:THR:HG21	1.76	0.49
1:g:464:HIS:CE1	1:g:487:LEU:HB3	2.47	0.49
1:g:486:ARG:HH21	1:u:483:HIS:CG	2.30	0.49
1:h:420:VAL:HA	1:l:349:ASP:O	2.13	0.49
1:h:464:HIS:CE1	1:h:487:LEU:HB3	2.47	0.49
1:h:483:HIS:CB	1:w:486:ARG:NH2	2.71	0.49
1:h:486:ARG:HH21	1:l:483:HIS:CG	2.30	0.49
1:j:420:VAL:HA	1:q:349:ASP:O	2.13	0.49
1:l:146:LEU:HD13	1:l:537:LEU:HD13	1.94	0.49
1:p:271:THR:HG22	1:p:273:GLY:H	1.78	0.49
1:q:296:MET:HB2	1:v:193:THR:HB	1.94	0.49
1:s:349:ASP:O	1:6:420:VAL:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:56:GLY:C	1:u:58:GLY:N	2.69	0.49
1:z:56:GLY:C	1:z:58:GLY:N	2.69	0.49
1:3:286:HIS:CE1	1:7:248:LEU:O	2.65	0.49
1:A:193:THR:HB	1:R:296:MET:HB2	1.95	0.49
1:B:105:ASP:CG	1:H:319:ARG:HH22	2.20	0.49
1:B:300:ILE:CG2	1:F:109:GLN:HE21	2.23	0.49
1:C:464:HIS:CE1	1:C:487:LEU:HB3	2.47	0.49
1:D:248:LEU:O	1:c:286:HIS:CE1	2.65	0.49
1:E:109:GLN:HE21	1:O:300:ILE:CG2	2.23	0.49
1:F:263:LEU:HD12	1:X:152:ASN:HD21	1.71	0.49
1:G:160:GLU:O	1:U:169:ILE:HD13	2.12	0.49
1:G:483:HIS:HE1	1:Z:462:PHE:N	2.07	0.49
1:M:486:ARG:HH21	1:O:483:HIS:CG	2.30	0.49
1:N:464:HIS:CE1	1:N:487:LEU:HB3	2.47	0.49
1:O:146:LEU:HD13	1:O:537:LEU:HD13	1.94	0.49
1:S:462:PHE:N	1:n:483:HIS:HE1	2.07	0.49
1:U:248:LEU:O	1:W:286:HIS:CE1	2.65	0.49
1:U:420:VAL:HA	1:f:349:ASP:O	2.13	0.49
1:Y:248:LEU:O	1:a:286:HIS:CE1	2.65	0.49
1:Y:464:HIS:CE1	1:Y:487:LEU:HB3	2.47	0.49
1:Z:169:ILE:HD13	1:f:160:GLU:O	2.12	0.49
1:a:346:GLN:HE22	1:a:364:VAL:H	1.59	0.49
1:b:349:ASP:O	1:s:420:VAL:HA	2.13	0.49
1:d:552:VAL:HG11	1:d:588:VAL:HG13	1.93	0.49
1:e:286:HIS:CE1	1:k:248:LEU:O	2.65	0.49
1:g:286:HIS:CE1	1:u:248:LEU:O	2.65	0.49
1:h:286:HIS:CE1	1:l:248:LEU:O	2.65	0.49
1:i:248:LEU:O	1:n:286:HIS:CE1	2.65	0.49
1:i:552:VAL:HG11	1:i:588:VAL:HG13	1.93	0.49
1:j:203:GLY:H	1:j:210:THR:HG21	1.76	0.49
1:j:464:HIS:CE1	1:j:487:LEU:HB3	2.47	0.49
1:o:248:LEU:O	1:t:286:HIS:CE1	2.65	0.49
1:o:462:PHE:N	1:8:483:HIS:HE1	2.07	0.49
1:q:271:THR:HG22	1:q:273:GLY:H	1.78	0.49
1:s:248:LEU:O	1:6:286:HIS:CE1	2.65	0.49
1:s:397:ALA:O	1:s:398:ALA:C	2.56	0.49
1:y:109:GLN:HE21	1:1:300:ILE:CG2	2.23	0.49
1:y:296:MET:HB2	1:5:193:THR:HB	1.94	0.49
1:y:420:VAL:HA	1:5:349:ASP:O	2.13	0.49
1:1:56:GLY:C	1:1:58:GLY:N	2.69	0.49
1:1:248:LEU:O	1:5:286:HIS:NE2	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:483:HIS:CG	1:5:486:ARG:HH21	2.30	0.49
1:3:146:LEU:HD13	1:3:537:LEU:HD13	1.94	0.49
1:3:296:MET:HB2	1:7:193:THR:HB	1.94	0.49
1:3:346:GLN:HE22	1:3:364:VAL:H	1.59	0.49
1:3:402:TYR:CD2	1:3:582:PRO:HG2	2.46	0.49
1:B:248:LEU:O	1:H:286:HIS:NE2	2.44	0.49
1:B:483:HIS:CG	1:H:486:ARG:HH21	2.30	0.49
1:E:349:ASP:O	1:O:420:VAL:HA	2.13	0.49
1:F:420:VAL:HA	1:H:349:ASP:O	2.13	0.49
1:G:193:THR:HB	1:Z:296:MET:HB2	1.94	0.49
1:G:483:HIS:CG	1:Z:486:ARG:HH21	2.30	0.49
1:I:486:ARG:HH21	1:K:483:HIS:CG	2.30	0.49
1:J:271:THR:HG22	1:J:273:GLY:H	1.78	0.49
1:N:105:ASP:CG	1:d:319:ARG:HH22	2.20	0.49
1:N:169:ILE:HD13	1:S:160:GLU:O	2.12	0.49
1:P:464:HIS:CE1	1:P:487:LEU:HB3	2.47	0.49
1:R:271:THR:HG22	1:R:273:GLY:H	1.78	0.49
1:T:146:LEU:HD13	1:T:537:LEU:HD13	1.94	0.49
1:U:193:THR:HB	1:W:296:MET:HB2	1.95	0.49
1:U:397:ALA:O	1:U:398:ALA:C	2.56	0.49
1:W:146:LEU:HD13	1:W:537:LEU:HD13	1.94	0.49
1:W:349:ASP:O	1:f:420:VAL:HA	2.13	0.49
1:X:56:GLY:C	1:X:58:GLY:N	2.69	0.49
1:X:462:PHE:N	1:Z:483:HIS:HE1	2.07	0.49
1:a:146:LEU:HD13	1:a:537:LEU:HD13	1.94	0.49
1:a:397:ALA:O	1:a:398:ALA:C	2.56	0.49
1:a:483:HIS:CB	1:2:486:ARG:NH2	2.71	0.49
1:b:160:GLU:O	1:8:169:ILE:HD13	2.12	0.49
1:b:462:PHE:N	1:6:483:HIS:HE1	2.07	0.49
1:f:146:LEU:HD13	1:f:537:LEU:HD13	1.94	0.49
1:i:464:HIS:CE1	1:i:487:LEU:HB3	2.47	0.49
1:m:146:LEU:HD13	1:m:537:LEU:HD13	1.94	0.49
1:m:486:ARG:HH21	1:p:483:HIS:CG	2.30	0.49
1:m:552:VAL:HG11	1:m:588:VAL:HG13	1.93	0.49
1:n:552:VAL:HG11	1:n:588:VAL:HG13	1.93	0.49
1:p:462:PHE:CB	1:x:483:HIS:HE1	2.19	0.49
1:q:547:LEU:CD1	1:v:189:ILE:HG21	2.34	0.49
1:s:169:ILE:HD13	1:t:160:GLU:O	2.12	0.49
1:t:193:THR:HB	1:8:296:MET:HB2	1.94	0.49
1:t:483:HIS:CG	1:8:486:ARG:HH21	2.30	0.49
1:u:486:ARG:HH21	1:4:483:HIS:CG	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:105:ASP:CG	1:5:319:ARG:HH22	2.20	0.49
1:2:271:THR:HG22	1:2:273:GLY:H	1.78	0.49
1:7:464:HIS:CE1	1:7:487:LEU:HB3	2.47	0.49
1:A:286:HIS:CE1	1:P:248:LEU:O	2.66	0.49
1:A:349:ASP:O	1:R:420:VAL:HA	2.13	0.49
1:B:248:LEU:O	1:H:286:HIS:CE1	2.65	0.49
1:C:286:HIS:CE1	1:I:248:LEU:O	2.65	0.49
1:D:160:GLU:O	1:I:169:ILE:HD13	2.12	0.49
1:D:296:MET:HB2	1:L:193:THR:HB	1.95	0.49
1:G:169:ILE:HD13	1:a:160:GLU:O	2.12	0.49
1:H:146:LEU:HD13	1:H:537:LEU:HD13	1.94	0.49
1:H:160:GLU:O	1:K:169:ILE:HD13	2.12	0.49
1:N:552:VAL:HG11	1:N:588:VAL:HG13	1.93	0.49
1:P:203:GLY:H	1:P:210:THR:HG21	1.76	0.49
1:P:271:THR:HG22	1:P:273:GLY:H	1.78	0.49
1:Q:271:THR:HG22	1:Q:273:GLY:H	1.78	0.49
1:T:296:MET:HB2	1:V:193:THR:HB	1.94	0.49
1:X:397:ALA:O	1:X:398:ALA:C	2.56	0.49
1:X:420:VAL:HA	1:Z:349:ASP:O	2.13	0.49
1:X:552:VAL:HG11	1:X:588:VAL:HG13	1.93	0.49
1:Y:397:ALA:O	1:Y:398:ALA:C	2.56	0.49
1:a:248:LEU:O	1:2:286:HIS:CE1	2.65	0.49
1:a:402:TYR:CD2	1:a:582:PRO:HG2	2.46	0.49
1:b:300:ILE:CG2	1:6:109:GLN:HE21	2.22	0.49
1:b:420:VAL:HA	1:6:349:ASP:O	2.13	0.49
1:b:483:HIS:CB	1:s:486:ARG:NH2	2.71	0.49
1:d:483:HIS:HE1	1:r:462:PHE:N	2.07	0.49
1:i:169:ILE:HD13	1:r:160:GLU:O	2.12	0.49
1:j:193:THR:HB	1:v:296:MET:HB2	1.94	0.49
1:j:271:THR:HG22	1:j:273:GLY:H	1.78	0.49
1:k:160:GLU:O	1:u:169:ILE:HD13	2.12	0.49
1:l:420:VAL:HA	1:w:349:ASP:O	2.13	0.49
1:m:109:GLN:HE21	1:x:300:ILE:CG2	2.22	0.49
1:m:296:MET:HB2	1:p:193:THR:HB	1.94	0.49
1:o:397:ALA:O	1:o:398:ALA:C	2.56	0.49
1:o:420:VAL:HA	1:8:349:ASP:O	2.13	0.49
1:o:552:VAL:HG11	1:o:588:VAL:HG13	1.93	0.49
1:p:146:LEU:HD13	1:p:537:LEU:HD13	1.94	0.49
1:s:193:THR:HB	1:6:296:MET:HB2	1.95	0.49
1:s:483:HIS:CB	1:6:486:ARG:NH2	2.71	0.49
1:u:271:THR:HG22	1:u:273:GLY:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:271:THR:HG22	1:x:273:GLY:H	1.78	0.49
1:1:248:LEU:O	1:5:286:HIS:CE1	2.65	0.49
1:3:397:ALA:O	1:3:398:ALA:C	2.56	0.49
1:4:169:ILE:HD13	1:5:160:GLU:O	2.12	0.49
1:6:146:LEU:HD13	1:6:537:LEU:HD13	1.94	0.49
1:7:56:GLY:C	1:7:58:GLY:N	2.69	0.49
1:A:56:GLY:C	1:A:58:GLY:N	2.69	0.49
1:F:397:ALA:O	1:F:398:ALA:C	2.56	0.49
1:G:296:MET:HB2	1:X:193:THR:HB	1.94	0.49
1:I:271:THR:HG22	1:I:273:GLY:H	1.78	0.49
1:J:286:HIS:CE1	1:3:248:LEU:O	2.65	0.49
1:M:296:MET:HB2	1:O:193:THR:HB	1.94	0.49
1:N:286:HIS:CE1	1:r:248:LEU:O	2.65	0.49
1:Q:169:ILE:HD13	1:W:160:GLU:O	2.12	0.49
1:Q:300:ILE:CG2	1:T:109:GLN:HE21	2.22	0.49
1:Q:397:ALA:O	1:Q:398:ALA:C	2.56	0.49
1:S:319:ARG:HH22	1:n:105:ASP:CG	2.20	0.49
1:U:486:ARG:NH2	1:f:483:HIS:CB	2.71	0.49
1:V:146:LEU:HD13	1:V:537:LEU:HD13	1.94	0.49
1:W:193:THR:HB	1:f:296:MET:HB2	1.94	0.49
1:X:271:THR:HG22	1:X:273:GLY:H	1.78	0.49
1:a:169:ILE:HD13	1:u:160:GLU:O	2.12	0.49
1:d:349:ASP:O	1:r:420:VAL:HA	2.13	0.49
1:h:462:PHE:CB	1:l:483:HIS:HE1	2.19	0.49
1:i:105:ASP:CG	1:n:319:ARG:HH22	2.20	0.49
1:k:296:MET:HB2	1:z:193:THR:HB	1.95	0.49
1:o:56:GLY:C	1:o:58:GLY:N	2.69	0.49
1:o:193:THR:HB	1:t:296:MET:HB2	1.94	0.49
1:p:420:VAL:HA	1:x:349:ASP:O	2.13	0.49
1:p:486:ARG:HH21	1:x:483:HIS:CG	2.30	0.49
1:q:420:VAL:HA	1:v:349:ASP:O	2.13	0.49
1:t:169:ILE:HD13	1:3:160:GLU:O	2.12	0.49
1:v:56:GLY:C	1:v:58:GLY:N	2.69	0.49
1:x:56:GLY:C	1:x:58:GLY:N	2.69	0.49
1:x:169:ILE:HD13	1:6:160:GLU:O	2.12	0.49
1:y:397:ALA:O	1:y:398:ALA:C	2.56	0.49
1:1:483:HIS:HE1	1:5:462:PHE:CB	2.19	0.49
1:5:146:LEU:HD13	1:5:537:LEU:HD13	1.94	0.49
1:7:397:ALA:O	1:7:398:ALA:C	2.56	0.49
1:B:271:THR:HG22	1:B:273:GLY:H	1.78	0.48
1:B:296:MET:HB2	1:F:193:THR:HB	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:420:VAL:HA	1:I:349:ASP:O	2.13	0.48
1:D:271:THR:HG22	1:D:273:GLY:H	1.78	0.48
1:D:420:VAL:HA	1:L:349:ASP:O	2.13	0.48
1:J:397:ALA:O	1:J:398:ALA:C	2.56	0.48
1:L:464:HIS:CE1	1:L:487:LEU:HB3	2.47	0.48
1:N:483:HIS:CG	1:d:486:ARG:HH21	2.30	0.48
1:Q:349:ASP:O	1:V:420:VAL:HA	2.13	0.48
1:Q:483:HIS:HE1	1:V:462:PHE:CB	2.19	0.48
1:Q:483:HIS:CG	1:V:486:ARG:HH21	2.30	0.48
1:R:397:ALA:O	1:R:398:ALA:C	2.56	0.48
1:S:248:LEU:O	1:i:286:HIS:CE1	2.65	0.48
1:S:296:MET:HB2	1:n:193:THR:HB	1.94	0.48
1:S:420:VAL:HA	1:n:349:ASP:O	2.13	0.48
1:T:56:GLY:C	1:T:58:GLY:N	2.69	0.48
1:d:105:ASP:CG	1:r:319:ARG:HH22	2.20	0.48
1:d:191:PRO:HG3	1:r:591:MET:CE	2.09	0.48
1:e:105:ASP:CG	1:z:319:ARG:HH22	2.20	0.48
1:h:296:MET:HB2	1:l:193:THR:HB	1.94	0.48
1:i:351:PHE:HB2	1:n:419:PHE:CE2	2.45	0.48
1:k:271:THR:HG22	1:k:273:GLY:H	1.78	0.48
1:k:420:VAL:HA	1:z:349:ASP:O	2.13	0.48
1:m:193:THR:HB	1:x:296:MET:HB2	1.94	0.48
1:o:271:THR:HG22	1:o:273:GLY:H	1.78	0.48
1:q:286:HIS:CE1	1:v:248:LEU:O	2.65	0.48
1:q:397:ALA:O	1:q:398:ALA:C	2.56	0.48
1:v:397:ALA:O	1:v:398:ALA:C	2.56	0.48
1:x:397:ALA:O	1:x:398:ALA:C	2.56	0.48
1:1:109:GLN:HE22	1:5:300:ILE:CG2	2.03	0.48
1:1:271:THR:HG22	1:1:273:GLY:H	1.78	0.48
1:2:397:ALA:O	1:2:398:ALA:C	2.56	0.48
1:8:146:LEU:HD13	1:8:537:LEU:HD13	1.94	0.48
1:A:169:ILE:HD13	1:V:160:GLU:O	2.12	0.48
1:B:483:HIS:HE1	1:H:462:PHE:CB	2.19	0.48
1:D:146:LEU:HD13	1:D:537:LEU:HD13	1.94	0.48
1:I:160:GLU:O	1:3:169:ILE:HD13	2.12	0.48
1:J:193:THR:HB	1:7:296:MET:HB2	1.95	0.48
1:L:397:ALA:O	1:L:398:ALA:C	2.56	0.48
1:N:349:ASP:O	1:d:420:VAL:HA	2.13	0.48
1:N:483:HIS:CE1	1:d:462:PHE:CB	2.90	0.48
1:O:397:ALA:O	1:O:398:ALA:C	2.56	0.48
1:Q:56:GLY:C	1:Q:58:GLY:N	2.69	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:397:ALA:O	1:S:398:ALA:C	2.56	0.48
1:W:483:HIS:HE1	1:f:462:PHE:N	2.07	0.48
1:Y:286:HIS:CE1	1:2:248:LEU:O	2.65	0.48
1:Y:296:MET:HB2	1:2:193:THR:HB	1.95	0.48
1:Z:146:LEU:HD13	1:Z:537:LEU:HD13	1.94	0.48
1:b:271:THR:HG22	1:b:273:GLY:H	1.78	0.48
1:b:296:MET:HB2	1:6:193:THR:HB	1.94	0.48
1:d:193:THR:HB	1:r:296:MET:HB2	1.94	0.48
1:f:271:THR:HG22	1:f:273:GLY:H	1.78	0.48
1:g:420:VAL:HA	1:u:349:ASP:O	2.13	0.48
1:i:349:ASP:O	1:n:420:VAL:HA	2.13	0.48
1:i:483:HIS:CE1	1:n:462:PHE:CB	2.90	0.48
1:i:483:HIS:CG	1:n:486:ARG:HH21	2.30	0.48
1:k:146:LEU:HD13	1:k:537:LEU:HD13	1.94	0.48
1:l:397:ALA:O	1:l:398:ALA:C	2.56	0.48
1:m:56:GLY:C	1:m:58:GLY:N	2.69	0.48
1:p:160:GLU:O	1:v:169:ILE:HD13	2.12	0.48
1:r:56:GLY:C	1:r:58:GLY:N	2.69	0.48
1:r:397:ALA:O	1:r:398:ALA:C	2.56	0.48
1:u:300:ILE:CG2	1:4:109:GLN:HE21	2.22	0.48
1:u:319:ARG:HH22	1:4:105:ASP:CG	2.20	0.48
1:y:193:THR:HB	1:1:296:MET:HB2	1.94	0.48
1:z:464:HIS:CE1	1:z:487:LEU:HB3	2.47	0.48
1:1:349:ASP:O	1:5:420:VAL:HA	2.13	0.48
1:A:248:LEU:O	1:R:286:HIS:CE1	2.65	0.48
1:A:397:ALA:O	1:A:398:ALA:C	2.56	0.48
1:C:271:THR:HG22	1:C:273:GLY:H	1.78	0.48
1:C:296:MET:HB2	1:I:193:THR:HB	1.94	0.48
1:G:548:THR:CG2	1:X:253:PHE:HE1	2.25	0.48
1:J:248:LEU:O	1:7:286:HIS:CE1	2.65	0.48
1:L:319:ARG:HH22	1:c:105:ASP:CG	2.20	0.48
1:L:420:VAL:HA	1:c:349:ASP:O	2.13	0.48
1:Q:296:MET:HB2	1:T:193:THR:HB	1.94	0.48
1:S:56:GLY:C	1:S:58:GLY:N	2.69	0.48
1:U:56:GLY:C	1:U:58:GLY:N	2.69	0.48
1:U:253:PHE:HE1	1:W:548:THR:CG2	2.25	0.48
1:W:109:GLN:HE21	1:f:300:ILE:CG2	2.22	0.48
1:Y:56:GLY:C	1:Y:58:GLY:N	2.69	0.48
1:e:349:ASP:O	1:z:420:VAL:HA	2.13	0.48
1:g:105:ASP:CG	1:4:319:ARG:HH22	2.20	0.48
1:i:397:ALA:O	1:i:398:ALA:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:271:THR:HG22	1:r:273:GLY:H	1.78	0.48
1:s:56:GLY:C	1:s:58:GLY:N	2.69	0.48
1:u:146:LEU:HD13	1:u:537:LEU:HD13	1.94	0.48
1:w:397:ALA:O	1:w:398:ALA:C	2.56	0.48
1:z:397:ALA:O	1:z:398:ALA:C	2.56	0.48
1:1:193:THR:HB	1:5:296:MET:HB2	1.95	0.48
1:B:193:THR:HB	1:H:296:MET:HB2	1.95	0.48
1:B:286:HIS:CE1	1:F:248:LEU:O	2.65	0.48
1:B:319:ARG:HH22	1:F:105:ASP:CG	2.20	0.48
1:B:349:ASP:O	1:H:420:VAL:HA	2.13	0.48
1:E:193:THR:HB	1:O:296:MET:HB2	1.94	0.48
1:E:397:ALA:O	1:E:398:ALA:C	2.56	0.48
1:H:397:ALA:O	1:H:398:ALA:C	2.56	0.48
1:H:554:GLN:CG	1:P:132:GLN:NE2	2.77	0.48
1:I:319:ARG:HH22	1:K:105:ASP:CG	2.20	0.48
1:L:160:GLU:O	1:6:169:ILE:HD13	2.12	0.48
1:N:351:PHE:HB2	1:d:419:PHE:CE2	2.45	0.48
1:N:397:ALA:O	1:N:398:ALA:C	2.56	0.48
1:N:420:VAL:HA	1:r:349:ASP:O	2.13	0.48
1:Q:420:VAL:HA	1:T:349:ASP:O	2.13	0.48
1:S:271:THR:HG22	1:S:273:GLY:H	1.78	0.48
1:S:349:ASP:O	1:i:420:VAL:HA	2.13	0.48
1:c:397:ALA:O	1:c:398:ALA:C	2.56	0.48
1:g:271:THR:HG22	1:g:273:GLY:H	1.78	0.48
1:g:296:MET:HB2	1:u:193:THR:HB	1.94	0.48
1:j:132:GLN:NE2	1:5:554:GLN:CG	2.77	0.48
1:l:296:MET:HB2	1:w:193:THR:HB	1.94	0.48
1:o:253:PHE:HE1	1:t:548:THR:CG2	2.25	0.48
1:p:397:ALA:O	1:p:398:ALA:C	2.56	0.48
1:s:253:PHE:HE1	1:6:548:THR:CG2	2.25	0.48
1:u:397:ALA:O	1:u:398:ALA:C	2.56	0.48
1:y:483:HIS:CB	1:1:486:ARG:NH2	2.71	0.48
2:hA:1:NAG:H4	2:hA:2:GLA:C5	2.44	0.48
2:yA:1:NAG:H4	2:yA:2:GLA:C5	2.44	0.48
1:B:42:SER:HG	1:Z:265:ARG:HG3	1.75	0.48
1:B:123:GLY:HA3	1:B:470:PRO:HB2	1.96	0.48
1:C:56:GLY:C	1:C:58:GLY:N	2.69	0.48
1:C:105:ASP:CG	1:K:319:ARG:HH22	2.20	0.48
1:C:422:SER:N	1:I:447:MET:HE1	2.29	0.48
1:D:447:MET:HE1	1:c:422:SER:N	2.29	0.48
1:F:160:GLU:O	1:X:169:ILE:HD13	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:422:SER:N	1:H:447:MET:HE1	2.29	0.48
1:I:132:GLN:NE2	1:c:554:GLN:CG	2.77	0.48
1:I:146:LEU:HD13	1:I:537:LEU:HD13	1.94	0.48
1:I:397:ALA:O	1:I:398:ALA:C	2.56	0.48
1:J:146:LEU:HD13	1:J:537:LEU:HD13	1.94	0.48
1:J:422:SER:N	1:3:447:MET:HE1	2.29	0.48
1:M:554:GLN:CG	1:R:132:GLN:NE2	2.77	0.48
1:O:263:LEU:HD12	1:R:152:ASN:HD21	1.71	0.48
1:Q:554:GLN:CG	1:f:132:GLN:NE2	2.77	0.48
1:U:447:MET:HE1	1:W:422:SER:N	2.29	0.48
1:V:397:ALA:O	1:V:398:ALA:C	2.56	0.48
1:W:169:ILE:HD13	1:z:160:GLU:O	2.12	0.48
1:W:397:ALA:O	1:W:398:ALA:C	2.56	0.48
1:Y:271:THR:HG22	1:Y:273:GLY:H	1.78	0.48
1:a:447:MET:HE1	1:2:422:SER:N	2.29	0.48
1:b:447:MET:HE1	1:s:422:SER:N	2.29	0.48
1:d:271:THR:HG22	1:d:273:GLY:H	1.78	0.48
1:d:275:TYR:HE2	1:d:277:PHE:CD1	2.32	0.48
1:e:397:ALA:O	1:e:398:ALA:C	2.56	0.48
1:e:422:SER:N	1:k:447:MET:HE1	2.29	0.48
1:e:486:ARG:NH2	1:k:483:HIS:CB	2.71	0.48
1:e:554:GLN:CG	1:u:132:GLN:NE2	2.77	0.48
1:g:56:GLY:C	1:g:58:GLY:N	2.69	0.48
1:g:422:SER:N	1:u:447:MET:HE1	2.29	0.48
1:h:146:LEU:HD13	1:h:537:LEU:HD13	1.94	0.48
1:i:271:THR:HG22	1:i:273:GLY:H	1.78	0.48
1:l:547:LEU:CD1	1:w:189:ILE:HG21	2.34	0.48
1:m:349:ASP:O	1:x:420:VAL:HA	2.13	0.48
1:n:271:THR:HG22	1:n:273:GLY:H	1.78	0.48
1:n:275:TYR:HE2	1:n:277:PHE:CD1	2.32	0.48
1:s:447:MET:HE1	1:6:422:SER:N	2.29	0.48
1:y:105:ASP:CG	1:1:319:ARG:HH22	2.20	0.48
1:y:271:THR:HG22	1:y:273:GLY:H	1.78	0.48
1:y:422:SER:N	1:5:447:MET:HE1	2.29	0.48
1:1:123:GLY:HA3	1:1:470:PRO:HB2	1.96	0.48
1:2:146:LEU:HD13	1:2:537:LEU:HD13	1.94	0.48
1:5:397:ALA:O	1:5:398:ALA:C	2.56	0.48
1:6:397:ALA:O	1:6:398:ALA:C	2.56	0.48
1:7:271:THR:HG22	1:7:273:GLY:H	1.78	0.48
2:jA:1:NAG:H4	2:jA:2:GLA:C5	2.44	0.48
2:DB:1:NAG:H4	2:DB:2:GLA:C5	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TB:1:NAG:H4	2:TB:2:GLA:C5	2.44	0.48
2:WB:1:NAG:H4	2:WB:2:GLA:C5	2.44	0.48
1:A:447:MET:HE1	1:R:422:SER:N	2.29	0.48
1:C:447:MET:HE1	1:K:422:SER:N	2.29	0.48
1:E:422:SER:N	1:M:447:MET:HE1	2.29	0.48
1:G:56:GLY:C	1:G:58:GLY:N	2.69	0.48
1:I:275:TYR:HE2	1:I:277:PHE:CD1	2.32	0.48
1:I:422:SER:N	1:K:447:MET:HE1	2.29	0.48
1:K:397:ALA:O	1:K:398:ALA:C	2.56	0.48
1:M:123:GLY:HA3	1:M:470:PRO:HB2	1.96	0.48
1:M:146:LEU:HD13	1:M:537:LEU:HD13	1.94	0.48
1:M:275:TYR:HE2	1:M:277:PHE:CD1	2.32	0.48
1:N:56:GLY:C	1:N:58:GLY:N	2.69	0.48
1:N:271:THR:HG22	1:N:273:GLY:H	1.78	0.48
1:O:275:TYR:HE2	1:O:277:PHE:CD1	2.32	0.48
1:Q:123:GLY:HA3	1:Q:470:PRO:HB2	1.96	0.48
1:Q:132:GLN:NE2	1:f:554:GLN:CG	2.77	0.48
1:Q:483:HIS:HE1	1:V:462:PHE:N	2.07	0.48
1:T:422:SER:N	1:V:447:MET:HE1	2.29	0.48
1:U:105:ASP:CG	1:W:319:ARG:HH22	2.20	0.48
1:U:146:LEU:HD13	1:U:537:LEU:HD13	1.94	0.48
1:U:422:SER:N	1:f:447:MET:HE1	2.29	0.48
1:W:123:GLY:HA3	1:W:470:PRO:HB2	1.96	0.48
1:X:422:SER:N	1:Z:447:MET:HE1	2.29	0.48
1:b:132:GLN:NE2	1:x:554:GLN:CG	2.77	0.48
1:b:275:TYR:HE2	1:b:277:PHE:CD1	2.32	0.48
1:b:422:SER:N	1:6:447:MET:HE1	2.29	0.48
1:e:253:PHE:HE1	1:z:548:THR:CG2	2.25	0.48
1:f:275:TYR:HE2	1:f:277:PHE:CD1	2.32	0.48
1:f:397:ALA:O	1:f:398:ALA:C	2.56	0.48
1:h:275:TYR:HE2	1:h:277:PHE:CD1	2.32	0.48
1:h:447:MET:HE1	1:w:422:SER:N	2.29	0.48
1:h:554:GLN:CG	1:q:132:GLN:NE2	2.77	0.48
1:j:422:SER:N	1:q:447:MET:HE1	2.29	0.48
1:l:275:TYR:HE2	1:l:277:PHE:CD1	2.32	0.48
1:m:422:SER:N	1:p:447:MET:HE1	2.29	0.48
1:n:397:ALA:O	1:n:398:ALA:C	2.56	0.48
1:o:422:SER:N	1:8:447:MET:HE1	2.29	0.48
1:p:462:PHE:N	1:x:483:HIS:HE1	2.07	0.48
1:t:56:GLY:C	1:t:58:GLY:N	2.69	0.48
1:t:446:ASN:HB2	1:8:432:ASN:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:275:TYR:HE2	1:u:277:PHE:CD1	2.32	0.48
1:u:422:SER:N	1:4:447:MET:HE1	2.29	0.48
1:x:123:GLY:HA3	1:x:470:PRO:HB2	1.96	0.48
1:y:248:LEU:O	1:1:286:HIS:CE1	2.65	0.48
1:4:397:ALA:O	1:4:398:ALA:C	2.56	0.48
1:6:123:GLY:HA3	1:6:470:PRO:HB2	1.96	0.48
2:AA:1:NAG:H4	2:AA:2:GLA:C5	2.44	0.48
2:RA:1:NAG:H4	2:RA:2:GLA:C5	2.44	0.48
2:pA:1:NAG:H4	2:pA:2:GLA:C5	2.44	0.48
1:A:572:PRO:CG	1:V:252:PHE:CZ	2.97	0.48
1:B:109:GLN:HE22	1:H:300:ILE:CG2	2.03	0.48
1:B:486:ARG:NH2	1:F:483:HIS:CB	2.71	0.48
1:C:483:HIS:CE1	1:K:462:PHE:CB	2.90	0.48
1:C:554:GLN:CG	1:3:132:GLN:NE2	2.77	0.48
1:D:105:ASP:CG	1:c:319:ARG:HH22	2.20	0.48
1:E:189:ILE:HG21	1:O:547:LEU:CD1	2.34	0.48
1:F:271:THR:HG22	1:F:273:GLY:H	1.78	0.48
1:F:432:ASN:O	1:H:446:ASN:HB2	2.14	0.48
1:G:132:GLN:NE2	1:2:554:GLN:CG	2.77	0.48
1:G:432:ASN:O	1:X:446:ASN:HB2	2.14	0.48
1:G:446:ASN:HB2	1:Z:432:ASN:O	2.14	0.48
1:J:123:GLY:HA3	1:J:470:PRO:HB2	1.96	0.48
1:J:554:GLN:CG	1:t:132:GLN:NE2	2.77	0.48
1:L:548:THR:CG2	1:c:253:PHE:HE1	2.25	0.48
1:P:56:GLY:C	1:P:58:GLY:N	2.69	0.48
1:P:422:SER:N	1:R:447:MET:HE1	2.29	0.48
1:P:548:THR:CG2	1:R:253:PHE:HE1	2.25	0.48
1:R:275:TYR:HE2	1:R:277:PHE:CD1	2.32	0.48
1:T:422:SER:CA	1:V:447:MET:HE1	2.44	0.48
1:U:432:ASN:O	1:f:446:ASN:HB2	2.14	0.48
1:W:275:TYR:HE2	1:W:277:PHE:CD1	2.32	0.48
1:W:447:MET:HE1	1:f:422:SER:N	2.29	0.48
1:Y:483:HIS:HE1	1:a:462:PHE:CB	2.19	0.48
1:Z:152:ASN:HD22	1:f:263:LEU:HD12	1.72	0.48
1:b:397:ALA:O	1:b:398:ALA:C	2.56	0.48
1:b:446:ASN:HB2	1:s:432:ASN:O	2.14	0.48
1:b:554:GLN:CG	1:x:132:GLN:NE2	2.77	0.48
1:d:397:ALA:O	1:d:398:ALA:C	2.56	0.48
1:e:132:GLN:NE2	1:u:554:GLN:CG	2.77	0.48
1:e:319:ARG:HH22	1:k:105:ASP:CG	2.20	0.48
1:g:351:PHE:HB2	1:4:419:PHE:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:447:MET:HE1	1:4:422:SER:N	2.29	0.48
1:h:123:GLY:HA3	1:h:470:PRO:HB2	1.96	0.48
1:h:271:THR:HG22	1:h:273:GLY:H	1.78	0.48
1:i:56:GLY:C	1:i:58:GLY:N	2.69	0.48
1:m:422:SER:CA	1:p:447:MET:HE1	2.44	0.48
1:o:169:ILE:HD13	1:y:160:GLU:O	2.12	0.48
1:o:446:ASN:HB2	1:t:432:ASN:O	2.14	0.48
1:q:275:TYR:HE2	1:q:277:PHE:CD1	2.32	0.48
1:s:105:ASP:CG	1:6:319:ARG:HH22	2.20	0.48
1:y:432:ASN:O	1:5:446:ASN:HB2	2.14	0.48
1:z:146:LEU:HD13	1:z:537:LEU:HD13	1.94	0.48
1:2:123:GLY:HA3	1:2:470:PRO:HB2	1.96	0.48
1:3:462:PHE:CB	1:7:483:HIS:HE1	2.19	0.48
1:6:275:TYR:HE2	1:6:277:PHE:CD1	2.32	0.48
2:JA:1:NAG:H4	2:JA:2:GLA:C5	2.44	0.48
2:YA:1:NAG:H4	2:YA:2:GLA:C5	2.44	0.48
2:dA:1:NAG:H4	2:dA:2:GLA:C5	2.44	0.48
2:qA:1:NAG:H4	2:qA:2:GLA:C5	2.44	0.48
2:NB:1:NAG:H4	2:NB:2:GLA:C5	2.44	0.48
1:A:160:GLU:O	1:M:169:ILE:HD13	2.11	0.48
1:A:271:THR:HG22	1:A:273:GLY:H	1.78	0.48
1:A:275:TYR:HE2	1:A:277:PHE:CD1	2.32	0.48
1:A:447:MET:HE1	1:R:422:SER:CA	2.44	0.48
1:B:397:ALA:O	1:B:398:ALA:C	2.56	0.48
1:B:419:PHE:CD2	1:F:351:PHE:HB2	2.49	0.48
1:C:351:PHE:HB2	1:K:419:PHE:CD2	2.49	0.48
1:C:422:SER:CA	1:I:447:MET:HE1	2.44	0.48
1:D:275:TYR:HE2	1:D:277:PHE:CD1	2.32	0.48
1:D:483:HIS:CB	1:c:486:ARG:NH2	2.71	0.48
1:E:123:GLY:HA3	1:E:470:PRO:HB2	1.96	0.48
1:E:271:THR:HG22	1:E:273:GLY:H	1.78	0.48
1:E:300:ILE:CG2	1:M:109:GLN:HE21	2.23	0.48
1:E:319:ARG:HH22	1:M:105:ASP:CG	2.20	0.48
1:E:419:PHE:CD2	1:M:351:PHE:HB2	2.49	0.48
1:F:252:PHE:CZ	1:X:572:PRO:CG	2.97	0.48
1:G:275:TYR:HE2	1:G:277:PHE:CD1	2.32	0.48
1:G:420:VAL:HA	1:X:349:ASP:O	2.13	0.48
1:I:554:GLN:CG	1:c:132:GLN:NE2	2.77	0.48
1:L:275:TYR:HE2	1:L:277:PHE:CD1	2.32	0.48
1:N:446:ASN:HB2	1:d:432:ASN:O	2.14	0.48
1:N:554:GLN:CG	1:i:132:GLN:NE2	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:422:SER:CA	1:R:447:MET:HE1	2.44	0.48
1:Q:422:SER:N	1:T:447:MET:HE1	2.29	0.48
1:Q:447:MET:HE1	1:V:422:SER:N	2.29	0.48
1:S:132:GLN:NE2	1:w:554:GLN:CG	2.77	0.48
1:S:591:MET:CE	1:n:191:PRO:HG3	2.09	0.48
1:U:132:GLN:NE2	1:Z:554:GLN:CG	2.77	0.48
1:U:447:MET:HE1	1:W:422:SER:CA	2.44	0.48
1:W:132:GLN:NE2	1:k:554:GLN:CG	2.77	0.48
1:W:271:THR:HG22	1:W:273:GLY:H	1.78	0.48
1:W:447:MET:HE1	1:f:422:SER:CA	2.44	0.48
1:a:132:GLN:NE2	1:g:554:GLN:CG	2.77	0.48
1:b:422:SER:CA	1:6:447:MET:HE1	2.44	0.48
1:c:146:LEU:HD13	1:c:537:LEU:HD13	1.94	0.48
1:g:123:GLY:HA3	1:g:470:PRO:HB2	1.96	0.48
1:g:422:SER:CA	1:u:447:MET:HE1	2.44	0.48
1:h:351:PHE:HB2	1:w:419:PHE:CD2	2.49	0.48
1:i:446:ASN:HB2	1:n:432:ASN:O	2.14	0.48
1:k:275:TYR:HE2	1:k:277:PHE:CD1	2.32	0.48
1:l:123:GLY:HA3	1:l:470:PRO:HB2	1.96	0.48
1:l:263:LEU:HD12	1:q:152:ASN:HD21	1.71	0.48
1:o:349:ASP:O	1:t:420:VAL:HA	2.13	0.48
1:o:572:PRO:CG	1:y:252:PHE:CZ	2.97	0.48
1:p:252:PHE:CZ	1:v:572:PRO:CG	2.97	0.48
1:p:275:TYR:HE2	1:p:277:PHE:CD1	2.32	0.48
1:s:146:LEU:HD13	1:s:537:LEU:HD13	1.94	0.48
1:s:271:THR:HG22	1:s:273:GLY:H	1.78	0.48
1:s:447:MET:HE1	1:6:422:SER:CA	2.44	0.48
1:t:275:TYR:HE2	1:t:277:PHE:CD1	2.32	0.48
1:t:447:MET:HE1	1:8:422:SER:N	2.29	0.48
1:u:419:PHE:CD2	1:4:351:PHE:HB2	2.49	0.48
1:v:275:TYR:HE2	1:v:277:PHE:CD1	2.32	0.48
1:w:123:GLY:HA3	1:w:470:PRO:HB2	1.96	0.48
1:y:351:PHE:HB2	1:1:419:PHE:CD2	2.49	0.48
1:z:275:TYR:HE2	1:z:277:PHE:CD1	2.32	0.48
1:1:42:SER:HG	1:8:265:ARG:HG3	1.75	0.48
1:1:109:GLN:HE21	1:5:300:ILE:CG2	2.23	0.48
1:1:169:ILE:HD13	1:8:160:GLU:O	2.12	0.48
1:1:397:ALA:O	1:1:398:ALA:C	2.56	0.48
1:1:483:HIS:CB	1:5:486:ARG:NH2	2.71	0.48
2:AB:1:NAG:H4	2:AB:2:GLA:C5	2.44	0.48
2:EB:1:NAG:H4	2:EB:2:GLA:C5	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GB:1:NAG:H4	2:GB:2:GLA:C5	2.44	0.48
2:KB:1:NAG:H4	2:KB:2:GLA:C5	2.44	0.48
1:B:132:GLN:NE2	1:X:554:GLN:CG	2.77	0.48
1:B:572:PRO:CG	1:Z:252:PHE:CZ	2.97	0.48
1:C:123:GLY:HA3	1:C:470:PRO:HB2	1.96	0.48
1:D:554:GLN:CG	1:6:132:GLN:NE2	2.77	0.48
1:E:462:PHE:N	1:M:483:HIS:HE1	2.07	0.48
1:E:554:GLN:CG	1:r:132:GLN:NE2	2.77	0.48
1:F:132:GLN:NE2	1:K:554:GLN:CG	2.77	0.48
1:F:419:PHE:CD2	1:H:351:PHE:HB2	2.49	0.48
1:G:397:ALA:O	1:G:398:ALA:C	2.56	0.48
1:G:447:MET:HE1	1:Z:422:SER:N	2.29	0.48
1:G:483:HIS:HE1	1:Z:462:PHE:CB	2.19	0.48
1:G:554:GLN:CG	1:2:132:GLN:NE2	2.77	0.48
1:I:419:PHE:CD2	1:K:351:PHE:HB2	2.49	0.48
1:I:432:ASN:O	1:K:446:ASN:HB2	2.14	0.48
1:J:351:PHE:HB2	1:7:419:PHE:CD2	2.49	0.48
1:J:447:MET:HE1	1:7:422:SER:CA	2.44	0.48
1:L:271:THR:HG22	1:L:273:GLY:H	1.78	0.48
1:M:271:THR:HG22	1:M:273:GLY:H	1.78	0.48
1:M:419:PHE:CD2	1:O:351:PHE:HB2	2.49	0.48
1:N:132:GLN:NE2	1:i:554:GLN:CG	2.77	0.48
1:O:123:GLY:HA3	1:O:470:PRO:HB2	1.96	0.48
1:S:275:TYR:HE2	1:S:277:PHE:CD1	2.32	0.48
1:U:123:GLY:HA3	1:U:470:PRO:HB2	1.96	0.48
1:U:271:THR:HG22	1:U:273:GLY:H	1.78	0.48
1:V:275:TYR:HE2	1:V:277:PHE:CD1	2.32	0.48
1:Y:132:GLN:NE2	1:7:554:GLN:CG	2.77	0.48
1:Y:419:PHE:CD2	1:2:351:PHE:HB2	2.49	0.48
1:Y:554:GLN:CG	1:7:132:GLN:NE2	2.77	0.48
1:b:169:ILE:HD13	1:m:160:GLU:O	2.12	0.48
1:c:123:GLY:HA3	1:c:470:PRO:HB2	1.96	0.48
1:e:146:LEU:HD13	1:e:537:LEU:HD13	1.94	0.48
1:g:419:PHE:CD2	1:u:351:PHE:HB2	2.49	0.48
1:h:105:ASP:CG	1:w:319:ARG:HH22	2.20	0.48
1:h:109:GLN:HE21	1:w:300:ILE:CG2	2.23	0.48
1:h:169:ILE:HD13	1:v:160:GLU:O	2.12	0.48
1:h:193:THR:HB	1:w:296:MET:HB2	1.94	0.48
1:h:446:ASN:HB2	1:w:432:ASN:O	2.14	0.48
1:j:422:SER:CA	1:q:447:MET:HE1	2.44	0.48
1:j:548:THR:CG2	1:q:253:PHE:HE1	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:132:GLN:NE2	1:z:554:GLN:CG	2.77	0.48
1:l:432:ASN:O	1:w:446:ASN:HB2	2.14	0.48
1:m:105:ASP:CG	1:x:319:ARG:HH22	2.20	0.48
1:m:447:MET:HE1	1:x:422:SER:N	2.29	0.48
1:m:554:GLN:CG	1:v:132:GLN:NE2	2.77	0.48
1:p:422:SER:N	1:x:447:MET:HE1	2.29	0.48
1:q:422:SER:CA	1:v:447:MET:HE1	2.44	0.48
1:q:422:SER:N	1:v:447:MET:HE1	2.29	0.48
1:s:123:GLY:HA3	1:s:470:PRO:HB2	1.96	0.48
1:s:132:GLN:NE2	1:8:554:GLN:CG	2.77	0.48
1:t:271:THR:HG22	1:t:273:GLY:H	1.78	0.48
1:t:483:HIS:HE1	1:8:462:PHE:CB	2.19	0.48
1:u:432:ASN:O	1:4:446:ASN:HB2	2.14	0.48
1:w:271:THR:HG22	1:w:273:GLY:H	1.78	0.48
1:x:275:TYR:HE2	1:x:277:PHE:CD1	2.32	0.48
1:y:132:GLN:NE2	1:4:554:GLN:CG	2.77	0.48
1:1:572:PRO:CG	1:8:252:PHE:CZ	2.97	0.48
2:CA:1:NAG:H4	2:CA:2:GLA:C5	2.44	0.48
2:FA:1:NAG:H4	2:FA:2:GLA:C5	2.44	0.48
2:IA:1:NAG:H4	2:IA:2:GLA:C5	2.44	0.48
2:bA:1:NAG:H4	2:bA:2:GLA:C5	2.44	0.48
2:5A:1:NAG:H4	2:5A:2:GLA:C5	2.44	0.48
2:JB:1:NAG:H4	2:JB:2:GLA:C5	2.44	0.48
1:B:169:ILE:HD13	1:Z:160:GLU:O	2.12	0.48
1:B:422:SER:CA	1:F:447:MET:HE1	2.44	0.48
1:C:419:PHE:CD2	1:I:351:PHE:HB2	2.49	0.48
1:D:351:PHE:HB2	1:c:419:PHE:CD2	2.49	0.48
1:E:296:MET:HB2	1:M:193:THR:HB	1.94	0.48
1:E:432:ASN:O	1:M:446:ASN:HB2	2.14	0.48
1:E:446:ASN:HB2	1:O:432:ASN:O	2.14	0.48
1:H:56:GLY:C	1:H:58:GLY:N	2.69	0.48
1:J:132:GLN:NE2	1:t:554:GLN:CG	2.77	0.48
1:K:160:GLU:O	1:c:169:ILE:HD13	2.12	0.48
1:L:146:LEU:HD13	1:L:537:LEU:HD13	1.94	0.48
1:L:554:GLN:CG	1:O:132:GLN:NE2	2.77	0.48
1:M:422:SER:N	1:O:447:MET:HE1	2.29	0.48
1:N:419:PHE:CD2	1:r:351:PHE:HB2	2.49	0.48
1:O:169:ILE:HD13	1:c:160:GLU:O	2.12	0.48
1:P:397:ALA:O	1:P:398:ALA:C	2.56	0.48
1:Q:275:TYR:HE2	1:Q:277:PHE:CD1	2.32	0.48
1:Q:319:ARG:HH22	1:T:105:ASP:CG	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:447:MET:HE1	1:V:422:SER:CA	2.44	0.48
1:S:351:PHE:HB2	1:i:419:PHE:CD2	2.49	0.48
1:S:447:MET:HE1	1:i:422:SER:N	2.29	0.48
1:T:432:ASN:O	1:V:446:ASN:HB2	2.14	0.48
1:U:351:PHE:HB2	1:W:419:PHE:CD2	2.49	0.48
1:Y:422:SER:CA	1:2:447:MET:HE1	2.44	0.48
1:Y:447:MET:HE1	1:a:422:SER:CA	2.44	0.48
1:Y:447:MET:HE1	1:a:422:SER:N	2.29	0.48
1:Z:275:TYR:HE2	1:Z:277:PHE:CD1	2.32	0.48
1:e:123:GLY:HA3	1:e:470:PRO:HB2	1.96	0.48
1:g:446:ASN:HB2	1:4:432:ASN:O	2.14	0.48
1:g:483:HIS:CE1	1:4:462:PHE:CB	2.90	0.48
1:h:419:PHE:CD2	1:l:351:PHE:HB2	2.49	0.48
1:h:483:HIS:HE1	1:w:462:PHE:N	2.07	0.48
1:j:252:PHE:CZ	1:m:572:PRO:CG	2.97	0.48
1:k:397:ALA:O	1:k:398:ALA:C	2.56	0.48
1:m:483:HIS:CE1	1:x:462:PHE:CB	2.90	0.48
1:o:554:GLN:CG	1:1:132:GLN:NE2	2.77	0.48
1:p:422:SER:CA	1:x:447:MET:HE1	2.44	0.48
1:q:300:ILE:CG2	1:v:109:GLN:HE21	2.23	0.48
1:r:275:TYR:HE2	1:r:277:PHE:CD1	2.32	0.48
1:s:351:PHE:HB2	1:6:419:PHE:CD2	2.49	0.48
1:v:271:THR:HG22	1:v:273:GLY:H	1.78	0.48
1:y:419:PHE:CD2	1:5:351:PHE:HB2	2.49	0.48
1:y:447:MET:HE1	1:1:422:SER:CA	2.44	0.48
1:2:275:TYR:HE2	1:2:277:PHE:CD1	2.32	0.48
1:6:271:THR:HG22	1:6:273:GLY:H	1.78	0.48
1:8:275:TYR:HE2	1:8:277:PHE:CD1	2.32	0.48
2:nA:1:NAG:H4	2:nA:2:GLA:C5	2.44	0.48
2:7A:1:NAG:H4	2:7A:2:GLA:C5	2.44	0.48
2:PB:1:NAG:H4	2:PB:2:GLA:C5	2.44	0.48
1:A:351:PHE:HB2	1:R:419:PHE:CD2	2.49	0.47
1:B:483:HIS:CB	1:H:486:ARG:NH2	2.71	0.47
1:C:412:GLY:O	1:I:354:ASN:OD1	2.33	0.47
1:C:446:ASN:HB2	1:K:432:ASN:O	2.14	0.47
1:D:193:THR:HB	1:c:296:MET:HB2	1.94	0.47
1:D:397:ALA:O	1:D:398:ALA:C	2.56	0.47
1:D:447:MET:HE1	1:c:422:SER:CA	2.44	0.47
1:F:412:GLY:O	1:H:354:ASN:OD1	2.32	0.47
1:G:271:THR:HG22	1:G:273:GLY:H	1.78	0.47
1:G:572:PRO:CG	1:a:252:PHE:CZ	2.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:275:TYR:HE2	1:J:277:PHE:CD1	2.32	0.47
1:M:132:GLN:NE2	1:R:554:GLN:CG	2.77	0.47
1:N:422:SER:N	1:r:447:MET:HE1	2.29	0.47
1:O:572:PRO:CG	1:c:252:PHE:CZ	2.97	0.47
1:P:252:PHE:CZ	1:T:572:PRO:CG	2.97	0.47
1:P:300:ILE:CG2	1:R:109:GLN:HE21	2.23	0.47
1:Q:351:PHE:HB2	1:V:419:PHE:CD2	2.49	0.47
1:Q:419:PHE:CD2	1:T:351:PHE:HB2	2.49	0.47
1:Q:422:SER:CA	1:T:447:MET:HE1	2.44	0.47
1:T:160:GLU:O	1:f:169:ILE:HD13	2.12	0.47
1:X:275:TYR:HE2	1:X:277:PHE:CD1	2.32	0.47
1:Y:354:ASN:OD1	1:a:412:GLY:O	2.32	0.47
1:Z:271:THR:HG22	1:Z:273:GLY:H	1.78	0.47
1:a:271:THR:HG22	1:a:273:GLY:H	1.78	0.47
1:a:554:GLN:CG	1:g:132:GLN:NE2	2.77	0.47
1:b:572:PRO:CG	1:m:252:PHE:CZ	2.97	0.47
1:e:252:PHE:CZ	1:l:572:PRO:CG	2.97	0.47
1:e:419:PHE:CD2	1:k:351:PHE:HB2	2.49	0.47
1:e:422:SER:CA	1:k:447:MET:HE1	2.44	0.47
1:e:572:PRO:CG	1:4:252:PHE:CZ	2.97	0.47
1:g:160:GLU:O	1:y:169:ILE:HD13	2.12	0.47
1:g:397:ALA:O	1:g:398:ALA:C	2.56	0.47
1:g:412:GLY:O	1:u:354:ASN:OD1	2.33	0.47
1:h:397:ALA:O	1:h:398:ALA:C	2.56	0.47
1:j:397:ALA:O	1:j:398:ALA:C	2.56	0.47
1:m:275:TYR:HE2	1:m:277:PHE:CD1	2.32	0.47
1:m:351:PHE:HB2	1:x:419:PHE:CD2	2.49	0.47
1:m:432:ASN:O	1:p:446:ASN:HB2	2.14	0.47
1:m:447:MET:HE1	1:x:422:SER:CA	2.44	0.47
1:n:160:GLU:O	1:w:169:ILE:HD13	2.12	0.47
1:p:419:PHE:CD2	1:x:351:PHE:HB2	2.49	0.47
1:q:123:GLY:HA3	1:q:470:PRO:HB2	1.96	0.47
1:t:351:PHE:HB2	1:8:419:PHE:CD2	2.49	0.47
1:t:397:ALA:O	1:t:398:ALA:C	2.56	0.47
1:t:572:PRO:CG	1:3:252:PHE:CZ	2.97	0.47
1:w:146:LEU:HD13	1:w:537:LEU:HD13	1.94	0.47
1:y:412:GLY:O	1:5:354:ASN:OD1	2.32	0.47
1:z:271:THR:HG22	1:z:273:GLY:H	1.78	0.47
1:3:271:THR:HG22	1:3:273:GLY:H	1.78	0.47
1:3:412:GLY:O	1:7:354:ASN:OD1	2.32	0.47
1:3:422:SER:CA	1:7:447:MET:HE1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:422:SER:N	1:7:447:MET:HE1	2.29	0.47
1:8:271:THR:HG22	1:8:273:GLY:H	1.78	0.47
2:aA:1:NAG:H4	2:aA:2:GLA:C5	2.44	0.47
2:sA:1:NAG:H4	2:sA:2:GLA:C5	2.44	0.47
2:BB:1:NAG:H4	2:BB:2:GLA:C5	2.44	0.47
2:YB:1:NAG:H4	2:YB:2:GLA:C5	2.44	0.47
2:ZB:1:NAG:H4	2:ZB:2:GLA:C5	2.44	0.47
1:A:109:GLN:HE21	1:R:300:ILE:CG2	2.22	0.47
1:A:132:GLN:NE2	1:T:554:GLN:CG	2.77	0.47
1:B:70:LEU:HD11	1:B:202:LEU:HD22	1.97	0.47
1:B:252:PHE:CZ	1:P:572:PRO:CG	2.97	0.47
1:C:132:GLN:NE2	1:3:554:GLN:CG	2.77	0.47
1:C:397:ALA:O	1:C:398:ALA:C	2.56	0.47
1:E:146:LEU:HD13	1:E:537:LEU:HD13	1.94	0.47
1:E:252:PHE:CZ	1:L:572:PRO:CG	2.97	0.47
1:E:351:PHE:HB2	1:O:419:PHE:CD2	2.49	0.47
1:E:374:HIS:HB3	1:E:379:ALA:HB3	1.97	0.47
1:E:483:HIS:HE1	1:O:462:PHE:N	2.07	0.47
1:G:252:PHE:CZ	1:U:572:PRO:CG	2.97	0.47
1:G:351:PHE:HB2	1:Z:419:PHE:CD2	2.49	0.47
1:G:447:MET:HE1	1:Z:422:SER:CA	2.44	0.47
1:H:132:GLN:NE2	1:P:554:GLN:CG	2.77	0.47
1:H:572:PRO:CG	1:R:252:PHE:CZ	2.97	0.47
1:J:160:GLU:O	1:Y:169:ILE:HD13	2.12	0.47
1:J:169:ILE:HD13	1:o:160:GLU:O	2.12	0.47
1:K:252:PHE:CZ	1:c:572:PRO:CG	2.97	0.47
1:P:123:GLY:HA3	1:P:470:PRO:HB2	1.96	0.47
1:S:486:ARG:NH2	1:n:483:HIS:CB	2.71	0.47
1:T:252:PHE:CZ	1:f:572:PRO:CG	2.97	0.47
1:T:275:TYR:HE2	1:T:277:PHE:CD1	2.32	0.47
1:T:397:ALA:O	1:T:398:ALA:C	2.56	0.47
1:U:412:GLY:O	1:f:354:ASN:OD1	2.33	0.47
1:W:374:HIS:HB3	1:W:379:ALA:HB3	1.97	0.47
1:X:160:GLU:O	1:2:169:ILE:HD13	2.12	0.47
1:Y:351:PHE:HB2	1:a:419:PHE:CD2	2.49	0.47
1:Z:572:PRO:CG	1:f:252:PHE:CZ	2.97	0.47
1:a:351:PHE:HB2	1:2:419:PHE:CD2	2.49	0.47
1:b:252:PHE:CZ	1:8:572:PRO:CG	2.97	0.47
1:b:263:LEU:HD12	1:8:152:ASN:HD22	1.72	0.47
1:b:351:PHE:HB2	1:s:419:PHE:CD2	2.49	0.47
1:b:354:ASN:OD1	1:s:412:GLY:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:275:TYR:HE2	1:c:277:PHE:CD1	2.32	0.47
1:d:447:MET:HE1	1:r:422:SER:CA	2.44	0.47
1:d:554:GLN:CG	1:p:132:GLN:NE2	2.77	0.47
1:e:160:GLU:O	1:l:169:ILE:HD13	2.12	0.47
1:e:296:MET:HB2	1:k:193:THR:HB	1.94	0.47
1:g:70:LEU:HD11	1:g:202:LEU:HD22	1.97	0.47
1:h:132:GLN:NE2	1:q:554:GLN:CG	2.77	0.47
1:h:422:SER:N	1:l:447:MET:HE1	2.29	0.47
1:h:447:MET:HE1	1:w:422:SER:CA	2.44	0.47
1:j:554:GLN:CG	1:5:132:GLN:NE2	2.77	0.47
1:j:572:PRO:CG	1:1:252:PHE:CZ	2.97	0.47
1:l:419:PHE:CD2	1:w:351:PHE:HB2	2.49	0.47
1:l:462:PHE:N	1:w:483:HIS:HE1	2.07	0.47
1:m:227:VAL:HG21	1:x:417:ARG:O	2.15	0.47
1:m:397:ALA:O	1:m:398:ALA:C	2.56	0.47
1:o:275:TYR:HE2	1:o:277:PHE:CD1	2.32	0.47
1:q:252:PHE:CZ	1:5:572:PRO:CG	2.97	0.47
1:s:554:GLN:CG	1:8:132:GLN:NE2	2.77	0.47
1:s:572:PRO:CG	1:t:252:PHE:CZ	2.97	0.47
1:t:123:GLY:HA3	1:t:470:PRO:HB2	1.96	0.47
1:w:252:PHE:CZ	1:z:572:PRO:CG	2.97	0.47
1:w:374:HIS:HB3	1:w:379:ALA:HB3	1.97	0.47
1:y:70:LEU:HD11	1:y:202:LEU:HD22	1.97	0.47
1:1:70:LEU:HD11	1:1:202:LEU:HD22	1.97	0.47
1:5:70:LEU:HD11	1:5:202:LEU:HD22	1.97	0.47
2:UA:1:NAG:H4	2:UA:2:GLA:C5	2.44	0.47
2:4A:1:NAG:H4	2:4A:2:GLA:C5	2.44	0.47
1:A:354:ASN:OD1	1:R:412:GLY:O	2.33	0.47
1:A:419:PHE:CD2	1:P:351:PHE:HB2	2.49	0.47
1:B:432:ASN:O	1:F:446:ASN:HB2	2.14	0.47
1:C:70:LEU:HD11	1:C:202:LEU:HD22	1.97	0.47
1:D:132:GLN:NE2	1:6:554:GLN:CG	2.77	0.47
1:D:252:PHE:CZ	1:I:572:PRO:CG	2.97	0.47
1:E:412:GLY:O	1:M:354:ASN:OD1	2.32	0.47
1:E:422:SER:CA	1:M:447:MET:HE1	2.44	0.47
1:F:70:LEU:HD11	1:F:202:LEU:HD22	1.97	0.47
1:G:123:GLY:HA3	1:G:470:PRO:HB2	1.96	0.47
1:H:70:LEU:HD11	1:H:202:LEU:HD22	1.97	0.47
1:J:419:PHE:CD2	1:3:351:PHE:HB2	2.49	0.47
1:J:572:PRO:CG	1:o:252:PHE:CZ	2.97	0.47
1:L:252:PHE:CZ	1:6:572:PRO:CG	2.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:160:GLU:O	1:r:169:ILE:HD13	2.12	0.47
1:M:397:ALA:O	1:M:398:ALA:C	2.56	0.47
1:P:275:TYR:HE2	1:P:277:PHE:CD1	2.32	0.47
1:Q:417:ARG:O	1:T:227:VAL:HG21	2.15	0.47
1:R:123:GLY:HA3	1:R:470:PRO:HB2	1.96	0.47
1:S:354:ASN:OD1	1:i:412:GLY:O	2.33	0.47
1:S:422:SER:CA	1:n:447:MET:HE1	2.44	0.47
1:U:252:PHE:CZ	1:k:572:PRO:CG	2.97	0.47
1:U:419:PHE:CD2	1:f:351:PHE:HB2	2.49	0.47
1:U:446:ASN:HB2	1:W:432:ASN:O	2.14	0.47
1:U:554:GLN:CG	1:Z:132:GLN:NE2	2.77	0.47
1:V:132:GLN:NE2	1:n:554:GLN:CG	2.77	0.47
1:W:554:GLN:CG	1:k:132:GLN:NE2	2.77	0.47
1:W:572:PRO:CG	1:z:252:PHE:CZ	2.97	0.47
1:X:252:PHE:CZ	1:2:572:PRO:CG	2.97	0.47
1:X:412:GLY:O	1:Z:354:ASN:OD1	2.32	0.47
1:Y:105:ASP:CG	1:a:319:ARG:HH22	2.20	0.47
1:e:169:ILE:HD13	1:4:160:GLU:O	2.12	0.47
1:e:271:THR:HG22	1:e:273:GLY:H	1.78	0.47
1:e:275:TYR:HE2	1:e:277:PHE:CD1	2.32	0.47
1:e:300:ILE:CG2	1:k:109:GLN:HE21	2.22	0.47
1:f:123:GLY:HA3	1:f:470:PRO:HB2	1.96	0.47
1:g:419:PHE:CE2	1:u:351:PHE:HB2	2.45	0.47
1:j:123:GLY:HA3	1:j:470:PRO:HB2	1.96	0.47
1:j:227:VAL:HG21	1:v:417:ARG:O	2.15	0.47
1:j:300:ILE:CG2	1:q:109:GLN:HE21	2.23	0.47
1:j:447:MET:HE1	1:v:422:SER:N	2.29	0.47
1:k:252:PHE:CZ	1:u:572:PRO:CG	2.97	0.47
1:k:422:SER:N	1:z:447:MET:HE1	2.29	0.47
1:l:554:GLN:CG	1:z:132:GLN:NE2	2.77	0.47
1:m:132:GLN:NE2	1:v:554:GLN:CG	2.77	0.47
1:o:412:GLY:O	1:8:354:ASN:OD1	2.32	0.47
1:q:412:GLY:O	1:v:354:ASN:OD1	2.33	0.47
1:q:419:PHE:CD2	1:v:351:PHE:HB2	2.49	0.47
1:s:109:GLN:HE21	1:6:300:ILE:CG2	2.23	0.47
1:t:447:MET:HE1	1:8:422:SER:CA	2.44	0.47
1:1:374:HIS:HB3	1:1:379:ALA:HB3	1.97	0.47
1:3:419:PHE:CD2	1:7:351:PHE:HB2	2.49	0.47
1:5:56:GLY:C	1:5:58:GLY:N	2.69	0.47
1:6:374:HIS:HB3	1:6:379:ALA:HB3	1.97	0.47
2:DA:1:NAG:H4	2:DA:2:GLA:C5	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:zA:1:NAG:H4	2:zA:2:GLA:C5	2.44	0.47
1:A:123:GLY:HA3	1:A:470:PRO:HB2	1.96	0.47
1:B:374:HIS:HB3	1:B:379:ALA:HB3	1.97	0.47
1:B:446:ASN:HB2	1:H:432:ASN:O	2.14	0.47
1:C:160:GLU:O	1:F:169:ILE:HD13	2.12	0.47
1:D:253:PHE:HE1	1:c:548:THR:CG2	2.25	0.47
1:D:422:SER:N	1:L:447:MET:HE1	2.29	0.47
1:D:572:PRO:CG	1:s:252:PHE:CZ	2.97	0.47
1:E:105:ASP:CG	1:O:319:ARG:HH22	2.20	0.47
1:E:169:ILE:HD13	1:d:160:GLU:O	2.12	0.47
1:E:227:VAL:HG21	1:O:417:ARG:O	2.15	0.47
1:E:447:MET:HE1	1:O:422:SER:N	2.29	0.47
1:I:123:GLY:HA3	1:I:470:PRO:HB2	1.96	0.47
1:J:296:MET:HB2	1:3:193:THR:HB	1.94	0.47
1:J:354:ASN:OD1	1:7:412:GLY:O	2.33	0.47
1:J:374:HIS:HB3	1:J:379:ALA:HB3	1.97	0.47
1:J:432:ASN:O	1:3:446:ASN:HB2	2.14	0.47
1:J:446:ASN:HB2	1:7:432:ASN:O	2.14	0.47
1:L:132:GLN:NE2	1:O:554:GLN:CG	2.77	0.47
1:L:419:PHE:CD2	1:c:351:PHE:HB2	2.49	0.47
1:M:412:GLY:O	1:O:354:ASN:OD1	2.32	0.47
1:N:412:GLY:O	1:r:354:ASN:OD1	2.33	0.47
1:N:432:ASN:O	1:r:446:ASN:HB2	2.14	0.47
1:P:160:GLU:O	1:T:169:ILE:HD13	2.12	0.47
1:P:432:ASN:O	1:R:446:ASN:HB2	2.14	0.47
1:S:169:ILE:HD13	1:h:160:GLU:O	2.12	0.47
1:S:422:SER:N	1:n:447:MET:HE1	2.29	0.47
1:T:271:THR:HG22	1:T:273:GLY:H	1.78	0.47
1:U:227:VAL:HG21	1:W:417:ARG:O	2.15	0.47
1:U:319:ARG:HH22	1:f:105:ASP:CG	2.20	0.47
1:W:446:ASN:HB2	1:f:432:ASN:O	2.14	0.47
1:Y:412:GLY:O	1:2:354:ASN:OD1	2.33	0.47
1:Z:397:ALA:O	1:Z:398:ALA:C	2.56	0.47
1:a:193:THR:HB	1:2:296:MET:HB2	1.94	0.47
1:b:123:GLY:HA3	1:b:470:PRO:HB2	1.96	0.47
1:d:169:ILE:HD13	1:x:160:GLU:O	2.12	0.47
1:d:447:MET:HE1	1:r:422:SER:N	2.29	0.47
1:e:446:ASN:HB2	1:z:432:ASN:O	2.14	0.47
1:h:354:ASN:OD1	1:w:412:GLY:O	2.32	0.47
1:h:412:GLY:O	1:l:354:ASN:OD1	2.32	0.47
1:h:417:ARG:O	1:l:227:VAL:HG21	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:319:ARG:HH22	1:q:105:ASP:CG	2.20	0.47
1:j:432:ASN:O	1:q:446:ASN:HB2	2.14	0.47
1:l:319:ARG:HH22	1:w:105:ASP:CG	2.20	0.47
1:l:417:ARG:O	1:w:227:VAL:HG21	2.15	0.47
1:m:271:THR:HG22	1:m:273:GLY:H	1.78	0.47
1:p:374:HIS:HB3	1:p:379:ALA:HB3	1.97	0.47
1:s:227:VAL:HG21	1:6:417:ARG:O	2.15	0.47
1:s:446:ASN:HB2	1:6:432:ASN:O	2.14	0.47
1:v:70:LEU:HD11	1:v:202:LEU:HD22	1.97	0.47
1:y:275:TYR:HE2	1:y:277:PHE:CD1	2.32	0.47
1:1:483:HIS:HE1	1:5:462:PHE:N	2.07	0.47
1:2:160:GLU:O	1:7:169:ILE:HD13	2.12	0.47
1:2:374:HIS:HB3	1:2:379:ALA:HB3	1.97	0.47
1:3:319:ARG:HH22	1:7:105:ASP:CG	2.20	0.47
1:8:397:ALA:O	1:8:398:ALA:C	2.56	0.47
2:LA:1:NAG:H4	2:LA:2:GLA:C5	2.44	0.47
2:eA:1:NAG:H4	2:eA:2:GLA:C5	2.44	0.47
2:mA:1:NAG:H4	2:mA:2:GLA:C5	2.44	0.47
2:8A:1:NAG:H4	2:8A:2:GLA:C5	2.44	0.47
1:A:70:LEU:HD11	1:A:202:LEU:HD22	1.97	0.47
1:A:252:PHE:CZ	1:M:572:PRO:CG	2.97	0.47
1:A:422:SER:N	1:P:447:MET:HE1	2.29	0.47
1:B:275:TYR:HE2	1:B:277:PHE:CD1	2.32	0.47
1:C:419:PHE:CE2	1:I:351:PHE:HB2	2.45	0.47
1:D:109:GLN:HE21	1:c:300:ILE:CG2	2.22	0.47
1:E:132:GLN:NE2	1:r:554:GLN:CG	2.77	0.47
1:F:275:TYR:HE2	1:F:277:PHE:CD1	2.32	0.47
1:H:169:ILE:HD13	1:R:160:GLU:O	2.12	0.47
1:J:412:GLY:O	1:3:354:ASN:OD1	2.33	0.47
1:J:447:MET:HE1	1:7:422:SER:N	2.29	0.47
1:M:417:ARG:O	1:O:227:VAL:HG21	2.15	0.47
1:M:422:SER:CA	1:O:447:MET:HE1	2.44	0.47
1:M:432:ASN:O	1:O:446:ASN:HB2	2.14	0.47
1:N:417:ARG:O	1:r:227:VAL:HG21	2.15	0.47
1:P:319:ARG:HH22	1:R:105:ASP:CG	2.20	0.47
1:P:412:GLY:O	1:R:354:ASN:OD1	2.33	0.47
1:Q:572:PRO:CG	1:W:252:PHE:CZ	2.97	0.47
1:S:227:VAL:HG21	1:i:417:ARG:O	2.15	0.47
1:S:446:ASN:HB2	1:i:432:ASN:O	2.14	0.47
1:S:554:GLN:CG	1:w:132:GLN:NE2	2.77	0.47
1:V:374:HIS:HB3	1:V:379:ALA:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:422:SER:N	1:2:447:MET:HE1	2.29	0.47
1:a:354:ASN:OD1	1:2:412:GLY:O	2.33	0.47
1:a:374:HIS:HB3	1:a:379:ALA:HB3	1.97	0.47
1:a:446:ASN:HB2	1:2:432:ASN:O	2.14	0.47
1:b:105:ASP:CG	1:s:319:ARG:HH22	2.20	0.47
1:c:271:THR:HG22	1:c:273:GLY:H	1.78	0.47
1:d:123:GLY:HA3	1:d:470:PRO:HB2	1.96	0.47
1:d:132:GLN:NE2	1:p:554:GLN:CG	2.77	0.47
1:d:374:HIS:HB3	1:d:379:ALA:HB3	1.97	0.47
1:d:446:ASN:HB2	1:r:432:ASN:O	2.14	0.47
1:d:483:HIS:CB	1:r:486:ARG:NH2	2.71	0.47
1:e:227:VAL:HG21	1:z:417:ARG:O	2.15	0.47
1:e:351:PHE:HB2	1:z:419:PHE:CD2	2.49	0.47
1:e:432:ASN:O	1:k:446:ASN:HB2	2.14	0.47
1:i:275:TYR:HE2	1:i:277:PHE:CD1	2.32	0.47
1:j:275:TYR:HE2	1:j:277:PHE:CD1	2.32	0.47
1:j:351:PHE:HB2	1:v:419:PHE:CD2	2.49	0.47
1:j:412:GLY:O	1:q:354:ASN:OD1	2.33	0.47
1:l:252:PHE:CZ	1:q:572:PRO:CG	2.97	0.47
1:l:374:HIS:HB3	1:l:379:ALA:HB3	1.97	0.47
1:l:422:SER:N	1:w:447:MET:HE1	2.29	0.47
1:n:123:GLY:HA3	1:n:470:PRO:HB2	1.96	0.47
1:n:374:HIS:HB3	1:n:379:ALA:HB3	1.97	0.47
1:o:417:ARG:O	1:8:227:VAL:HG21	2.15	0.47
1:p:300:ILE:CG2	1:x:109:GLN:HE21	2.22	0.47
1:q:160:GLU:O	1:5:169:ILE:HD13	2.12	0.47
1:t:227:VAL:HG21	1:8:417:ARG:O	2.15	0.47
1:u:123:GLY:HA3	1:u:470:PRO:HB2	1.96	0.47
1:x:572:PRO:CG	1:6:252:PHE:CZ	2.97	0.47
1:y:56:GLY:C	1:y:58:GLY:N	2.69	0.47
1:y:446:ASN:HB2	1:1:432:ASN:O	2.14	0.47
1:z:374:HIS:HB3	1:z:379:ALA:HB3	1.97	0.47
1:2:70:LEU:HD11	1:2:202:LEU:HD22	1.97	0.47
1:3:374:HIS:HB3	1:3:379:ALA:HB3	1.97	0.47
2:GA:1:NAG:H4	2:GA:2:GLA:C5	2.44	0.47
2:MA:1:NAG:H4	2:MA:2:GLA:C5	2.44	0.47
2:OA:1:NAG:H4	2:OA:2:GLA:C5	2.44	0.47
2:PA:1:NAG:H4	2:PA:2:GLA:C5	2.44	0.47
2:VA:1:NAG:H4	2:VA:2:GLA:C5	2.44	0.47
2:1A:1:NAG:H4	2:1A:2:GLA:C5	2.44	0.47
2:VB:1:NAG:H4	2:VB:2:GLA:C5	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:417:ARG:O	1:P:227:VAL:HG21	2.15	0.47
1:A:432:ASN:O	1:P:446:ASN:HB2	2.14	0.47
1:B:422:SER:N	1:F:447:MET:HE1	2.29	0.47
1:C:227:VAL:HG21	1:K:417:ARG:O	2.15	0.47
1:D:123:GLY:HA3	1:D:470:PRO:HB2	1.96	0.47
1:D:419:PHE:CD2	1:L:351:PHE:HB2	2.49	0.47
1:E:263:LEU:HD12	1:L:152:ASN:HD21	1.71	0.47
1:E:275:TYR:HE2	1:E:277:PHE:CD1	2.32	0.47
1:E:354:ASN:OD1	1:O:412:GLY:O	2.32	0.47
1:F:554:GLN:CG	1:K:132:GLN:NE2	2.77	0.47
1:G:70:LEU:HD11	1:G:202:LEU:HD22	1.97	0.47
1:G:227:VAL:HG21	1:Z:417:ARG:O	2.15	0.47
1:G:422:SER:N	1:X:447:MET:HE1	2.29	0.47
1:J:70:LEU:HD11	1:J:202:LEU:HD22	1.97	0.47
1:J:422:SER:CA	1:3:447:MET:HE1	2.44	0.47
1:K:271:THR:HG22	1:K:273:GLY:H	1.78	0.47
1:L:374:HIS:HB3	1:L:379:ALA:HB3	1.97	0.47
1:L:417:ARG:O	1:c:227:VAL:HG21	2.15	0.47
1:L:432:ASN:O	1:c:446:ASN:HB2	2.14	0.47
1:M:300:ILE:CG2	1:O:109:GLN:HE21	2.23	0.47
1:N:275:TYR:HE2	1:N:277:PHE:CD1	2.32	0.47
1:N:447:MET:HE1	1:d:422:SER:N	2.29	0.47
1:O:252:PHE:CZ	1:R:572:PRO:CG	2.97	0.47
1:O:374:HIS:HB3	1:O:379:ALA:HB3	1.97	0.47
1:Q:252:PHE:CZ	1:n:572:PRO:CG	2.97	0.47
1:S:447:MET:HE1	1:i:422:SER:CA	2.44	0.47
1:V:554:GLN:CG	1:n:132:GLN:NE2	2.77	0.47
1:W:354:ASN:OD1	1:f:412:GLY:O	2.32	0.47
1:X:417:ARG:O	1:Z:227:VAL:HG21	2.15	0.47
1:X:419:PHE:CD2	1:Z:351:PHE:HB2	2.49	0.47
1:Y:432:ASN:O	1:2:446:ASN:HB2	2.14	0.47
1:b:412:GLY:O	1:6:354:ASN:OD1	2.32	0.47
1:b:432:ASN:O	1:6:446:ASN:HB2	2.14	0.47
1:e:548:THR:CG2	1:k:253:PHE:HE1	2.25	0.47
1:g:252:PHE:CZ	1:y:572:PRO:CG	2.97	0.47
1:h:300:ILE:CG2	1:l:109:GLN:HE21	2.23	0.47
1:h:432:ASN:O	1:l:446:ASN:HB2	2.14	0.47
1:h:572:PRO:CG	1:v:252:PHE:CZ	2.97	0.47
1:i:447:MET:HE1	1:n:422:SER:CA	2.44	0.47
1:j:160:GLU:O	1:m:169:ILE:HD13	2.12	0.47
1:l:412:GLY:O	1:w:354:ASN:OD1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:70:LEU:HD11	1:t:202:LEU:HD22	1.97	0.47
1:v:123:GLY:HA3	1:v:470:PRO:HB2	1.96	0.47
1:w:160:GLU:O	1:z:169:ILE:HD13	2.12	0.47
1:w:263:LEU:HD12	1:z:152:ASN:HD21	1.71	0.47
1:y:554:GLN:CG	1:4:132:GLN:NE2	2.77	0.47
1:1:446:ASN:HB2	1:5:432:ASN:O	2.14	0.47
2:gA:1:NAG:H4	2:gA:2:GLA:C5	2.44	0.47
2:vA:1:NAG:H4	2:vA:2:GLA:C5	2.44	0.47
2:2A:1:NAG:H4	2:2A:2:GLA:C5	2.44	0.47
1:A:446:ASN:HB2	1:R:432:ASN:O	2.14	0.47
1:A:554:GLN:CG	1:T:132:GLN:NE2	2.77	0.47
1:B:351:PHE:HB2	1:H:419:PHE:CD2	2.49	0.47
1:B:417:ARG:O	1:F:227:VAL:HG21	2.15	0.47
1:B:483:HIS:HE1	1:H:462:PHE:N	2.07	0.47
1:C:252:PHE:CZ	1:F:572:PRO:CG	2.97	0.47
1:C:354:ASN:OD1	1:K:412:GLY:O	2.33	0.47
1:D:446:ASN:HB2	1:c:432:ASN:O	2.14	0.47
1:D:486:ARG:NH2	1:L:483:HIS:CB	2.71	0.47
1:F:56:GLY:C	1:F:58:GLY:N	2.69	0.47
1:F:417:ARG:O	1:H:227:VAL:HG21	2.15	0.47
1:F:422:SER:CA	1:H:447:MET:HE1	2.44	0.47
1:G:419:PHE:CD2	1:X:351:PHE:HB2	2.49	0.47
1:H:123:GLY:HA3	1:H:470:PRO:HB2	1.96	0.47
1:H:271:THR:HG22	1:H:273:GLY:H	1.78	0.47
1:I:70:LEU:HD11	1:I:202:LEU:HD22	1.97	0.47
1:J:253:PHE:HE1	1:7:548:THR:CG2	2.25	0.47
1:J:319:ARG:HH22	1:3:105:ASP:CG	2.20	0.47
1:K:275:TYR:HE2	1:K:277:PHE:CD1	2.32	0.47
1:M:374:HIS:HB3	1:M:379:ALA:HB3	1.97	0.47
1:N:160:GLU:O	1:p:169:ILE:HD13	2.12	0.47
1:N:351:PHE:HB2	1:d:419:PHE:CD2	2.49	0.47
1:N:354:ASN:OD1	1:d:412:GLY:O	2.32	0.47
1:N:422:SER:CA	1:r:447:MET:HE1	2.44	0.47
1:N:447:MET:HE1	1:d:422:SER:CA	2.44	0.47
1:O:70:LEU:HD11	1:O:202:LEU:HD22	1.97	0.47
1:O:271:THR:HG22	1:O:273:GLY:H	1.78	0.47
1:P:419:PHE:CD2	1:R:351:PHE:HB2	2.49	0.47
1:Q:160:GLU:O	1:n:169:ILE:HD13	2.12	0.47
1:S:70:LEU:HD11	1:S:202:LEU:HD22	1.97	0.47
1:S:412:GLY:O	1:n:354:ASN:OD1	2.33	0.47
1:S:417:ARG:O	1:n:227:VAL:HG21	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:432:ASN:O	1:n:446:ASN:HB2	2.14	0.47
1:S:572:PRO:CG	1:h:252:PHE:CZ	2.97	0.47
1:T:419:PHE:CD2	1:V:351:PHE:HB2	2.49	0.47
1:T:548:THR:CG2	1:V:253:PHE:HE1	2.25	0.47
1:U:109:GLN:HE21	1:W:300:ILE:CG2	2.23	0.47
1:V:68:ARG:NH2	1:V:203:GLY:O	2.48	0.47
1:V:123:GLY:HA3	1:V:470:PRO:HB2	1.96	0.47
1:V:169:ILE:HD13	1:i:160:GLU:O	2.12	0.47
1:V:572:PRO:CG	1:i:252:PHE:CZ	2.97	0.47
1:W:351:PHE:HB2	1:f:419:PHE:CD2	2.49	0.47
1:X:70:LEU:HD11	1:X:202:LEU:HD22	1.97	0.47
1:X:123:GLY:HA3	1:X:470:PRO:HB2	1.96	0.47
1:a:447:MET:HE1	1:2:422:SER:CA	2.44	0.47
1:b:374:HIS:HB3	1:b:379:ALA:HB3	1.97	0.47
1:b:419:PHE:CD2	1:6:351:PHE:HB2	2.49	0.47
1:d:109:GLN:HE21	1:r:300:ILE:CG2	2.23	0.47
1:d:227:VAL:HG21	1:r:417:ARG:O	2.15	0.47
1:d:354:ASN:OD1	1:r:412:GLY:O	2.33	0.47
1:d:572:PRO:CG	1:x:252:PHE:CZ	2.97	0.47
1:e:447:MET:HE1	1:z:422:SER:CA	2.44	0.47
1:f:374:HIS:HB3	1:f:379:ALA:HB3	1.97	0.47
1:g:227:VAL:HG21	1:4:417:ARG:O	2.15	0.47
1:g:354:ASN:OD1	1:4:412:GLY:O	2.33	0.47
1:g:432:ASN:O	1:u:446:ASN:HB2	2.14	0.47
1:h:374:HIS:HB3	1:h:379:ALA:HB3	1.97	0.47
1:h:422:SER:CA	1:l:447:MET:HE1	2.44	0.47
1:i:447:MET:HE1	1:n:422:SER:N	2.29	0.47
1:j:354:ASN:OD1	1:v:412:GLY:O	2.32	0.47
1:j:419:PHE:CD2	1:q:351:PHE:HB2	2.49	0.47
1:j:446:ASN:HB2	1:v:432:ASN:O	2.14	0.47
1:k:123:GLY:HA3	1:k:470:PRO:HB2	1.96	0.47
1:k:419:PHE:CD2	1:z:351:PHE:HB2	2.49	0.47
1:l:271:THR:HG22	1:l:273:GLY:H	1.78	0.47
1:l:422:SER:CA	1:w:447:MET:HE1	2.44	0.47
1:l:486:ARG:NH2	1:w:483:HIS:CB	2.71	0.47
1:m:70:LEU:HD11	1:m:202:LEU:HD22	1.97	0.47
1:m:419:PHE:CD2	1:p:351:PHE:HB2	2.49	0.47
1:m:548:THR:CG2	1:p:253:PHE:HE1	2.25	0.47
1:o:70:LEU:HD11	1:o:202:LEU:HD22	1.97	0.47
1:o:123:GLY:HA3	1:o:470:PRO:HB2	1.96	0.47
1:o:351:PHE:HB2	1:t:419:PHE:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:419:PHE:CD2	1:8:351:PHE:HB2	2.49	0.47
1:o:432:ASN:O	1:8:446:ASN:HB2	2.14	0.47
1:o:447:MET:HE1	1:t:422:SER:N	2.29	0.47
1:p:123:GLY:HA3	1:p:470:PRO:HB2	1.96	0.47
1:q:432:ASN:O	1:v:446:ASN:HB2	2.14	0.47
1:r:70:LEU:HD11	1:r:202:LEU:HD22	1.97	0.47
1:w:275:TYR:HE2	1:w:277:PHE:CD1	2.32	0.47
1:y:227:VAL:HG21	1:1:417:ARG:O	2.15	0.47
1:y:417:ARG:O	1:5:227:VAL:HG21	2.15	0.47
1:y:422:SER:CA	1:5:447:MET:HE1	2.44	0.47
1:y:447:MET:HE1	1:1:422:SER:N	2.29	0.47
1:1:275:TYR:HE2	1:1:277:PHE:CD1	2.32	0.47
1:4:271:THR:HG22	1:4:273:GLY:H	1.78	0.47
1:4:275:TYR:HE2	1:4:277:PHE:CD1	2.32	0.47
1:5:271:THR:HG22	1:5:273:GLY:H	1.78	0.47
2:SA:1:NAG:H4	2:SA:2:GLA:C5	2.44	0.47
2:kA:1:NAG:H4	2:kA:2:GLA:C5	2.44	0.47
2:HB:1:NAG:H4	2:HB:2:GLA:C5	2.44	0.47
1:B:447:MET:HE1	1:H:422:SER:N	2.29	0.47
1:C:432:ASN:O	1:I:446:ASN:HB2	2.14	0.47
1:D:354:ASN:OD1	1:c:412:GLY:O	2.32	0.47
1:E:160:GLU:O	1:L:169:ILE:HD13	2.12	0.47
1:I:374:HIS:HB3	1:I:379:ALA:HB3	1.97	0.47
1:L:422:SER:CA	1:c:447:MET:HE1	2.44	0.47
1:M:252:PHE:CZ	1:r:572:PRO:CG	2.97	0.47
1:N:572:PRO:CG	1:S:252:PHE:CZ	2.97	0.47
1:Q:109:GLN:HE21	1:V:300:ILE:CG2	2.22	0.47
1:R:70:LEU:HD11	1:R:202:LEU:HD22	1.97	0.47
1:S:419:PHE:CD2	1:n:351:PHE:HB2	2.49	0.47
1:T:70:LEU:HD11	1:T:202:LEU:HD22	1.97	0.47
1:T:374:HIS:HB3	1:T:379:ALA:HB3	1.97	0.47
1:U:422:SER:CA	1:f:447:MET:HE1	2.44	0.47
1:Y:70:LEU:HD11	1:Y:202:LEU:HD22	1.97	0.47
1:Y:548:THR:CG2	1:2:253:PHE:HE1	2.25	0.47
1:a:227:VAL:HG21	1:2:417:ARG:O	2.15	0.47
1:e:412:GLY:O	1:k:354:ASN:OD1	2.32	0.47
1:g:447:MET:HE1	1:4:422:SER:CA	2.44	0.47
1:h:70:LEU:HD11	1:h:202:LEU:HD22	1.97	0.47
1:i:351:PHE:HB2	1:n:419:PHE:CD2	2.49	0.47
1:i:354:ASN:OD1	1:n:412:GLY:O	2.32	0.47
1:i:572:PRO:CG	1:r:252:PHE:CZ	2.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:105:ASP:CG	1:v:319:ARG:HH22	2.20	0.47
1:j:169:ILE:HD13	1:1:160:GLU:O	2.12	0.47
1:l:70:LEU:HD11	1:l:202:LEU:HD22	1.97	0.47
1:m:412:GLY:O	1:p:354:ASN:OD1	2.33	0.47
1:p:68:ARG:NH2	1:p:203:GLY:O	2.48	0.47
1:p:263:LEU:HD12	1:v:152:ASN:HD21	1.71	0.47
1:q:70:LEU:HD11	1:q:202:LEU:HD22	1.97	0.47
1:u:70:LEU:HD11	1:u:202:LEU:HD22	1.97	0.47
1:u:374:HIS:HB3	1:u:379:ALA:HB3	1.97	0.47
1:z:123:GLY:HA3	1:z:470:PRO:HB2	1.96	0.47
1:1:351:PHE:HB2	1:5:419:PHE:CD2	2.49	0.47
1:3:123:GLY:HA3	1:3:470:PRO:HB2	1.96	0.47
1:5:123:GLY:HA3	1:5:470:PRO:HB2	1.96	0.47
1:B:412:GLY:O	1:F:354:ASN:OD1	2.33	0.47
1:C:169:ILE:HD13	1:7:160:GLU:O	2.12	0.47
1:C:275:TYR:HE2	1:C:277:PHE:CD1	2.32	0.47
1:C:447:MET:HE1	1:K:422:SER:CA	2.44	0.47
1:E:447:MET:HE1	1:O:422:SER:CA	2.44	0.47
1:E:483:HIS:CB	1:O:486:ARG:NH2	2.71	0.47
1:E:572:PRO:CG	1:d:252:PHE:CZ	2.97	0.47
1:G:374:HIS:HB3	1:G:379:ALA:HB3	1.97	0.47
1:H:252:PHE:CZ	1:K:572:PRO:CG	2.97	0.47
1:H:374:HIS:HB3	1:H:379:ALA:HB3	1.97	0.47
1:J:252:PHE:CZ	1:Y:572:PRO:CG	2.97	0.47
1:J:417:ARG:O	1:3:227:VAL:HG21	2.15	0.47
1:L:70:LEU:HD11	1:L:202:LEU:HD22	1.97	0.47
1:L:123:GLY:HA3	1:L:470:PRO:HB2	1.96	0.47
1:L:422:SER:N	1:c:447:MET:HE1	2.29	0.47
1:M:70:LEU:HD11	1:M:202:LEU:HD22	1.97	0.47
1:N:252:PHE:CZ	1:p:572:PRO:CG	2.97	0.47
1:P:374:HIS:HB3	1:P:379:ALA:HB3	1.97	0.47
1:P:417:ARG:O	1:R:227:VAL:HG21	2.15	0.47
1:S:68:ARG:NH2	1:S:203:GLY:O	2.48	0.47
1:S:300:ILE:CG2	1:n:109:GLN:HE21	2.23	0.47
1:T:412:GLY:O	1:V:354:ASN:OD1	2.33	0.47
1:U:275:TYR:HE2	1:U:277:PHE:CD1	2.32	0.47
1:W:56:GLY:C	1:W:58:GLY:H	2.23	0.47
1:X:432:ASN:O	1:Z:446:ASN:HB2	2.14	0.47
1:Y:374:HIS:HB3	1:Y:379:ALA:HB3	1.97	0.47
1:Z:70:LEU:HD11	1:Z:202:LEU:HD22	1.97	0.47
1:a:123:GLY:HA3	1:a:470:PRO:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:374:HIS:HB3	1:c:379:ALA:HB3	1.97	0.47
1:d:351:PHE:HB2	1:r:419:PHE:CD2	2.49	0.47
1:e:374:HIS:HB3	1:e:379:ALA:HB3	1.97	0.47
1:g:417:ARG:O	1:u:227:VAL:HG21	2.15	0.47
1:j:56:GLY:C	1:j:58:GLY:H	2.23	0.47
1:j:374:HIS:HB3	1:j:379:ALA:HB3	1.97	0.47
1:j:417:ARG:O	1:q:227:VAL:HG21	2.15	0.47
1:k:422:SER:CA	1:z:447:MET:HE1	2.44	0.47
1:m:374:HIS:HB3	1:m:379:ALA:HB3	1.97	0.47
1:n:56:GLY:C	1:n:58:GLY:N	2.69	0.47
1:n:252:PHE:CZ	1:w:572:PRO:CG	2.97	0.47
1:o:132:GLN:NE2	1:1:554:GLN:CG	2.77	0.47
1:o:227:VAL:HG21	1:t:417:ARG:O	2.15	0.47
1:r:68:ARG:NH2	1:r:203:GLY:O	2.48	0.47
1:r:123:GLY:HA3	1:r:470:PRO:HB2	1.96	0.47
1:s:275:TYR:HE2	1:s:277:PHE:CD1	2.32	0.47
1:u:417:ARG:O	1:4:227:VAL:HG21	2.15	0.47
1:y:68:ARG:NH2	1:y:203:GLY:O	2.48	0.47
1:y:354:ASN:OD1	1:1:412:GLY:O	2.33	0.47
1:z:70:LEU:HD11	1:z:202:LEU:HD22	1.97	0.47
1:2:252:PHE:CZ	1:7:572:PRO:CG	2.97	0.47
1:4:572:PRO:CG	1:5:252:PHE:CZ	2.97	0.47
1:7:70:LEU:HD11	1:7:202:LEU:HD22	1.97	0.47
1:7:123:GLY:HA3	1:7:470:PRO:HB2	1.96	0.47
1:7:374:HIS:HB3	1:7:379:ALA:HB3	1.97	0.47
1:8:70:LEU:HD11	1:8:202:LEU:HD22	1.97	0.47
2:tA:1:NAG:H4	2:tA:2:GLA:C5	2.44	0.47
1:A:319:ARG:HH22	1:P:105:ASP:CG	2.20	0.47
1:A:412:GLY:O	1:P:354:ASN:OD1	2.33	0.47
1:B:160:GLU:O	1:P:169:ILE:HD13	2.12	0.47
1:B:447:MET:HE1	1:H:422:SER:CA	2.44	0.47
1:B:554:GLN:CG	1:X:132:GLN:NE2	2.77	0.47
1:C:68:ARG:NH2	1:C:203:GLY:O	2.48	0.47
1:C:417:ARG:O	1:I:227:VAL:HG21	2.15	0.47
1:D:422:SER:CA	1:L:447:MET:HE1	2.44	0.47
1:F:68:ARG:NH2	1:F:203:GLY:O	2.48	0.47
1:G:417:ARG:O	1:X:227:VAL:HG21	2.15	0.47
1:G:422:SER:CA	1:X:447:MET:HE1	2.44	0.47
1:K:68:ARG:NH2	1:K:203:GLY:O	2.48	0.47
1:N:227:VAL:HG21	1:d:417:ARG:O	2.15	0.47
1:P:56:GLY:C	1:P:58:GLY:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:68:ARG:NH2	1:P:203:GLY:O	2.48	0.47
1:Q:227:VAL:HG21	1:V:417:ARG:O	2.15	0.47
1:S:56:GLY:C	1:S:58:GLY:H	2.23	0.47
1:S:123:GLY:HA3	1:S:470:PRO:HB2	1.96	0.47
1:T:56:GLY:C	1:T:58:GLY:H	2.23	0.47
1:X:68:ARG:NH2	1:X:203:GLY:O	2.48	0.47
1:X:422:SER:CA	1:Z:447:MET:HE1	2.44	0.47
1:Y:123:GLY:HA3	1:Y:470:PRO:HB2	1.96	0.47
1:Y:160:GLU:O	1:g:169:ILE:HD13	2.12	0.47
1:a:105:ASP:CG	1:2:319:ARG:HH22	2.20	0.47
1:a:275:TYR:HE2	1:a:277:PHE:CD1	2.32	0.47
1:a:572:PRO:CG	1:u:252:PHE:CZ	2.97	0.47
1:b:447:MET:HE1	1:s:422:SER:CA	2.44	0.47
1:b:483:HIS:HE1	1:s:462:PHE:N	2.07	0.47
1:d:70:LEU:HD11	1:d:202:LEU:HD22	1.97	0.47
1:g:275:TYR:HE2	1:g:277:PHE:CD1	2.32	0.47
1:i:227:VAL:HG21	1:n:417:ARG:O	2.15	0.47
1:j:68:ARG:NH2	1:j:203:GLY:O	2.48	0.47
1:k:486:ARG:NH2	1:z:483:HIS:CB	2.71	0.47
1:o:68:ARG:NH2	1:o:203:GLY:O	2.48	0.47
1:o:319:ARG:HH22	1:8:105:ASP:CG	2.20	0.47
1:p:417:ARG:O	1:x:227:VAL:HG21	2.15	0.47
1:u:56:GLY:C	1:u:58:GLY:H	2.23	0.47
1:v:68:ARG:NH2	1:v:203:GLY:O	2.48	0.47
1:y:462:PHE:CB	1:5:483:HIS:HE1	2.19	0.47
1:1:447:MET:HE1	1:5:422:SER:N	2.29	0.47
1:3:275:TYR:HE2	1:3:277:PHE:CD1	2.32	0.47
1:4:68:ARG:NH2	1:4:203:GLY:O	2.48	0.47
1:4:70:LEU:HD11	1:4:202:LEU:HD22	1.97	0.47
1:4:368:ILE:HA	1:4:377:ASN:HD22	1.81	0.47
1:5:374:HIS:HB3	1:5:379:ALA:HB3	1.97	0.47
1:7:275:TYR:HE2	1:7:277:PHE:CD1	2.32	0.47
2:9:1:NAG:H4	2:9:2:GLA:C5	2.44	0.47
2:XA:1:NAG:H4	2:XA:2:GLA:C5	2.44	0.47
2:SB:1:NAG:H4	2:SB:2:GLA:C5	2.44	0.47
1:A:68:ARG:NH2	1:A:203:GLY:O	2.48	0.46
1:D:548:THR:CG2	1:L:253:PHE:HE1	2.25	0.46
1:I:56:GLY:C	1:I:58:GLY:H	2.23	0.46
1:I:252:PHE:CZ	1:3:572:PRO:CG	2.97	0.46
1:I:417:ARG:O	1:K:227:VAL:HG21	2.15	0.46
1:K:70:LEU:HD11	1:K:202:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:368:ILE:HA	1:K:377:ASN:HD22	1.81	0.46
1:L:68:ARG:NH2	1:L:203:GLY:O	2.48	0.46
1:L:412:GLY:O	1:c:354:ASN:OD1	2.33	0.46
1:R:56:GLY:C	1:R:58:GLY:H	2.23	0.46
1:W:227:VAL:HG21	1:f:417:ARG:O	2.15	0.46
1:X:319:ARG:HH22	1:Z:105:ASP:CG	2.20	0.46
1:Y:275:TYR:HE2	1:Y:277:PHE:CD1	2.32	0.46
1:Z:56:GLY:C	1:Z:58:GLY:H	2.23	0.46
1:a:253:PHE:HE1	1:2:548:THR:CG2	2.25	0.46
1:b:417:ARG:O	1:6:227:VAL:HG21	2.15	0.46
1:e:56:GLY:C	1:e:58:GLY:H	2.23	0.46
1:e:417:ARG:O	1:k:227:VAL:HG21	2.15	0.46
1:e:447:MET:HE1	1:z:422:SER:N	2.29	0.46
1:g:68:ARG:NH2	1:g:203:GLY:O	2.48	0.46
1:k:417:ARG:O	1:z:227:VAL:HG21	2.15	0.46
1:m:56:GLY:C	1:m:58:GLY:H	2.23	0.46
1:m:446:ASN:HB2	1:x:432:ASN:O	2.14	0.46
1:n:70:LEU:HD11	1:n:202:LEU:HD22	1.97	0.46
1:o:422:SER:CA	1:8:447:MET:HE1	2.44	0.46
1:t:374:HIS:HB3	1:t:379:ALA:HB3	1.97	0.46
1:z:68:ARG:NH2	1:z:203:GLY:O	2.48	0.46
1:1:354:ASN:OD1	1:5:412:GLY:O	2.33	0.46
1:1:447:MET:HE1	1:5:422:SER:CA	2.44	0.46
2:wA:1:NAG:H4	2:wA:2:GLA:C5	2.44	0.46
1:B:354:ASN:OD1	1:H:412:GLY:O	2.33	0.46
1:C:572:PRO:CG	1:7:252:PHE:CZ	2.97	0.46
1:D:227:VAL:HG21	1:c:417:ARG:O	2.15	0.46
1:D:417:ARG:O	1:L:227:VAL:HG21	2.15	0.46
1:D:432:ASN:O	1:L:446:ASN:HB2	2.14	0.46
1:G:412:GLY:O	1:X:354:ASN:OD1	2.32	0.46
1:H:275:TYR:HE2	1:H:277:PHE:CD1	2.32	0.46
1:I:68:ARG:NH2	1:I:203:GLY:O	2.48	0.46
1:L:56:GLY:C	1:L:58:GLY:H	2.23	0.46
1:N:68:ARG:NH2	1:N:203:GLY:O	2.48	0.46
1:O:68:ARG:NH2	1:O:203:GLY:O	2.48	0.46
1:Q:68:ARG:NH2	1:Q:203:GLY:O	2.48	0.46
1:Q:432:ASN:O	1:T:446:ASN:HB2	2.14	0.46
1:Y:68:ARG:NH2	1:Y:203:GLY:O	2.48	0.46
1:Y:252:PHE:CZ	1:g:572:PRO:CG	2.97	0.46
1:a:56:GLY:C	1:a:58:GLY:H	2.23	0.46
1:e:354:ASN:OD1	1:z:412:GLY:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:253:PHE:HE1	1:4:548:THR:CG2	2.25	0.46
1:i:68:ARG:NH2	1:i:203:GLY:O	2.48	0.46
1:j:70:LEU:HD11	1:j:202:LEU:HD22	1.97	0.46
1:l:68:ARG:NH2	1:l:203:GLY:O	2.48	0.46
1:o:354:ASN:OD1	1:t:412:GLY:O	2.32	0.46
1:o:447:MET:HE1	1:t:422:SER:CA	2.44	0.46
1:q:56:GLY:C	1:q:58:GLY:H	2.23	0.46
1:r:56:GLY:C	1:r:58:GLY:H	2.23	0.46
1:s:354:ASN:OD1	1:6:412:GLY:O	2.33	0.46
1:u:68:ARG:NH2	1:u:203:GLY:O	2.48	0.46
1:x:68:ARG:NH2	1:x:203:GLY:O	2.48	0.46
1:z:56:GLY:C	1:z:58:GLY:H	2.23	0.46
1:3:56:GLY:C	1:3:58:GLY:H	2.23	0.46
1:3:432:ASN:O	1:7:446:ASN:HB2	2.14	0.46
1:4:123:GLY:HA3	1:4:470:PRO:HB2	1.96	0.46
1:5:56:GLY:C	1:5:58:GLY:H	2.23	0.46
1:5:275:TYR:HE2	1:5:277:PHE:CD1	2.32	0.46
1:6:56:GLY:C	1:6:58:GLY:N	2.69	0.46
1:7:68:ARG:NH2	1:7:203:GLY:O	2.48	0.46
1:8:123:GLY:HA3	1:8:470:PRO:HB2	1.96	0.46
2:MB:1:NAG:H4	2:MB:2:GLA:C5	2.44	0.46
1:C:253:PHE:HE1	1:K:548:THR:CG2	2.25	0.46
1:C:368:ILE:HA	1:C:377:ASN:HD22	1.81	0.46
1:G:350:ASN:ND2	1:Z:453:PHE:HZ	2.14	0.46
1:G:354:ASN:OD1	1:Z:412:GLY:O	2.32	0.46
1:H:56:GLY:C	1:H:58:GLY:H	2.23	0.46
1:K:123:GLY:HA3	1:K:470:PRO:HB2	1.96	0.46
1:M:368:ILE:HA	1:M:377:ASN:HD22	1.81	0.46
1:P:70:LEU:HD11	1:P:202:LEU:HD22	1.97	0.46
1:Q:412:GLY:O	1:T:354:ASN:OD1	2.33	0.46
1:S:374:HIS:HB3	1:S:379:ALA:HB3	1.97	0.46
1:U:354:ASN:OD1	1:W:412:GLY:O	2.33	0.46
1:V:210:THR:HG22	1:V:211:ALA:N	2.31	0.46
1:Z:123:GLY:HA3	1:Z:470:PRO:HB2	1.96	0.46
1:b:227:VAL:HG21	1:s:417:ARG:O	2.15	0.46
1:c:56:GLY:C	1:c:58:GLY:H	2.23	0.46
1:d:129:SER:OG	1:p:548:THR:O	2.30	0.46
1:h:227:VAL:HG21	1:w:417:ARG:O	2.15	0.46
1:k:432:ASN:O	1:z:446:ASN:HB2	2.14	0.46
1:m:354:ASN:OD1	1:x:412:GLY:O	2.33	0.46
1:q:374:HIS:HB3	1:q:379:ALA:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:374:HIS:HB3	1:r:379:ALA:HB3	1.97	0.46
1:s:68:ARG:NH2	1:s:203:GLY:O	2.48	0.46
1:t:350:ASN:ND2	1:8:453:PHE:HZ	2.14	0.46
1:t:354:ASN:OD1	1:8:412:GLY:O	2.32	0.46
1:y:300:ILE:CG2	1:5:109:GLN:HE21	2.22	0.46
1:3:210:THR:HG22	1:3:211:ALA:N	2.31	0.46
1:A:152:ASN:HD21	1:V:263:LEU:HD12	1.71	0.46
1:A:422:SER:CA	1:P:447:MET:HE1	2.44	0.46
1:C:56:GLY:C	1:C:58:GLY:H	2.23	0.46
1:C:350:ASN:ND2	1:K:453:PHE:HZ	2.14	0.46
1:C:548:THR:CG2	1:I:253:PHE:HE1	2.25	0.46
1:D:374:HIS:HB3	1:D:379:ALA:HB3	1.97	0.46
1:D:412:GLY:O	1:L:354:ASN:OD1	2.33	0.46
1:E:210:THR:HG22	1:E:211:ALA:N	2.31	0.46
1:E:368:ILE:HA	1:E:377:ASN:HD22	1.81	0.46
1:E:417:ARG:O	1:M:227:VAL:HG21	2.15	0.46
1:F:300:ILE:CG2	1:H:109:GLN:HE21	2.22	0.46
1:G:56:GLY:C	1:G:58:GLY:H	2.23	0.46
1:H:210:THR:HG22	1:H:211:ALA:N	2.31	0.46
1:K:56:GLY:C	1:K:58:GLY:H	2.23	0.46
1:Q:354:ASN:OD1	1:V:412:GLY:O	2.33	0.46
1:Q:374:HIS:HB3	1:Q:379:ALA:HB3	1.97	0.46
1:R:374:HIS:HB3	1:R:379:ALA:HB3	1.97	0.46
1:S:82:ARG:NH1	1:S:108:GLN:NE2	2.64	0.46
1:S:548:THR:CG2	1:n:253:PHE:HE1	2.25	0.46
1:U:68:ARG:NH2	1:U:203:GLY:O	2.48	0.46
1:U:82:ARG:NH1	1:U:108:GLN:HE22	2.14	0.46
1:U:417:ARG:O	1:f:227:VAL:HG21	2.15	0.46
1:U:462:PHE:N	1:f:483:HIS:HE1	2.07	0.46
1:Y:446:ASN:HB2	1:a:432:ASN:O	2.14	0.46
1:a:68:ARG:NH2	1:a:203:GLY:O	2.48	0.46
1:a:210:THR:HG22	1:a:211:ALA:N	2.31	0.46
1:b:68:ARG:NH2	1:b:203:GLY:O	2.48	0.46
1:c:68:ARG:NH2	1:c:203:GLY:O	2.48	0.46
1:d:253:PHE:HE1	1:r:548:THR:CG2	2.25	0.46
1:f:68:ARG:NH2	1:f:203:GLY:O	2.48	0.46
1:g:350:ASN:ND2	1:4:453:PHE:HZ	2.14	0.46
1:g:368:ILE:HA	1:g:377:ASN:HD22	1.81	0.46
1:h:368:ILE:HA	1:h:377:ASN:HD22	1.81	0.46
1:i:123:GLY:HA3	1:i:470:PRO:HB2	1.96	0.46
1:i:350:ASN:ND2	1:n:453:PHE:HZ	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:486:ARG:NH2	1:q:483:HIS:CB	2.71	0.46
1:k:374:HIS:HB3	1:k:379:ALA:HB3	1.97	0.46
1:k:548:THR:CG2	1:z:253:PHE:HE1	2.25	0.46
1:p:210:THR:HG22	1:p:211:ALA:N	2.31	0.46
1:p:368:ILE:HA	1:p:377:ASN:HD22	1.81	0.46
1:p:412:GLY:O	1:x:354:ASN:OD1	2.33	0.46
1:r:82:ARG:NH1	1:r:108:GLN:NE2	2.64	0.46
1:r:210:THR:HG22	1:r:211:ALA:N	2.31	0.46
1:t:56:GLY:C	1:t:58:GLY:H	2.23	0.46
1:w:68:ARG:NH2	1:w:203:GLY:O	2.48	0.46
1:w:368:ILE:HA	1:w:377:ASN:HD22	1.81	0.46
1:x:374:HIS:HB3	1:x:379:ALA:HB3	1.97	0.46
1:3:68:ARG:NH2	1:3:203:GLY:O	2.48	0.46
1:4:56:GLY:C	1:4:58:GLY:H	2.23	0.46
1:8:56:GLY:C	1:8:58:GLY:H	2.23	0.46
1:C:374:HIS:HB3	1:C:379:ALA:HB3	1.97	0.46
1:E:70:LEU:HD11	1:E:202:LEU:HD22	1.97	0.46
1:E:453:PHE:HZ	1:M:350:ASN:ND2	2.14	0.46
1:F:462:PHE:CB	1:H:483:HIS:HE1	2.19	0.46
1:H:82:ARG:NH1	1:H:108:GLN:HE22	2.14	0.46
1:J:56:GLY:C	1:J:58:GLY:H	2.23	0.46
1:L:82:ARG:NH1	1:L:108:GLN:NE2	2.64	0.46
1:M:462:PHE:N	1:O:483:HIS:HE1	2.07	0.46
1:N:123:GLY:HA3	1:N:470:PRO:HB2	1.96	0.46
1:N:350:ASN:ND2	1:d:453:PHE:HZ	2.14	0.46
1:S:210:THR:HG22	1:S:211:ALA:N	2.31	0.46
1:U:82:ARG:NH1	1:U:108:GLN:NE2	2.64	0.46
1:U:368:ILE:HA	1:U:377:ASN:HD22	1.81	0.46
1:U:483:HIS:HE1	1:W:462:PHE:N	2.07	0.46
1:V:368:ILE:HA	1:V:377:ASN:HD22	1.81	0.46
1:Y:227:VAL:HG21	1:a:417:ARG:O	2.15	0.46
1:Y:483:HIS:CB	1:a:486:ARG:NH2	2.71	0.46
1:Z:68:ARG:NH2	1:Z:203:GLY:O	2.48	0.46
1:b:70:LEU:HD11	1:b:202:LEU:HD22	1.97	0.46
1:d:68:ARG:NH2	1:d:203:GLY:O	2.48	0.46
1:e:68:ARG:NH2	1:e:203:GLY:O	2.48	0.46
1:g:374:HIS:HB3	1:g:379:ALA:HB3	1.97	0.46
1:h:350:ASN:ND2	1:w:453:PHE:HZ	2.14	0.46
1:j:447:MET:HE1	1:v:422:SER:CA	2.44	0.46
1:k:412:GLY:O	1:z:354:ASN:OD1	2.33	0.46
1:m:417:ARG:O	1:p:227:VAL:HG21	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:68:ARG:NH2	1:n:203:GLY:O	2.48	0.46
1:q:68:ARG:NH2	1:q:203:GLY:O	2.48	0.46
1:s:82:ARG:NH1	1:s:108:GLN:HE22	2.14	0.46
1:s:82:ARG:NH1	1:s:108:GLN:NE2	2.64	0.46
1:s:368:ILE:HA	1:s:377:ASN:HD22	1.81	0.46
1:w:210:THR:HG22	1:w:211:ALA:N	2.31	0.46
1:z:82:ARG:NH1	1:z:108:GLN:NE2	2.64	0.46
1:3:417:ARG:O	1:7:227:VAL:HG21	2.15	0.46
1:5:82:ARG:NH1	1:5:108:GLN:HE22	2.14	0.46
1:5:210:THR:HG22	1:5:211:ALA:N	2.31	0.46
1:8:68:ARG:NH2	1:8:203:GLY:O	2.48	0.46
1:E:68:ARG:NH2	1:E:203:GLY:O	2.48	0.46
1:E:82:ARG:NH1	1:E:108:GLN:NE2	2.64	0.46
1:F:319:ARG:HH22	1:H:105:ASP:CG	2.20	0.46
1:L:82:ARG:NH1	1:L:108:GLN:HE22	2.14	0.46
1:L:437:ARG:HA	1:L:449:TYR:HE2	1.81	0.46
1:N:263:LEU:HD12	1:p:152:ASN:HD21	1.71	0.46
1:N:483:HIS:CB	1:d:486:ARG:NH2	2.71	0.46
1:O:82:ARG:NH1	1:O:108:GLN:HE22	2.14	0.46
1:Q:265:ARG:HG3	1:n:42:SER:HG	1.78	0.46
1:S:82:ARG:NH1	1:S:108:GLN:HE22	2.14	0.46
1:T:417:ARG:O	1:V:227:VAL:HG21	2.15	0.46
1:V:82:ARG:NH1	1:V:108:GLN:NE2	2.64	0.46
1:Y:82:ARG:NH1	1:Y:108:GLN:HE22	2.14	0.46
1:e:265:ARG:HG3	1:l:42:SER:HG	1.77	0.46
1:g:56:GLY:C	1:g:58:GLY:H	2.23	0.46
1:i:368:ILE:HA	1:i:377:ASN:HD22	1.81	0.46
1:k:82:ARG:NH1	1:k:108:GLN:NE2	2.64	0.46
1:m:368:ILE:HA	1:m:377:ASN:HD22	1.81	0.46
1:o:368:ILE:HA	1:o:377:ASN:HD22	1.81	0.46
1:p:82:ARG:NH1	1:p:108:GLN:NE2	2.64	0.46
1:p:432:ASN:O	1:x:446:ASN:HB2	2.14	0.46
1:w:70:LEU:HD11	1:w:202:LEU:HD22	1.97	0.46
1:w:82:ARG:NH1	1:w:108:GLN:NE2	2.64	0.46
1:z:82:ARG:NH1	1:z:108:GLN:HE22	2.14	0.46
1:1:82:ARG:NH1	1:1:108:GLN:NE2	2.64	0.46
1:2:56:GLY:C	1:2:58:GLY:H	2.23	0.46
1:2:210:THR:HG22	1:2:211:ALA:N	2.31	0.46
1:3:486:ARG:NH2	1:7:483:HIS:CB	2.71	0.46
1:5:68:ARG:NH2	1:5:203:GLY:O	2.48	0.46
1:8:374:HIS:HB3	1:8:379:ALA:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:ILE:HA	1:A:377:ASN:HD22	1.81	0.46
1:A:483:HIS:HE1	1:R:462:PHE:CA	2.27	0.46
1:A:548:THR:CG2	1:P:253:PHE:HE1	2.25	0.46
1:B:82:ARG:NH1	1:B:108:GLN:NE2	2.64	0.46
1:B:227:VAL:HG21	1:H:417:ARG:O	2.15	0.46
1:D:82:ARG:NH1	1:D:108:GLN:NE2	2.64	0.46
1:E:437:ARG:HA	1:E:449:TYR:HE2	1.81	0.46
1:F:82:ARG:NH1	1:F:108:GLN:NE2	2.64	0.46
1:F:374:HIS:HB3	1:F:379:ALA:HB3	1.97	0.46
1:H:68:ARG:NH2	1:H:203:GLY:O	2.48	0.46
1:H:437:ARG:HA	1:H:449:TYR:HE2	1.81	0.46
1:J:437:ARG:HA	1:J:449:TYR:HE2	1.81	0.46
1:K:437:ARG:HA	1:K:449:TYR:HE2	1.81	0.46
1:M:56:GLY:C	1:M:58:GLY:H	2.23	0.46
1:M:68:ARG:NH2	1:M:203:GLY:O	2.48	0.46
1:N:368:ILE:HA	1:N:377:ASN:HD22	1.81	0.46
1:O:56:GLY:C	1:O:58:GLY:H	2.23	0.46
1:P:486:ARG:NH2	1:R:483:HIS:CB	2.71	0.46
1:Q:350:ASN:ND2	1:V:453:PHE:HZ	2.14	0.46
1:Q:446:ASN:HB2	1:V:432:ASN:O	2.14	0.46
1:R:68:ARG:NH2	1:R:203:GLY:O	2.48	0.46
1:S:368:ILE:HA	1:S:377:ASN:HD22	1.81	0.46
1:T:123:GLY:HA3	1:T:470:PRO:HB2	1.96	0.46
1:U:56:GLY:C	1:U:58:GLY:H	2.23	0.46
1:V:70:LEU:HD11	1:V:202:LEU:HD22	1.97	0.46
1:V:437:ARG:HA	1:V:449:TYR:HE2	1.81	0.46
1:W:68:ARG:NH2	1:W:203:GLY:O	2.48	0.46
1:X:368:ILE:HA	1:X:377:ASN:HD22	1.81	0.46
1:Z:374:HIS:HB3	1:Z:379:ALA:HB3	1.97	0.46
1:d:82:ARG:NH1	1:d:108:GLN:HE22	2.14	0.46
1:d:437:ARG:HA	1:d:449:TYR:HE2	1.81	0.46
1:e:350:ASN:ND2	1:z:453:PHE:HZ	2.14	0.46
1:f:70:LEU:HD11	1:f:202:LEU:HD22	1.97	0.46
1:f:437:ARG:HA	1:f:449:TYR:HE2	1.81	0.46
1:g:548:THR:CG2	1:u:253:PHE:HE1	2.25	0.46
1:l:56:GLY:C	1:l:58:GLY:H	2.23	0.46
1:l:82:ARG:NH1	1:l:108:GLN:HE22	2.14	0.46
1:m:123:GLY:HA3	1:m:470:PRO:HB2	1.96	0.46
1:n:82:ARG:NH1	1:n:108:GLN:HE22	2.14	0.46
1:n:437:ARG:HA	1:n:449:TYR:HE2	1.81	0.46
1:o:437:ARG:HA	1:o:449:TYR:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:70:LEU:HD11	1:p:202:LEU:HD22	1.97	0.46
1:p:437:ARG:HA	1:p:449:TYR:HE2	1.81	0.46
1:q:462:PHE:CB	1:v:483:HIS:HE1	2.19	0.46
1:r:82:ARG:NH1	1:r:108:GLN:HE22	2.14	0.46
1:r:368:ILE:HA	1:r:377:ASN:HD22	1.81	0.46
1:s:56:GLY:C	1:s:58:GLY:H	2.23	0.46
1:s:374:HIS:HB3	1:s:379:ALA:HB3	1.97	0.46
1:y:319:ARG:HH22	1:5:105:ASP:CG	2.20	0.46
1:y:374:HIS:HB3	1:y:379:ALA:HB3	1.97	0.46
1:z:437:ARG:HA	1:z:449:TYR:HE2	1.81	0.46
1:2:68:ARG:NH2	1:2:203:GLY:O	2.48	0.46
1:2:437:ARG:HA	1:2:449:TYR:HE2	1.81	0.46
1:7:82:ARG:NH1	1:7:108:GLN:HE22	2.14	0.46
1:8:437:ARG:HA	1:8:449:TYR:HE2	1.81	0.46
1:A:374:HIS:HB3	1:A:379:ALA:HB3	1.97	0.46
1:B:56:GLY:C	1:B:58:GLY:H	2.23	0.46
1:B:68:ARG:NH2	1:B:203:GLY:O	2.48	0.46
1:D:453:PHE:HZ	1:L:350:ASN:ND2	2.14	0.46
1:E:56:GLY:C	1:E:58:GLY:H	2.23	0.46
1:F:548:THR:CG2	1:H:253:PHE:HE1	2.25	0.46
1:G:68:ARG:NH2	1:G:203:GLY:O	2.48	0.46
1:G:437:ARG:HA	1:G:449:TYR:HE2	1.81	0.46
1:I:82:ARG:NH1	1:I:108:GLN:HE22	2.14	0.46
1:I:412:GLY:O	1:K:354:ASN:OD1	2.33	0.46
1:J:68:ARG:NH2	1:J:203:GLY:O	2.48	0.46
1:J:210:THR:HG22	1:J:211:ALA:N	2.31	0.46
1:N:210:THR:HG22	1:N:211:ALA:N	2.31	0.46
1:T:368:ILE:HA	1:T:377:ASN:HD22	1.81	0.46
1:U:374:HIS:HB3	1:U:379:ALA:HB3	1.97	0.46
1:W:101:MET:HE2	1:W:101:MET:HB2	1.89	0.46
1:X:437:ARG:HA	1:X:449:TYR:HE2	1.81	0.46
1:Z:437:ARG:HA	1:Z:449:TYR:HE2	1.81	0.46
1:b:437:ARG:HA	1:b:449:TYR:HE2	1.81	0.46
1:d:82:ARG:NH1	1:d:108:GLN:NE2	2.64	0.46
1:g:82:ARG:NH1	1:g:108:GLN:NE2	2.64	0.46
1:h:68:ARG:NH2	1:h:203:GLY:O	2.48	0.46
1:h:319:ARG:HH22	1:l:105:ASP:CG	2.20	0.46
1:h:462:PHE:N	1:l:483:HIS:HE1	2.07	0.46
1:i:70:LEU:HD11	1:i:202:LEU:HD22	1.97	0.46
1:i:483:HIS:CB	1:n:486:ARG:NH2	2.71	0.46
1:j:210:THR:HG22	1:j:211:ALA:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:253:PHE:HE1	1:v:548:THR:CG2	2.25	0.46
1:n:56:GLY:C	1:n:58:GLY:H	2.23	0.46
1:q:417:ARG:O	1:v:227:VAL:HG21	2.15	0.46
1:t:68:ARG:NH2	1:t:203:GLY:O	2.48	0.46
1:t:368:ILE:HA	1:t:377:ASN:HD22	1.81	0.46
1:t:437:ARG:HA	1:t:449:TYR:HE2	1.81	0.46
1:u:82:ARG:NH1	1:u:108:GLN:HE22	2.14	0.46
1:v:368:ILE:HA	1:v:377:ASN:HD22	1.81	0.46
1:w:56:GLY:C	1:w:58:GLY:H	2.23	0.46
1:w:437:ARG:HA	1:w:449:TYR:HE2	1.81	0.46
1:y:82:ARG:NH1	1:y:108:GLN:NE2	2.64	0.46
1:4:374:HIS:HB3	1:4:379:ALA:HB3	1.97	0.46
1:4:437:ARG:HA	1:4:449:TYR:HE2	1.81	0.46
1:5:437:ARG:HA	1:5:449:TYR:HE2	1.81	0.46
1:6:437:ARG:HA	1:6:449:TYR:HE2	1.81	0.46
1:A:227:VAL:HG21	1:R:417:ARG:O	2.15	0.46
1:B:210:THR:HG22	1:B:211:ALA:N	2.31	0.46
1:C:82:ARG:NH1	1:C:108:GLN:NE2	2.64	0.46
1:E:82:ARG:NH1	1:E:108:GLN:HE22	2.14	0.46
1:F:123:GLY:HA3	1:F:470:PRO:HB2	1.96	0.46
1:G:368:ILE:HA	1:G:377:ASN:HD22	1.81	0.46
1:I:422:SER:CA	1:K:447:MET:HE1	2.44	0.46
1:J:82:ARG:NH1	1:J:108:GLN:HE22	2.14	0.46
1:K:82:ARG:NH1	1:K:108:GLN:NE2	2.64	0.46
1:K:210:THR:HG22	1:K:211:ALA:N	2.31	0.46
1:K:374:HIS:HB3	1:K:379:ALA:HB3	1.97	0.46
1:N:70:LEU:HD11	1:N:202:LEU:HD22	1.97	0.46
1:P:210:THR:HG22	1:P:211:ALA:N	2.31	0.46
1:V:152:ASN:HD21	1:i:263:LEU:HD12	1.71	0.46
1:W:82:ARG:NH1	1:W:108:GLN:NE2	2.64	0.46
1:W:437:ARG:HA	1:W:449:TYR:HE2	1.81	0.46
1:X:82:ARG:NH1	1:X:108:GLN:HE22	2.14	0.46
1:Z:82:ARG:NH1	1:Z:108:GLN:NE2	2.64	0.46
1:d:56:GLY:C	1:d:58:GLY:H	2.23	0.46
1:h:56:GLY:C	1:h:58:GLY:H	2.23	0.46
1:i:210:THR:HG22	1:i:211:ALA:N	2.31	0.46
1:i:374:HIS:HB3	1:i:379:ALA:HB3	1.97	0.46
1:k:68:ARG:NH2	1:k:203:GLY:O	2.48	0.46
1:k:453:PHE:HZ	1:z:350:ASN:ND2	2.14	0.46
1:n:82:ARG:NH1	1:n:108:GLN:NE2	2.64	0.46
1:o:82:ARG:NH1	1:o:108:GLN:HE22	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:453:PHE:HZ	1:x:350:ASN:ND2	2.14	0.46
1:q:462:PHE:CA	1:v:483:HIS:HE1	2.27	0.46
1:r:437:ARG:HA	1:r:449:TYR:HE2	1.81	0.46
1:s:483:HIS:HE1	1:6:462:PHE:N	2.07	0.46
1:u:462:PHE:CB	1:4:483:HIS:HE1	2.19	0.46
1:y:123:GLY:HA3	1:y:470:PRO:HB2	1.96	0.46
1:1:210:THR:HG22	1:1:211:ALA:N	2.31	0.46
1:1:227:VAL:HG21	1:5:417:ARG:O	2.15	0.46
1:2:82:ARG:NH1	1:2:108:GLN:HE22	2.14	0.46
1:4:82:ARG:NH1	1:4:108:GLN:NE2	2.64	0.46
1:5:101:MET:HE2	1:5:101:MET:HB2	1.89	0.46
1:6:68:ARG:NH2	1:6:203:GLY:O	2.48	0.46
1:6:82:ARG:NH1	1:6:108:GLN:NE2	2.64	0.46
1:6:101:MET:HE2	1:6:101:MET:HB2	1.89	0.46
1:A:483:HIS:HE1	1:R:462:PHE:CB	2.19	0.46
1:C:319:ARG:HH22	1:I:105:ASP:CG	2.20	0.46
1:H:82:ARG:NH1	1:H:108:GLN:NE2	2.64	0.46
1:N:374:HIS:HB3	1:N:379:ALA:HB3	1.97	0.46
1:N:437:ARG:HA	1:N:449:TYR:HE2	1.81	0.46
1:P:82:ARG:NH1	1:P:108:GLN:HE22	2.14	0.46
1:Q:437:ARG:HA	1:Q:449:TYR:HE2	1.81	0.46
1:R:210:THR:HG22	1:R:211:ALA:N	2.31	0.46
1:R:368:ILE:HA	1:R:377:ASN:HD22	1.81	0.46
1:T:82:ARG:NH1	1:T:108:GLN:NE2	2.64	0.46
1:X:210:THR:HG22	1:X:211:ALA:N	2.31	0.46
1:X:453:PHE:HZ	1:Z:350:ASN:ND2	2.14	0.46
1:Y:56:GLY:C	1:Y:58:GLY:H	2.23	0.46
1:a:437:ARG:HA	1:a:449:TYR:HE2	1.81	0.46
1:b:56:GLY:C	1:b:58:GLY:H	2.23	0.46
1:g:437:ARG:HA	1:g:449:TYR:HE2	1.81	0.46
1:j:82:ARG:NH1	1:j:108:GLN:HE22	2.14	0.46
1:k:70:LEU:HD11	1:k:202:LEU:HD22	1.97	0.46
1:m:82:ARG:NH1	1:m:108:GLN:NE2	2.64	0.46
1:n:368:ILE:HA	1:n:377:ASN:HD22	1.81	0.46
1:o:82:ARG:NH1	1:o:108:GLN:NE2	2.64	0.46
1:p:56:GLY:C	1:p:58:GLY:H	2.23	0.46
1:q:210:THR:HG22	1:q:211:ALA:N	2.31	0.46
1:q:368:ILE:HA	1:q:377:ASN:HD22	1.81	0.46
1:t:82:ARG:NH1	1:t:108:GLN:HE22	2.14	0.46
1:u:412:GLY:O	1:4:354:ASN:OD1	2.33	0.46
1:u:422:SER:CA	1:4:447:MET:HE1	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:374:HIS:HB3	1:v:379:ALA:HB3	1.97	0.46
1:w:82:ARG:NH1	1:w:108:GLN:HE22	2.14	0.46
1:y:548:THR:CG2	1:5:253:PHE:HE1	2.25	0.46
1:z:210:THR:HG22	1:z:211:ALA:N	2.31	0.46
1:1:68:ARG:NH2	1:1:203:GLY:O	2.48	0.46
1:4:210:THR:HG22	1:4:211:ALA:N	2.31	0.46
1:5:82:ARG:NH1	1:5:108:GLN:NE2	2.64	0.46
1:6:70:LEU:HD11	1:6:202:LEU:HD22	1.97	0.46
1:7:56:GLY:C	1:7:58:GLY:H	2.23	0.46
1:8:82:ARG:NH1	1:8:108:GLN:NE2	2.64	0.46
1:A:210:THR:HG22	1:A:211:ALA:N	2.31	0.45
1:A:572:PRO:HG3	1:V:252:PHE:CZ	2.51	0.45
1:B:252:PHE:CZ	1:P:572:PRO:HG3	2.52	0.45
1:B:368:ILE:HA	1:B:377:ASN:HD22	1.81	0.45
1:B:437:ARG:HA	1:B:449:TYR:HE2	1.81	0.45
1:C:437:ARG:HA	1:C:449:TYR:HE2	1.81	0.45
1:C:589:PRO:HG2	1:I:251:GLN:HE21	1.82	0.45
1:D:68:ARG:NH2	1:D:203:GLY:O	2.48	0.45
1:G:82:ARG:NH1	1:G:108:GLN:NE2	2.64	0.45
1:G:82:ARG:NH1	1:G:108:GLN:HE22	2.14	0.45
1:J:572:PRO:HG3	1:o:252:PHE:CZ	2.52	0.45
1:L:210:THR:HG22	1:L:211:ALA:N	2.31	0.45
1:M:82:ARG:NH1	1:M:108:GLN:HE22	2.14	0.45
1:N:483:HIS:HE1	1:d:462:PHE:CA	2.27	0.45
1:N:572:PRO:HG3	1:S:252:PHE:CZ	2.52	0.45
1:Q:82:ARG:NH1	1:Q:108:GLN:HE22	2.14	0.45
1:Q:210:THR:HG22	1:Q:211:ALA:N	2.31	0.45
1:S:437:ARG:HA	1:S:449:TYR:HE2	1.81	0.45
1:V:56:GLY:C	1:V:58:GLY:H	2.23	0.45
1:W:70:LEU:HD11	1:W:202:LEU:HD22	1.97	0.45
1:X:82:ARG:NH1	1:X:108:GLN:NE2	2.64	0.45
1:X:374:HIS:HB3	1:X:379:ALA:HB3	1.97	0.45
1:Z:210:THR:HG22	1:Z:211:ALA:N	2.31	0.45
1:b:556:THR:CG2	1:x:556:THR:CG2	2.68	0.45
1:c:70:LEU:HD11	1:c:202:LEU:HD22	1.97	0.45
1:c:368:ILE:HA	1:c:377:ASN:HD22	1.81	0.45
1:d:101:MET:HE2	1:d:101:MET:HB2	1.89	0.45
1:e:368:ILE:HA	1:e:377:ASN:HD22	1.81	0.45
1:f:56:GLY:C	1:f:58:GLY:H	2.23	0.45
1:g:589:PRO:HG2	1:u:251:GLN:HE21	1.82	0.45
1:h:82:ARG:NH1	1:h:108:GLN:HE22	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:437:ARG:HA	1:i:449:TYR:HE2	1.81	0.45
1:i:483:HIS:HE1	1:n:462:PHE:CA	2.27	0.45
1:i:572:PRO:HG3	1:r:252:PHE:CZ	2.52	0.45
1:j:572:PRO:HG3	1:1:252:PHE:CZ	2.52	0.45
1:l:82:ARG:NH1	1:l:108:GLN:NE2	2.64	0.45
1:m:68:ARG:NH2	1:m:203:GLY:O	2.48	0.45
1:o:210:THR:HG22	1:o:211:ALA:N	2.31	0.45
1:o:453:PHE:HZ	1:8:350:ASN:ND2	2.14	0.45
1:o:483:HIS:HE1	1:t:462:PHE:N	2.07	0.45
1:p:82:ARG:NH1	1:p:108:GLN:HE22	2.14	0.45
1:t:82:ARG:NH1	1:t:108:GLN:NE2	2.64	0.45
1:v:56:GLY:C	1:v:58:GLY:H	2.23	0.45
1:v:210:THR:HG22	1:v:211:ALA:N	2.31	0.45
1:x:210:THR:HG22	1:x:211:ALA:N	2.31	0.45
1:x:437:ARG:HA	1:x:449:TYR:HE2	1.81	0.45
1:1:368:ILE:HA	1:1:377:ASN:HD22	1.81	0.45
1:3:437:ARG:HA	1:3:449:TYR:HE2	1.81	0.45
1:8:210:THR:HG22	1:8:211:ALA:N	2.31	0.45
1:A:352:GLU:OE2	1:R:413:ARG:NE	2.50	0.45
1:B:82:ARG:NH1	1:B:108:GLN:HE22	2.14	0.45
1:C:210:THR:HG22	1:C:211:ALA:N	2.31	0.45
1:D:70:LEU:HD11	1:D:202:LEU:HD22	1.97	0.45
1:G:462:PHE:N	1:X:483:HIS:HE1	2.07	0.45
1:I:462:PHE:CB	1:K:483:HIS:HE1	2.19	0.45
1:N:82:ARG:NH1	1:N:108:GLN:NE2	2.64	0.45
1:O:82:ARG:NH1	1:O:108:GLN:NE2	2.64	0.45
1:Q:82:ARG:NH1	1:Q:108:GLN:NE2	2.64	0.45
1:R:82:ARG:NH1	1:R:108:GLN:NE2	2.64	0.45
1:V:82:ARG:NH1	1:V:108:GLN:HE22	2.14	0.45
1:W:210:THR:HG22	1:W:211:ALA:N	2.31	0.45
1:X:252:PHE:CZ	1:2:572:PRO:HG3	2.52	0.45
1:Y:368:ILE:HA	1:Y:377:ASN:HD22	1.81	0.45
1:a:368:ILE:HA	1:a:377:ASN:HD22	1.81	0.45
1:b:462:PHE:H	1:6:483:HIS:HE1	1.59	0.45
1:d:368:ILE:HA	1:d:377:ASN:HD22	1.81	0.45
1:e:70:LEU:HD11	1:e:202:LEU:HD22	1.97	0.45
1:g:210:THR:HG22	1:g:211:ALA:N	2.31	0.45
1:i:82:ARG:NH1	1:i:108:GLN:HE22	2.14	0.45
1:o:374:HIS:HB3	1:o:379:ALA:HB3	1.97	0.45
1:p:252:PHE:CZ	1:v:572:PRO:HG3	2.52	0.45
1:q:82:ARG:NH1	1:q:108:GLN:NE2	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:82:ARG:NH1	1:x:108:GLN:NE2	2.64	0.45
1:x:82:ARG:NH1	1:x:108:GLN:HE22	2.14	0.45
1:1:56:GLY:C	1:1:58:GLY:H	2.23	0.45
1:1:82:ARG:NH1	1:1:108:GLN:HE22	2.14	0.45
1:A:56:GLY:C	1:A:58:GLY:H	2.23	0.45
1:A:105:ASP:CG	1:R:319:ARG:HH22	2.20	0.45
1:D:252:PHE:CZ	1:I:572:PRO:HG3	2.52	0.45
1:G:352:GLU:OE2	1:Z:413:ARG:NE	2.50	0.45
1:G:589:PRO:HG2	1:X:251:GLN:HE21	1.82	0.45
1:J:152:ASN:HD21	1:o:263:LEU:HD12	1.71	0.45
1:J:368:ILE:HA	1:J:377:ASN:HD22	1.81	0.45
1:N:483:HIS:HE1	1:d:462:PHE:N	2.07	0.45
1:Q:251:GLN:HE21	1:V:589:PRO:HG2	1.82	0.45
1:T:68:ARG:NH2	1:T:203:GLY:O	2.48	0.45
1:T:82:ARG:NH1	1:T:108:GLN:HE22	2.14	0.45
1:X:589:PRO:HG2	1:Z:251:GLN:HE21	1.82	0.45
1:Z:572:PRO:HG3	1:f:252:PHE:CZ	2.52	0.45
1:e:572:PRO:HG3	1:4:252:PHE:CZ	2.52	0.45
1:h:210:THR:HG22	1:h:211:ALA:N	2.31	0.45
1:i:82:ARG:NH1	1:i:108:GLN:NE2	2.64	0.45
1:k:252:PHE:CZ	1:u:572:PRO:HG3	2.52	0.45
1:m:319:ARG:HH22	1:p:105:ASP:CG	2.20	0.45
1:n:101:MET:HE2	1:n:101:MET:HB2	1.89	0.45
1:o:56:GLY:C	1:o:58:GLY:H	2.23	0.45
1:o:251:GLN:HE21	1:t:589:PRO:HG2	1.82	0.45
1:p:589:PRO:HG2	1:x:251:GLN:HE21	1.82	0.45
1:q:319:ARG:HH22	1:v:105:ASP:CG	2.20	0.45
1:q:413:ARG:NE	1:v:352:GLU:OE2	2.50	0.45
1:s:70:LEU:HD11	1:s:202:LEU:HD22	1.97	0.45
1:1:437:ARG:HA	1:1:449:TYR:HE2	1.81	0.45
1:6:210:THR:HG22	1:6:211:ALA:N	2.31	0.45
1:7:210:THR:HG22	1:7:211:ALA:N	2.31	0.45
1:B:453:PHE:HZ	1:F:350:ASN:ND2	2.14	0.45
1:G:210:THR:HG22	1:G:211:ALA:N	2.31	0.45
1:G:413:ARG:NE	1:X:352:GLU:OE2	2.50	0.45
1:H:101:MET:HE2	1:H:101:MET:HB2	1.89	0.45
1:J:227:VAL:HG21	1:7:417:ARG:O	2.15	0.45
1:J:252:PHE:CZ	1:Y:572:PRO:HG3	2.52	0.45
1:J:548:THR:CG2	1:3:253:PHE:HE1	2.25	0.45
1:K:252:PHE:CZ	1:c:572:PRO:HG3	2.52	0.45
1:M:210:THR:HG22	1:M:211:ALA:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:56:GLY:C	1:N:58:GLY:H	2.23	0.45
1:N:82:ARG:NH1	1:N:108:GLN:HE22	2.14	0.45
1:N:300:ILE:CG2	1:r:109:GLN:HE21	2.23	0.45
1:O:101:MET:HE2	1:O:101:MET:HB2	1.89	0.45
1:P:437:ARG:HA	1:P:449:TYR:HE2	1.81	0.45
1:P:589:PRO:HG2	1:R:251:GLN:HE21	1.82	0.45
1:Q:70:LEU:HD11	1:Q:202:LEU:HD22	1.97	0.45
1:T:252:PHE:CZ	1:f:572:PRO:HG3	2.52	0.45
1:U:70:LEU:HD11	1:U:202:LEU:HD22	1.97	0.45
1:W:368:ILE:HA	1:W:377:ASN:HD22	1.81	0.45
1:Y:210:THR:HG22	1:Y:211:ALA:N	2.31	0.45
1:Y:417:ARG:O	1:2:227:VAL:HG21	2.15	0.45
1:b:252:PHE:CZ	1:8:572:PRO:HG3	2.52	0.45
1:e:453:PHE:HZ	1:k:350:ASN:ND2	2.14	0.45
1:f:210:THR:HG22	1:f:211:ALA:N	2.31	0.45
1:f:368:ILE:HA	1:f:377:ASN:HD22	1.81	0.45
1:g:319:ARG:HH22	1:u:105:ASP:CG	2.20	0.45
1:i:56:GLY:C	1:i:58:GLY:H	2.23	0.45
1:j:252:PHE:CZ	1:m:572:PRO:HG3	2.52	0.45
1:j:437:ARG:HA	1:j:449:TYR:HE2	1.81	0.45
1:l:368:ILE:HA	1:l:377:ASN:HD22	1.81	0.45
1:l:437:ARG:HA	1:l:449:TYR:HE2	1.81	0.45
1:o:589:PRO:HG2	1:8:251:GLN:HE21	1.82	0.45
1:q:437:ARG:HA	1:q:449:TYR:HE2	1.81	0.45
1:t:210:THR:HG22	1:t:211:ALA:N	2.31	0.45
1:t:352:GLU:OE2	1:8:413:ARG:NE	2.50	0.45
1:y:82:ARG:NH1	1:y:108:GLN:HE22	2.14	0.45
1:2:82:ARG:NH1	1:2:108:GLN:NE2	2.64	0.45
1:2:252:PHE:CZ	1:7:572:PRO:HG3	2.52	0.45
1:3:368:ILE:HA	1:3:377:ASN:HD22	1.81	0.45
1:6:56:GLY:C	1:6:58:GLY:H	2.23	0.45
1:7:368:ILE:HA	1:7:377:ASN:HD22	1.81	0.45
1:8:101:MET:HE2	1:8:101:MET:HB2	1.89	0.45
1:A:82:ARG:NH1	1:A:108:GLN:NE2	2.64	0.45
1:D:350:ASN:ND2	1:c:453:PHE:HZ	2.14	0.45
1:D:413:ARG:NE	1:L:352:GLU:OE2	2.50	0.45
1:E:253:PHE:HE1	1:O:548:THR:CG2	2.25	0.45
1:F:462:PHE:N	1:H:483:HIS:HE1	2.07	0.45
1:G:319:ARG:HH22	1:X:105:ASP:CG	2.20	0.45
1:J:82:ARG:NH1	1:J:108:GLN:NE2	2.64	0.45
1:L:252:PHE:CZ	1:6:572:PRO:HG3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:589:PRO:HG2	1:c:251:GLN:HE21	1.82	0.45
1:M:548:THR:O	1:R:129:SER:OG	2.30	0.45
1:N:413:ARG:NE	1:r:352:GLU:OE2	2.50	0.45
1:O:368:ILE:HA	1:O:377:ASN:HD22	1.81	0.45
1:O:437:ARG:HA	1:O:449:TYR:HE2	1.81	0.45
1:P:252:PHE:CZ	1:T:572:PRO:HG3	2.52	0.45
1:Q:352:GLU:OE2	1:V:413:ARG:NE	2.50	0.45
1:R:437:ARG:HA	1:R:449:TYR:HE2	1.81	0.45
1:S:352:GLU:OE2	1:i:413:ARG:NE	2.50	0.45
1:S:589:PRO:HG2	1:n:251:GLN:HE21	1.82	0.45
1:T:413:ARG:NE	1:V:352:GLU:OE2	2.50	0.45
1:U:352:GLU:OE2	1:W:413:ARG:NE	2.50	0.45
1:U:413:ARG:NE	1:f:352:GLU:OE2	2.50	0.45
1:W:82:ARG:NH1	1:W:108:GLN:HE22	2.14	0.45
1:W:251:GLN:HE21	1:f:589:PRO:HG2	1.82	0.45
1:X:56:GLY:C	1:X:58:GLY:H	2.23	0.45
1:a:70:LEU:HD11	1:a:202:LEU:HD22	1.97	0.45
1:b:210:THR:HG22	1:b:211:ALA:N	2.31	0.45
1:b:368:ILE:HA	1:b:377:ASN:HD22	1.81	0.45
1:b:572:PRO:HG3	1:m:252:PHE:CZ	2.52	0.45
1:b:589:PRO:HG2	1:6:251:GLN:HE21	1.82	0.45
1:f:82:ARG:NH1	1:f:108:GLN:HE22	2.14	0.45
1:h:589:PRO:HG2	1:l:251:GLN:HE21	1.82	0.45
1:j:589:PRO:HG2	1:q:251:GLN:HE21	1.82	0.45
1:k:56:GLY:C	1:k:58:GLY:H	2.23	0.45
1:k:368:ILE:HA	1:k:377:ASN:HD22	1.81	0.45
1:k:413:ARG:NE	1:z:352:GLU:OE2	2.50	0.45
1:m:82:ARG:NH1	1:m:108:GLN:HE22	2.14	0.45
1:m:413:ARG:NE	1:p:352:GLU:OE2	2.50	0.45
1:n:252:PHE:CZ	1:w:572:PRO:HG3	2.52	0.45
1:o:352:GLU:OE2	1:t:413:ARG:NE	2.50	0.45
1:p:413:ARG:NE	1:x:352:GLU:OE2	2.50	0.45
1:s:352:GLU:OE2	1:6:413:ARG:NE	2.50	0.45
1:s:437:ARG:HA	1:s:449:TYR:HE2	1.81	0.45
1:v:82:ARG:NH1	1:v:108:GLN:NE2	2.64	0.45
1:y:210:THR:HG22	1:y:211:ALA:N	2.31	0.45
1:2:368:ILE:HA	1:2:377:ASN:HD22	1.81	0.45
1:3:70:LEU:HD11	1:3:202:LEU:HD22	1.97	0.45
1:4:101:MET:HE2	1:4:101:MET:HB2	1.89	0.45
1:6:82:ARG:NH1	1:6:108:GLN:HE22	2.14	0.45
1:6:368:ILE:HA	1:6:377:ASN:HD22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:252:PHE:CZ	1:F:572:PRO:HG3	2.52	0.45
1:D:56:GLY:C	1:D:58:GLY:H	2.23	0.45
1:D:352:GLU:OE2	1:c:413:ARG:NE	2.50	0.45
1:D:572:PRO:HG3	1:s:252:PHE:CZ	2.52	0.45
1:D:589:PRO:HG2	1:L:251:GLN:HE21	1.82	0.45
1:E:572:PRO:HG3	1:d:252:PHE:CZ	2.52	0.45
1:F:82:ARG:NH1	1:F:108:GLN:HE22	2.14	0.45
1:F:210:THR:HG22	1:F:211:ALA:N	2.31	0.45
1:G:105:ASP:CG	1:Z:319:ARG:HH22	2.20	0.45
1:H:368:ILE:HA	1:H:377:ASN:HD22	1.81	0.45
1:I:453:PHE:HZ	1:K:350:ASN:ND2	2.14	0.45
1:J:352:GLU:OE2	1:7:413:ARG:NE	2.50	0.45
1:L:84:THR:OG1	1:L:108:GLN:NE2	2.50	0.45
1:M:589:PRO:HG2	1:O:251:GLN:HE21	1.82	0.45
1:N:589:PRO:HG2	1:r:251:GLN:HE21	1.82	0.45
1:Q:252:PHE:CZ	1:n:572:PRO:HG3	2.52	0.45
1:R:82:ARG:NH1	1:R:108:GLN:HE22	2.14	0.45
1:R:84:THR:OG1	1:R:108:GLN:NE2	2.50	0.45
1:S:251:GLN:HE21	1:i:589:PRO:HG2	1.82	0.45
1:T:319:ARG:HH22	1:V:105:ASP:CG	2.20	0.45
1:U:252:PHE:CZ	1:k:572:PRO:HG3	2.52	0.45
1:U:437:ARG:HA	1:U:449:TYR:HE2	1.81	0.45
1:W:572:PRO:HG3	1:z:252:PHE:CZ	2.52	0.45
1:Y:300:ILE:CG2	1:2:109:GLN:HE21	2.23	0.45
1:Z:368:ILE:HA	1:Z:377:ASN:HD22	1.81	0.45
1:a:82:ARG:NH1	1:a:108:GLN:NE2	2.64	0.45
1:b:352:GLU:OE2	1:s:413:ARG:NE	2.50	0.45
1:c:437:ARG:HA	1:c:449:TYR:HE2	1.81	0.45
1:d:251:GLN:HE21	1:r:589:PRO:HG2	1.82	0.45
1:d:572:PRO:HG3	1:x:252:PHE:CZ	2.52	0.45
1:e:251:GLN:HE21	1:z:589:PRO:HG2	1.82	0.45
1:e:352:GLU:OE2	1:z:413:ARG:NE	2.50	0.45
1:f:84:THR:OG1	1:f:108:GLN:NE2	2.50	0.45
1:i:483:HIS:HE1	1:n:462:PHE:N	2.07	0.45
1:o:105:ASP:CG	1:t:319:ARG:HH22	2.20	0.45
1:q:84:THR:OG1	1:q:108:GLN:NE2	2.50	0.45
1:s:210:THR:HG22	1:s:211:ALA:N	2.31	0.45
1:u:437:ARG:HA	1:u:449:TYR:HE2	1.81	0.45
1:u:453:PHE:HZ	1:4:350:ASN:ND2	2.14	0.45
1:x:70:LEU:HD11	1:x:202:LEU:HD22	1.97	0.45
1:y:350:ASN:ND2	1:1:453:PHE:HZ	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:84:THR:OG1	1:z:108:GLN:NE2	2.50	0.45
1:3:82:ARG:NH1	1:3:108:GLN:NE2	2.64	0.45
1:3:82:ARG:NH1	1:3:108:GLN:HE22	2.14	0.45
1:5:368:ILE:HA	1:5:377:ASN:HD22	1.81	0.45
1:8:82:ARG:NH1	1:8:108:GLN:HE22	2.14	0.45
1:D:319:ARG:HH22	1:L:105:ASP:CG	2.20	0.45
1:D:368:ILE:HA	1:D:377:ASN:HD22	1.81	0.45
1:E:252:PHE:CZ	1:L:572:PRO:HG3	2.52	0.45
1:E:352:GLU:OE2	1:O:413:ARG:NE	2.50	0.45
1:G:453:PHE:HZ	1:X:350:ASN:ND2	2.14	0.45
1:H:84:THR:OG1	1:H:108:GLN:NE2	2.50	0.45
1:I:413:ARG:NE	1:K:352:GLU:OE2	2.50	0.45
1:I:437:ARG:HA	1:I:449:TYR:HE2	1.81	0.45
1:L:413:ARG:NE	1:c:352:GLU:OE2	2.50	0.45
1:M:84:THR:OG1	1:M:108:GLN:NE2	2.50	0.45
1:N:251:GLN:HE21	1:d:589:PRO:HG2	1.82	0.45
1:N:252:PHE:CZ	1:p:572:PRO:HG3	2.52	0.45
1:O:210:THR:HG22	1:O:211:ALA:N	2.31	0.45
1:U:101:MET:HE2	1:U:101:MET:HB2	1.89	0.45
1:U:210:THR:HG22	1:U:211:ALA:N	2.31	0.45
1:V:572:PRO:HG3	1:i:252:PHE:CZ	2.52	0.45
1:Y:352:GLU:OE2	1:a:413:ARG:NE	2.50	0.45
1:Y:413:ARG:NE	1:2:352:GLU:OE2	2.50	0.45
1:Y:453:PHE:HZ	1:2:350:ASN:ND2	2.14	0.45
1:Z:82:ARG:NH1	1:Z:108:GLN:HE22	2.14	0.45
1:Z:101:MET:HE2	1:Z:101:MET:HB2	1.89	0.45
1:a:352:GLU:OE2	1:2:413:ARG:NE	2.50	0.45
1:b:82:ARG:NH1	1:b:108:GLN:NE2	2.64	0.45
1:b:82:ARG:NH1	1:b:108:GLN:HE22	2.14	0.45
1:b:84:THR:OG1	1:b:108:GLN:NE2	2.50	0.45
1:d:210:THR:HG22	1:d:211:ALA:N	2.31	0.45
1:e:413:ARG:NE	1:k:352:GLU:OE2	2.50	0.45
1:e:437:ARG:HA	1:e:449:TYR:HE2	1.81	0.45
1:g:252:PHE:CZ	1:y:572:PRO:HG3	2.52	0.45
1:h:84:THR:OG1	1:h:108:GLN:NE2	2.50	0.45
1:h:413:ARG:NE	1:l:352:GLU:OE2	2.50	0.45
1:h:437:ARG:HA	1:h:449:TYR:HE2	1.81	0.45
1:i:251:GLN:HE21	1:n:589:PRO:HG2	1.82	0.45
1:k:589:PRO:HG2	1:z:251:GLN:HE21	1.82	0.45
1:r:84:THR:OG1	1:r:108:GLN:NE2	2.50	0.45
1:u:413:ARG:NE	1:4:352:GLU:OE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:82:ARG:NH1	1:v:108:GLN:HE22	2.14	0.45
1:x:368:ILE:HA	1:x:377:ASN:HD22	1.81	0.45
1:y:413:ARG:NE	1:5:352:GLU:OE2	2.50	0.45
1:y:462:PHE:N	1:5:483:HIS:HE1	2.07	0.45
1:3:413:ARG:NE	1:7:352:GLU:OE2	2.50	0.45
1:8:368:ILE:HA	1:8:377:ASN:HD22	1.81	0.45
1:A:82:ARG:NH1	1:A:108:GLN:HE22	2.14	0.45
1:A:251:GLN:HE21	1:R:589:PRO:HG2	1.81	0.45
1:A:453:PHE:HZ	1:P:350:ASN:ND2	2.14	0.45
1:C:152:ASN:HD22	1:7:263:LEU:HD13	1.82	0.45
1:C:251:GLN:HE21	1:K:589:PRO:HG2	1.82	0.45
1:C:352:GLU:OE2	1:K:413:ARG:NE	2.50	0.45
1:D:82:ARG:NH1	1:D:108:GLN:HE22	2.14	0.45
1:F:413:ARG:NE	1:H:352:GLU:OE2	2.50	0.45
1:J:84:THR:OG1	1:J:108:GLN:NE2	2.50	0.45
1:J:413:ARG:NE	1:3:352:GLU:OE2	2.50	0.45
1:L:263:LEU:HD13	1:6:152:ASN:HD22	1.82	0.45
1:M:413:ARG:NE	1:O:352:GLU:OE2	2.50	0.45
1:M:437:ARG:HA	1:M:449:TYR:HE2	1.81	0.45
1:N:300:ILE:CG2	1:r:109:GLN:HE22	2.03	0.45
1:O:84:THR:OG1	1:O:108:GLN:NE2	2.50	0.45
1:P:82:ARG:NH1	1:P:108:GLN:NE2	2.64	0.45
1:Q:368:ILE:HA	1:Q:377:ASN:HD22	1.81	0.45
1:Q:413:ARG:NE	1:T:352:GLU:OE2	2.50	0.45
1:S:84:THR:OG1	1:S:108:GLN:NE2	2.50	0.45
1:S:572:PRO:HG3	1:h:252:PHE:CZ	2.52	0.45
1:W:152:ASN:HD22	1:z:263:LEU:HD13	1.82	0.45
1:a:82:ARG:NH1	1:a:108:GLN:HE22	2.14	0.45
1:a:84:THR:OG1	1:a:108:GLN:NE2	2.50	0.45
1:a:483:HIS:HE1	1:2:462:PHE:CB	2.19	0.45
1:e:82:ARG:NH1	1:e:108:GLN:NE2	2.64	0.45
1:e:252:PHE:CZ	1:l:572:PRO:HG3	2.52	0.45
1:f:82:ARG:NH1	1:f:108:GLN:NE2	2.64	0.45
1:g:352:GLU:OE2	1:4:413:ARG:NE	2.50	0.45
1:h:548:THR:O	1:q:129:SER:OG	2.30	0.45
1:i:84:THR:OG1	1:i:108:GLN:NE2	2.50	0.45
1:j:82:ARG:NH1	1:j:108:GLN:NE2	2.64	0.45
1:j:350:ASN:ND2	1:v:453:PHE:HZ	2.14	0.45
1:l:210:THR:HG22	1:l:211:ALA:N	2.31	0.45
1:l:413:ARG:NE	1:w:352:GLU:OE2	2.50	0.45
1:l:548:THR:CG2	1:w:253:PHE:HE1	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:82:ARG:NH1	1:q:108:GLN:HE22	2.14	0.45
1:s:101:MET:HE2	1:s:101:MET:HB2	1.89	0.45
1:t:105:ASP:CG	1:8:319:ARG:HH22	2.20	0.45
1:y:251:GLN:HE21	1:1:589:PRO:HG2	1.82	0.45
1:y:368:ILE:HA	1:y:377:ASN:HD22	1.81	0.45
1:2:84:THR:OG1	1:2:108:GLN:NE2	2.50	0.45
1:3:84:THR:OG1	1:3:108:GLN:NE2	2.50	0.45
1:4:84:THR:OG1	1:4:108:GLN:NE2	2.50	0.45
1:5:84:THR:OG1	1:5:108:GLN:NE2	2.50	0.45
1:A:121:ALA:HB3	1:A:124:VAL:HG23	1.99	0.45
1:A:252:PHE:CZ	1:M:572:PRO:HG3	2.51	0.45
1:A:263:LEU:HD13	1:M:152:ASN:HD22	1.82	0.45
1:B:121:ALA:HB3	1:B:124:VAL:HG23	1.99	0.45
1:B:352:GLU:OE2	1:H:413:ARG:NE	2.50	0.45
1:B:572:PRO:HG3	1:Z:252:PHE:CZ	2.52	0.45
1:B:589:PRO:HG2	1:F:251:GLN:HE21	1.82	0.45
1:C:413:ARG:NE	1:I:352:GLU:OE2	2.50	0.45
1:C:462:PHE:N	1:I:483:HIS:HE1	2.07	0.45
1:E:350:ASN:ND2	1:O:453:PHE:HZ	2.14	0.45
1:F:84:THR:OG1	1:F:108:GLN:NE2	2.50	0.45
1:F:368:ILE:HA	1:F:377:ASN:HD22	1.81	0.45
1:G:263:LEU:HD13	1:U:152:ASN:HD22	1.82	0.45
1:I:82:ARG:NH1	1:I:108:GLN:NE2	2.64	0.45
1:J:350:ASN:ND2	1:7:453:PHE:HZ	2.14	0.45
1:K:84:THR:OG1	1:K:108:GLN:NE2	2.50	0.45
1:L:462:PHE:CA	1:c:483:HIS:HE1	2.27	0.45
1:M:252:PHE:CZ	1:r:572:PRO:HG3	2.52	0.45
1:N:84:THR:OG1	1:N:108:GLN:NE2	2.50	0.45
1:O:572:PRO:HG3	1:c:252:PHE:CZ	2.52	0.45
1:Q:578:MET:HE3	1:Q:578:MET:HB3	1.84	0.45
1:S:413:ARG:NE	1:n:352:GLU:OE2	2.50	0.45
1:T:437:ARG:HA	1:T:449:TYR:HE2	1.81	0.45
1:U:121:ALA:HB3	1:U:124:VAL:HG23	1.99	0.45
1:V:84:THR:OG1	1:V:108:GLN:NE2	2.50	0.45
1:W:121:ALA:HB3	1:W:124:VAL:HG23	1.99	0.45
1:Y:263:LEU:HD13	1:g:152:ASN:HD22	1.82	0.45
1:b:251:GLN:HE21	1:s:589:PRO:HG2	1.82	0.45
1:b:253:PHE:HE1	1:s:548:THR:CG2	2.25	0.45
1:c:82:ARG:NH1	1:c:108:GLN:NE2	2.64	0.45
1:d:121:ALA:HB3	1:d:124:VAL:HG23	1.99	0.45
1:e:462:PHE:CA	1:k:483:HIS:HE1	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:413:ARG:NE	1:u:352:GLU:OE2	2.50	0.45
1:h:82:ARG:NH1	1:h:108:GLN:NE2	2.64	0.45
1:h:251:GLN:HE21	1:w:589:PRO:HG2	1.82	0.45
1:k:82:ARG:NH1	1:k:108:GLN:HE22	2.14	0.45
1:l:84:THR:OG1	1:l:108:GLN:NE2	2.50	0.45
1:m:352:GLU:OE2	1:x:413:ARG:NE	2.50	0.45
1:n:121:ALA:HB3	1:n:124:VAL:HG23	1.99	0.45
1:n:210:THR:HG22	1:n:211:ALA:N	2.31	0.45
1:o:350:ASN:ND2	1:t:453:PHE:HZ	2.14	0.45
1:q:453:PHE:HZ	1:v:350:ASN:ND2	2.14	0.45
1:q:589:PRO:HG2	1:v:251:GLN:HE21	1.82	0.45
1:s:121:ALA:HB3	1:s:124:VAL:HG23	1.99	0.45
1:s:152:ASN:HD22	1:t:263:LEU:HD13	1.82	0.45
1:u:210:THR:HG22	1:u:211:ALA:N	2.31	0.45
1:u:368:ILE:HA	1:u:377:ASN:HD22	1.81	0.45
1:w:252:PHE:CZ	1:z:572:PRO:HG3	2.52	0.45
1:1:121:ALA:HB3	1:1:124:VAL:HG23	1.99	0.45
1:1:572:PRO:HG3	1:8:252:PHE:CZ	2.52	0.45
1:6:121:ALA:HB3	1:6:124:VAL:HG23	1.99	0.45
1:B:84:THR:OG1	1:B:108:GLN:NE2	2.50	0.45
1:C:82:ARG:NH1	1:C:108:GLN:HE22	2.14	0.45
1:F:453:PHE:HZ	1:H:350:ASN:ND2	2.14	0.45
1:G:152:ASN:HD22	1:a:263:LEU:HD13	1.82	0.45
1:H:252:PHE:CZ	1:K:572:PRO:HG3	2.52	0.45
1:I:210:THR:HG22	1:I:211:ALA:N	2.31	0.45
1:I:368:ILE:HA	1:I:377:ASN:HD22	1.81	0.45
1:J:105:ASP:CG	1:7:319:ARG:HH22	2.20	0.45
1:K:82:ARG:NH1	1:K:108:GLN:HE22	2.14	0.45
1:K:101:MET:HE2	1:K:101:MET:HB2	1.89	0.45
1:M:82:ARG:NH1	1:M:108:GLN:NE2	2.64	0.45
1:Q:56:GLY:C	1:Q:58:GLY:H	2.23	0.45
1:Q:152:ASN:HD22	1:W:263:LEU:HD13	1.82	0.45
1:Q:572:PRO:HG3	1:W:252:PHE:CZ	2.52	0.45
1:U:84:THR:OG1	1:U:108:GLN:NE2	2.50	0.45
1:U:589:PRO:HG2	1:f:251:GLN:HE21	1.82	0.45
1:Y:319:ARG:HH22	1:2:105:ASP:CG	2.20	0.45
1:Y:437:ARG:HA	1:Y:449:TYR:HE2	1.81	0.45
1:b:152:ASN:HD22	1:m:263:LEU:HD13	1.82	0.45
1:e:210:THR:HG22	1:e:211:ALA:N	2.31	0.45
1:g:84:THR:OG1	1:g:108:GLN:NE2	2.50	0.45
1:g:251:GLN:HE21	1:4:589:PRO:HG2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:486:ARG:NH2	1:l:483:HIS:CB	2.71	0.45
1:k:319:ARG:HH22	1:z:105:ASP:CG	2.20	0.45
1:l:453:PHE:HZ	1:w:350:ASN:ND2	2.14	0.45
1:m:210:THR:HG22	1:m:211:ALA:N	2.31	0.45
1:p:84:THR:OG1	1:p:108:GLN:NE2	2.50	0.45
1:s:251:GLN:HE21	1:6:589:PRO:HG2	1.82	0.45
1:u:82:ARG:NH1	1:u:108:GLN:NE2	2.64	0.45
1:v:121:ALA:HB3	1:v:124:VAL:HG23	1.99	0.45
1:y:84:THR:OG1	1:y:108:GLN:NE2	2.50	0.45
1:1:352:GLU:OE2	1:5:413:ARG:NE	2.50	0.45
1:4:572:PRO:HG3	1:5:252:PHE:CZ	2.52	0.45
1:7:84:THR:OG1	1:7:108:GLN:NE2	2.50	0.45
1:7:345:MET:HE3	1:7:345:MET:HB3	1.85	0.45
1:A:350:ASN:ND2	1:R:453:PHE:HZ	2.14	0.44
1:C:84:THR:OG1	1:C:108:GLN:NE2	2.50	0.44
1:C:572:PRO:HG3	1:7:252:PHE:CZ	2.52	0.44
1:D:251:GLN:HE21	1:c:589:PRO:HG2	1.82	0.44
1:D:483:HIS:HE1	1:c:462:PHE:CA	2.27	0.44
1:E:548:THR:O	1:r:129:SER:OG	2.30	0.44
1:E:548:THR:CG2	1:M:253:PHE:HE1	2.25	0.44
1:E:589:PRO:HG2	1:M:251:GLN:HE21	1.82	0.44
1:G:101:MET:HE2	1:G:101:MET:HB2	1.89	0.44
1:G:572:PRO:HG3	1:a:252:PHE:CZ	2.52	0.44
1:H:345:MET:HE3	1:H:345:MET:HB3	1.85	0.44
1:I:84:THR:OG1	1:I:108:GLN:NE2	2.50	0.44
1:J:109:GLN:HE21	1:7:300:ILE:CG2	2.23	0.44
1:J:251:GLN:HE21	1:7:589:PRO:HG2	1.82	0.44
1:M:121:ALA:HB3	1:M:124:VAL:HG23	1.99	0.44
1:O:121:ALA:HB3	1:O:124:VAL:HG23	1.99	0.44
1:O:252:PHE:CZ	1:R:572:PRO:HG3	2.52	0.44
1:T:263:LEU:HD13	1:f:152:ASN:HD22	1.82	0.44
1:U:251:GLN:HE21	1:W:589:PRO:HG2	1.82	0.44
1:U:548:THR:CG2	1:f:253:PHE:HE1	2.25	0.44
1:Y:82:ARG:NH1	1:Y:108:GLN:NE2	2.64	0.44
1:Y:84:THR:OG1	1:Y:108:GLN:NE2	2.50	0.44
1:c:210:THR:HG22	1:c:211:ALA:N	2.31	0.44
1:d:352:GLU:OE2	1:r:413:ARG:NE	2.50	0.44
1:e:82:ARG:NH1	1:e:108:GLN:HE22	2.14	0.44
1:g:82:ARG:NH1	1:g:108:GLN:HE22	2.14	0.44
1:h:152:ASN:HD22	1:v:263:LEU:HD13	1.82	0.44
1:h:556:THR:CG2	1:q:556:THR:CG2	2.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:572:PRO:HG3	1:v:252:PHE:CZ	2.52	0.44
1:i:352:GLU:OE2	1:n:413:ARG:NE	2.50	0.44
1:m:437:ARG:HA	1:m:449:TYR:HE2	1.81	0.44
1:s:84:THR:OG1	1:s:108:GLN:NE2	2.50	0.44
1:s:325:THR:HB	1:s:425:ILE:HG21	2.00	0.44
1:t:152:ASN:HD22	1:3:263:LEU:HD13	1.82	0.44
1:u:325:THR:HB	1:u:425:ILE:HG21	2.00	0.44
1:x:152:ASN:HD22	1:6:263:LEU:HD13	1.82	0.44
1:x:572:PRO:HG3	1:6:252:PHE:CZ	2.52	0.44
1:y:453:PHE:HZ	1:5:350:ASN:ND2	2.14	0.44
1:1:84:THR:OG1	1:1:108:GLN:NE2	2.50	0.44
1:3:101:MET:HE2	1:3:101:MET:HB2	1.89	0.44
1:3:462:PHE:CA	1:7:483:HIS:HE1	2.27	0.44
1:4:82:ARG:NH1	1:4:108:GLN:HE22	2.14	0.44
1:6:84:THR:OG1	1:6:108:GLN:NE2	2.50	0.44
1:7:82:ARG:NH1	1:7:108:GLN:NE2	2.64	0.44
2:QB:1:NAG:H4	2:QB:2:GLA:C5	2.44	0.44
1:A:437:ARG:HA	1:A:449:TYR:HE2	1.81	0.44
1:A:462:PHE:CE2	1:P:483:HIS:CE1	3.06	0.44
1:B:158:VAL:HG21	1:Z:513:ASP:HB3	2.00	0.44
1:B:263:LEU:HD13	1:P:152:ASN:HD22	1.82	0.44
1:D:84:THR:OG1	1:D:108:GLN:NE2	2.50	0.44
1:F:56:GLY:C	1:F:58:GLY:H	2.23	0.44
1:G:158:VAL:HG21	1:a:513:ASP:HB3	2.00	0.44
1:I:325:THR:HB	1:I:425:ILE:HG21	2.00	0.44
1:I:462:PHE:CA	1:K:483:HIS:HE1	2.27	0.44
1:J:462:PHE:CB	1:3:483:HIS:HE1	2.19	0.44
1:L:368:ILE:HA	1:L:377:ASN:HD22	1.81	0.44
1:N:352:GLU:OE2	1:d:413:ARG:NE	2.50	0.44
1:O:325:THR:HB	1:O:425:ILE:HG21	2.00	0.44
1:T:210:THR:HG22	1:T:211:ALA:N	2.31	0.44
1:U:325:THR:HB	1:U:425:ILE:HG21	2.00	0.44
1:W:84:THR:OG1	1:W:108:GLN:NE2	2.50	0.44
1:W:352:GLU:OE2	1:f:413:ARG:NE	2.50	0.44
1:X:413:ARG:NE	1:Z:352:GLU:OE2	2.50	0.44
1:Y:483:HIS:HE1	1:a:462:PHE:CA	2.27	0.44
1:a:101:MET:HE2	1:a:101:MET:HB2	1.89	0.44
1:c:84:THR:OG1	1:c:108:GLN:NE2	2.50	0.44
1:e:483:HIS:HE1	1:z:462:PHE:CA	2.27	0.44
1:e:589:PRO:HG2	1:k:251:GLN:HE21	1.82	0.44
1:h:121:ALA:HB3	1:h:124:VAL:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:101:MET:HE2	1:j:101:MET:HB2	1.89	0.44
1:j:368:ILE:HA	1:j:377:ASN:HD22	1.81	0.44
1:j:483:HIS:CE1	1:v:462:PHE:CE2	3.06	0.44
1:k:84:THR:OG1	1:k:108:GLN:NE2	2.50	0.44
1:l:121:ALA:HB3	1:l:124:VAL:HG23	1.99	0.44
1:l:252:PHE:CZ	1:q:572:PRO:HG3	2.52	0.44
1:l:325:THR:HB	1:l:425:ILE:HG21	2.00	0.44
1:o:413:ARG:NE	1:8:352:GLU:OE2	2.50	0.44
1:o:572:PRO:HG3	1:y:252:PHE:CZ	2.52	0.44
1:t:158:VAL:HG21	1:3:513:ASP:HB3	2.00	0.44
1:u:84:THR:OG1	1:u:108:GLN:NE2	2.50	0.44
1:x:56:GLY:C	1:x:58:GLY:H	2.23	0.44
1:y:56:GLY:C	1:y:58:GLY:H	2.23	0.44
1:y:437:ARG:HA	1:y:449:TYR:HE2	1.81	0.44
1:1:158:VAL:HG21	1:8:513:ASP:HB3	2.00	0.44
1:7:437:ARG:HA	1:7:449:TYR:HE2	1.81	0.44
1:D:437:ARG:HA	1:D:449:TYR:HE2	1.81	0.44
1:E:251:GLN:HE21	1:O:589:PRO:HG2	1.82	0.44
1:F:252:PHE:CZ	1:X:572:PRO:HG3	2.52	0.44
1:G:252:PHE:CZ	1:U:572:PRO:HG3	2.52	0.44
1:I:121:ALA:HB3	1:I:124:VAL:HG23	1.99	0.44
1:J:453:PHE:HZ	1:3:350:ASN:ND2	2.14	0.44
1:J:513:ASP:HB3	1:Y:158:VAL:HG21	2.00	0.44
1:K:513:ASP:HB3	1:c:158:VAL:HG21	2.00	0.44
1:L:121:ALA:HB3	1:L:124:VAL:HG23	1.99	0.44
1:M:486:ARG:NH2	1:O:483:HIS:CB	2.71	0.44
1:P:368:ILE:HA	1:P:377:ASN:HD22	1.81	0.44
1:Q:121:ALA:HB3	1:Q:124:VAL:HG23	1.99	0.44
1:S:109:GLN:HE22	1:i:300:ILE:CG2	2.03	0.44
1:Y:252:PHE:CZ	1:g:572:PRO:HG3	2.52	0.44
1:Y:589:PRO:HG2	1:2:251:GLN:HE21	1.82	0.44
1:Z:84:THR:OG1	1:Z:108:GLN:NE2	2.50	0.44
1:a:121:ALA:HB3	1:a:124:VAL:HG23	1.99	0.44
1:a:350:ASN:ND2	1:2:453:PHE:HZ	2.14	0.44
1:b:413:ARG:NE	1:6:352:GLU:OE2	2.50	0.44
1:c:82:ARG:NH1	1:c:108:GLN:HE22	2.14	0.44
1:e:84:THR:OG1	1:e:108:GLN:NE2	2.50	0.44
1:e:158:VAL:HG21	1:4:513:ASP:HB3	2.00	0.44
1:f:325:THR:HB	1:f:425:ILE:HG21	2.00	0.44
1:g:462:PHE:N	1:u:483:HIS:HE1	2.07	0.44
1:j:152:ASN:HD22	1:1:263:LEU:HD13	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:300:ILE:CG2	1:q:109:GLN:HE22	2.03	0.44
1:k:437:ARG:HA	1:k:449:TYR:HE2	1.81	0.44
1:t:572:PRO:HG3	1:3:252:PHE:CZ	2.52	0.44
1:v:84:THR:OG1	1:v:108:GLN:NE2	2.50	0.44
1:v:437:ARG:HA	1:v:449:TYR:HE2	1.81	0.44
1:x:121:ALA:HB3	1:x:124:VAL:HG23	1.99	0.44
1:z:368:ILE:HA	1:z:377:ASN:HD22	1.81	0.44
1:8:84:THR:OG1	1:8:108:GLN:NE2	2.50	0.44
1:A:84:THR:OG1	1:A:108:GLN:NE2	2.50	0.44
1:B:513:ASP:HB3	1:P:158:VAL:HG21	2.00	0.44
1:C:513:ASP:HB3	1:F:158:VAL:HG21	2.00	0.44
1:F:437:ARG:HA	1:F:449:TYR:HE2	1.81	0.44
1:G:513:ASP:HB3	1:U:158:VAL:HG21	2.00	0.44
1:J:300:ILE:CG2	1:3:109:GLN:HE22	2.03	0.44
1:M:459:LEU:HD11	1:O:489:VAL:HG21	2.00	0.44
1:O:59:TRP:CZ3	1:O:542:LYS:HB2	2.53	0.44
1:Q:486:ARG:NH2	1:T:483:HIS:CB	2.71	0.44
1:Q:589:PRO:HG2	1:T:251:GLN:HE21	1.82	0.44
1:T:84:THR:OG1	1:T:108:GLN:NE2	2.50	0.44
1:T:121:ALA:HB3	1:T:124:VAL:HG23	1.99	0.44
1:V:121:ALA:HB3	1:V:124:VAL:HG23	1.99	0.44
1:X:84:THR:OG1	1:X:108:GLN:NE2	2.50	0.44
1:b:325:THR:HB	1:b:425:ILE:HG21	2.00	0.44
1:d:59:TRP:CZ3	1:d:542:LYS:HB2	2.53	0.44
1:g:513:ASP:HB3	1:y:158:VAL:HG21	2.00	0.44
1:h:459:LEU:HD11	1:l:489:VAL:HG21	2.00	0.44
1:i:489:VAL:HG21	1:n:459:LEU:HD11	2.00	0.44
1:j:513:ASP:HB3	1:m:158:VAL:HG21	2.00	0.44
1:l:59:TRP:CZ3	1:l:542:LYS:HB2	2.53	0.44
1:l:589:PRO:HG2	1:w:251:GLN:HE21	1.82	0.44
1:m:121:ALA:HB3	1:m:124:VAL:HG23	1.99	0.44
1:q:101:MET:HE2	1:q:101:MET:HB2	1.89	0.44
1:s:158:VAL:HG21	1:t:513:ASP:HB3	2.00	0.44
1:t:483:HIS:HE1	1:8:462:PHE:CA	2.27	0.44
1:u:121:ALA:HB3	1:u:124:VAL:HG23	1.99	0.44
1:u:462:PHE:CA	1:4:483:HIS:HE1	2.27	0.44
1:x:84:THR:OG1	1:x:108:GLN:NE2	2.50	0.44
1:x:578:MET:HE3	1:x:578:MET:HB3	1.84	0.44
1:y:483:HIS:HE1	1:1:462:PHE:CB	2.19	0.44
1:z:121:ALA:HB3	1:z:124:VAL:HG23	1.99	0.44
1:2:513:ASP:HB3	1:7:158:VAL:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:121:ALA:HB3	1:3:124:VAL:HG23	1.99	0.44
1:B:59:TRP:CZ3	1:B:542:LYS:HB2	2.53	0.44
1:B:152:ASN:HD22	1:Z:263:LEU:HD13	1.82	0.44
1:B:251:GLN:HE21	1:H:589:PRO:HG2	1.82	0.44
1:I:495:CYS:SG	1:I:499:PRO:HA	2.58	0.44
1:J:495:CYS:SG	1:J:499:PRO:HA	2.58	0.44
1:M:513:ASP:HB3	1:r:158:VAL:HG21	2.00	0.44
1:P:513:ASP:HB3	1:T:158:VAL:HG21	2.00	0.44
1:Q:84:THR:OG1	1:Q:108:GLN:NE2	2.50	0.44
1:T:325:THR:HB	1:T:425:ILE:HG21	2.00	0.44
1:W:325:THR:HB	1:W:425:ILE:HG21	2.00	0.44
1:c:59:TRP:CZ3	1:c:542:LYS:HB2	2.53	0.44
1:d:84:THR:OG1	1:d:108:GLN:NE2	2.50	0.44
1:e:59:TRP:CZ3	1:e:542:LYS:HB2	2.53	0.44
1:h:253:PHE:HE1	1:w:548:THR:CG2	2.25	0.44
1:j:158:VAL:HG21	1:1:513:ASP:HB3	2.00	0.44
1:k:59:TRP:CZ3	1:k:542:LYS:HB2	2.53	0.44
1:k:210:THR:HG22	1:k:211:ALA:N	2.31	0.44
1:m:84:THR:OG1	1:m:108:GLN:NE2	2.50	0.44
1:m:251:GLN:HE21	1:x:589:PRO:HG2	1.82	0.44
1:n:59:TRP:CZ3	1:n:542:LYS:HB2	2.53	0.44
1:o:84:THR:OG1	1:o:108:GLN:NE2	2.50	0.44
1:p:121:ALA:HB3	1:p:124:VAL:HG23	1.99	0.44
1:s:572:PRO:HG3	1:t:252:PHE:CZ	2.52	0.44
1:u:495:CYS:SG	1:u:499:PRO:HA	2.58	0.44
1:w:263:LEU:HD13	1:z:152:ASN:HD22	1.82	0.44
1:w:513:ASP:HB3	1:z:158:VAL:HG21	2.00	0.44
1:y:325:THR:HB	1:y:425:ILE:HG21	2.00	0.44
1:1:59:TRP:CZ3	1:1:542:LYS:HB2	2.53	0.44
1:1:152:ASN:HD22	1:8:263:LEU:HD13	1.82	0.44
1:2:495:CYS:SG	1:2:499:PRO:HA	2.58	0.44
1:A:413:ARG:NE	1:P:352:GLU:OE2	2.50	0.44
1:B:461:ALA:HB2	1:F:485:PRO:HD3	2.00	0.44
1:B:462:PHE:CB	1:F:483:HIS:HE1	2.19	0.44
1:C:101:MET:HE2	1:C:101:MET:HB2	1.89	0.44
1:C:495:CYS:SG	1:C:499:PRO:HA	2.58	0.44
1:C:569:LYS:HB2	1:C:570:TRP:CE3	2.53	0.44
1:D:59:TRP:CZ3	1:D:542:LYS:HB2	2.53	0.44
1:E:59:TRP:CZ3	1:E:542:LYS:HB2	2.53	0.44
1:E:462:PHE:CE2	1:M:483:HIS:CE1	3.05	0.44
1:E:513:ASP:HB3	1:L:158:VAL:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:325:THR:HB	1:F:425:ILE:HG21	2.00	0.44
1:G:483:HIS:HE1	1:Z:462:PHE:CA	2.27	0.44
1:J:325:THR:HB	1:J:425:ILE:HG21	2.00	0.44
1:M:556:THR:CG2	1:R:556:THR:CG2	2.69	0.44
1:N:121:ALA:HB3	1:N:124:VAL:HG23	1.99	0.44
1:R:59:TRP:CZ3	1:R:542:LYS:HB2	2.53	0.44
1:R:325:THR:HB	1:R:425:ILE:HG21	2.00	0.44
1:S:121:ALA:HB3	1:S:124:VAL:HG23	1.99	0.44
1:S:158:VAL:HG21	1:h:513:ASP:HB3	2.00	0.44
1:S:495:CYS:SG	1:S:499:PRO:HA	2.58	0.44
1:T:430:ASN:H	1:T:433:GLN:HB2	1.83	0.44
1:V:430:ASN:H	1:V:433:GLN:HB2	1.83	0.44
1:W:495:CYS:SG	1:W:499:PRO:HA	2.58	0.44
1:X:59:TRP:CZ3	1:X:542:LYS:HB2	2.53	0.44
1:Y:345:MET:HE3	1:Y:345:MET:HB3	1.85	0.44
1:g:101:MET:HE2	1:g:101:MET:HB2	1.89	0.44
1:g:495:CYS:SG	1:g:499:PRO:HA	2.58	0.44
1:i:121:ALA:HB3	1:i:124:VAL:HG23	1.99	0.44
1:i:495:CYS:SG	1:i:499:PRO:HA	2.58	0.44
1:j:84:THR:OG1	1:j:108:GLN:NE2	2.50	0.44
1:j:352:GLU:OE2	1:v:413:ARG:NE	2.50	0.44
1:j:495:CYS:SG	1:j:499:PRO:HA	2.58	0.44
1:m:325:THR:HB	1:m:425:ILE:HG21	2.00	0.44
1:m:430:ASN:H	1:m:433:GLN:HB2	1.83	0.44
1:m:483:HIS:CB	1:x:486:ARG:NH2	2.71	0.44
1:o:59:TRP:CZ3	1:o:542:LYS:HB2	2.53	0.44
1:p:430:ASN:H	1:p:433:GLN:HB2	1.83	0.44
1:q:59:TRP:CZ3	1:q:542:LYS:HB2	2.53	0.44
1:q:252:PHE:CZ	1:5:572:PRO:HG3	2.52	0.44
1:q:325:THR:HB	1:q:425:ILE:HG21	2.00	0.44
1:r:495:CYS:SG	1:r:499:PRO:HA	2.58	0.44
1:t:101:MET:HE2	1:t:101:MET:HB2	1.89	0.44
1:w:84:THR:OG1	1:w:108:GLN:NE2	2.50	0.44
1:y:485:PRO:HD3	1:1:461:ALA:HB2	2.00	0.44
1:z:569:LYS:HB2	1:z:570:TRP:CE3	2.53	0.44
1:2:325:THR:HB	1:2:425:ILE:HG21	2.00	0.44
1:6:325:THR:HB	1:6:425:ILE:HG21	2.00	0.44
1:6:495:CYS:SG	1:6:499:PRO:HA	2.58	0.44
1:A:486:ARG:NH2	1:P:483:HIS:CB	2.71	0.44
1:A:513:ASP:HB3	1:M:158:VAL:HG21	2.00	0.44
1:B:569:LYS:HB2	1:B:570:TRP:CE3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:515:PHE:CZ	1:F:209:PRO:HB2	2.53	0.44
1:D:210:THR:HG22	1:D:211:ALA:N	2.31	0.44
1:D:569:LYS:HB2	1:D:570:TRP:CE3	2.53	0.44
1:E:263:LEU:HD13	1:L:152:ASN:HD22	1.82	0.44
1:E:325:THR:HB	1:E:425:ILE:HG21	2.00	0.44
1:F:121:ALA:HB3	1:F:124:VAL:HG23	1.99	0.44
1:F:589:PRO:HG2	1:H:251:GLN:HE21	1.82	0.44
1:G:486:ARG:NH2	1:X:483:HIS:CB	2.71	0.44
1:I:252:PHE:CZ	1:3:572:PRO:HG3	2.52	0.44
1:I:548:THR:CG2	1:K:253:PHE:HE1	2.25	0.44
1:J:101:MET:HE2	1:J:101:MET:HB2	1.89	0.44
1:J:430:ASN:H	1:J:433:GLN:HB2	1.83	0.44
1:L:495:CYS:SG	1:L:499:PRO:HA	2.58	0.44
1:L:569:LYS:HB2	1:L:570:TRP:CE3	2.53	0.44
1:M:59:TRP:CZ3	1:M:542:LYS:HB2	2.53	0.44
1:N:462:PHE:CE2	1:r:483:HIS:CE1	3.06	0.44
1:N:485:PRO:HD3	1:d:461:ALA:HB2	2.00	0.44
1:N:495:CYS:SG	1:N:499:PRO:HA	2.58	0.44
1:O:513:ASP:HB3	1:R:158:VAL:HG21	2.00	0.44
1:P:84:THR:OG1	1:P:108:GLN:NE2	2.50	0.44
1:P:101:MET:HE2	1:P:101:MET:HB2	1.89	0.44
1:P:430:ASN:H	1:P:433:GLN:HB2	1.83	0.44
1:P:495:CYS:SG	1:P:499:PRO:HA	2.58	0.44
1:P:515:PHE:CZ	1:T:209:PRO:HB2	2.53	0.44
1:Q:325:THR:HB	1:Q:425:ILE:HG21	2.00	0.44
1:T:59:TRP:CZ3	1:T:542:LYS:HB2	2.53	0.44
1:U:430:ASN:H	1:U:433:GLN:HB2	1.83	0.44
1:V:59:TRP:CZ3	1:V:542:LYS:HB2	2.53	0.44
1:X:486:ARG:NH2	1:Z:483:HIS:CB	2.71	0.44
1:X:495:CYS:SG	1:X:499:PRO:HA	2.58	0.44
1:Z:121:ALA:HB3	1:Z:124:VAL:HG23	1.99	0.44
1:a:572:PRO:HG3	1:u:252:PHE:CZ	2.52	0.44
1:g:430:ASN:H	1:g:433:GLN:HB2	1.83	0.44
1:g:515:PHE:CZ	1:y:209:PRO:HB2	2.53	0.44
1:g:569:LYS:HB2	1:g:570:TRP:CE3	2.53	0.44
1:h:352:GLU:OE2	1:w:413:ARG:NE	2.50	0.44
1:h:483:HIS:CE1	1:w:462:PHE:CE2	3.05	0.44
1:i:485:PRO:HD3	1:n:461:ALA:HB2	2.00	0.44
1:j:430:ASN:H	1:j:433:GLN:HB2	1.83	0.44
1:j:483:HIS:CB	1:v:486:ARG:NH2	2.71	0.44
1:j:515:PHE:CZ	1:m:209:PRO:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:495:CYS:SG	1:k:499:PRO:HA	2.58	0.44
1:k:569:LYS:HB2	1:k:570:TRP:CE3	2.53	0.44
1:l:513:ASP:HB3	1:q:158:VAL:HG21	2.00	0.44
1:l:515:PHE:CZ	1:q:209:PRO:HB2	2.53	0.44
1:m:59:TRP:CZ3	1:m:542:LYS:HB2	2.53	0.44
1:n:84:THR:OG1	1:n:108:GLN:NE2	2.50	0.44
1:o:325:THR:HB	1:o:425:ILE:HG21	2.00	0.44
1:o:486:ARG:NH2	1:8:483:HIS:CB	2.71	0.44
1:o:495:CYS:SG	1:o:499:PRO:HA	2.58	0.44
1:p:59:TRP:CZ3	1:p:542:LYS:HB2	2.53	0.44
1:p:513:ASP:HB3	1:v:158:VAL:HG21	2.00	0.44
1:s:430:ASN:H	1:s:433:GLN:HB2	1.83	0.44
1:u:548:THR:CG2	1:4:253:PHE:HE1	2.25	0.44
1:u:589:PRO:HG2	1:4:251:GLN:HE21	1.82	0.44
1:w:59:TRP:CZ3	1:w:542:LYS:HB2	2.53	0.44
1:x:325:THR:HB	1:x:425:ILE:HG21	2.00	0.44
1:y:121:ALA:HB3	1:y:124:VAL:HG23	1.99	0.44
1:y:589:PRO:HG2	1:5:251:GLN:HE21	1.82	0.44
1:z:495:CYS:SG	1:z:499:PRO:HA	2.58	0.44
1:1:251:GLN:HE21	1:5:589:PRO:HG2	1.82	0.44
1:1:569:LYS:HB2	1:1:570:TRP:CE3	2.53	0.44
1:2:430:ASN:H	1:2:433:GLN:HB2	1.83	0.44
1:A:351:PHE:HB3	1:R:419:PHE:CZ	2.51	0.44
1:C:158:VAL:HG21	1:7:513:ASP:HB3	2.00	0.44
1:C:209:PRO:HB2	1:7:515:PHE:CZ	2.53	0.44
1:C:430:ASN:H	1:C:433:GLN:HB2	1.83	0.44
1:C:485:PRO:HD3	1:K:461:ALA:HB2	2.00	0.44
1:D:209:PRO:HB2	1:s:515:PHE:CZ	2.53	0.44
1:D:485:PRO:HD3	1:c:461:ALA:HB2	2.00	0.44
1:D:495:CYS:SG	1:D:499:PRO:HA	2.58	0.44
1:D:515:PHE:CZ	1:I:209:PRO:HB2	2.53	0.44
1:E:84:THR:OG1	1:E:108:GLN:NE2	2.50	0.44
1:F:569:LYS:HB2	1:F:570:TRP:CE3	2.53	0.44
1:G:59:TRP:CZ3	1:G:542:LYS:HB2	2.53	0.44
1:G:430:ASN:H	1:G:433:GLN:HB2	1.83	0.44
1:H:572:PRO:HG3	1:R:252:PHE:CZ	2.52	0.44
1:I:569:LYS:HB2	1:I:570:TRP:CE3	2.53	0.44
1:K:263:LEU:HD13	1:c:152:ASN:HD22	1.82	0.44
1:K:495:CYS:SG	1:K:499:PRO:HA	2.58	0.44
1:L:59:TRP:CZ3	1:L:542:LYS:HB2	2.53	0.44
1:N:59:TRP:CZ3	1:N:542:LYS:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:209:PRO:HB2	1:S:515:PHE:CZ	2.53	0.44
1:O:515:PHE:CZ	1:R:209:PRO:HB2	2.53	0.44
1:Q:485:PRO:HD3	1:V:461:ALA:HB2	2.00	0.44
1:Q:495:CYS:SG	1:Q:499:PRO:HA	2.58	0.44
1:R:101:MET:HE2	1:R:101:MET:HB2	1.89	0.44
1:S:209:PRO:HB2	1:h:515:PHE:CZ	2.53	0.44
1:S:483:HIS:CE1	1:i:462:PHE:CE2	3.06	0.44
1:T:569:LYS:HB2	1:T:570:TRP:CE3	2.53	0.44
1:U:515:PHE:CZ	1:k:209:PRO:HB2	2.53	0.44
1:V:569:LYS:HB2	1:V:570:TRP:CE3	2.53	0.44
1:X:325:THR:HB	1:X:425:ILE:HG21	2.00	0.44
1:Y:121:ALA:HB3	1:Y:124:VAL:HG23	1.99	0.44
1:Y:515:PHE:CZ	1:g:209:PRO:HB2	2.53	0.44
1:Z:138:MET:HG2	1:Z:541:ALA:HB1	2.00	0.44
1:Z:569:LYS:HB2	1:Z:570:TRP:CE3	2.53	0.44
1:a:59:TRP:CZ3	1:a:542:LYS:HB2	2.53	0.44
1:a:569:LYS:HB2	1:a:570:TRP:CE3	2.53	0.44
1:b:138:MET:HG2	1:b:541:ALA:HB1	2.00	0.44
1:b:209:PRO:HB2	1:m:515:PHE:CZ	2.53	0.44
1:c:569:LYS:HB2	1:c:570:TRP:CE3	2.53	0.44
1:e:430:ASN:H	1:e:433:GLN:HB2	1.83	0.44
1:f:138:MET:HG2	1:f:541:ALA:HB1	2.00	0.44
1:g:59:TRP:CZ3	1:g:542:LYS:HB2	2.53	0.44
1:g:483:HIS:HE1	1:4:462:PHE:CA	2.27	0.44
1:h:59:TRP:CZ3	1:h:542:LYS:HB2	2.53	0.44
1:h:158:VAL:HG21	1:v:513:ASP:HB3	2.00	0.44
1:i:209:PRO:HB2	1:r:515:PHE:CZ	2.53	0.44
1:j:121:ALA:HB3	1:j:124:VAL:HG23	1.99	0.44
1:k:515:PHE:CZ	1:u:209:PRO:HB2	2.53	0.44
1:m:351:PHE:HB3	1:x:419:PHE:CZ	2.51	0.44
1:q:419:PHE:CZ	1:v:351:PHE:HB3	2.51	0.44
1:r:59:TRP:CZ3	1:r:542:LYS:HB2	2.53	0.44
1:r:121:ALA:HB3	1:r:124:VAL:HG23	1.99	0.44
1:r:430:ASN:H	1:r:433:GLN:HB2	1.83	0.44
1:u:569:LYS:HB2	1:u:570:TRP:CE3	2.53	0.44
1:v:578:MET:HE3	1:v:578:MET:HB3	1.85	0.44
1:w:325:THR:HB	1:w:425:ILE:HG21	2.00	0.44
1:x:158:VAL:HG21	1:6:513:ASP:HB3	2.00	0.44
1:x:495:CYS:SG	1:x:499:PRO:HA	2.58	0.44
1:y:495:CYS:SG	1:y:499:PRO:HA	2.58	0.44
1:z:59:TRP:CZ3	1:z:542:LYS:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:569:LYS:HB2	1:3:570:TRP:CE3	2.53	0.44
1:4:495:CYS:SG	1:4:499:PRO:HA	2.58	0.44
1:5:59:TRP:CZ3	1:5:542:LYS:HB2	2.53	0.44
1:7:121:ALA:HB3	1:7:124:VAL:HG23	1.99	0.44
1:8:121:ALA:HB3	1:8:124:VAL:HG23	1.99	0.44
1:A:495:CYS:SG	1:A:499:PRO:HA	2.58	0.44
1:A:589:PRO:HG2	1:P:251:GLN:HE21	1.82	0.44
1:B:495:CYS:SG	1:B:499:PRO:HA	2.58	0.44
1:C:59:TRP:CZ3	1:C:542:LYS:HB2	2.53	0.44
1:E:413:ARG:NE	1:M:352:GLU:OE2	2.50	0.44
1:F:495:CYS:SG	1:F:499:PRO:HA	2.58	0.44
1:G:462:PHE:CA	1:X:483:HIS:HE1	2.27	0.44
1:G:515:PHE:CZ	1:U:209:PRO:HB2	2.53	0.44
1:H:59:TRP:CZ3	1:H:542:LYS:HB2	2.53	0.44
1:I:59:TRP:CZ3	1:I:542:LYS:HB2	2.53	0.44
1:K:515:PHE:CZ	1:c:209:PRO:HB2	2.53	0.44
1:M:462:PHE:CE2	1:O:483:HIS:CE1	3.05	0.44
1:M:515:PHE:CZ	1:r:209:PRO:HB2	2.53	0.44
1:N:135:GLN:HE21	1:N:586:ARG:H	1.66	0.44
1:P:121:ALA:HB3	1:P:124:VAL:HG23	1.99	0.44
1:P:300:ILE:CG2	1:R:109:GLN:HE22	2.03	0.44
1:S:59:TRP:CZ3	1:S:542:LYS:HB2	2.53	0.44
1:S:430:ASN:H	1:S:433:GLN:HB2	1.83	0.44
1:T:515:PHE:CZ	1:f:209:PRO:HB2	2.53	0.44
1:U:263:LEU:HD12	1:k:152:ASN:HD22	1.71	0.44
1:U:453:PHE:HZ	1:f:350:ASN:ND2	2.14	0.44
1:X:121:ALA:HB3	1:X:124:VAL:HG23	1.99	0.44
1:Y:430:ASN:H	1:Y:433:GLN:HB2	1.83	0.44
1:a:138:MET:HG2	1:a:541:ALA:HB1	2.00	0.44
1:b:483:HIS:HE1	1:s:462:PHE:CA	2.27	0.44
1:c:430:ASN:H	1:c:433:GLN:HB2	1.83	0.44
1:d:430:ASN:H	1:d:433:GLN:HB2	1.83	0.44
1:d:495:CYS:SG	1:d:499:PRO:HA	2.58	0.44
1:e:209:PRO:HB2	1:4:515:PHE:CZ	2.53	0.44
1:e:461:ALA:HB2	1:k:485:PRO:HD3	2.00	0.44
1:e:569:LYS:HB2	1:e:570:TRP:CE3	2.53	0.44
1:g:485:PRO:HD3	1:4:461:ALA:HB2	2.00	0.44
1:h:430:ASN:H	1:h:433:GLN:HB2	1.83	0.44
1:h:462:PHE:CE2	1:l:483:HIS:CE1	3.05	0.44
1:i:59:TRP:CZ3	1:i:542:LYS:HB2	2.53	0.44
1:i:135:GLN:HE21	1:i:586:ARG:H	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:121:ALA:HB3	1:k:124:VAL:HG23	1.99	0.44
1:m:569:LYS:HB2	1:m:570:TRP:CE3	2.53	0.44
1:n:495:CYS:SG	1:n:499:PRO:HA	2.58	0.44
1:n:515:PHE:CZ	1:w:209:PRO:HB2	2.53	0.44
1:o:121:ALA:HB3	1:o:124:VAL:HG23	1.99	0.44
1:o:483:HIS:CB	1:t:486:ARG:NH2	2.71	0.44
1:p:461:ALA:HB2	1:x:485:PRO:HD3	2.00	0.44
1:p:569:LYS:HB2	1:p:570:TRP:CE3	2.53	0.44
1:t:59:TRP:CZ3	1:t:542:LYS:HB2	2.53	0.44
1:t:430:ASN:H	1:t:433:GLN:HB2	1.83	0.44
1:v:430:ASN:H	1:v:433:GLN:HB2	1.83	0.44
1:v:495:CYS:SG	1:v:499:PRO:HA	2.58	0.44
1:w:121:ALA:HB3	1:w:124:VAL:HG23	1.99	0.44
1:x:59:TRP:CZ3	1:x:542:LYS:HB2	2.53	0.44
1:y:569:LYS:HB2	1:y:570:TRP:CE3	2.53	0.44
1:1:495:CYS:SG	1:1:499:PRO:HA	2.58	0.44
1:3:59:TRP:CZ3	1:3:542:LYS:HB2	2.53	0.44
1:6:138:MET:HG2	1:6:541:ALA:HB1	2.00	0.44
1:8:138:MET:HG2	1:8:541:ALA:HB1	2.00	0.44
1:8:569:LYS:HB2	1:8:570:TRP:CE3	2.53	0.44
1:A:430:ASN:H	1:A:433:GLN:HB2	1.83	0.43
1:B:413:ARG:NE	1:F:352:GLU:OE2	2.50	0.43
1:D:121:ALA:HB3	1:D:124:VAL:HG23	1.99	0.43
1:D:325:THR:HB	1:D:425:ILE:HG21	2.00	0.43
1:E:209:PRO:HB2	1:d:515:PHE:CZ	2.53	0.43
1:F:515:PHE:CZ	1:X:209:PRO:HB2	2.53	0.43
1:G:121:ALA:HB3	1:G:124:VAL:HG23	1.99	0.43
1:G:251:GLN:HE21	1:Z:589:PRO:HG2	1.82	0.43
1:H:569:LYS:HB2	1:H:570:TRP:CE3	2.53	0.43
1:I:589:PRO:HG2	1:K:251:GLN:HE21	1.82	0.43
1:J:59:TRP:CZ3	1:J:542:LYS:HB2	2.53	0.43
1:J:152:ASN:HD22	1:o:263:LEU:HD13	1.82	0.43
1:J:569:LYS:HB2	1:J:570:TRP:CE3	2.53	0.43
1:M:135:GLN:HE21	1:M:586:ARG:H	1.66	0.43
1:M:430:ASN:H	1:M:433:GLN:HB2	1.83	0.43
1:N:515:PHE:CZ	1:p:209:PRO:HB2	2.53	0.43
1:O:495:CYS:SG	1:O:499:PRO:HA	2.58	0.43
1:P:453:PHE:HZ	1:R:350:ASN:ND2	2.14	0.43
1:Q:59:TRP:CZ3	1:Q:542:LYS:HB2	2.53	0.43
1:Q:101:MET:HE2	1:Q:101:MET:HB2	1.89	0.43
1:Q:135:GLN:HE21	1:Q:586:ARG:H	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:158:VAL:HG21	1:W:513:ASP:HB3	2.00	0.43
1:Q:209:PRO:HB2	1:W:515:PHE:CZ	2.53	0.43
1:Q:419:PHE:CZ	1:T:351:PHE:HB3	2.51	0.43
1:Q:430:ASN:H	1:Q:433:GLN:HB2	1.83	0.43
1:Q:489:VAL:HG21	1:V:459:LEU:HD11	2.00	0.43
1:S:135:GLN:HE21	1:S:586:ARG:H	1.66	0.43
1:S:459:LEU:HD11	1:n:489:VAL:HG21	2.00	0.43
1:V:209:PRO:HB2	1:i:515:PHE:CZ	2.53	0.43
1:W:138:MET:HG2	1:W:541:ALA:HB1	2.00	0.43
1:W:430:ASN:H	1:W:433:GLN:HB2	1.83	0.43
1:X:263:LEU:HD13	1:2:152:ASN:HD22	1.82	0.43
1:X:461:ALA:HB2	1:Z:485:PRO:HD3	2.00	0.43
1:X:469:TYR:HA	1:X:470:PRO:HA	1.82	0.43
1:Y:486:ARG:NH2	1:2:483:HIS:CB	2.71	0.43
1:Y:513:ASP:HB3	1:g:158:VAL:HG21	2.00	0.43
1:Z:495:CYS:SG	1:Z:499:PRO:HA	2.58	0.43
1:a:135:GLN:HE21	1:a:586:ARG:H	1.66	0.43
1:a:251:GLN:HE21	1:2:589:PRO:HG2	1.82	0.43
1:a:345:MET:HE3	1:a:345:MET:HB3	1.85	0.43
1:c:138:MET:HG2	1:c:541:ALA:HB1	2.00	0.43
1:d:135:GLN:HE21	1:d:586:ARG:H	1.66	0.43
1:d:569:LYS:HB2	1:d:570:TRP:CE3	2.53	0.43
1:e:138:MET:HG2	1:e:541:ALA:HB1	2.00	0.43
1:e:152:ASN:HD22	1:4:263:LEU:HD13	1.82	0.43
1:e:513:ASP:HB3	1:l:158:VAL:HG21	2.00	0.43
1:g:325:THR:HB	1:g:425:ILE:HG21	2.00	0.43
1:g:461:ALA:HB2	1:u:485:PRO:HD3	2.00	0.43
1:h:135:GLN:HE21	1:h:586:ARG:H	1.66	0.43
1:i:138:MET:HG2	1:i:541:ALA:HB1	2.00	0.43
1:j:251:GLN:HE21	1:v:589:PRO:HG2	1.82	0.43
1:j:413:ARG:NE	1:q:352:GLU:OE2	2.50	0.43
1:l:495:CYS:SG	1:l:499:PRO:HA	2.58	0.43
1:m:589:PRO:HG2	1:p:251:GLN:HE21	1.82	0.43
1:n:135:GLN:HE21	1:n:586:ARG:H	1.66	0.43
1:n:325:THR:HB	1:n:425:ILE:HG21	2.00	0.43
1:n:430:ASN:H	1:n:433:GLN:HB2	1.83	0.43
1:o:209:PRO:HB2	1:y:515:PHE:CZ	2.53	0.43
1:o:483:HIS:HE1	1:t:462:PHE:CA	2.27	0.43
1:r:135:GLN:HE21	1:r:586:ARG:H	1.66	0.43
1:s:209:PRO:HB2	1:t:515:PHE:CZ	2.53	0.43
1:s:485:PRO:HD3	1:6:461:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:495:CYS:SG	1:t:499:PRO:HA	2.58	0.43
1:u:59:TRP:CZ3	1:u:542:LYS:HB2	2.53	0.43
1:x:135:GLN:HE21	1:x:586:ARG:H	1.66	0.43
1:x:209:PRO:HB2	1:6:515:PHE:CZ	2.53	0.43
1:y:352:GLU:OE2	1:1:413:ARG:NE	2.50	0.43
1:1:101:MET:HE2	1:1:101:MET:HB2	1.89	0.43
1:1:138:MET:HG2	1:1:541:ALA:HB1	2.00	0.43
1:1:209:PRO:HB2	1:8:515:PHE:CZ	2.53	0.43
1:1:350:ASN:ND2	1:5:453:PHE:HZ	2.14	0.43
1:2:101:MET:HE2	1:2:101:MET:HB2	1.89	0.43
1:2:569:LYS:HB2	1:2:570:TRP:CE3	2.53	0.43
1:3:138:MET:HG2	1:3:541:ALA:HB1	2.00	0.43
1:4:152:ASN:HD22	1:5:263:LEU:HD13	1.82	0.43
1:4:158:VAL:HG21	1:5:513:ASP:HB3	2.00	0.43
1:7:430:ASN:H	1:7:433:GLN:HB2	1.83	0.43
1:8:430:ASN:H	1:8:433:GLN:HB2	1.83	0.43
1:A:158:VAL:HG21	1:V:513:ASP:HB3	2.00	0.43
1:B:138:MET:HG2	1:B:541:ALA:HB1	2.00	0.43
1:B:209:PRO:HB2	1:Z:515:PHE:CZ	2.53	0.43
1:C:325:THR:HB	1:C:425:ILE:HG21	2.00	0.43
1:C:461:ALA:HB2	1:I:485:PRO:HD3	2.00	0.43
1:C:483:HIS:HE1	1:K:462:PHE:CA	2.27	0.43
1:E:121:ALA:HB3	1:E:124:VAL:HG23	1.99	0.43
1:F:459:LEU:HD11	1:H:489:VAL:HG21	2.00	0.43
1:G:84:THR:OG1	1:G:108:GLN:NE2	2.50	0.43
1:G:495:CYS:SG	1:G:499:PRO:HA	2.58	0.43
1:G:548:THR:O	1:2:129:SER:OG	2.30	0.43
1:G:569:LYS:HB2	1:G:570:TRP:CE3	2.53	0.43
1:H:263:LEU:HD13	1:K:152:ASN:HD22	1.82	0.43
1:H:430:ASN:H	1:H:433:GLN:HB2	1.83	0.43
1:J:129:SER:OG	1:t:548:THR:O	2.30	0.43
1:J:138:MET:HG2	1:J:541:ALA:HB1	2.00	0.43
1:J:263:LEU:HD13	1:Y:152:ASN:HD22	1.82	0.43
1:J:462:PHE:CE2	1:3:483:HIS:CE1	3.06	0.43
1:J:589:PRO:HG2	1:3:251:GLN:HE21	1.82	0.43
1:L:461:ALA:HB2	1:c:485:PRO:HD3	2.00	0.43
1:M:138:MET:HG2	1:M:541:ALA:HB1	2.00	0.43
1:M:453:PHE:HZ	1:O:350:ASN:ND2	2.14	0.43
1:M:495:CYS:SG	1:M:499:PRO:HA	2.58	0.43
1:N:138:MET:HG2	1:N:541:ALA:HB1	2.00	0.43
1:N:351:PHE:HB3	1:d:419:PHE:CZ	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:158:VAL:HG21	1:c:513:ASP:HB3	2.00	0.43
1:P:413:ARG:NE	1:R:352:GLU:OE2	2.50	0.43
1:P:569:LYS:HB2	1:P:570:TRP:CE3	2.53	0.43
1:R:121:ALA:HB3	1:R:124:VAL:HG23	1.99	0.43
1:R:495:CYS:SG	1:R:499:PRO:HA	2.58	0.43
1:U:462:PHE:CE2	1:f:483:HIS:CE1	3.06	0.43
1:U:485:PRO:HD3	1:W:461:ALA:HB2	2.00	0.43
1:V:138:MET:HG2	1:V:541:ALA:HB1	2.00	0.43
1:Y:59:TRP:CZ3	1:Y:542:LYS:HB2	2.53	0.43
1:Y:251:GLN:HE21	1:a:589:PRO:HG2	1.82	0.43
1:Y:462:PHE:CA	1:2:483:HIS:HE1	2.27	0.43
1:Z:430:ASN:H	1:Z:433:GLN:HB2	1.83	0.43
1:a:109:GLN:HE22	1:2:300:ILE:CG2	2.03	0.43
1:b:350:ASN:ND2	1:s:453:PHE:HZ	2.14	0.43
1:c:325:THR:HB	1:c:425:ILE:HG21	2.00	0.43
1:d:325:THR:HB	1:d:425:ILE:HG21	2.00	0.43
1:d:489:VAL:HG21	1:r:459:LEU:HD11	2.00	0.43
1:e:515:PHE:CZ	1:l:209:PRO:HB2	2.53	0.43
1:f:430:ASN:H	1:f:433:GLN:HB2	1.83	0.43
1:h:138:MET:HG2	1:h:541:ALA:HB1	2.00	0.43
1:h:453:PHE:HZ	1:l:350:ASN:ND2	2.14	0.43
1:h:495:CYS:SG	1:h:499:PRO:HA	2.58	0.43
1:j:453:PHE:HZ	1:q:350:ASN:ND2	2.14	0.43
1:k:325:THR:HB	1:k:425:ILE:HG21	2.00	0.43
1:n:569:LYS:HB2	1:n:570:TRP:CE3	2.53	0.43
1:o:461:ALA:HB2	1:8:485:PRO:HD3	2.00	0.43
1:p:138:MET:HG2	1:p:541:ALA:HB1	2.00	0.43
1:p:459:LEU:HD11	1:x:489:VAL:HG21	2.00	0.43
1:q:121:ALA:HB3	1:q:124:VAL:HG23	1.99	0.43
1:q:495:CYS:SG	1:q:499:PRO:HA	2.58	0.43
1:t:121:ALA:HB3	1:t:124:VAL:HG23	1.99	0.43
1:x:430:ASN:H	1:x:433:GLN:HB2	1.83	0.43
1:y:430:ASN:H	1:y:433:GLN:HB2	1.83	0.43
1:y:483:HIS:HE1	1:1:462:PHE:CA	2.27	0.43
1:2:59:TRP:CZ3	1:2:542:LYS:HB2	2.53	0.43
1:3:135:GLN:HE21	1:3:586:ARG:H	1.66	0.43
1:3:345:MET:HE3	1:3:345:MET:HB3	1.85	0.43
1:3:589:PRO:HG2	1:7:251:GLN:HE21	1.82	0.43
1:4:121:ALA:HB3	1:4:124:VAL:HG23	1.99	0.43
1:4:209:PRO:HB2	1:5:515:PHE:CZ	2.53	0.43
1:5:569:LYS:HB2	1:5:570:TRP:CE3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:430:ASN:H	1:6:433:GLN:HB2	1.83	0.43
1:8:495:CYS:SG	1:8:499:PRO:HA	2.58	0.43
1:A:325:THR:HB	1:A:425:ILE:HG21	2.00	0.43
1:E:158:VAL:HG21	1:d:513:ASP:HB3	2.00	0.43
1:E:430:ASN:H	1:E:433:GLN:HB2	1.83	0.43
1:F:430:ASN:H	1:F:433:GLN:HB2	1.83	0.43
1:H:138:MET:HG2	1:H:541:ALA:HB1	2.00	0.43
1:H:513:ASP:HB3	1:K:158:VAL:HG21	2.00	0.43
1:H:515:PHE:CZ	1:K:209:PRO:HB2	2.53	0.43
1:J:209:PRO:HB2	1:o:515:PHE:CZ	2.53	0.43
1:K:121:ALA:HB3	1:K:124:VAL:HG23	1.99	0.43
1:N:158:VAL:HG21	1:S:513:ASP:HB3	2.00	0.43
1:O:209:PRO:HB2	1:c:515:PHE:CZ	2.53	0.43
1:P:135:GLN:HE21	1:P:586:ARG:H	1.66	0.43
1:S:253:PHE:HE1	1:i:548:THR:CG2	2.25	0.43
1:S:461:ALA:HB2	1:n:485:PRO:HD3	2.00	0.43
1:T:461:ALA:HB2	1:V:485:PRO:HD3	2.00	0.43
1:T:495:CYS:SG	1:T:499:PRO:HA	2.58	0.43
1:U:495:CYS:SG	1:U:499:PRO:HA	2.58	0.43
1:X:548:THR:CG2	1:Z:253:PHE:HE1	2.25	0.43
1:Y:569:LYS:HB2	1:Y:570:TRP:CE3	2.53	0.43
1:Z:325:THR:HB	1:Z:425:ILE:HG21	2.00	0.43
1:a:430:ASN:H	1:a:433:GLN:HB2	1.83	0.43
1:a:483:HIS:CE1	1:2:462:PHE:CE2	3.06	0.43
1:b:430:ASN:H	1:b:433:GLN:HB2	1.83	0.43
1:b:486:ARG:NH2	1:6:483:HIS:CB	2.71	0.43
1:d:158:VAL:HG21	1:x:513:ASP:HB3	2.00	0.43
1:d:209:PRO:HB2	1:x:515:PHE:CZ	2.53	0.43
1:d:485:PRO:HD3	1:r:461:ALA:HB2	2.00	0.43
1:e:325:THR:HB	1:e:425:ILE:HG21	2.00	0.43
1:e:485:PRO:HD3	1:z:461:ALA:HB2	2.00	0.43
1:i:158:VAL:HG21	1:r:513:ASP:HB3	2.00	0.43
1:j:135:GLN:HE21	1:j:586:ARG:H	1.66	0.43
1:j:569:LYS:HB2	1:j:570:TRP:CE3	2.53	0.43
1:m:461:ALA:HB2	1:p:485:PRO:HD3	2.00	0.43
1:m:495:CYS:SG	1:m:499:PRO:HA	2.58	0.43
1:n:513:ASP:HB3	1:w:158:VAL:HG21	2.00	0.43
1:o:158:VAL:HG21	1:y:513:ASP:HB3	2.00	0.43
1:o:548:THR:CG2	1:8:253:PHE:HE1	2.25	0.43
1:r:569:LYS:HB2	1:r:570:TRP:CE3	2.53	0.43
1:s:495:CYS:SG	1:s:499:PRO:HA	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:84:THR:OG1	1:t:108:GLN:NE2	2.50	0.43
1:t:569:LYS:HB2	1:t:570:TRP:CE3	2.53	0.43
1:v:325:THR:HB	1:v:425:ILE:HG21	2.00	0.43
1:x:101:MET:HE2	1:x:101:MET:HB2	1.89	0.43
1:y:59:TRP:CZ3	1:y:542:LYS:HB2	2.53	0.43
1:y:459:LEU:HD11	1:5:489:VAL:HG21	2.00	0.43
1:2:138:MET:HG2	1:2:541:ALA:HB1	2.00	0.43
1:2:263:LEU:HD13	1:7:152:ASN:HD22	1.82	0.43
1:4:138:MET:HG2	1:4:541:ALA:HB1	2.00	0.43
1:5:430:ASN:H	1:5:433:GLN:HB2	1.83	0.43
1:7:59:TRP:CZ3	1:7:542:LYS:HB2	2.53	0.43
1:7:495:CYS:SG	1:7:499:PRO:HA	2.58	0.43
1:7:569:LYS:HB2	1:7:570:TRP:CE3	2.53	0.43
1:A:485:PRO:HD3	1:R:461:ALA:HB2	2.00	0.43
1:A:569:LYS:HB2	1:A:570:TRP:CE3	2.53	0.43
1:B:101:MET:HE2	1:B:101:MET:HB2	1.89	0.43
1:B:350:ASN:ND2	1:H:453:PHE:HZ	2.14	0.43
1:D:152:ASN:HD22	1:s:263:LEU:HD12	1.71	0.43
1:D:513:ASP:HB3	1:I:158:VAL:HG21	2.00	0.43
1:F:59:TRP:CZ3	1:F:542:LYS:HB2	2.53	0.43
1:G:253:PHE:HE1	1:Z:548:THR:CG2	2.25	0.43
1:G:485:PRO:HD3	1:Z:461:ALA:HB2	2.00	0.43
1:J:158:VAL:HG21	1:o:513:ASP:HB3	2.00	0.43
1:J:483:HIS:CB	1:7:486:ARG:NH2	2.71	0.43
1:K:59:TRP:CZ3	1:K:542:LYS:HB2	2.53	0.43
1:K:138:MET:HG2	1:K:541:ALA:HB1	2.00	0.43
1:M:461:ALA:HB2	1:O:485:PRO:HD3	2.00	0.43
1:N:469:TYR:HA	1:N:470:PRO:HA	1.82	0.43
1:Q:453:PHE:HZ	1:T:350:ASN:ND2	2.14	0.43
1:Q:515:PHE:CZ	1:n:209:PRO:HB2	2.53	0.43
1:S:485:PRO:HD3	1:i:461:ALA:HB2	2.00	0.43
1:S:569:LYS:HB2	1:S:570:TRP:CE3	2.53	0.43
1:T:135:GLN:HE21	1:T:586:ARG:H	1.66	0.43
1:T:589:PRO:HG2	1:V:251:GLN:HE21	1.82	0.43
1:W:350:ASN:ND2	1:f:453:PHE:HZ	2.14	0.43
1:W:483:HIS:HE1	1:f:462:PHE:CB	2.19	0.43
1:X:515:PHE:CZ	1:2:209:PRO:HB2	2.53	0.43
1:Y:138:MET:HG2	1:Y:541:ALA:HB1	2.00	0.43
1:Y:485:PRO:HD3	1:a:461:ALA:HB2	2.00	0.43
1:Y:495:CYS:SG	1:Y:499:PRO:HA	2.58	0.43
1:b:459:LEU:HD11	1:6:489:VAL:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:483:HIS:CE1	1:s:462:PHE:CE2	3.06	0.43
1:b:515:PHE:CZ	1:8:209:PRO:HB2	2.53	0.43
1:c:121:ALA:HB3	1:c:124:VAL:HG23	1.99	0.43
1:e:489:VAL:HG21	1:z:459:LEU:HD11	2.00	0.43
1:g:135:GLN:HE21	1:g:586:ARG:H	1.66	0.43
1:h:461:ALA:HB2	1:l:485:PRO:HD3	2.00	0.43
1:q:461:ALA:HB2	1:v:485:PRO:HD3	2.00	0.43
1:t:251:GLN:HE21	1:8:589:PRO:HG2	1.82	0.43
1:w:430:ASN:H	1:w:433:GLN:HB2	1.83	0.43
1:2:121:ALA:HB3	1:2:124:VAL:HG23	1.99	0.43
1:3:461:ALA:HB2	1:7:485:PRO:HD3	2.00	0.43
1:5:138:MET:HG2	1:5:541:ALA:HB1	2.00	0.43
1:7:138:MET:HG2	1:7:541:ALA:HB1	2.00	0.43
1:8:325:THR:HB	1:8:425:ILE:HG21	2.00	0.43
1:A:59:TRP:CZ3	1:A:542:LYS:HB2	2.53	0.43
1:A:203:GLY:H	1:A:210:THR:CG2	2.32	0.43
1:A:253:PHE:HE1	1:R:548:THR:CG2	2.25	0.43
1:A:461:ALA:HB2	1:P:485:PRO:HD3	2.00	0.43
1:A:559:SER:OG	1:V:246:GLN:HA	2.19	0.43
1:B:462:PHE:CA	1:F:483:HIS:HE1	2.27	0.43
1:C:135:GLN:HE21	1:C:586:ARG:H	1.66	0.43
1:C:138:MET:HG2	1:C:541:ALA:HB1	2.00	0.43
1:E:135:GLN:HE21	1:E:586:ARG:H	1.66	0.43
1:F:101:MET:HE2	1:F:101:MET:HB2	1.89	0.43
1:F:513:ASP:HB3	1:X:158:VAL:HG21	2.00	0.43
1:H:121:ALA:HB3	1:H:124:VAL:HG23	1.99	0.43
1:H:495:CYS:SG	1:H:499:PRO:HA	2.58	0.43
1:H:578:MET:HE3	1:H:578:MET:HB3	1.84	0.43
1:I:101:MET:HE2	1:I:101:MET:HB2	1.89	0.43
1:J:121:ALA:HB3	1:J:124:VAL:HG23	1.99	0.43
1:J:203:GLY:H	1:J:210:THR:CG2	2.32	0.43
1:J:483:HIS:HE1	1:7:462:PHE:CA	2.27	0.43
1:K:430:ASN:H	1:K:433:GLN:HB2	1.83	0.43
1:L:459:LEU:HD11	1:c:489:VAL:HG21	2.00	0.43
1:N:453:PHE:HZ	1:r:350:ASN:ND2	2.14	0.43
1:N:461:ALA:HB2	1:r:485:PRO:HD3	2.00	0.43
1:Q:513:ASP:HB3	1:n:158:VAL:HG21	2.00	0.43
1:W:59:TRP:CZ3	1:W:542:LYS:HB2	2.53	0.43
1:W:253:PHE:HE1	1:f:548:THR:CG2	2.25	0.43
1:W:489:VAL:HG21	1:f:459:LEU:HD11	2.00	0.43
1:X:513:ASP:HB3	1:2:158:VAL:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:203:GLY:H	1:Y:210:THR:CG2	2.32	0.43
1:a:203:GLY:H	1:a:210:THR:CG2	2.32	0.43
1:b:59:TRP:CZ3	1:b:542:LYS:HB2	2.53	0.43
1:b:453:PHE:HZ	1:6:350:ASN:ND2	2.14	0.43
1:b:495:CYS:SG	1:b:499:PRO:HA	2.58	0.43
1:c:135:GLN:HE21	1:c:586:ARG:H	1.66	0.43
1:f:495:CYS:SG	1:f:499:PRO:HA	2.58	0.43
1:g:138:MET:HG2	1:g:541:ALA:HB1	2.00	0.43
1:g:486:ARG:NH2	1:u:483:HIS:CB	2.71	0.43
1:j:469:TYR:HA	1:j:470:PRO:HA	1.82	0.43
1:k:461:ALA:HB2	1:z:485:PRO:HD3	2.00	0.43
1:k:513:ASP:HB3	1:u:158:VAL:HG21	2.00	0.43
1:l:135:GLN:HE21	1:l:586:ARG:H	1.66	0.43
1:l:569:LYS:HB2	1:l:570:TRP:CE3	2.53	0.43
1:m:135:GLN:HE21	1:m:586:ARG:H	1.66	0.43
1:o:152:ASN:HD22	1:y:263:LEU:HD13	1.82	0.43
1:o:483:HIS:HE1	1:t:462:PHE:CB	2.19	0.43
1:t:485:PRO:HD3	1:8:461:ALA:HB2	2.00	0.43
1:v:59:TRP:CZ3	1:v:542:LYS:HB2	2.53	0.43
1:v:203:GLY:H	1:v:210:THR:CG2	2.32	0.43
1:v:569:LYS:HB2	1:v:570:TRP:CE3	2.53	0.43
1:y:101:MET:HE2	1:y:101:MET:HB2	1.89	0.43
1:z:430:ASN:H	1:z:433:GLN:HB2	1.83	0.43
1:2:203:GLY:H	1:2:210:THR:CG2	2.32	0.43
1:3:203:GLY:H	1:3:210:THR:CG2	2.32	0.43
1:3:430:ASN:H	1:3:433:GLN:HB2	1.83	0.43
1:4:59:TRP:CZ3	1:4:542:LYS:HB2	2.53	0.43
1:5:121:ALA:HB3	1:5:124:VAL:HG23	1.99	0.43
1:6:59:TRP:CZ3	1:6:542:LYS:HB2	2.53	0.43
1:8:203:GLY:H	1:8:210:THR:CG2	2.32	0.43
1:B:483:HIS:CE1	1:H:462:PHE:CE2	3.06	0.43
1:B:490:THR:HG23	1:H:339:PRO:HA	2.01	0.43
1:D:461:ALA:HB2	1:L:485:PRO:HD3	2.00	0.43
1:E:339:PRO:HA	1:M:490:THR:HG23	2.01	0.43
1:G:209:PRO:HB2	1:a:515:PHE:CZ	2.53	0.43
1:G:459:LEU:HD11	1:X:489:VAL:HG21	2.00	0.43
1:G:461:ALA:HB2	1:X:485:PRO:HD3	2.00	0.43
1:H:158:VAL:HG21	1:R:513:ASP:HB3	2.00	0.43
1:I:263:LEU:HD13	1:3:152:ASN:HD22	1.82	0.43
1:I:430:ASN:H	1:I:433:GLN:HB2	1.83	0.43
1:I:515:PHE:CZ	1:3:209:PRO:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:459:LEU:HD11	1:3:489:VAL:HG21	2.00	0.43
1:L:339:PRO:HA	1:c:490:THR:HG23	2.01	0.43
1:L:462:PHE:CE2	1:c:483:HIS:CE1	3.06	0.43
1:L:469:TYR:HA	1:L:470:PRO:HA	1.82	0.43
1:N:203:GLY:H	1:N:210:THR:CG2	2.32	0.43
1:N:325:THR:HB	1:N:425:ILE:HG21	2.00	0.43
1:N:548:THR:CG2	1:r:253:PHE:HE1	2.25	0.43
1:O:135:GLN:HE21	1:O:586:ARG:H	1.66	0.43
1:O:569:LYS:HB2	1:O:570:TRP:CE3	2.53	0.43
1:P:203:GLY:H	1:P:210:THR:CG2	2.32	0.43
1:P:325:THR:HB	1:P:425:ILE:HG21	2.00	0.43
1:Q:203:GLY:H	1:Q:210:THR:CG2	2.32	0.43
1:S:578:MET:HE3	1:S:578:MET:HB3	1.85	0.43
1:T:453:PHE:HZ	1:V:350:ASN:ND2	2.14	0.43
1:U:138:MET:HG2	1:U:541:ALA:HB1	2.00	0.43
1:U:489:VAL:HG21	1:W:459:LEU:HD11	2.00	0.43
1:W:203:GLY:H	1:W:210:THR:CG2	2.32	0.43
1:W:569:LYS:HB2	1:W:570:TRP:CE3	2.53	0.43
1:X:300:ILE:HG21	1:Z:109:GLN:HE21	1.84	0.43
1:X:462:PHE:CB	1:Z:483:HIS:HE1	2.19	0.43
1:Z:203:GLY:H	1:Z:210:THR:CG2	2.32	0.43
1:Z:209:PRO:HB2	1:f:515:PHE:CZ	2.53	0.43
1:a:152:ASN:HD22	1:u:263:LEU:HD13	1.82	0.43
1:a:209:PRO:HB2	1:u:515:PHE:CZ	2.53	0.43
1:e:121:ALA:HB3	1:e:124:VAL:HG23	1.99	0.43
1:e:135:GLN:HE21	1:e:586:ARG:H	1.66	0.43
1:e:483:HIS:CE1	1:z:462:PHE:CE2	3.06	0.43
1:e:490:THR:HG23	1:z:339:PRO:HA	2.01	0.43
1:f:59:TRP:CZ3	1:f:542:LYS:HB2	2.53	0.43
1:h:209:PRO:HB2	1:v:515:PHE:CZ	2.53	0.43
1:h:485:PRO:HD3	1:w:461:ALA:HB2	2.00	0.43
1:h:490:THR:HG23	1:w:339:PRO:HA	2.01	0.43
1:i:203:GLY:H	1:i:210:THR:CG2	2.32	0.43
1:i:325:THR:HB	1:i:425:ILE:HG21	2.00	0.43
1:j:203:GLY:H	1:j:210:THR:CG2	2.32	0.43
1:j:325:THR:HB	1:j:425:ILE:HG21	2.00	0.43
1:m:350:ASN:ND2	1:x:453:PHE:HZ	2.14	0.43
1:m:453:PHE:HZ	1:p:350:ASN:ND2	2.14	0.43
1:m:459:LEU:HD11	1:p:489:VAL:HG21	2.00	0.43
1:o:300:ILE:HG21	1:8:109:GLN:HE21	1.84	0.43
1:o:462:PHE:CB	1:8:483:HIS:HE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:138:MET:HG2	1:s:541:ALA:HB1	2.00	0.43
1:t:203:GLY:H	1:t:210:THR:CG2	2.32	0.43
1:t:483:HIS:CE1	1:8:462:PHE:CE2	3.05	0.43
1:w:135:GLN:HE21	1:w:586:ARG:H	1.66	0.43
1:x:203:GLY:H	1:x:210:THR:CG2	2.32	0.43
1:y:109:GLN:HE21	1:1:300:ILE:HG21	1.84	0.43
1:z:325:THR:HB	1:z:425:ILE:HG21	2.00	0.43
1:1:483:HIS:CE1	1:5:462:PHE:CE2	3.06	0.43
1:1:490:THR:HG23	1:5:339:PRO:HA	2.01	0.43
1:5:495:CYS:SG	1:5:499:PRO:HA	2.58	0.43
1:6:203:GLY:H	1:6:210:THR:CG2	2.32	0.43
1:7:203:GLY:H	1:7:210:THR:CG2	2.32	0.43
1:B:203:GLY:H	1:B:210:THR:CG2	2.32	0.43
1:B:300:ILE:HG21	1:F:109:GLN:HE21	1.84	0.43
1:B:559:SER:OG	1:Z:246:GLN:HA	2.19	0.43
1:C:300:ILE:HG21	1:I:109:GLN:HE21	1.84	0.43
1:D:203:GLY:H	1:D:210:THR:CG2	2.32	0.43
1:E:300:ILE:HG21	1:M:109:GLN:HE21	1.84	0.43
1:E:461:ALA:HB2	1:M:485:PRO:HD3	2.00	0.43
1:G:203:GLY:H	1:G:210:THR:CG2	2.32	0.43
1:G:246:GLN:HA	1:U:559:SER:OG	2.19	0.43
1:G:483:HIS:CE1	1:Z:462:PHE:CE2	3.05	0.43
1:J:286:HIS:NE2	1:3:248:LEU:HG	2.34	0.43
1:K:569:LYS:HB2	1:K:570:TRP:CE3	2.53	0.43
1:L:325:THR:HB	1:L:425:ILE:HG21	2.00	0.43
1:L:430:ASN:H	1:L:433:GLN:HB2	1.83	0.43
1:L:515:PHE:CZ	1:6:209:PRO:HB2	2.53	0.43
1:Q:490:THR:HG23	1:V:339:PRO:HA	2.01	0.43
1:Q:569:LYS:HB2	1:Q:570:TRP:CE3	2.53	0.43
1:S:350:ASN:ND2	1:i:453:PHE:HZ	2.14	0.43
1:U:59:TRP:CZ3	1:U:542:LYS:HB2	2.53	0.43
1:V:495:CYS:SG	1:V:499:PRO:HA	2.58	0.43
1:W:40:GLY:CA	1:z:39:ILE:CG2	2.94	0.43
1:Z:158:VAL:HG21	1:f:513:ASP:HB3	2.00	0.43
1:a:485:PRO:HD3	1:2:461:ALA:HB2	2.00	0.43
1:a:489:VAL:HG21	1:2:459:LEU:HD11	2.00	0.43
1:a:495:CYS:SG	1:a:499:PRO:HA	2.58	0.43
1:b:462:PHE:CB	1:6:483:HIS:HE1	2.19	0.43
1:b:485:PRO:HD3	1:s:461:ALA:HB2	2.00	0.43
1:b:569:LYS:HB2	1:b:570:TRP:CE3	2.53	0.43
1:o:485:PRO:HD3	1:t:461:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:135:GLN:HE21	1:p:586:ARG:H	1.66	0.43
1:p:246:GLN:HA	1:v:559:SER:OG	2.19	0.43
1:p:495:CYS:SG	1:p:499:PRO:HA	2.58	0.43
1:q:246:GLN:HA	1:5:559:SER:OG	2.19	0.43
1:q:513:ASP:HB3	1:5:158:VAL:HG21	2.00	0.43
1:s:59:TRP:CZ3	1:s:542:LYS:HB2	2.53	0.43
1:s:489:VAL:HG21	1:6:459:LEU:HD11	2.00	0.43
1:s:559:SER:OG	1:t:246:GLN:HA	2.19	0.43
1:s:569:LYS:HB2	1:s:570:TRP:CE3	2.53	0.43
1:t:209:PRO:HB2	1:3:515:PHE:CZ	2.53	0.43
1:t:253:PHE:HE1	1:8:548:THR:CG2	2.25	0.43
1:u:138:MET:HG2	1:u:541:ALA:HB1	2.00	0.43
1:u:430:ASN:H	1:u:433:GLN:HB2	1.83	0.43
1:w:495:CYS:SG	1:w:499:PRO:HA	2.58	0.43
1:x:138:MET:HG2	1:x:541:ALA:HB1	2.00	0.43
1:x:569:LYS:HB2	1:x:570:TRP:CE3	2.53	0.43
1:z:469:TYR:HA	1:z:470:PRO:HA	1.82	0.43
1:1:203:GLY:H	1:1:210:THR:CG2	2.32	0.43
1:1:559:SER:OG	1:8:246:GLN:HA	2.19	0.43
1:3:495:CYS:SG	1:3:499:PRO:HA	2.58	0.43
1:4:430:ASN:H	1:4:433:GLN:HB2	1.83	0.43
1:4:569:LYS:HB2	1:4:570:TRP:CE3	2.53	0.43
1:B:325:THR:HB	1:B:425:ILE:HG21	2.00	0.43
1:D:286:HIS:NE2	1:L:248:LEU:HG	2.34	0.43
1:E:203:GLY:H	1:E:210:THR:CG2	2.32	0.43
1:E:569:LYS:HB2	1:E:570:TRP:CE3	2.53	0.43
1:F:246:GLN:HA	1:X:559:SER:OG	2.19	0.43
1:F:263:LEU:HD13	1:X:152:ASN:HD22	1.82	0.43
1:H:559:SER:OG	1:R:246:GLN:HA	2.19	0.43
1:J:461:ALA:HB2	1:3:485:PRO:HD3	2.00	0.43
1:K:325:THR:HB	1:K:425:ILE:HG21	2.00	0.43
1:L:39:ILE:CG2	1:6:40:GLY:CA	2.94	0.43
1:L:138:MET:HG2	1:L:541:ALA:HB1	2.00	0.43
1:P:59:TRP:CZ3	1:P:542:LYS:HB2	2.53	0.43
1:P:339:PRO:HA	1:R:490:THR:HG23	2.01	0.43
1:P:461:ALA:HB2	1:R:485:PRO:HD3	2.00	0.43
1:Q:185:ASP:O	1:Q:188:ASN:ND2	2.52	0.43
1:Q:286:HIS:NE2	1:T:248:LEU:HG	2.34	0.43
1:S:101:MET:HE2	1:S:101:MET:HB2	1.89	0.43
1:S:286:HIS:NE2	1:n:248:LEU:HG	2.34	0.43
1:S:325:THR:HB	1:S:425:ILE:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:559:SER:OG	1:h:246:GLN:HA	2.19	0.43
1:T:459:LEU:HD11	1:V:489:VAL:HG21	2.00	0.43
1:U:135:GLN:HE21	1:U:586:ARG:H	1.66	0.43
1:U:248:LEU:HG	1:W:286:HIS:NE2	2.34	0.43
1:U:461:ALA:HB2	1:f:485:PRO:HD3	2.00	0.43
1:U:569:LYS:HB2	1:U:570:TRP:CE3	2.53	0.43
1:V:135:GLN:HE21	1:V:586:ARG:H	1.66	0.43
1:V:158:VAL:HG21	1:i:513:ASP:HB3	2.00	0.43
1:W:109:GLN:HE21	1:f:300:ILE:HG21	1.84	0.43
1:W:483:HIS:CB	1:f:486:ARG:NH2	2.71	0.43
1:W:485:PRO:HD3	1:f:461:ALA:HB2	2.00	0.43
1:W:490:THR:HG23	1:f:339:PRO:HA	2.01	0.43
1:X:569:LYS:HB2	1:X:570:TRP:CE3	2.53	0.43
1:Y:325:THR:HB	1:Y:425:ILE:HG21	2.00	0.43
1:a:248:LEU:HG	1:2:286:HIS:NE2	2.34	0.43
1:b:339:PRO:HA	1:6:490:THR:HG23	2.01	0.43
1:b:461:ALA:HB2	1:6:485:PRO:HD3	2.00	0.43
1:b:490:THR:HG23	1:s:339:PRO:HA	2.01	0.43
1:b:513:ASP:HB3	1:8:158:VAL:HG21	2.00	0.43
1:b:548:THR:CG2	1:6:253:PHE:HE1	2.25	0.43
1:b:559:SER:OG	1:m:246:GLN:HA	2.19	0.43
1:d:248:LEU:HG	1:r:286:HIS:NE2	2.34	0.43
1:f:569:LYS:HB2	1:f:570:TRP:CE3	2.53	0.43
1:g:300:ILE:HG21	1:u:109:GLN:HE21	1.84	0.43
1:h:109:GLN:HE21	1:w:300:ILE:HG21	1.84	0.43
1:h:339:PRO:HA	1:l:490:THR:HG23	2.01	0.43
1:h:569:LYS:HB2	1:h:570:TRP:CE3	2.53	0.43
1:j:59:TRP:CZ3	1:j:542:LYS:HB2	2.53	0.43
1:j:339:PRO:HA	1:q:490:THR:HG23	2.01	0.43
1:j:485:PRO:HD3	1:v:461:ALA:HB2	2.00	0.43
1:k:203:GLY:H	1:k:210:THR:CG2	2.32	0.43
1:m:248:LEU:HG	1:x:286:HIS:NE2	2.34	0.43
1:o:489:VAL:HG21	1:t:459:LEU:HD11	2.00	0.43
1:o:559:SER:OG	1:y:246:GLN:HA	2.19	0.43
1:p:339:PRO:HA	1:x:490:THR:HG23	2.01	0.43
1:p:515:PHE:CZ	1:v:209:PRO:HB2	2.53	0.43
1:r:578:MET:HE3	1:r:578:MET:HB3	1.85	0.43
1:s:135:GLN:HE21	1:s:586:ARG:H	1.66	0.43
1:s:248:LEU:HG	1:6:286:HIS:NE2	2.34	0.43
1:u:101:MET:HB2	1:u:101:MET:HE2	1.89	0.43
1:w:203:GLY:H	1:w:210:THR:CG2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:515:PHE:CZ	1:z:209:PRO:HB2	2.53	0.43
1:w:569:LYS:HB2	1:w:570:TRP:CE3	2.53	0.43
1:x:185:ASP:O	1:x:188:ASN:ND2	2.52	0.43
1:x:326:GLN:C	1:x:328:VAL:H	2.27	0.43
1:1:325:THR:HB	1:1:425:ILE:HG21	2.00	0.43
1:2:515:PHE:CZ	1:7:209:PRO:HB2	2.53	0.43
1:4:203:GLY:H	1:4:210:THR:CG2	2.32	0.43
1:4:325:THR:HB	1:4:425:ILE:HG21	2.00	0.43
1:6:569:LYS:HB2	1:6:570:TRP:CE3	2.53	0.43
1:B:286:HIS:NE2	1:F:248:LEU:HG	2.34	0.43
1:B:351:PHE:HB3	1:H:419:PHE:CZ	2.51	0.43
1:B:515:PHE:CZ	1:P:209:PRO:HB2	2.53	0.43
1:C:248:LEU:HG	1:K:286:HIS:NE2	2.34	0.43
1:C:486:ARG:NH2	1:I:483:HIS:CB	2.71	0.43
1:E:495:CYS:SG	1:E:499:PRO:HA	2.58	0.43
1:E:515:PHE:CZ	1:L:209:PRO:HB2	2.53	0.43
1:F:135:GLN:HE21	1:F:586:ARG:H	1.66	0.43
1:H:325:THR:HB	1:H:425:ILE:HG21	2.00	0.43
1:I:138:MET:HG2	1:I:541:ALA:HB1	2.00	0.43
1:I:203:GLY:H	1:I:210:THR:CG2	2.32	0.43
1:I:486:ARG:NH2	1:K:483:HIS:CB	2.71	0.43
1:J:515:PHE:CZ	1:Y:209:PRO:HB2	2.53	0.43
1:K:203:GLY:H	1:K:210:THR:CG2	2.32	0.43
1:M:246:GLN:HA	1:r:559:SER:OG	2.19	0.43
1:M:339:PRO:HA	1:O:490:THR:HG23	2.01	0.43
1:M:569:LYS:HB2	1:M:570:TRP:CE3	2.53	0.43
1:N:185:ASP:O	1:N:188:ASN:ND2	2.52	0.43
1:N:490:THR:HG23	1:d:339:PRO:HA	2.01	0.43
1:N:569:LYS:HB2	1:N:570:TRP:CE3	2.53	0.43
1:O:138:MET:HG2	1:O:541:ALA:HB1	2.00	0.43
1:Q:138:MET:HG2	1:Q:541:ALA:HB1	2.00	0.43
1:S:203:GLY:H	1:S:210:THR:CG2	2.32	0.43
1:S:462:PHE:CA	1:n:483:HIS:HE1	2.27	0.43
1:T:246:GLN:HA	1:f:559:SER:OG	2.19	0.43
1:T:513:ASP:HB3	1:f:158:VAL:HG21	2.00	0.43
1:U:326:GLN:C	1:U:328:VAL:H	2.27	0.43
1:U:339:PRO:HA	1:f:490:THR:HG23	2.01	0.43
1:U:513:ASP:HB3	1:k:158:VAL:HG21	2.00	0.43
1:W:135:GLN:HE21	1:W:586:ARG:H	1.66	0.43
1:W:209:PRO:HB2	1:z:515:PHE:CZ	2.53	0.43
1:X:286:HIS:NE2	1:Z:248:LEU:HG	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:135:GLN:HE21	1:Z:586:ARG:H	1.66	0.43
1:a:351:PHE:HB3	1:2:419:PHE:CZ	2.51	0.43
1:b:300:ILE:HG21	1:6:109:GLN:HE21	1.84	0.43
1:e:39:ILE:CG2	1:l:40:GLY:CA	2.94	0.43
1:g:248:LEU:HG	1:4:286:HIS:NE2	2.34	0.43
1:h:345:MET:HE3	1:h:345:MET:HB3	1.85	0.43
1:i:185:ASP:O	1:i:188:ASN:ND2	2.52	0.43
1:i:490:THR:HG23	1:n:339:PRO:HA	2.01	0.43
1:i:569:LYS:HB2	1:i:570:TRP:CE3	2.53	0.43
1:j:209:PRO:HB2	1:1:515:PHE:CZ	2.53	0.43
1:j:246:GLN:HA	1:m:559:SER:OG	2.19	0.43
1:j:461:ALA:HB2	1:q:485:PRO:HD3	2.00	0.43
1:k:286:HIS:NE2	1:z:248:LEU:HG	2.34	0.43
1:l:138:MET:HG2	1:l:541:ALA:HB1	2.00	0.43
1:o:109:GLN:HE21	1:t:300:ILE:HG21	1.84	0.43
1:o:569:LYS:HB2	1:o:570:TRP:CE3	2.53	0.43
1:q:462:PHE:CE2	1:v:483:HIS:CE1	3.06	0.43
1:r:325:THR:HB	1:r:425:ILE:HG21	2.00	0.43
1:s:326:GLN:C	1:s:328:VAL:H	2.27	0.43
1:t:248:LEU:HG	1:8:286:HIS:NE2	2.34	0.43
1:t:483:HIS:CB	1:8:486:ARG:NH2	2.71	0.43
1:u:486:ARG:NH2	1:4:483:HIS:CB	2.71	0.43
1:y:248:LEU:HG	1:1:286:HIS:NE2	2.34	0.43
1:z:138:MET:HG2	1:z:541:ALA:HB1	2.00	0.43
1:5:325:THR:HB	1:5:425:ILE:HG21	2.00	0.43
1:6:135:GLN:HE21	1:6:586:ARG:H	1.66	0.43
1:7:325:THR:HB	1:7:425:ILE:HG21	2.00	0.43
1:A:209:PRO:HB2	1:V:515:PHE:CZ	2.53	0.43
1:A:515:PHE:CZ	1:M:209:PRO:HB2	2.54	0.43
1:C:246:GLN:HA	1:F:559:SER:OG	2.19	0.43
1:C:453:PHE:HZ	1:I:350:ASN:ND2	2.14	0.43
1:D:152:ASN:HD22	1:s:263:LEU:HD13	1.82	0.43
1:D:158:VAL:HG21	1:s:513:ASP:HB3	2.00	0.43
1:D:462:PHE:CE2	1:L:483:HIS:CE1	3.06	0.43
1:F:339:PRO:HA	1:H:490:THR:HG23	2.01	0.43
1:G:248:LEU:HG	1:Z:286:HIS:NE2	2.34	0.43
1:G:286:HIS:NE2	1:X:248:LEU:HG	2.34	0.43
1:G:300:ILE:HG21	1:X:109:GLN:HE21	1.84	0.43
1:G:462:PHE:CB	1:X:483:HIS:HE1	2.19	0.43
1:N:286:HIS:NE2	1:r:248:LEU:HG	2.34	0.43
1:N:513:ASP:HB3	1:p:158:VAL:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:40:GLY:CA	1:c:39:ILE:CG2	2.94	0.43
1:O:185:ASP:O	1:O:188:ASN:ND2	2.52	0.43
1:O:430:ASN:H	1:O:433:GLN:HB2	1.83	0.43
1:P:246:GLN:HA	1:T:559:SER:OG	2.19	0.43
1:P:469:TYR:HA	1:P:470:PRO:HA	1.82	0.43
1:R:135:GLN:HE21	1:R:586:ARG:H	1.66	0.43
1:T:203:GLY:H	1:T:210:THR:CG2	2.32	0.43
1:T:326:GLN:C	1:T:328:VAL:H	2.27	0.43
1:U:203:GLY:H	1:U:210:THR:CG2	2.32	0.43
1:U:286:HIS:NE2	1:f:248:LEU:HG	2.34	0.43
1:W:185:ASP:O	1:W:188:ASN:ND2	2.52	0.43
1:W:326:GLN:C	1:W:328:VAL:H	2.27	0.43
1:X:326:GLN:C	1:X:328:VAL:H	2.27	0.43
1:Y:246:GLN:HA	1:g:559:SER:OG	2.19	0.43
1:Z:59:TRP:CZ3	1:Z:542:LYS:HB2	2.53	0.43
1:a:325:THR:HB	1:a:425:ILE:HG21	2.00	0.43
1:b:121:ALA:HB3	1:b:124:VAL:HG23	1.99	0.43
1:b:158:VAL:HG21	1:m:513:ASP:HB3	2.00	0.43
1:c:495:CYS:SG	1:c:499:PRO:HA	2.58	0.43
1:f:121:ALA:HB3	1:f:124:VAL:HG23	1.99	0.43
1:f:203:GLY:H	1:f:210:THR:CG2	2.32	0.43
1:g:246:GLN:HA	1:y:559:SER:OG	2.19	0.43
1:g:453:PHE:HZ	1:u:350:ASN:ND2	2.14	0.43
1:k:462:PHE:H	1:z:483:HIS:HE1	1.60	0.43
1:l:185:ASP:O	1:l:188:ASN:ND2	2.52	0.43
1:m:326:GLN:C	1:m:328:VAL:H	2.27	0.43
1:o:248:LEU:HG	1:t:286:HIS:NE2	2.34	0.43
1:o:286:HIS:NE2	1:8:248:LEU:HG	2.34	0.43
1:o:326:GLN:C	1:o:328:VAL:H	2.27	0.43
1:p:325:THR:HB	1:p:425:ILE:HG21	2.00	0.43
1:q:548:THR:CG2	1:v:253:PHE:HE1	2.25	0.43
1:r:203:GLY:H	1:r:210:THR:CG2	2.32	0.43
1:u:203:GLY:H	1:u:210:THR:CG2	2.32	0.43
1:y:135:GLN:HE21	1:y:586:ARG:H	1.66	0.43
1:y:339:PRO:HA	1:5:490:THR:HG23	2.01	0.43
1:2:345:MET:HE3	1:2:345:MET:HB3	1.84	0.43
1:3:286:HIS:NE2	1:7:248:LEU:HG	2.34	0.43
1:3:325:THR:HB	1:3:425:ILE:HG21	2.00	0.43
1:3:453:PHE:HZ	1:7:350:ASN:ND2	2.14	0.43
1:6:185:ASP:O	1:6:188:ASN:ND2	2.52	0.43
1:6:326:GLN:C	1:6:328:VAL:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:59:TRP:CZ3	1:8:542:LYS:HB2	2.53	0.43
1:8:135:GLN:HE21	1:8:586:ARG:H	1.66	0.43
1:C:121:ALA:HB3	1:C:124:VAL:HG23	1.99	0.42
1:D:138:MET:HG2	1:D:541:ALA:HB1	2.00	0.42
1:D:490:THR:HG23	1:c:339:PRO:HA	2.01	0.42
1:F:70:LEU:HD13	1:F:210:THR:HB	2.01	0.42
1:I:135:GLN:HE21	1:I:586:ARG:H	1.66	0.42
1:J:485:PRO:HD3	1:7:461:ALA:HB2	2.00	0.42
1:K:135:GLN:HE21	1:K:586:ARG:H	1.66	0.42
1:K:185:ASP:O	1:K:188:ASN:ND2	2.52	0.42
1:M:203:GLY:H	1:M:210:THR:CG2	2.32	0.42
1:Q:462:PHE:CE2	1:T:483:HIS:CE1	3.06	0.42
1:R:70:LEU:HD13	1:R:210:THR:HB	2.01	0.42
1:R:203:GLY:H	1:R:210:THR:CG2	2.32	0.42
1:R:326:GLN:C	1:R:328:VAL:H	2.27	0.42
1:S:248:LEU:HG	1:i:286:HIS:NE2	2.34	0.42
1:U:263:LEU:HD13	1:k:152:ASN:HD22	1.82	0.42
1:V:325:THR:HB	1:V:425:ILE:HG21	2.00	0.42
1:W:559:SER:OG	1:z:246:GLN:HA	2.19	0.42
1:Y:248:LEU:HG	1:a:286:HIS:NE2	2.34	0.42
1:Y:462:PHE:CE2	1:2:483:HIS:CE1	3.06	0.42
1:Z:345:MET:HE3	1:Z:345:MET:HB3	1.85	0.42
1:a:469:TYR:HA	1:a:470:PRO:HA	1.82	0.42
1:b:203:GLY:H	1:b:210:THR:CG2	2.32	0.42
1:b:246:GLN:HA	1:8:559:SER:OG	2.19	0.42
1:b:248:LEU:HG	1:s:286:HIS:NE2	2.34	0.42
1:c:70:LEU:HD13	1:c:210:THR:HB	2.01	0.42
1:e:70:LEU:HD13	1:e:210:THR:HB	2.01	0.42
1:e:101:MET:HE2	1:e:101:MET:HB2	1.89	0.42
1:e:339:PRO:HA	1:k:490:THR:HG23	2.01	0.42
1:e:453:PHE:HE2	1:k:350:ASN:ND2	2.11	0.42
1:g:121:ALA:HB3	1:g:124:VAL:HG23	1.99	0.42
1:h:185:ASP:O	1:h:188:ASN:ND2	2.52	0.42
1:h:203:GLY:H	1:h:210:THR:CG2	2.32	0.42
1:i:430:ASN:H	1:i:433:GLN:HB2	1.83	0.42
1:k:138:MET:HG2	1:k:541:ALA:HB1	2.00	0.42
1:k:462:PHE:CE2	1:z:483:HIS:CE1	3.06	0.42
1:l:430:ASN:H	1:l:433:GLN:HB2	1.83	0.42
1:m:203:GLY:H	1:m:210:THR:CG2	2.32	0.42
1:n:578:MET:HE3	1:n:578:MET:HB3	1.85	0.42
1:o:138:MET:HG2	1:o:541:ALA:HB1	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:70:LEU:HD13	1:q:210:THR:HB	2.01	0.42
1:q:138:MET:HG2	1:q:541:ALA:HB1	2.00	0.42
1:q:203:GLY:H	1:q:210:THR:CG2	2.32	0.42
1:q:326:GLN:C	1:q:328:VAL:H	2.27	0.42
1:s:203:GLY:H	1:s:210:THR:CG2	2.32	0.42
1:u:419:PHE:CZ	1:4:351:PHE:HB3	2.51	0.42
1:w:138:MET:HG2	1:w:541:ALA:HB1	2.00	0.42
1:w:345:MET:HE3	1:w:345:MET:HB3	1.85	0.42
1:y:70:LEU:HD13	1:y:210:THR:HB	2.01	0.42
1:z:185:ASP:O	1:z:188:ASN:ND2	2.52	0.42
1:1:351:PHE:HB3	1:5:419:PHE:CZ	2.51	0.42
1:2:246:GLN:HA	1:7:559:SER:OG	2.19	0.42
1:4:135:GLN:HE21	1:4:586:ARG:H	1.66	0.42
1:4:185:ASP:O	1:4:188:ASN:ND2	2.52	0.42
1:5:578:MET:HE3	1:5:578:MET:HB3	1.84	0.42
1:B:326:GLN:C	1:B:328:VAL:H	2.27	0.42
1:C:70:LEU:HD13	1:C:210:THR:HB	2.01	0.42
1:C:339:PRO:HA	1:I:490:THR:HG23	2.01	0.42
1:C:559:SER:OG	1:7:246:GLN:HA	2.19	0.42
1:D:40:GLY:CA	1:s:39:ILE:CG2	2.94	0.42
1:D:246:GLN:HA	1:I:559:SER:OG	2.19	0.42
1:D:248:LEU:HG	1:c:286:HIS:NE2	2.34	0.42
1:E:138:MET:HG2	1:E:541:ALA:HB1	2.00	0.42
1:G:185:ASP:O	1:G:188:ASN:ND2	2.52	0.42
1:G:339:PRO:HA	1:X:490:THR:HG23	2.01	0.42
1:J:135:GLN:HE21	1:J:586:ARG:H	1.66	0.42
1:J:419:PHE:CZ	1:3:351:PHE:HB3	2.51	0.42
1:J:483:HIS:CE1	1:7:462:PHE:CE2	3.06	0.42
1:L:185:ASP:O	1:L:188:ASN:ND2	2.52	0.42
1:L:246:GLN:HA	1:6:559:SER:OG	2.19	0.42
1:L:513:ASP:HB3	1:6:158:VAL:HG21	2.00	0.42
1:M:185:ASP:O	1:M:188:ASN:ND2	2.52	0.42
1:N:430:ASN:H	1:N:433:GLN:HB2	1.83	0.42
1:Q:461:ALA:HB2	1:T:485:PRO:HD3	2.00	0.42
1:R:138:MET:HG2	1:R:541:ALA:HB1	2.00	0.42
1:T:138:MET:HG2	1:T:541:ALA:HB1	2.00	0.42
1:U:129:SER:OG	1:Z:548:THR:O	2.30	0.42
1:X:138:MET:HG2	1:X:541:ALA:HB1	2.00	0.42
1:X:284:LEU:O	1:X:586:ARG:HA	2.20	0.42
1:Y:286:HIS:NE2	1:2:248:LEU:HG	2.34	0.42
1:Z:185:ASP:O	1:Z:188:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:559:SER:OG	1:f:246:GLN:HA	2.19	0.42
1:a:158:VAL:HG21	1:u:513:ASP:HB3	2.00	0.42
1:c:345:MET:HE3	1:c:345:MET:HB3	1.85	0.42
1:d:138:MET:HG2	1:d:541:ALA:HB1	2.00	0.42
1:d:483:HIS:HE1	1:r:462:PHE:CA	2.27	0.42
1:e:495:CYS:SG	1:e:499:PRO:HA	2.58	0.42
1:f:284:LEU:O	1:f:586:ARG:HA	2.19	0.42
1:h:248:LEU:HG	1:w:286:HIS:NE2	2.34	0.42
1:i:70:LEU:HD13	1:i:210:THR:HB	2.01	0.42
1:i:248:LEU:HG	1:n:286:HIS:NE2	2.34	0.42
1:k:246:GLN:HA	1:u:559:SER:OG	2.19	0.42
1:m:138:MET:HG2	1:m:541:ALA:HB1	2.00	0.42
1:m:483:HIS:CE1	1:x:462:PHE:CE2	3.06	0.42
1:o:490:THR:HG23	1:t:339:PRO:HA	2.01	0.42
1:p:203:GLY:H	1:p:210:THR:CG2	2.32	0.42
1:p:462:PHE:CA	1:x:483:HIS:HE1	2.27	0.42
1:q:135:GLN:HE21	1:q:586:ARG:H	1.66	0.42
1:r:101:MET:HE2	1:r:101:MET:HB2	1.89	0.42
1:s:185:ASP:O	1:s:188:ASN:ND2	2.52	0.42
1:t:185:ASP:O	1:t:188:ASN:ND2	2.52	0.42
1:u:135:GLN:HE21	1:u:586:ARG:H	1.66	0.42
1:y:185:ASP:O	1:y:188:ASN:ND2	2.52	0.42
1:y:286:HIS:NE2	1:5:248:LEU:HG	2.34	0.42
1:1:326:GLN:C	1:1:328:VAL:H	2.27	0.42
1:5:185:ASP:O	1:5:188:ASN:ND2	2.52	0.42
1:A:109:GLN:HE21	1:R:300:ILE:HG21	1.84	0.42
1:A:284:LEU:O	1:A:586:ARG:HA	2.19	0.42
1:A:483:HIS:CE1	1:R:462:PHE:CE2	3.06	0.42
1:B:70:LEU:HD13	1:B:210:THR:HB	2.01	0.42
1:C:185:ASP:O	1:C:188:ASN:ND2	2.52	0.42
1:D:109:GLN:HE21	1:c:300:ILE:HG21	1.84	0.42
1:D:284:LEU:O	1:D:586:ARG:HA	2.19	0.42
1:D:326:GLN:C	1:D:328:VAL:H	2.27	0.42
1:D:350:ASN:ND2	1:c:453:PHE:HE2	2.11	0.42
1:D:462:PHE:H	1:L:483:HIS:HE1	1.60	0.42
1:E:286:HIS:NE2	1:M:248:LEU:HG	2.34	0.42
1:F:185:ASP:O	1:F:188:ASN:ND2	2.52	0.42
1:G:325:THR:HB	1:G:425:ILE:HG21	2.00	0.42
1:G:483:HIS:CB	1:Z:486:ARG:NH2	2.71	0.42
1:H:185:ASP:O	1:H:188:ASN:ND2	2.52	0.42
1:I:70:LEU:HD13	1:I:210:THR:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:419:PHE:CZ	1:K:351:PHE:HB3	2.51	0.42
1:I:513:ASP:HB3	1:3:158:VAL:HG21	2.00	0.42
1:J:185:ASP:O	1:J:188:ASN:ND2	2.52	0.42
1:J:246:GLN:HA	1:Y:559:SER:OG	2.19	0.42
1:J:248:LEU:HG	1:7:286:HIS:NE2	2.34	0.42
1:J:559:SER:OG	1:o:246:GLN:HA	2.19	0.42
1:L:326:GLN:C	1:L:328:VAL:H	2.27	0.42
1:M:70:LEU:HD13	1:M:210:THR:HB	2.01	0.42
1:N:70:LEU:HD13	1:N:210:THR:HB	2.01	0.42
1:N:248:LEU:HG	1:d:286:HIS:NE2	2.34	0.42
1:N:326:GLN:C	1:N:328:VAL:H	2.27	0.42
1:O:70:LEU:HD13	1:O:210:THR:HB	2.01	0.42
1:P:185:ASP:O	1:P:188:ASN:ND2	2.52	0.42
1:P:300:ILE:HG21	1:R:109:GLN:HE21	1.84	0.42
1:Q:483:HIS:HE1	1:V:462:PHE:CA	2.27	0.42
1:R:569:LYS:HB2	1:R:570:TRP:CE3	2.53	0.42
1:S:185:ASP:HB2	1:S:259:LEU:CD1	2.50	0.42
1:S:483:HIS:HE1	1:i:462:PHE:CB	2.19	0.42
1:T:70:LEU:HD13	1:T:210:THR:HB	2.01	0.42
1:U:39:ILE:CG2	1:k:40:GLY:CA	2.94	0.42
1:U:185:ASP:O	1:U:188:ASN:ND2	2.52	0.42
1:V:185:ASP:O	1:V:188:ASN:ND2	2.52	0.42
1:V:203:GLY:H	1:V:210:THR:CG2	2.32	0.42
1:W:158:VAL:HG21	1:z:513:ASP:HB3	2.00	0.42
1:X:203:GLY:H	1:X:210:THR:CG2	2.32	0.42
1:Y:135:GLN:HE21	1:Y:586:ARG:H	1.66	0.42
1:Y:185:ASP:O	1:Y:188:ASN:ND2	2.52	0.42
1:Y:350:ASN:ND2	1:a:453:PHE:HZ	2.14	0.42
1:Y:461:ALA:HB2	1:2:485:PRO:HD3	2.00	0.42
1:Y:462:PHE:H	1:2:483:HIS:HE1	1.60	0.42
1:Z:70:LEU:HD13	1:Z:210:THR:HB	2.01	0.42
1:Z:284:LEU:O	1:Z:586:ARG:HA	2.20	0.42
1:a:326:GLN:C	1:a:328:VAL:H	2.27	0.42
1:b:284:LEU:O	1:b:586:ARG:HA	2.19	0.42
1:d:185:ASP:HB2	1:d:259:LEU:CD1	2.50	0.42
1:d:185:ASP:O	1:d:188:ASN:ND2	2.52	0.42
1:d:578:MET:HE3	1:d:578:MET:HB3	1.85	0.42
1:e:286:HIS:NE2	1:k:248:LEU:HG	2.34	0.42
1:e:300:ILE:HG21	1:k:109:GLN:HE21	1.84	0.42
1:g:70:LEU:HD13	1:g:210:THR:HB	2.01	0.42
1:g:339:PRO:HA	1:u:490:THR:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:483:HIS:CB	1:4:486:ARG:NH2	2.71	0.42
1:h:325:THR:HB	1:h:425:ILE:HG21	2.00	0.42
1:j:185:ASP:O	1:j:188:ASN:ND2	2.52	0.42
1:j:300:ILE:HG21	1:q:109:GLN:HE21	1.84	0.42
1:k:263:LEU:HD13	1:u:152:ASN:HD22	1.82	0.42
1:k:284:LEU:O	1:k:586:ARG:HA	2.19	0.42
1:k:326:GLN:C	1:k:328:VAL:H	2.27	0.42
1:l:70:LEU:HD13	1:l:210:THR:HB	2.01	0.42
1:n:138:MET:HG2	1:n:541:ALA:HB1	2.00	0.42
1:o:185:ASP:O	1:o:188:ASN:ND2	2.52	0.42
1:o:284:LEU:O	1:o:586:ARG:HA	2.20	0.42
1:p:185:ASP:O	1:p:188:ASN:ND2	2.52	0.42
1:q:569:LYS:HB2	1:q:570:TRP:CE3	2.53	0.42
1:r:185:ASP:HB2	1:r:259:LEU:CD1	2.50	0.42
1:t:138:MET:HG2	1:t:541:ALA:HB1	2.00	0.42
1:u:70:LEU:HD13	1:u:210:THR:HB	2.01	0.42
1:v:138:MET:HG2	1:v:541:ALA:HB1	2.00	0.42
1:v:284:LEU:O	1:v:586:ARG:HA	2.19	0.42
1:y:203:GLY:H	1:y:210:THR:CG2	2.32	0.42
1:y:490:THR:HG23	1:1:339:PRO:HA	2.01	0.42
1:1:70:LEU:HD13	1:1:210:THR:HB	2.01	0.42
1:1:485:PRO:HD3	1:5:461:ALA:HB2	2.00	0.42
1:2:135:GLN:HE21	1:2:586:ARG:H	1.66	0.42
1:3:326:GLN:C	1:3:328:VAL:H	2.27	0.42
1:7:135:GLN:HE21	1:7:586:ARG:H	1.66	0.42
1:8:70:LEU:HD13	1:8:210:THR:HB	2.01	0.42
1:8:185:ASP:O	1:8:188:ASN:ND2	2.52	0.42
1:8:345:MET:HE3	1:8:345:MET:HB3	1.85	0.42
1:B:246:GLN:HA	1:P:559:SER:OG	2.19	0.42
1:B:339:PRO:HA	1:F:490:THR:HG23	2.01	0.42
1:C:203:GLY:H	1:C:210:THR:CG2	2.32	0.42
1:D:300:ILE:HG21	1:L:109:GLN:HE21	1.84	0.42
1:F:138:MET:HG2	1:F:541:ALA:HB1	2.00	0.42
1:F:203:GLY:H	1:F:210:THR:CG2	2.32	0.42
1:F:286:HIS:NE2	1:H:248:LEU:HG	2.34	0.42
1:G:138:MET:HG2	1:G:541:ALA:HB1	2.00	0.42
1:G:559:SER:OG	1:a:246:GLN:HA	2.19	0.42
1:I:339:PRO:HA	1:K:490:THR:HG23	2.01	0.42
1:J:483:HIS:HE1	1:7:462:PHE:H	1.60	0.42
1:M:325:THR:HB	1:M:425:ILE:HG21	2.00	0.42
1:P:286:HIS:NE2	1:R:248:LEU:HG	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:246:GLN:HA	1:n:559:SER:OG	2.19	0.42
1:Q:326:GLN:C	1:Q:328:VAL:H	2.27	0.42
1:S:185:ASP:O	1:S:188:ASN:ND2	2.52	0.42
1:S:326:GLN:C	1:S:328:VAL:H	2.27	0.42
1:T:286:HIS:NE2	1:V:248:LEU:HG	2.34	0.42
1:W:129:SER:OG	1:k:548:THR:O	2.30	0.42
1:X:185:ASP:O	1:X:188:ASN:ND2	2.52	0.42
1:a:559:SER:OG	1:u:246:GLN:HA	2.19	0.42
1:d:559:SER:OG	1:x:246:GLN:HA	2.19	0.42
1:e:345:MET:HE3	1:e:345:MET:HB3	1.85	0.42
1:e:459:LEU:HD11	1:k:489:VAL:HG21	2.00	0.42
1:g:185:ASP:O	1:g:188:ASN:ND2	2.52	0.42
1:h:70:LEU:HD13	1:h:210:THR:HB	2.01	0.42
1:i:326:GLN:C	1:i:328:VAL:H	2.27	0.42
1:j:185:ASP:HB2	1:j:259:LEU:CD1	2.50	0.42
1:l:263:LEU:HD13	1:q:152:ASN:HD22	1.82	0.42
1:l:284:LEU:O	1:l:586:ARG:HA	2.20	0.42
1:m:70:LEU:HD13	1:m:210:THR:HB	2.01	0.42
1:m:286:HIS:NE2	1:p:248:LEU:HG	2.34	0.42
1:m:485:PRO:HD3	1:x:461:ALA:HB2	2.00	0.42
1:n:185:ASP:HB2	1:n:259:LEU:CD1	2.50	0.42
1:n:185:ASP:O	1:n:188:ASN:ND2	2.52	0.42
1:o:203:GLY:H	1:o:210:THR:CG2	2.32	0.42
1:o:430:ASN:H	1:o:433:GLN:HB2	1.83	0.42
1:p:101:MET:HE2	1:p:101:MET:HB2	1.89	0.42
1:p:263:LEU:HD13	1:v:152:ASN:HD22	1.82	0.42
1:s:351:PHE:HB3	1:6:419:PHE:CZ	2.51	0.42
1:t:325:THR:HB	1:t:425:ILE:HG21	2.00	0.42
1:v:469:TYR:HA	1:v:470:PRO:HA	1.82	0.42
1:y:138:MET:HG2	1:y:541:ALA:HB1	2.00	0.42
1:2:185:ASP:O	1:2:188:ASN:ND2	2.52	0.42
1:2:326:GLN:C	1:2:328:VAL:H	2.27	0.42
1:7:185:ASP:O	1:7:188:ASN:ND2	2.52	0.42
1:8:284:LEU:O	1:8:586:ARG:HA	2.20	0.42
1:A:138:MET:HG2	1:A:541:ALA:HB1	2.00	0.42
1:A:152:ASN:HD22	1:V:263:LEU:HD13	1.83	0.42
1:A:185:ASP:HB2	1:A:259:LEU:CD1	2.50	0.42
1:A:300:ILE:HG21	1:P:109:GLN:HE21	1.83	0.42
1:A:326:GLN:C	1:A:328:VAL:H	2.27	0.42
1:B:485:PRO:HD3	1:H:461:ALA:HB2	2.00	0.42
1:B:548:THR:CG2	1:F:253:PHE:HE1	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:39:ILE:CG2	1:I:40:GLY:CA	2.94	0.42
1:D:185:ASP:O	1:D:188:ASN:ND2	2.52	0.42
1:F:462:PHE:H	1:H:483:HIS:HE1	1.59	0.42
1:H:209:PRO:HB2	1:R:515:PHE:CZ	2.53	0.42
1:I:246:GLN:HA	1:3:559:SER:OG	2.19	0.42
1:J:326:GLN:C	1:J:328:VAL:H	2.27	0.42
1:M:263:LEU:HD13	1:r:152:ASN:HD22	1.82	0.42
1:M:345:MET:HE3	1:M:345:MET:HB3	1.85	0.42
1:N:246:GLN:HA	1:p:559:SER:OG	2.19	0.42
1:O:284:LEU:O	1:O:586:ARG:HA	2.20	0.42
1:O:326:GLN:C	1:O:328:VAL:H	2.27	0.42
1:P:185:ASP:HB2	1:P:259:LEU:CD1	2.50	0.42
1:P:462:PHE:CA	1:R:483:HIS:HE1	2.27	0.42
1:Q:459:LEU:HD11	1:T:489:VAL:HG21	2.00	0.42
1:Q:559:SER:OG	1:W:246:GLN:HA	2.19	0.42
1:S:138:MET:HG2	1:S:541:ALA:HB1	2.00	0.42
1:S:300:ILE:HG21	1:n:109:GLN:HE21	1.84	0.42
1:S:462:PHE:CE2	1:n:483:HIS:CE1	3.06	0.42
1:T:284:LEU:O	1:T:586:ARG:HA	2.20	0.42
1:T:300:ILE:HG21	1:V:109:GLN:HE21	1.84	0.42
1:U:333:GLU:CD	1:U:338:ARG:HH22	2.28	0.42
1:W:248:LEU:HG	1:f:286:HIS:NE2	2.34	0.42
1:X:246:GLN:HA	1:2:559:SER:OG	2.19	0.42
1:X:430:ASN:H	1:X:433:GLN:HB2	1.83	0.42
1:b:469:TYR:HA	1:b:470:PRO:HA	1.82	0.42
1:c:101:MET:HE2	1:c:101:MET:HB2	1.89	0.42
1:d:490:THR:HG23	1:r:339:PRO:HA	2.01	0.42
1:e:109:GLN:HE21	1:z:300:ILE:HG21	1.84	0.42
1:e:185:ASP:O	1:e:188:ASN:ND2	2.52	0.42
1:e:203:GLY:H	1:e:210:THR:CG2	2.32	0.42
1:e:246:GLN:HA	1:l:559:SER:OG	2.19	0.42
1:g:203:GLY:H	1:g:210:THR:CG2	2.32	0.42
1:j:286:HIS:NE2	1:q:248:LEU:HG	2.34	0.42
1:j:462:PHE:CA	1:q:483:HIS:HE1	2.27	0.42
1:j:559:SER:OG	1:1:246:GLN:HA	2.19	0.42
1:k:300:ILE:HG21	1:z:109:GLN:HE21	1.84	0.42
1:k:430:ASN:H	1:k:433:GLN:HB2	1.83	0.42
1:l:286:HIS:NE2	1:w:248:LEU:HG	2.34	0.42
1:l:326:GLN:C	1:l:328:VAL:H	2.27	0.42
1:l:461:ALA:HB2	1:w:485:PRO:HD3	2.00	0.42
1:m:483:HIS:HE1	1:x:462:PHE:CB	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:40:GLY:CA	1:y:39:ILE:CG2	2.94	0.42
1:r:185:ASP:O	1:r:188:ASN:ND2	2.52	0.42
1:r:326:GLN:C	1:r:328:VAL:H	2.27	0.42
1:s:548:THR:O	1:8:129:SER:OG	2.30	0.42
1:t:135:GLN:HE21	1:t:586:ARG:H	1.66	0.42
1:u:339:PRO:HA	1:4:490:THR:HG23	2.01	0.42
1:v:185:ASP:HB2	1:v:259:LEU:CD1	2.50	0.42
1:z:326:GLN:C	1:z:328:VAL:H	2.27	0.42
1:A:185:ASP:O	1:A:188:ASN:ND2	2.52	0.42
1:B:489:VAL:HG21	1:H:459:LEU:HD11	2.00	0.42
1:C:483:HIS:CB	1:K:486:ARG:NH2	2.71	0.42
1:D:263:LEU:HD13	1:I:152:ASN:HD22	1.82	0.42
1:D:489:VAL:HG21	1:c:459:LEU:HD11	2.00	0.42
1:E:246:GLN:HA	1:L:559:SER:OG	2.19	0.42
1:E:248:LEU:HG	1:O:286:HIS:NE2	2.34	0.42
1:F:284:LEU:O	1:F:586:ARG:HA	2.19	0.42
1:G:224:GLN:HG2	1:Z:417:ARG:HE	1.85	0.42
1:G:284:LEU:O	1:G:586:ARG:HA	2.20	0.42
1:G:490:THR:HG23	1:Z:339:PRO:HA	2.01	0.42
1:H:135:GLN:HE21	1:H:586:ARG:H	1.66	0.42
1:H:203:GLY:H	1:H:210:THR:CG2	2.32	0.42
1:J:345:MET:HE3	1:J:345:MET:HB3	1.84	0.42
1:J:417:ARG:HE	1:3:224:GLN:HG2	1.85	0.42
1:K:333:GLU:CD	1:K:338:ARG:HH22	2.28	0.42
1:N:300:ILE:HG21	1:r:109:GLN:HE21	1.84	0.42
1:N:462:PHE:CB	1:r:483:HIS:HE1	2.19	0.42
1:O:263:LEU:HD13	1:R:152:ASN:HD22	1.82	0.42
1:O:559:SER:OG	1:c:246:GLN:HA	2.19	0.42
1:P:333:GLU:CD	1:P:338:ARG:HH22	2.28	0.42
1:P:401:ARG:O	2:1A:3:SIA:H6	2.20	0.42
1:Q:417:ARG:HE	1:T:224:GLN:HG2	1.85	0.42
1:S:109:GLN:HE21	1:i:300:ILE:HG21	1.84	0.42
1:S:152:ASN:HD22	1:h:263:LEU:HD13	1.82	0.42
1:S:339:PRO:HA	1:n:490:THR:HG23	2.01	0.42
1:S:401:ARG:O	2:5A:3:SIA:H6	2.20	0.42
1:U:417:ARG:HE	1:f:224:GLN:HG2	1.85	0.42
1:V:559:SER:OG	1:i:246:GLN:HA	2.19	0.42
1:Y:185:ASP:HB2	1:Y:259:LEU:CD1	2.50	0.42
1:Z:333:GLU:CD	1:Z:338:ARG:HH22	2.28	0.42
1:b:286:HIS:NE2	1:6:248:LEU:HG	2.34	0.42
1:c:185:ASP:O	1:c:188:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:203:GLY:H	1:c:210:THR:CG2	2.32	0.42
1:e:417:ARG:HE	1:k:224:GLN:HG2	1.85	0.42
1:i:559:SER:OG	1:r:246:GLN:HA	2.19	0.42
1:j:333:GLU:CD	1:j:338:ARG:HH22	2.28	0.42
1:j:401:ARG:O	2:VB:3:SIA:H6	2.20	0.42
1:k:185:ASP:O	1:k:188:ASN:ND2	2.52	0.42
1:m:224:GLN:HG2	1:x:417:ARG:HE	1.85	0.42
1:m:284:LEU:O	1:m:586:ARG:HA	2.20	0.42
1:m:300:ILE:HG21	1:p:109:GLN:HE21	1.84	0.42
1:m:462:PHE:CE2	1:p:483:HIS:CE1	3.06	0.42
1:q:515:PHE:CZ	1:5:209:PRO:HB2	2.53	0.42
1:r:138:MET:HG2	1:r:541:ALA:HB1	2.00	0.42
1:s:333:GLU:CD	1:s:338:ARG:HH22	2.28	0.42
1:s:578:MET:HE3	1:s:578:MET:HB3	1.85	0.42
1:t:490:THR:HG23	1:8:339:PRO:HA	2.01	0.42
1:t:559:SER:OG	1:3:246:GLN:HA	2.19	0.42
1:u:417:ARG:HE	1:4:224:GLN:HG2	1.85	0.42
1:u:462:PHE:CE2	1:4:483:HIS:CE1	3.06	0.42
1:v:326:GLN:C	1:v:328:VAL:H	2.27	0.42
1:v:381:ARG:HG3	1:v:381:ARG:HH11	1.85	0.42
1:w:246:GLN:HA	1:z:559:SER:OG	2.19	0.42
1:x:559:SER:OG	1:6:246:GLN:HA	2.19	0.42
1:y:461:ALA:HB2	1:5:485:PRO:HD3	2.00	0.42
1:1:284:LEU:O	1:1:586:ARG:HA	2.20	0.42
1:1:430:ASN:H	1:1:433:GLN:HB2	1.83	0.42
1:4:70:LEU:HD13	1:4:210:THR:HB	2.01	0.42
1:4:333:GLU:CD	1:4:338:ARG:HH22	2.28	0.42
1:7:185:ASP:HB2	1:7:259:LEU:CD1	2.50	0.42
1:7:401:ARG:O	2:bA:3:SIA:H6	2.20	0.42
1:8:333:GLU:CD	1:8:338:ARG:HH22	2.28	0.42
1:A:381:ARG:HG3	1:A:381:ARG:HH11	1.85	0.42
1:A:383:ASN:HA	1:A:400:GLU:O	2.20	0.42
1:B:185:ASP:O	1:B:188:ASN:ND2	2.52	0.42
1:B:253:PHE:HE1	1:H:548:THR:CG2	2.25	0.42
1:B:284:LEU:O	1:B:586:ARG:HA	2.20	0.42
1:B:430:ASN:H	1:B:433:GLN:HB2	1.83	0.42
1:C:286:HIS:NE2	1:I:248:LEU:HG	2.34	0.42
1:D:224:GLN:HG2	1:c:417:ARG:HE	1.85	0.42
1:D:333:GLU:CD	1:D:338:ARG:HH22	2.28	0.42
1:D:430:ASN:H	1:D:433:GLN:HB2	1.83	0.42
1:E:485:PRO:HD3	1:O:461:ALA:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:559:SER:OG	1:d:246:GLN:HA	2.19	0.42
1:F:39:ILE:CG2	1:X:40:GLY:CA	2.94	0.42
1:F:326:GLN:C	1:F:328:VAL:H	2.27	0.42
1:F:333:GLU:CD	1:F:338:ARG:HH22	2.28	0.42
1:G:135:GLN:HE21	1:G:586:ARG:H	1.66	0.42
1:H:401:ARG:O	2:pA:3:SIA:H6	2.20	0.42
1:I:185:ASP:O	1:I:188:ASN:ND2	2.52	0.42
1:I:417:ARG:HE	1:K:224:GLN:HG2	1.85	0.42
1:I:462:PHE:CE2	1:K:483:HIS:CE1	3.06	0.42
1:K:70:LEU:HD13	1:K:210:THR:HB	2.01	0.42
1:K:284:LEU:O	1:K:586:ARG:HA	2.20	0.42
1:L:300:ILE:HG21	1:c:109:GLN:HE21	1.84	0.42
1:N:109:GLN:HE21	1:d:300:ILE:HG21	1.84	0.42
1:N:339:PRO:HA	1:r:490:THR:HG23	2.01	0.42
1:N:559:SER:OG	1:S:246:GLN:HA	2.19	0.42
1:Q:381:ARG:HH11	1:Q:381:ARG:HG3	1.85	0.42
1:R:333:GLU:CD	1:R:338:ARG:HH22	2.28	0.42
1:T:333:GLU:CD	1:T:338:ARG:HH22	2.28	0.42
1:T:462:PHE:CE2	1:V:483:HIS:CE1	3.06	0.42
1:U:351:PHE:HB3	1:W:419:PHE:CZ	2.51	0.42
1:X:70:LEU:HD13	1:X:210:THR:HB	2.01	0.42
1:X:135:GLN:HE21	1:X:586:ARG:H	1.66	0.42
1:X:401:ARG:O	2:DB:3:SIA:H6	2.20	0.42
1:X:417:ARG:HE	1:Z:224:GLN:HG2	1.85	0.42
1:Y:70:LEU:HD13	1:Y:210:THR:HB	2.01	0.42
1:Y:401:ARG:O	2:EB:3:SIA:H6	2.20	0.42
1:Y:469:TYR:HA	1:Y:470:PRO:HA	1.82	0.42
1:Z:401:ARG:O	2:GB:3:SIA:H6	2.20	0.42
1:a:224:GLN:HG2	1:2:417:ARG:HE	1.85	0.42
1:b:70:LEU:HD13	1:b:210:THR:HB	2.01	0.42
1:b:185:ASP:O	1:b:188:ASN:ND2	2.52	0.42
1:b:224:GLN:HG2	1:s:417:ARG:HE	1.85	0.42
1:b:401:ARG:O	2:JB:3:SIA:H6	2.20	0.42
1:d:70:LEU:HD13	1:d:210:THR:HB	2.01	0.42
1:d:109:GLN:HE21	1:r:300:ILE:HG21	1.84	0.42
1:d:483:HIS:CE1	1:r:462:PHE:CE2	3.06	0.42
1:f:70:LEU:HD13	1:f:210:THR:HB	2.01	0.42
1:f:401:ARG:O	2:PB:3:SIA:H6	2.20	0.42
1:g:109:GLN:HE21	1:4:300:ILE:HG21	1.84	0.42
1:h:54:PHE:HD1	1:h:60:VAL:HG22	1.85	0.42
1:j:248:LEU:HG	1:v:286:HIS:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:333:GLU:CD	1:k:338:ARG:HH22	2.28	0.42
1:m:333:GLU:CD	1:m:338:ARG:HH22	2.28	0.42
1:n:70:LEU:HD13	1:n:210:THR:HB	2.01	0.42
1:o:70:LEU:HD13	1:o:210:THR:HB	2.01	0.42
1:o:135:GLN:HE21	1:o:586:ARG:H	1.66	0.42
1:o:401:ARG:O	2:AA:3:SIA:H6	2.20	0.42
1:q:300:ILE:HG21	1:v:109:GLN:HE21	1.84	0.42
1:q:333:GLU:CD	1:q:338:ARG:HH22	2.28	0.42
1:q:486:ARG:NH2	1:v:483:HIS:CB	2.71	0.42
1:r:401:ARG:O	2:FA:3:SIA:H6	2.20	0.42
1:s:40:GLY:CA	1:t:39:ILE:CG2	2.94	0.42
1:t:224:GLN:HG2	1:8:417:ARG:HE	1.85	0.42
1:t:284:LEU:O	1:t:586:ARG:HA	2.20	0.42
1:t:401:ARG:O	2:IA:3:SIA:H6	2.20	0.42
1:u:185:ASP:O	1:u:188:ASN:ND2	2.52	0.42
1:w:333:GLU:CD	1:w:338:ARG:HH22	2.28	0.42
1:y:284:LEU:O	1:y:586:ARG:HA	2.19	0.42
1:y:326:GLN:C	1:y:328:VAL:H	2.27	0.42
1:1:253:PHE:HE1	1:5:548:THR:CG2	2.25	0.42
1:1:489:VAL:HG21	1:5:459:LEU:HD11	2.00	0.42
1:2:333:GLU:CD	1:2:338:ARG:HH22	2.28	0.42
1:4:284:LEU:O	1:4:586:ARG:HA	2.20	0.42
1:5:135:GLN:HE21	1:5:586:ARG:H	1.66	0.42
1:5:203:GLY:H	1:5:210:THR:CG2	2.32	0.42
1:7:70:LEU:HD13	1:7:210:THR:HB	2.01	0.42
1:A:286:HIS:NE2	1:P:248:LEU:HG	2.34	0.42
1:A:333:GLU:CD	1:A:338:ARG:HH22	2.28	0.42
1:C:109:GLN:HE21	1:K:300:ILE:HG21	1.84	0.42
1:C:263:LEU:HD13	1:F:152:ASN:HD22	1.82	0.42
1:D:548:THR:O	1:6:129:SER:OG	2.30	0.42
1:E:333:GLU:CD	1:E:338:ARG:HH22	2.28	0.42
1:E:345:MET:HE3	1:E:345:MET:HB3	1.85	0.42
1:F:300:ILE:HG21	1:H:109:GLN:HE21	1.84	0.42
1:F:461:ALA:HB2	1:H:485:PRO:HD3	2.00	0.42
1:G:39:ILE:CG2	1:U:40:GLY:CA	2.94	0.42
1:G:54:PHE:HD1	1:G:60:VAL:HG22	1.85	0.42
1:G:401:ARG:O	2:nA:3:SIA:H6	2.20	0.42
1:H:152:ASN:HD22	1:R:263:LEU:HD13	1.82	0.42
1:I:284:LEU:O	1:I:586:ARG:HA	2.20	0.42
1:I:547:LEU:HD13	1:K:189:ILE:HD13	2.02	0.42
1:J:333:GLU:CD	1:J:338:ARG:HH22	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:54:PHE:HD1	1:M:60:VAL:HG22	1.85	0.42
1:P:138:MET:HG2	1:P:541:ALA:HB1	2.00	0.42
1:Q:248:LEU:HG	1:V:286:HIS:NE2	2.34	0.42
1:R:185:ASP:HB2	1:R:259:LEU:CD1	2.50	0.42
1:S:70:LEU:HD13	1:S:210:THR:HB	2.01	0.42
1:S:292:ARG:HE	1:S:333:GLU:HG3	1.85	0.42
1:U:383:ASN:HA	1:U:400:GLU:O	2.20	0.42
1:W:401:ARG:O	2:BB:3:SIA:H6	2.20	0.42
1:X:54:PHE:HD1	1:X:60:VAL:HG22	1.85	0.42
1:Y:326:GLN:C	1:Y:328:VAL:H	2.27	0.42
1:a:381:ARG:HH11	1:a:381:ARG:HG3	1.85	0.42
1:a:401:ARG:O	2:HB:3:SIA:H6	2.20	0.42
1:b:333:GLU:CD	1:b:338:ARG:HH22	2.28	0.42
1:c:326:GLN:C	1:c:328:VAL:H	2.27	0.42
1:d:469:TYR:HA	1:d:470:PRO:HA	1.82	0.42
1:f:185:ASP:O	1:f:188:ASN:ND2	2.52	0.42
1:g:286:HIS:NE2	1:u:248:LEU:HG	2.34	0.42
1:g:333:GLU:CD	1:g:338:ARG:HH22	2.28	0.42
1:i:185:ASP:HB2	1:i:259:LEU:CD1	2.50	0.42
1:i:401:ARG:O	2:TB:3:SIA:H6	2.20	0.42
1:j:490:THR:HG23	1:v:339:PRO:HA	2.01	0.42
1:k:135:GLN:HE21	1:k:586:ARG:H	1.66	0.42
1:m:489:VAL:HG21	1:x:459:LEU:HD11	2.00	0.42
1:n:246:GLN:HA	1:w:559:SER:OG	2.19	0.42
1:o:417:ARG:HE	1:8:224:GLN:HG2	1.85	0.42
1:q:286:HIS:NE2	1:v:248:LEU:HG	2.34	0.42
1:r:70:LEU:HD13	1:r:210:THR:HB	2.01	0.42
1:r:292:ARG:HE	1:r:333:GLU:HG3	1.85	0.42
1:t:54:PHE:HD1	1:t:60:VAL:HG22	1.85	0.42
1:u:284:LEU:O	1:u:586:ARG:HA	2.20	0.42
1:u:401:ARG:O	2:JA:3:SIA:H6	2.20	0.42
1:u:547:LEU:HD13	1:4:189:ILE:HD13	2.02	0.42
1:v:185:ASP:O	1:v:188:ASN:ND2	2.52	0.42
1:v:333:GLU:CD	1:v:338:ARG:HH22	2.28	0.42
1:v:383:ASN:HA	1:v:400:GLU:O	2.20	0.42
1:x:381:ARG:HG3	1:x:381:ARG:HH11	1.85	0.42
1:y:300:ILE:HG21	1:5:109:GLN:HE21	1.84	0.42
1:y:333:GLU:CD	1:y:338:ARG:HH22	2.28	0.42
1:y:462:PHE:H	1:5:483:HIS:HE1	1.59	0.42
1:1:185:ASP:O	1:1:188:ASN:ND2	2.52	0.42
1:3:381:ARG:HH11	1:3:381:ARG:HG3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:401:ARG:O	2:VA:3:SIA:H6	2.20	0.42
1:3:469:TYR:HA	1:3:470:PRO:HA	1.82	0.42
1:4:559:SER:OG	1:5:246:GLN:HA	2.19	0.42
1:5:401:ARG:O	2:YA:3:SIA:H6	2.20	0.42
1:6:401:ARG:O	2:aA:3:SIA:H6	2.20	0.42
1:7:326:GLN:C	1:7:328:VAL:H	2.27	0.42
1:8:326:GLN:C	1:8:328:VAL:H	2.27	0.42
1:8:401:ARG:O	2:dA:3:SIA:H6	2.20	0.42
1:A:70:LEU:HD13	1:A:210:THR:HB	2.01	0.42
1:A:189:ILE:HD13	1:R:547:LEU:HD13	2.02	0.42
1:A:401:ARG:O	2:eA:3:SIA:H6	2.20	0.42
1:A:462:PHE:CA	1:P:483:HIS:HE1	2.27	0.42
1:A:483:HIS:HE1	1:R:462:PHE:N	2.07	0.42
1:C:326:GLN:C	1:C:328:VAL:H	2.27	0.42
1:C:333:GLU:CD	1:C:338:ARG:HH22	2.28	0.42
1:C:589:PRO:C	1:I:251:GLN:NE2	2.78	0.42
1:D:135:GLN:HE21	1:D:586:ARG:H	1.66	0.42
1:E:101:MET:HE2	1:E:101:MET:HB2	1.89	0.42
1:E:185:ASP:O	1:E:188:ASN:ND2	2.52	0.42
1:E:251:GLN:NE2	1:O:589:PRO:C	2.78	0.42
1:E:459:LEU:HD11	1:M:489:VAL:HG21	2.00	0.42
1:G:70:LEU:HD13	1:G:210:THR:HB	2.01	0.42
1:H:246:GLN:HA	1:K:559:SER:OG	2.19	0.42
1:I:292:ARG:HE	1:I:333:GLU:HG3	1.85	0.42
1:I:401:ARG:O	2:qA:3:SIA:H6	2.20	0.42
1:J:589:PRO:C	1:3:251:GLN:NE2	2.78	0.42
1:M:286:HIS:NE2	1:O:248:LEU:HG	2.34	0.42
1:M:589:PRO:C	1:O:251:GLN:NE2	2.78	0.42
1:N:185:ASP:HB2	1:N:259:LEU:CD1	2.50	0.42
1:N:401:ARG:O	2:yA:3:SIA:H6	2.20	0.42
1:P:284:LEU:O	1:P:586:ARG:HA	2.19	0.42
1:P:383:ASN:HA	1:P:400:GLU:O	2.20	0.42
1:P:462:PHE:CE2	1:R:483:HIS:CE1	3.06	0.42
1:P:589:PRO:C	1:R:251:GLN:NE2	2.78	0.42
1:R:292:ARG:HE	1:R:333:GLU:HG3	1.85	0.42
1:S:42:SER:HG	1:h:265:ARG:HG3	1.84	0.42
1:S:490:THR:HG23	1:i:339:PRO:HA	2.01	0.42
1:S:589:PRO:C	1:n:251:GLN:NE2	2.78	0.42
1:U:589:PRO:C	1:f:251:GLN:NE2	2.78	0.42
1:V:101:MET:HE2	1:V:101:MET:HB2	1.89	0.42
1:Y:383:ASN:HA	1:Y:400:GLU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:70:LEU:HD13	1:a:210:THR:HB	2.01	0.42
1:a:333:GLU:CD	1:a:338:ARG:HH22	2.28	0.42
1:a:383:ASN:HA	1:a:400:GLU:O	2.20	0.42
1:a:490:THR:HG23	1:2:339:PRO:HA	2.01	0.42
1:b:54:PHE:HD1	1:b:60:VAL:HG22	1.85	0.42
1:b:251:GLN:NE2	1:s:589:PRO:C	2.78	0.42
1:d:203:GLY:H	1:d:210:THR:CG2	2.32	0.42
1:d:251:GLN:NE2	1:r:589:PRO:C	2.78	0.42
1:d:326:GLN:C	1:d:328:VAL:H	2.27	0.42
1:e:326:GLN:C	1:e:328:VAL:H	2.27	0.42
1:f:54:PHE:HD1	1:f:60:VAL:HG22	1.85	0.42
1:g:462:PHE:CE2	1:u:483:HIS:CE1	3.06	0.42
1:h:589:PRO:C	1:l:251:GLN:NE2	2.78	0.42
1:i:109:GLN:HE21	1:n:300:ILE:HG21	1.84	0.42
1:j:459:LEU:HD11	1:q:489:VAL:HG21	2.00	0.42
1:j:589:PRO:C	1:q:251:GLN:NE2	2.78	0.42
1:l:589:PRO:C	1:w:251:GLN:NE2	2.78	0.42
1:m:345:MET:HE3	1:m:345:MET:HB3	1.85	0.42
1:n:203:GLY:H	1:n:210:THR:CG2	2.32	0.42
1:o:54:PHE:HD1	1:o:60:VAL:HG22	1.85	0.42
1:p:284:LEU:O	1:p:586:ARG:HA	2.20	0.42
1:p:286:HIS:NE2	1:x:248:LEU:HG	2.34	0.42
1:q:185:ASP:HB2	1:q:259:LEU:CD1	2.50	0.42
1:q:292:ARG:HE	1:q:333:GLU:HG3	1.85	0.42
1:q:383:ASN:HA	1:q:400:GLU:O	2.20	0.42
1:s:383:ASN:HA	1:s:400:GLU:O	2.20	0.42
1:t:70:LEU:HD13	1:t:210:THR:HB	2.01	0.42
1:u:292:ARG:HE	1:u:333:GLU:HG3	1.85	0.42
1:v:70:LEU:HD13	1:v:210:THR:HB	2.01	0.42
1:w:185:ASP:O	1:w:188:ASN:ND2	2.52	0.42
1:y:253:PHE:HE1	1:1:548:THR:CG2	2.25	0.42
1:1:248:LEU:HG	1:5:286:HIS:NE2	2.34	0.42
1:3:333:GLU:CD	1:3:338:ARG:HH22	2.28	0.42
1:4:383:ASN:HA	1:4:400:GLU:O	2.20	0.42
1:A:129:SER:HB2	1:T:546:ASN:OD1	2.20	0.42
1:A:248:LEU:HG	1:R:286:HIS:NE2	2.34	0.42
1:A:339:PRO:HA	1:P:490:THR:HG23	2.01	0.42
1:A:469:TYR:HA	1:A:470:PRO:HA	1.82	0.42
1:B:453:PHE:HE2	1:F:350:ASN:ND2	2.11	0.42
1:B:589:PRO:C	1:F:251:GLN:NE2	2.78	0.42
1:C:251:GLN:NE2	1:K:589:PRO:C	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:417:ARG:HE	1:I:224:GLN:HG2	1.85	0.42
1:C:462:PHE:CE2	1:I:483:HIS:CE1	3.06	0.42
1:D:70:LEU:HD13	1:D:210:THR:HB	2.01	0.42
1:D:251:GLN:NE2	1:c:589:PRO:C	2.78	0.42
1:D:559:SER:OG	1:s:246:GLN:HA	2.19	0.42
1:E:383:ASN:HA	1:E:400:GLU:O	2.20	0.42
1:E:462:PHE:H	1:M:483:HIS:HE1	1.60	0.42
1:E:462:PHE:CA	1:M:483:HIS:HE1	2.27	0.42
1:G:109:GLN:HE21	1:Z:300:ILE:HG21	1.84	0.42
1:G:383:ASN:HA	1:G:400:GLU:O	2.20	0.42
1:G:417:ARG:HE	1:X:224:GLN:HG2	1.85	0.42
1:I:286:HIS:NE2	1:K:248:LEU:HG	2.34	0.42
1:I:326:GLN:C	1:I:328:VAL:H	2.27	0.42
1:I:461:ALA:HB2	1:K:485:PRO:HD3	2.00	0.42
1:J:39:ILE:CG2	1:Y:40:GLY:CA	2.94	0.42
1:J:462:PHE:CA	1:3:483:HIS:HE1	2.27	0.42
1:K:246:GLN:HA	1:c:559:SER:OG	2.19	0.42
1:K:383:ASN:HA	1:K:400:GLU:O	2.20	0.42
1:L:135:GLN:HE21	1:L:586:ARG:H	1.66	0.42
1:L:286:HIS:NE2	1:c:248:LEU:HG	2.34	0.42
1:L:292:ARG:HE	1:L:333:GLU:HG3	1.85	0.42
1:L:381:ARG:HH11	1:L:381:ARG:HG3	1.85	0.42
1:M:284:LEU:O	1:M:586:ARG:HA	2.20	0.42
1:M:292:ARG:HE	1:M:333:GLU:HG3	1.85	0.42
1:N:189:ILE:HD13	1:d:547:LEU:HD13	2.02	0.42
1:N:486:ARG:NH2	1:r:483:HIS:CB	2.71	0.42
1:N:548:THR:O	1:i:129:SER:OG	2.30	0.42
1:O:246:GLN:HA	1:R:559:SER:OG	2.19	0.42
1:Q:462:PHE:CB	1:T:483:HIS:HE1	2.19	0.42
1:Q:589:PRO:C	1:T:251:GLN:NE2	2.78	0.42
1:R:54:PHE:HD1	1:R:60:VAL:HG22	1.85	0.42
1:R:381:ARG:HG3	1:R:381:ARG:HH11	1.85	0.42
1:R:383:ASN:HA	1:R:400:GLU:O	2.20	0.42
1:R:430:ASN:H	1:R:433:GLN:HB2	1.83	0.42
1:S:547:LEU:HD13	1:n:189:ILE:HD13	2.02	0.42
1:U:284:LEU:O	1:U:586:ARG:HA	2.20	0.42
1:U:350:ASN:ND2	1:W:453:PHE:HZ	2.14	0.42
1:U:466:ASP:HB3	1:U:585:CYS:SG	2.60	0.42
1:V:129:SER:HB2	1:n:546:ASN:OD1	2.20	0.42
1:V:284:LEU:O	1:V:586:ARG:HA	2.20	0.42
1:X:383:ASN:HA	1:X:400:GLU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:251:GLN:NE2	1:a:589:PRO:C	2.78	0.42
1:Y:417:ARG:HE	1:2:224:GLN:HG2	1.85	0.42
1:Z:152:ASN:HD22	1:f:263:LEU:HD13	1.82	0.42
1:Z:292:ARG:HE	1:Z:333:GLU:HG3	1.85	0.42
1:Z:326:GLN:C	1:Z:328:VAL:H	2.27	0.42
1:a:54:PHE:HD1	1:a:60:VAL:HG22	1.85	0.42
1:a:109:GLN:HE21	1:2:300:ILE:HG21	1.84	0.42
1:a:251:GLN:NE2	1:2:589:PRO:C	2.78	0.42
1:b:489:VAL:HG21	1:s:459:LEU:HD11	2.00	0.42
1:c:401:ARG:O	2:KB:3:SIA:H6	2.20	0.42
1:d:40:GLY:CA	1:x:39:ILE:CG2	2.94	0.42
1:d:383:ASN:HA	1:d:400:GLU:O	2.20	0.42
1:d:546:ASN:OD1	1:p:129:SER:HB2	2.20	0.42
1:e:401:ARG:O	2:NB:3:SIA:H6	2.20	0.42
1:e:589:PRO:C	1:k:251:GLN:NE2	2.78	0.42
1:f:326:GLN:C	1:f:328:VAL:H	2.27	0.42
1:f:333:GLU:CD	1:f:338:ARG:HH22	2.28	0.42
1:g:251:GLN:NE2	1:4:589:PRO:C	2.78	0.42
1:g:263:LEU:HD13	1:y:152:ASN:HD22	1.82	0.42
1:g:326:GLN:C	1:g:328:VAL:H	2.27	0.42
1:g:417:ARG:HE	1:u:224:GLN:HG2	1.85	0.42
1:g:589:PRO:C	1:u:251:GLN:NE2	2.78	0.42
1:h:286:HIS:NE2	1:l:248:LEU:HG	2.34	0.42
1:h:292:ARG:HE	1:h:333:GLU:HG3	1.85	0.42
1:h:383:ASN:HA	1:h:400:GLU:O	2.20	0.42
1:h:489:VAL:HG21	1:w:459:LEU:HD11	2.00	0.42
1:i:189:ILE:HD13	1:n:547:LEU:HD13	2.02	0.42
1:i:292:ARG:HE	1:i:333:GLU:HG3	1.85	0.42
1:j:138:MET:HG2	1:j:541:ALA:HB1	2.00	0.42
1:j:251:GLN:NE2	1:v:589:PRO:C	2.78	0.42
1:j:284:LEU:O	1:j:586:ARG:HA	2.19	0.42
1:j:383:ASN:HA	1:j:400:GLU:O	2.20	0.42
1:j:462:PHE:CE2	1:q:483:HIS:CE1	3.06	0.42
1:j:466:ASP:HB3	1:j:585:CYS:SG	2.60	0.42
1:k:70:LEU:HD13	1:k:210:THR:HB	2.01	0.42
1:l:246:GLN:HA	1:q:559:SER:OG	2.19	0.42
1:n:284:LEU:O	1:n:586:ARG:HA	2.19	0.42
1:n:326:GLN:C	1:n:328:VAL:H	2.27	0.42
1:n:383:ASN:HA	1:n:400:GLU:O	2.20	0.42
1:q:263:LEU:HD13	1:5:152:ASN:HD22	1.82	0.42
1:q:339:PRO:HA	1:v:490:THR:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:345:MET:HE3	1:q:345:MET:HB3	1.84	0.42
1:q:417:ARG:HE	1:v:224:GLN:HG2	1.85	0.42
1:q:589:PRO:C	1:v:251:GLN:NE2	2.78	0.42
1:s:284:LEU:O	1:s:586:ARG:HA	2.20	0.42
1:s:466:ASP:HB3	1:s:585:CYS:SG	2.60	0.42
1:t:109:GLN:HE21	1:8:300:ILE:HG21	1.84	0.42
1:t:383:ASN:HA	1:t:400:GLU:O	2.20	0.42
1:t:489:VAL:HG21	1:8:459:LEU:HD11	2.00	0.42
1:u:286:HIS:NE2	1:4:248:LEU:HG	2.34	0.42
1:u:326:GLN:C	1:u:328:VAL:H	2.27	0.42
1:v:135:GLN:HE21	1:v:586:ARG:H	1.66	0.42
1:v:292:ARG:HE	1:v:333:GLU:HG3	1.85	0.42
1:v:401:ARG:O	2:LA:3:SIA:H6	2.20	0.42
1:y:251:GLN:NE2	1:1:589:PRO:C	2.78	0.42
1:y:462:PHE:CE2	1:5:483:HIS:CE1	3.06	0.42
1:z:135:GLN:HE21	1:z:586:ARG:H	1.66	0.42
1:z:292:ARG:HE	1:z:333:GLU:HG3	1.85	0.42
1:z:381:ARG:HG3	1:z:381:ARG:HH11	1.85	0.42
1:1:109:GLN:HE21	1:5:300:ILE:HG21	1.84	0.42
1:1:135:GLN:HE21	1:1:586:ARG:H	1.66	0.42
1:2:39:ILE:CG2	1:7:40:GLY:CA	2.94	0.42
1:3:54:PHE:HD1	1:3:60:VAL:HG22	1.85	0.42
1:3:70:LEU:HD13	1:3:210:THR:HB	2.01	0.42
1:3:383:ASN:HA	1:3:400:GLU:O	2.20	0.42
1:4:381:ARG:HH11	1:4:381:ARG:HG3	1.85	0.42
1:6:381:ARG:HH11	1:6:381:ARG:HG3	1.85	0.42
1:7:383:ASN:HA	1:7:400:GLU:O	2.20	0.42
1:7:469:TYR:HA	1:7:470:PRO:HA	1.82	0.42
1:A:292:ARG:HE	1:A:333:GLU:HG3	1.85	0.41
1:A:490:THR:HG23	1:R:339:PRO:HA	2.01	0.41
1:B:135:GLN:HE21	1:B:586:ARG:H	1.66	0.41
1:B:248:LEU:HG	1:H:286:HIS:NE2	2.34	0.41
1:C:54:PHE:HD1	1:C:60:VAL:HG22	1.85	0.41
1:C:224:GLN:HG2	1:K:417:ARG:HE	1.85	0.41
1:D:129:SER:HB2	1:6:546:ASN:OD1	2.20	0.41
1:D:589:PRO:C	1:L:251:GLN:NE2	2.78	0.41
1:E:393:ALA:HB2	1:E:577:ASN:HD22	1.85	0.41
1:F:292:ARG:HE	1:F:333:GLU:HG3	1.85	0.41
1:F:381:ARG:HH11	1:F:381:ARG:HG3	1.85	0.41
1:F:462:PHE:CE2	1:H:483:HIS:CE1	3.06	0.41
1:I:466:ASP:HB3	1:I:585:CYS:SG	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:224:GLN:HG2	1:7:417:ARG:HE	1.85	0.41
1:J:339:PRO:HA	1:3:490:THR:HG23	2.01	0.41
1:J:490:THR:HG23	1:7:339:PRO:HA	2.01	0.41
1:K:381:ARG:HH11	1:K:381:ARG:HG3	1.85	0.41
1:L:54:PHE:HD1	1:L:60:VAL:HG22	1.85	0.41
1:M:383:ASN:HA	1:M:400:GLU:O	2.20	0.41
1:N:292:ARG:HE	1:N:333:GLU:HG3	1.85	0.41
1:O:333:GLU:CD	1:O:338:ARG:HH22	2.28	0.41
1:P:54:PHE:HD1	1:P:60:VAL:HG22	1.85	0.41
1:P:263:LEU:HD13	1:T:152:ASN:HD22	1.82	0.41
1:P:466:ASP:HB3	1:P:585:CYS:SG	2.60	0.41
1:R:345:MET:HE3	1:R:345:MET:HB3	1.84	0.41
1:S:466:ASP:HB3	1:S:585:CYS:SG	2.60	0.41
1:T:345:MET:HE3	1:T:345:MET:HB3	1.85	0.41
1:T:381:ARG:HH11	1:T:381:ARG:HG3	1.85	0.41
1:U:300:ILE:HG21	1:f:109:GLN:HE21	1.84	0.41
1:V:326:GLN:C	1:V:328:VAL:H	2.27	0.41
1:W:224:GLN:HG2	1:f:417:ARG:HE	1.85	0.41
1:W:546:ASN:OD1	1:k:129:SER:HB2	2.20	0.41
1:Z:381:ARG:HG3	1:Z:381:ARG:HH11	1.85	0.41
1:b:326:GLN:C	1:b:328:VAL:H	2.27	0.41
1:c:54:PHE:HD1	1:c:60:VAL:HG22	1.85	0.41
1:c:292:ARG:HE	1:c:333:GLU:HG3	1.85	0.41
1:c:466:ASP:HB3	1:c:585:CYS:SG	2.60	0.41
1:d:189:ILE:HD13	1:r:547:LEU:HD13	2.02	0.41
1:d:284:LEU:O	1:d:586:ARG:HA	2.19	0.41
1:e:292:ARG:HE	1:e:333:GLU:HG3	1.85	0.41
1:e:466:ASP:HB3	1:e:585:CYS:SG	2.60	0.41
1:e:559:SER:OG	1:4:246:GLN:HA	2.19	0.41
1:h:483:HIS:HE1	1:w:462:PHE:H	1.60	0.41
1:j:54:PHE:HD1	1:j:60:VAL:HG22	1.85	0.41
1:k:548:THR:CG2	1:z:253:PHE:CE1	2.84	0.41
1:k:589:PRO:C	1:z:251:GLN:NE2	2.78	0.41
1:l:546:ASN:OD1	1:z:129:SER:HB2	2.20	0.41
1:m:185:ASP:O	1:m:188:ASN:ND2	2.52	0.41
1:m:251:GLN:NE2	1:x:589:PRO:C	2.78	0.41
1:m:381:ARG:HH11	1:m:381:ARG:HG3	1.85	0.41
1:m:546:ASN:OD1	1:v:129:SER:HB2	2.20	0.41
1:o:224:GLN:HG2	1:t:417:ARG:HE	1.85	0.41
1:o:383:ASN:HA	1:o:400:GLU:O	2.20	0.41
1:o:483:HIS:CE1	1:t:462:PHE:CE2	3.05	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:326:GLN:C	1:p:328:VAL:H	2.27	0.41
1:q:54:PHE:HD1	1:q:60:VAL:HG22	1.85	0.41
1:q:284:LEU:O	1:q:586:ARG:HA	2.20	0.41
1:q:381:ARG:HH11	1:q:381:ARG:HG3	1.85	0.41
1:r:284:LEU:O	1:r:586:ARG:HA	2.20	0.41
1:s:70:LEU:HD13	1:s:210:THR:HB	2.01	0.41
1:s:189:ILE:HD13	1:6:547:LEU:HD13	2.02	0.41
1:s:224:GLN:HG2	1:6:417:ARG:HE	1.85	0.41
1:u:383:ASN:HA	1:u:400:GLU:O	2.20	0.41
1:u:461:ALA:HB2	1:4:485:PRO:HD3	2.00	0.41
1:u:466:ASP:HB3	1:u:585:CYS:SG	2.60	0.41
1:w:101:MET:HE2	1:w:101:MET:HB2	1.89	0.41
1:w:383:ASN:HA	1:w:400:GLU:O	2.20	0.41
1:y:224:GLN:HG2	1:1:417:ARG:HE	1.85	0.41
1:y:292:ARG:HE	1:y:333:GLU:HG3	1.85	0.41
1:z:203:GLY:H	1:z:210:THR:CG2	2.32	0.41
1:3:589:PRO:C	1:7:251:GLN:NE2	2.78	0.41
1:4:401:ARG:O	2:XA:3:SIA:H6	2.20	0.41
1:8:292:ARG:HE	1:8:333:GLU:HG3	1.85	0.41
1:A:135:GLN:HE21	1:A:586:ARG:H	1.66	0.41
1:A:251:GLN:NE2	1:R:589:PRO:C	2.78	0.41
1:B:54:PHE:HD1	1:B:60:VAL:HG22	1.85	0.41
1:B:109:GLN:HE21	1:H:300:ILE:HG21	1.84	0.41
1:B:251:GLN:NE2	1:H:589:PRO:C	2.78	0.41
1:B:417:ARG:HE	1:F:224:GLN:HG2	1.85	0.41
1:C:292:ARG:HE	1:C:333:GLU:HG3	1.85	0.41
1:C:490:THR:HG23	1:K:339:PRO:HA	2.01	0.41
1:D:54:PHE:HD1	1:D:60:VAL:HG22	1.85	0.41
1:D:393:ALA:HB2	1:D:577:ASN:HD22	1.86	0.41
1:E:40:GLY:CA	1:d:39:ILE:CG2	2.94	0.41
1:E:129:SER:HB2	1:r:546:ASN:OD1	2.20	0.41
1:E:284:LEU:O	1:E:586:ARG:HA	2.20	0.41
1:G:489:VAL:HG21	1:Z:459:LEU:HD11	2.00	0.41
1:G:547:LEU:HD13	1:X:189:ILE:HD13	2.02	0.41
1:H:70:LEU:HD13	1:H:210:THR:HB	2.01	0.41
1:I:383:ASN:HA	1:I:400:GLU:O	2.20	0.41
1:J:300:ILE:HG21	1:3:109:GLN:HE21	1.84	0.41
1:J:401:ARG:O	2:sA:3:SIA:H6	2.20	0.41
1:K:292:ARG:HE	1:K:333:GLU:HG3	1.85	0.41
1:K:401:ARG:O	2:tA:3:SIA:H6	2.20	0.41
1:L:129:SER:HB2	1:O:546:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:401:ARG:O	2:wA:3:SIA:H6	2.20	0.41
1:N:383:ASN:HA	1:N:400:GLU:O	2.20	0.41
1:O:393:ALA:HB2	1:O:577:ASN:HD22	1.85	0.41
1:P:459:LEU:HD11	1:R:489:VAL:HG21	2.00	0.41
1:Q:39:ILE:CG2	1:n:40:GLY:CA	2.94	0.41
1:Q:109:GLN:HE21	1:V:300:ILE:HG21	1.84	0.41
1:Q:401:ARG:O	2:2A:3:SIA:H6	2.20	0.41
1:S:129:SER:OG	1:w:548:THR:O	2.30	0.41
1:S:224:GLN:HG2	1:i:417:ARG:HE	1.85	0.41
1:S:284:LEU:O	1:S:586:ARG:HA	2.20	0.41
1:T:185:ASP:O	1:T:188:ASN:ND2	2.52	0.41
1:U:189:ILE:HD13	1:W:547:LEU:HD13	2.02	0.41
1:U:224:GLN:HG2	1:W:417:ARG:HE	1.85	0.41
1:U:246:GLN:HA	1:k:559:SER:OG	2.19	0.41
1:U:251:GLN:NE2	1:W:589:PRO:C	2.78	0.41
1:U:462:PHE:CA	1:f:483:HIS:HE1	2.27	0.41
1:W:381:ARG:HG3	1:W:381:ARG:HH11	1.85	0.41
1:X:578:MET:HE3	1:X:578:MET:HB3	1.84	0.41
1:Y:284:LEU:O	1:Y:586:ARG:HA	2.19	0.41
1:Y:300:ILE:CG2	1:2:109:GLN:HE22	2.03	0.41
1:a:189:ILE:HD13	1:2:547:LEU:HD13	2.02	0.41
1:b:263:LEU:HD13	1:8:152:ASN:HD22	1.82	0.41
1:b:417:ARG:HE	1:6:224:GLN:HG2	1.85	0.41
1:c:284:LEU:O	1:c:586:ARG:HA	2.19	0.41
1:c:383:ASN:HA	1:c:400:GLU:O	2.20	0.41
1:e:54:PHE:HD1	1:e:60:VAL:HG22	1.85	0.41
1:e:248:LEU:HG	1:z:286:HIS:NE2	2.34	0.41
1:e:383:ASN:HA	1:e:400:GLU:O	2.20	0.41
1:f:469:TYR:HA	1:f:470:PRO:HA	1.82	0.41
1:g:54:PHE:HD1	1:g:60:VAL:HG22	1.85	0.41
1:g:224:GLN:HG2	1:4:417:ARG:HE	1.85	0.41
1:g:292:ARG:HE	1:g:333:GLU:HG3	1.85	0.41
1:g:462:PHE:CB	1:u:483:HIS:HE1	2.19	0.41
1:h:284:LEU:O	1:h:586:ARG:HA	2.20	0.41
1:h:548:THR:CG2	1:l:253:PHE:HE1	2.25	0.41
1:i:54:PHE:HD1	1:i:60:VAL:HG22	1.85	0.41
1:j:109:GLN:HE21	1:v:300:ILE:HG21	1.84	0.41
1:j:263:LEU:HD13	1:m:152:ASN:HD22	1.82	0.41
1:k:393:ALA:HB2	1:k:577:ASN:HD22	1.86	0.41
1:l:333:GLU:CD	1:l:338:ARG:HH22	2.28	0.41
1:l:401:ARG:O	2:YB:3:SIA:H6	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:189:ILE:HD13	1:t:547:LEU:HD13	2.02	0.41
1:p:393:ALA:HB2	1:p:577:ASN:HD22	1.86	0.41
1:p:401:ARG:O	2:CA:3:SIA:H6	2.20	0.41
1:q:430:ASN:H	1:q:433:GLN:HB2	1.83	0.41
1:q:547:LEU:HD13	1:v:189:ILE:HD13	2.02	0.41
1:r:466:ASP:HB3	1:r:585:CYS:SG	2.60	0.41
1:s:251:GLN:NE2	1:6:589:PRO:C	2.78	0.41
1:s:490:THR:HG23	1:6:339:PRO:HA	2.01	0.41
1:t:466:ASP:HB3	1:t:585:CYS:SG	2.60	0.41
1:u:333:GLU:CD	1:u:338:ARG:HH22	2.28	0.41
1:w:284:LEU:O	1:w:586:ARG:HA	2.20	0.41
1:w:393:ALA:HB2	1:w:577:ASN:HD22	1.85	0.41
1:x:54:PHE:HD1	1:x:60:VAL:HG22	1.85	0.41
1:x:185:ASP:HB2	1:x:259:LEU:CD1	2.50	0.41
1:x:383:ASN:HA	1:x:400:GLU:O	2.20	0.41
1:x:401:ARG:O	2:OA:3:SIA:H6	2.20	0.41
1:y:381:ARG:HH11	1:y:381:ARG:HG3	1.85	0.41
1:z:54:PHE:HD1	1:z:60:VAL:HG22	1.85	0.41
1:z:284:LEU:O	1:z:586:ARG:HA	2.20	0.41
1:z:466:ASP:HB3	1:z:585:CYS:SG	2.60	0.41
1:1:251:GLN:NE2	1:5:589:PRO:C	2.78	0.41
1:1:333:GLU:CD	1:1:338:ARG:HH22	2.28	0.41
1:3:185:ASP:O	1:3:188:ASN:ND2	2.52	0.41
1:3:417:ARG:HE	1:7:224:GLN:HG2	1.85	0.41
1:4:292:ARG:HE	1:4:333:GLU:HG3	1.85	0.41
1:8:381:ARG:HH11	1:8:381:ARG:HG3	1.85	0.41
1:A:224:GLN:HG2	1:R:417:ARG:HE	1.85	0.41
1:A:589:PRO:C	1:P:251:GLN:NE2	2.79	0.41
1:B:333:GLU:CD	1:B:338:ARG:HH22	2.28	0.41
1:C:345:MET:HE3	1:C:345:MET:HB3	1.85	0.41
1:D:339:PRO:HA	1:L:490:THR:HG23	2.01	0.41
1:D:459:LEU:HD11	1:L:489:VAL:HG21	2.00	0.41
1:E:152:ASN:HD22	1:d:263:LEU:HD13	1.82	0.41
1:E:589:PRO:C	1:M:251:GLN:NE2	2.78	0.41
1:G:466:ASP:HB3	1:G:585:CYS:SG	2.60	0.41
1:H:326:GLN:C	1:H:328:VAL:H	2.27	0.41
1:I:333:GLU:CD	1:I:338:ARG:HH22	2.28	0.41
1:I:381:ARG:HG3	1:I:381:ARG:HH11	1.85	0.41
1:J:547:LEU:HD13	1:3:189:ILE:HD13	2.02	0.41
1:K:185:ASP:HB2	1:K:259:LEU:CD1	2.50	0.41
1:L:203:GLY:H	1:L:210:THR:CG2	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:466:ASP:HB3	1:L:585:CYS:SG	2.60	0.41
1:M:417:ARG:HE	1:O:224:GLN:HG2	1.85	0.41
1:N:54:PHE:HD1	1:N:60:VAL:HG22	1.85	0.41
1:N:152:ASN:HD22	1:S:263:LEU:HD13	1.82	0.41
1:N:417:ARG:HE	1:r:224:GLN:HG2	1.85	0.41
1:O:152:ASN:HD22	1:c:263:LEU:HD13	1.82	0.41
1:O:401:ARG:O	2:zA:3:SIA:H6	2.20	0.41
1:Q:54:PHE:HD1	1:Q:60:VAL:HG22	1.85	0.41
1:Q:185:ASP:HB2	1:Q:259:LEU:CD1	2.50	0.41
1:Q:284:LEU:O	1:Q:586:ARG:HA	2.20	0.41
1:Q:339:PRO:HA	1:T:490:THR:HG23	2.01	0.41
1:Q:383:ASN:HA	1:Q:400:GLU:O	2.20	0.41
1:R:284:LEU:O	1:R:586:ARG:HA	2.20	0.41
1:S:381:ARG:HH11	1:S:381:ARG:HG3	1.85	0.41
1:S:417:ARG:HE	1:n:224:GLN:HG2	1.85	0.41
1:S:483:HIS:CB	1:i:486:ARG:NH2	2.71	0.41
1:S:546:ASN:OD1	1:w:129:SER:HB2	2.20	0.41
1:U:54:PHE:HD1	1:U:60:VAL:HG22	1.85	0.41
1:U:70:LEU:HD13	1:U:210:THR:HB	2.01	0.41
1:U:459:LEU:HD11	1:f:489:VAL:HG21	2.00	0.41
1:V:383:ASN:HA	1:V:400:GLU:O	2.20	0.41
1:V:393:ALA:HB2	1:V:577:ASN:HD22	1.86	0.41
1:V:401:ARG:O	2:AB:3:SIA:H6	2.20	0.41
1:V:466:ASP:HB3	1:V:585:CYS:SG	2.60	0.41
1:W:208:LYS:NZ	1:z:79:ASN:OD1	2.39	0.41
1:W:292:ARG:HE	1:W:333:GLU:HG3	1.85	0.41
1:X:333:GLU:CD	1:X:338:ARG:HH22	2.28	0.41
1:X:339:PRO:HA	1:Z:490:THR:HG23	2.01	0.41
1:Y:224:GLN:HG2	1:a:417:ARG:HE	1.85	0.41
1:Y:339:PRO:HA	1:2:490:THR:HG23	2.01	0.41
1:a:185:ASP:O	1:a:188:ASN:ND2	2.52	0.41
1:a:483:HIS:HE1	1:2:462:PHE:CA	2.27	0.41
1:a:546:ASN:OD1	1:g:129:SER:HB2	2.20	0.41
1:d:129:SER:HB2	1:p:546:ASN:OD1	2.20	0.41
1:d:224:GLN:HG2	1:r:417:ARG:HE	1.85	0.41
1:d:333:GLU:CD	1:d:338:ARG:HH22	2.28	0.41
1:d:381:ARG:HH11	1:d:381:ARG:HG3	1.85	0.41
1:e:284:LEU:O	1:e:586:ARG:HA	2.19	0.41
1:f:345:MET:HE3	1:f:345:MET:HB3	1.85	0.41
1:f:578:MET:HE3	1:f:578:MET:HB3	1.85	0.41
1:g:39:ILE:HD13	1:y:39:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:490:THR:HG23	1:4:339:PRO:HA	2.01	0.41
1:h:251:GLN:NE2	1:w:589:PRO:C	2.78	0.41
1:h:401:ARG:O	2:SB:3:SIA:H6	2.20	0.41
1:h:483:HIS:HE1	1:w:462:PHE:CA	2.27	0.41
1:i:152:ASN:HD22	1:r:263:LEU:HD13	1.82	0.41
1:i:383:ASN:HA	1:i:400:GLU:O	2.20	0.41
1:j:417:ARG:HE	1:q:224:GLN:HG2	1.85	0.41
1:k:54:PHE:HD1	1:k:60:VAL:HG22	1.85	0.41
1:k:417:ARG:HE	1:z:224:GLN:HG2	1.85	0.41
1:l:393:ALA:HB2	1:l:577:ASN:HD22	1.85	0.41
1:m:129:SER:HB2	1:v:546:ASN:OD1	2.20	0.41
1:m:292:ARG:HE	1:m:333:GLU:HG3	1.85	0.41
1:m:383:ASN:HA	1:m:400:GLU:O	2.20	0.41
1:n:466:ASP:HB3	1:n:585:CYS:SG	2.60	0.41
1:o:339:PRO:HA	1:8:490:THR:HG23	2.01	0.41
1:p:54:PHE:HD1	1:p:60:VAL:HG22	1.85	0.41
1:p:185:ASP:HB2	1:p:259:LEU:CD1	2.50	0.41
1:p:300:ILE:HG21	1:x:109:GLN:HE21	1.84	0.41
1:p:383:ASN:HA	1:p:400:GLU:O	2.20	0.41
1:p:466:ASP:HB3	1:p:585:CYS:SG	2.60	0.41
1:q:185:ASP:O	1:q:188:ASN:ND2	2.52	0.41
1:q:462:PHE:N	1:v:483:HIS:HE1	2.07	0.41
1:s:54:PHE:HD1	1:s:60:VAL:HG22	1.85	0.41
1:u:300:ILE:HG21	1:4:109:GLN:HE21	1.84	0.41
1:1:54:PHE:HD1	1:1:60:VAL:HG22	1.85	0.41
1:1:383:ASN:HA	1:1:400:GLU:O	2.20	0.41
1:1:483:HIS:HE1	1:5:462:PHE:CA	2.27	0.41
1:5:326:GLN:C	1:5:328:VAL:H	2.27	0.41
1:5:381:ARG:HH11	1:5:381:ARG:HG3	1.85	0.41
1:6:292:ARG:HE	1:6:333:GLU:HG3	1.85	0.41
1:7:284:LEU:O	1:7:586:ARG:HA	2.19	0.41
1:A:109:GLN:HE22	1:R:300:ILE:CG2	2.02	0.41
1:A:483:HIS:CB	1:R:486:ARG:NH2	2.71	0.41
1:B:39:ILE:HD11	1:Z:39:ILE:HD13	2.03	0.41
1:B:383:ASN:HA	1:B:400:GLU:O	2.20	0.41
1:B:546:ASN:OD1	1:X:129:SER:HB2	2.20	0.41
1:C:39:ILE:HD13	1:F:39:ILE:HD11	2.03	0.41
1:C:129:SER:HB2	1:3:546:ASN:OD1	2.20	0.41
1:C:284:LEU:O	1:C:586:ARG:HA	2.20	0.41
1:C:326:GLN:C	1:C:328:VAL:N	2.79	0.41
1:C:383:ASN:HA	1:C:400:GLU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:462:PHE:CB	1:I:483:HIS:HE1	2.19	0.41
1:D:417:ARG:HE	1:L:224:GLN:HG2	1.85	0.41
1:E:54:PHE:HD1	1:E:60:VAL:HG22	1.85	0.41
1:E:466:ASP:HB3	1:E:585:CYS:SG	2.60	0.41
1:F:129:SER:HB2	1:K:546:ASN:OD1	2.20	0.41
1:H:381:ARG:HH11	1:H:381:ARG:HG3	1.85	0.41
1:I:300:ILE:HG21	1:K:109:GLN:HE21	1.84	0.41
1:J:54:PHE:HD1	1:J:60:VAL:HG22	1.85	0.41
1:J:393:ALA:HB2	1:J:577:ASN:HD22	1.86	0.41
1:J:489:VAL:HG21	1:7:459:LEU:HD11	2.00	0.41
1:L:284:LEU:O	1:L:586:ARG:HA	2.20	0.41
1:L:401:ARG:O	2:vA:3:SIA:H6	2.20	0.41
1:N:251:GLN:NE2	1:d:589:PRO:C	2.78	0.41
1:N:265:ARG:O	1:N:266:THR:C	2.64	0.41
1:N:381:ARG:HH11	1:N:381:ARG:HG3	1.85	0.41
1:N:393:ALA:HB2	1:N:577:ASN:HD22	1.86	0.41
1:O:383:ASN:HA	1:O:400:GLU:O	2.20	0.41
1:P:326:GLN:C	1:P:328:VAL:N	2.79	0.41
1:P:417:ARG:HE	1:R:224:GLN:HG2	1.85	0.41
1:Q:109:GLN:HE22	1:V:300:ILE:CG2	2.03	0.41
1:Q:129:SER:HB2	1:f:546:ASN:OD1	2.20	0.41
1:Q:190:LEU:HD13	1:Q:255:ILE:HD13	2.03	0.41
1:Q:393:ALA:HB2	1:Q:577:ASN:HD22	1.86	0.41
1:Q:466:ASP:HB3	1:Q:585:CYS:SG	2.60	0.41
1:R:185:ASP:O	1:R:188:ASN:ND2	2.52	0.41
1:S:453:PHE:HZ	1:n:350:ASN:ND2	2.14	0.41
1:T:185:ASP:HB2	1:T:259:LEU:CD1	2.50	0.41
1:T:190:LEU:HD13	1:T:255:ILE:HD13	2.03	0.41
1:T:292:ARG:HE	1:T:333:GLU:HG3	1.85	0.41
1:T:383:ASN:HA	1:T:400:GLU:O	2.20	0.41
1:T:589:PRO:C	1:V:251:GLN:NE2	2.78	0.41
1:U:326:GLN:C	1:U:328:VAL:N	2.79	0.41
1:U:490:THR:HG23	1:W:339:PRO:HA	2.01	0.41
1:V:54:PHE:HD1	1:V:60:VAL:HG22	1.85	0.41
1:V:185:ASP:HB2	1:V:259:LEU:CD1	2.50	0.41
1:V:546:ASN:OD1	1:n:129:SER:HB2	2.20	0.41
1:W:383:ASN:HA	1:W:400:GLU:O	2.20	0.41
1:Y:333:GLU:CD	1:Y:338:ARG:HH22	2.28	0.41
1:Y:459:LEU:HD11	1:2:489:VAL:HG21	2.00	0.41
1:Y:466:ASP:HB3	1:Y:585:CYS:SG	2.60	0.41
1:b:109:GLN:HE21	1:s:300:ILE:HG21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:345:MET:HE3	1:b:345:MET:HB3	1.85	0.41
1:b:546:ASN:OD1	1:x:129:SER:HB2	2.20	0.41
1:b:578:MET:HE3	1:b:578:MET:HB3	1.85	0.41
1:d:466:ASP:HB3	1:d:585:CYS:SG	2.60	0.41
1:g:284:LEU:O	1:g:586:ARG:HA	2.20	0.41
1:h:393:ALA:HB2	1:h:577:ASN:HD22	1.85	0.41
1:h:417:ARG:HE	1:l:224:GLN:HG2	1.85	0.41
1:i:265:ARG:O	1:i:266:THR:C	2.64	0.41
1:i:333:GLU:CD	1:i:338:ARG:HH22	2.28	0.41
1:i:381:ARG:HH11	1:i:381:ARG:HG3	1.85	0.41
1:i:393:ALA:HB2	1:i:577:ASN:HD22	1.86	0.41
1:j:483:HIS:HE1	1:v:462:PHE:CA	2.27	0.41
1:l:185:ASP:HB2	1:l:259:LEU:CD1	2.50	0.41
1:l:203:GLY:H	1:l:210:THR:CG2	2.32	0.41
1:l:383:ASN:HA	1:l:400:GLU:O	2.20	0.41
1:m:185:ASP:HB2	1:m:259:LEU:CD1	2.50	0.41
1:m:190:LEU:HD13	1:m:255:ILE:HD13	2.03	0.41
1:m:401:ARG:O	2:ZB:3:SIA:H6	2.20	0.41
1:m:589:PRO:C	1:p:251:GLN:NE2	2.78	0.41
1:n:79:ASN:OD1	1:w:208:LYS:NZ	2.39	0.41
1:n:333:GLU:CD	1:n:338:ARG:HH22	2.28	0.41
1:n:381:ARG:HH11	1:n:381:ARG:HG3	1.85	0.41
1:o:129:SER:HB2	1:1:546:ASN:OD1	2.20	0.41
1:p:292:ARG:HE	1:p:333:GLU:HG3	1.85	0.41
1:p:300:ILE:CG2	1:x:109:GLN:HE22	2.03	0.41
1:r:381:ARG:HG3	1:r:381:ARG:HH11	1.85	0.41
1:s:109:GLN:HE21	1:6:300:ILE:HG21	1.84	0.41
1:s:326:GLN:C	1:s:328:VAL:N	2.79	0.41
1:s:350:ASN:ND2	1:6:453:PHE:HZ	2.14	0.41
1:s:546:ASN:OD1	1:8:129:SER:HB2	2.20	0.41
1:u:185:ASP:HB2	1:u:259:LEU:CD1	2.50	0.41
1:u:381:ARG:HG3	1:u:381:ARG:HH11	1.85	0.41
1:w:466:ASP:HB3	1:w:585:CYS:SG	2.60	0.41
1:x:190:LEU:HD13	1:x:255:ILE:HD13	2.03	0.41
1:x:284:LEU:O	1:x:586:ARG:HA	2.20	0.41
1:x:393:ALA:HB2	1:x:577:ASN:HD22	1.86	0.41
1:x:466:ASP:HB3	1:x:585:CYS:SG	2.60	0.41
1:y:129:SER:HB2	1:4:546:ASN:OD1	2.20	0.41
1:y:350:ASN:ND2	1:1:453:PHE:HE2	2.11	0.41
1:z:401:ARG:O	2:RA:3:SIA:H6	2.20	0.41
1:1:292:ARG:HE	1:1:333:GLU:HG3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:393:ALA:HB2	1:2:577:ASN:HD22	1.86	0.41
1:2:401:ARG:O	2:UA:3:SIA:H6	2.20	0.41
1:5:70:LEU:HD13	1:5:210:THR:HB	2.01	0.41
1:6:185:ASP:HB2	1:6:259:LEU:CD1	2.50	0.41
1:6:383:ASN:HA	1:6:400:GLU:O	2.20	0.41
1:7:466:ASP:HB3	1:7:585:CYS:SG	2.60	0.41
1:8:185:ASP:HB2	1:8:259:LEU:CD1	2.50	0.41
1:A:326:GLN:C	1:A:328:VAL:N	2.79	0.41
1:B:292:ARG:HE	1:B:333:GLU:HG3	1.85	0.41
1:C:40:GLY:CA	1:7:39:ILE:CG2	2.94	0.41
1:E:365:PRO:HD3	1:E:489:VAL:HG13	2.03	0.41
1:F:39:ILE:HD13	1:X:39:ILE:HD11	2.03	0.41
1:G:190:LEU:HD13	1:G:255:ILE:HD13	2.03	0.41
1:G:251:GLN:NE2	1:Z:589:PRO:C	2.78	0.41
1:H:265:ARG:O	1:H:266:THR:C	2.64	0.41
1:H:284:LEU:O	1:H:586:ARG:HA	2.19	0.41
1:H:333:GLU:CD	1:H:338:ARG:HH22	2.28	0.41
1:H:393:ALA:HB2	1:H:577:ASN:HD22	1.86	0.41
1:H:466:ASP:HB3	1:H:585:CYS:SG	2.60	0.41
1:I:185:ASP:HB2	1:I:259:LEU:CD1	2.50	0.41
1:J:70:LEU:HD13	1:J:210:THR:HB	2.01	0.41
1:J:251:GLN:NE2	1:7:589:PRO:C	2.78	0.41
1:J:381:ARG:HG3	1:J:381:ARG:HH11	1.85	0.41
1:L:365:PRO:HD3	1:L:489:VAL:HG13	2.03	0.41
1:L:383:ASN:HA	1:L:400:GLU:O	2.20	0.41
1:M:185:ASP:HB2	1:M:259:LEU:CD1	2.50	0.41
1:M:393:ALA:HB2	1:M:577:ASN:HD22	1.85	0.41
1:N:326:GLN:C	1:N:328:VAL:N	2.79	0.41
1:N:333:GLU:CD	1:N:338:ARG:HH22	2.28	0.41
1:N:365:PRO:HD3	1:N:489:VAL:HG13	2.03	0.41
1:N:578:MET:HE3	1:N:578:MET:HB3	1.84	0.41
1:O:185:ASP:HB2	1:O:259:LEU:CD1	2.50	0.41
1:O:203:GLY:H	1:O:210:THR:CG2	2.32	0.41
1:Q:70:LEU:HD13	1:Q:210:THR:HB	2.01	0.41
1:R:365:PRO:HD3	1:R:489:VAL:HG13	2.03	0.41
1:S:383:ASN:HA	1:S:400:GLU:O	2.20	0.41
1:T:339:PRO:HA	1:V:490:THR:HG23	2.01	0.41
1:U:109:GLN:HE21	1:W:300:ILE:HG21	1.84	0.41
1:U:401:ARG:O	2:8A:3:SIA:H6	2.20	0.41
1:U:546:ASN:OD1	1:Z:129:SER:HB2	2.20	0.41
1:V:292:ARG:HE	1:V:333:GLU:HG3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:185:ASP:HB2	1:W:259:LEU:CD1	2.50	0.41
1:W:251:GLN:NE2	1:f:589:PRO:C	2.78	0.41
1:W:466:ASP:HB3	1:W:585:CYS:SG	2.60	0.41
1:X:292:ARG:HE	1:X:333:GLU:HG3	1.85	0.41
1:X:589:PRO:C	1:Z:251:GLN:NE2	2.78	0.41
1:Y:39:ILE:CG2	1:g:40:GLY:CA	2.94	0.41
1:Y:490:THR:HG23	1:a:339:PRO:HA	2.01	0.41
1:Z:265:ARG:O	1:Z:266:THR:C	2.64	0.41
1:Z:326:GLN:C	1:Z:328:VAL:N	2.79	0.41
1:b:383:ASN:HA	1:b:400:GLU:O	2.20	0.41
1:c:190:LEU:HD13	1:c:255:ILE:HD13	2.03	0.41
1:c:326:GLN:C	1:c:328:VAL:N	2.79	0.41
1:d:350:ASN:ND2	1:r:453:PHE:HZ	2.14	0.41
1:e:190:LEU:HD13	1:e:255:ILE:HD13	2.03	0.41
1:e:326:GLN:C	1:e:328:VAL:N	2.79	0.41
1:e:333:GLU:CD	1:e:338:ARG:HH22	2.28	0.41
1:g:326:GLN:C	1:g:328:VAL:N	2.79	0.41
1:g:345:MET:HE3	1:g:345:MET:HB3	1.85	0.41
1:g:383:ASN:HA	1:g:400:GLU:O	2.20	0.41
1:h:129:SER:HB2	1:q:546:ASN:OD1	2.20	0.41
1:h:185:ASP:HB2	1:h:259:LEU:CD1	2.50	0.41
1:h:559:SER:OG	1:v:246:GLN:HA	2.19	0.41
1:i:326:GLN:C	1:i:328:VAL:N	2.79	0.41
1:i:365:PRO:HD3	1:i:489:VAL:HG13	2.03	0.41
1:j:70:LEU:HD13	1:j:210:THR:HB	2.01	0.41
1:j:326:GLN:C	1:j:328:VAL:N	2.79	0.41
1:k:339:PRO:HA	1:z:490:THR:HG23	2.01	0.41
1:k:459:LEU:HD11	1:z:489:VAL:HG21	2.00	0.41
1:l:381:ARG:HH11	1:l:381:ARG:HG3	1.85	0.41
1:m:54:PHE:HD1	1:m:60:VAL:HG22	1.85	0.41
1:m:253:PHE:HE1	1:x:548:THR:CG2	2.25	0.41
1:m:339:PRO:HA	1:p:490:THR:HG23	2.01	0.41
1:n:39:ILE:CG2	1:w:40:GLY:CA	2.94	0.41
1:n:54:PHE:HD1	1:n:60:VAL:HG22	1.85	0.41
1:n:326:GLN:C	1:n:328:VAL:N	2.79	0.41
1:o:333:GLU:CD	1:o:338:ARG:HH22	2.28	0.41
1:o:589:PRO:C	1:8:251:GLN:NE2	2.78	0.41
1:p:345:MET:HE3	1:p:345:MET:HB3	1.85	0.41
1:q:300:ILE:CG2	1:v:109:GLN:HE22	2.03	0.41
1:q:365:PRO:HD3	1:q:489:VAL:HG13	2.03	0.41
1:r:383:ASN:HA	1:r:400:GLU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:401:ARG:O	2:GA:3:SIA:H6	2.20	0.41
1:t:190:LEU:HD13	1:t:255:ILE:HD13	2.03	0.41
1:t:251:GLN:NE2	1:8:589:PRO:C	2.78	0.41
1:t:333:GLU:CD	1:t:338:ARG:HH22	2.28	0.41
1:w:365:PRO:HD3	1:w:489:VAL:HG13	2.03	0.41
1:w:401:ARG:O	2:MA:3:SIA:H6	2.20	0.41
1:x:70:LEU:HD13	1:x:210:THR:HB	2.01	0.41
1:z:333:GLU:CD	1:z:338:ARG:HH22	2.28	0.41
1:z:365:PRO:HD3	1:z:489:VAL:HG13	2.03	0.41
1:1:39:ILE:HD11	1:8:39:ILE:HD13	2.03	0.41
1:2:39:ILE:HD13	1:7:39:ILE:HD11	2.03	0.41
1:2:54:PHE:HD1	1:2:60:VAL:HG22	1.85	0.41
1:3:284:LEU:O	1:3:586:ARG:HA	2.19	0.41
1:5:54:PHE:HD1	1:5:60:VAL:HG22	1.85	0.41
1:5:265:ARG:O	1:5:266:THR:C	2.64	0.41
1:5:393:ALA:HB2	1:5:577:ASN:HD22	1.86	0.41
1:6:466:ASP:HB3	1:6:585:CYS:SG	2.60	0.41
1:8:265:ARG:O	1:8:266:THR:C	2.64	0.41
1:8:326:GLN:C	1:8:328:VAL:N	2.79	0.41
1:A:246:GLN:HA	1:M:559:SER:OG	2.19	0.41
1:A:466:ASP:HB3	1:A:585:CYS:SG	2.60	0.41
1:B:401:ARG:O	2:gA:3:SIA:H6	2.20	0.41
1:B:483:HIS:HE1	1:H:462:PHE:CA	2.27	0.41
1:C:401:ARG:O	2:hA:3:SIA:H6	2.20	0.41
1:C:466:ASP:HB3	1:C:585:CYS:SG	2.60	0.41
1:C:546:ASN:OD1	1:3:129:SER:HB2	2.20	0.41
1:D:466:ASP:HB3	1:D:585:CYS:SG	2.60	0.41
1:E:265:ARG:O	1:E:266:THR:C	2.64	0.41
1:E:401:ARG:O	2:kA:3:SIA:H6	2.20	0.41
1:E:490:THR:HG23	1:O:339:PRO:HA	2.01	0.41
1:G:351:PHE:HB3	1:Z:419:PHE:CZ	2.51	0.41
1:H:39:ILE:HD13	1:K:39:ILE:HD11	2.03	0.41
1:H:54:PHE:HD1	1:H:60:VAL:HG22	1.85	0.41
1:J:39:ILE:HD13	1:Y:39:ILE:HD11	2.03	0.41
1:J:40:GLY:CA	1:o:39:ILE:CG2	2.94	0.41
1:J:383:ASN:HA	1:J:400:GLU:O	2.20	0.41
1:K:466:ASP:HB3	1:K:585:CYS:SG	2.60	0.41
1:L:333:GLU:CD	1:L:338:ARG:HH22	2.28	0.41
1:L:486:ARG:NH2	1:c:483:HIS:CB	2.71	0.41
1:M:129:SER:HB2	1:R:546:ASN:OD1	2.20	0.41
1:M:548:THR:CG2	1:O:253:PHE:HE1	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:253:PHE:HE1	1:d:548:THR:CG2	2.25	0.41
1:P:265:ARG:O	1:P:266:THR:C	2.64	0.41
1:P:326:GLN:C	1:P:328:VAL:H	2.27	0.41
1:S:333:GLU:CD	1:S:338:ARG:HH22	2.28	0.41
1:T:54:PHE:HD1	1:T:60:VAL:HG22	1.85	0.41
1:T:401:ARG:O	2:7A:3:SIA:H6	2.20	0.41
1:U:350:ASN:ND2	1:W:453:PHE:HE2	2.11	0.41
1:U:381:ARG:HH11	1:U:381:ARG:HG3	1.85	0.41
1:W:70:LEU:HD13	1:W:210:THR:HB	2.01	0.41
1:X:190:LEU:HD13	1:X:255:ILE:HD13	2.03	0.41
1:X:547:LEU:HD13	1:Z:189:ILE:HD13	2.02	0.41
1:Y:589:PRO:C	1:2:251:GLN:NE2	2.78	0.41
1:Z:185:ASP:HB2	1:Z:259:LEU:CD1	2.50	0.41
1:Z:383:ASN:HA	1:Z:400:GLU:O	2.20	0.41
1:a:129:SER:HB2	1:g:546:ASN:OD1	2.20	0.41
1:a:284:LEU:O	1:a:586:ARG:HA	2.19	0.41
1:b:185:ASP:HB2	1:b:259:LEU:CD1	2.50	0.41
1:b:381:ARG:HG3	1:b:381:ARG:HH11	1.85	0.41
1:b:589:PRO:C	1:6:251:GLN:NE2	2.78	0.41
1:c:333:GLU:CD	1:c:338:ARG:HH22	2.28	0.41
1:d:54:PHE:HD1	1:d:60:VAL:HG22	1.85	0.41
1:d:326:GLN:C	1:d:328:VAL:N	2.79	0.41
1:d:393:ALA:HB2	1:d:577:ASN:HD22	1.86	0.41
1:e:263:LEU:HD13	1:l:152:ASN:HD22	1.82	0.41
1:f:135:GLN:HE21	1:f:586:ARG:H	1.66	0.41
1:f:383:ASN:HA	1:f:400:GLU:O	2.20	0.41
1:g:401:ARG:O	2:QB:3:SIA:H6	2.20	0.41
1:g:466:ASP:HB3	1:g:585:CYS:SG	2.60	0.41
1:h:300:ILE:HG21	1:l:109:GLN:HE21	1.84	0.41
1:i:251:GLN:NE2	1:n:589:PRO:C	2.78	0.41
1:j:265:ARG:O	1:j:266:THR:C	2.64	0.41
1:j:326:GLN:C	1:j:328:VAL:H	2.27	0.41
1:j:365:PRO:HD3	1:j:489:VAL:HG13	2.03	0.41
1:k:101:MET:HE2	1:k:101:MET:HB2	1.89	0.41
1:k:383:ASN:HA	1:k:400:GLU:O	2.20	0.41
1:k:401:ARG:O	2:WB:3:SIA:H6	2.20	0.41
1:k:466:ASP:HB3	1:k:585:CYS:SG	2.60	0.41
1:l:339:PRO:HA	1:w:490:THR:HG23	2.01	0.41
1:m:490:THR:HG23	1:x:339:PRO:HA	2.01	0.41
1:n:263:LEU:HD13	1:w:152:ASN:HD22	1.82	0.41
1:n:393:ALA:HB2	1:n:577:ASN:HD22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:39:ILE:HD11	1:y:39:ILE:HD13	2.03	0.41
1:o:190:LEU:HD13	1:o:255:ILE:HD13	2.03	0.41
1:o:292:ARG:HE	1:o:333:GLU:HG3	1.85	0.41
1:o:547:LEU:HD13	1:8:189:ILE:HD13	2.02	0.41
1:q:393:ALA:HB2	1:q:577:ASN:HD22	1.86	0.41
1:r:333:GLU:CD	1:r:338:ARG:HH22	2.28	0.41
1:t:351:PHE:HB3	1:8:419:PHE:CZ	2.51	0.41
1:v:326:GLN:C	1:v:328:VAL:N	2.79	0.41
1:v:393:ALA:HB2	1:v:577:ASN:HD22	1.86	0.41
1:w:54:PHE:HD1	1:w:60:VAL:HG22	1.85	0.41
1:w:70:LEU:HD13	1:w:210:THR:HB	2.01	0.41
1:w:265:ARG:O	1:w:266:THR:C	2.64	0.41
1:y:54:PHE:HD1	1:y:60:VAL:HG22	1.85	0.41
1:z:383:ASN:HA	1:z:400:GLU:O	2.20	0.41
1:1:185:ASP:HB2	1:1:259:LEU:CD1	2.50	0.41
1:2:70:LEU:HD13	1:2:210:THR:HB	2.01	0.41
1:2:381:ARG:HH11	1:2:381:ARG:HG3	1.85	0.41
1:3:339:PRO:HA	1:7:490:THR:HG23	2.01	0.41
1:4:39:ILE:HD11	1:5:39:ILE:HD13	2.03	0.41
1:5:284:LEU:O	1:5:586:ARG:HA	2.19	0.41
1:5:466:ASP:HB3	1:5:585:CYS:SG	2.60	0.41
1:8:383:ASN:HA	1:8:400:GLU:O	2.20	0.41
1:A:393:ALA:HB2	1:A:577:ASN:HD22	1.86	0.41
1:A:546:ASN:OD1	1:T:129:SER:HB2	2.21	0.41
1:B:185:ASP:HB2	1:B:259:LEU:CD1	2.50	0.41
1:B:224:GLN:HG2	1:H:417:ARG:HE	1.85	0.41
1:D:185:ASP:HB2	1:D:259:LEU:CD1	2.50	0.41
1:D:365:PRO:HD3	1:D:489:VAL:HG13	2.03	0.41
1:D:383:ASN:HA	1:D:400:GLU:O	2.20	0.41
1:D:401:ARG:O	2:jA:3:SIA:H6	2.20	0.41
1:E:70:LEU:HD13	1:E:210:THR:HB	2.01	0.41
1:E:417:ARG:HE	1:M:224:GLN:HG2	1.85	0.41
1:F:466:ASP:HB3	1:F:585:CYS:SG	2.60	0.41
1:F:563:SER:C	1:F:565:MET:N	2.79	0.41
1:F:589:PRO:C	1:H:251:GLN:NE2	2.78	0.41
1:G:40:GLY:CA	1:a:39:ILE:CG2	2.94	0.41
1:G:333:GLU:CD	1:G:338:ARG:HH22	2.28	0.41
1:G:589:PRO:C	1:X:251:GLN:NE2	2.78	0.41
1:H:185:ASP:HB2	1:H:259:LEU:CD1	2.50	0.41
1:I:265:ARG:O	1:I:266:THR:C	2.64	0.41
1:J:109:GLN:HE22	1:7:300:ILE:CG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:292:ARG:HE	1:J:333:GLU:HG3	1.85	0.41
1:L:70:LEU:HD13	1:L:210:THR:HB	2.01	0.41
1:M:190:LEU:HD13	1:M:255:ILE:HD13	2.03	0.41
1:N:284:LEU:O	1:N:586:ARG:HA	2.19	0.41
1:N:546:ASN:OD1	1:i:129:SER:HB2	2.20	0.41
1:O:381:ARG:HG3	1:O:381:ARG:HH11	1.85	0.41
1:P:70:LEU:HD13	1:P:210:THR:HB	2.01	0.41
1:P:292:ARG:HE	1:P:333:GLU:HG3	1.85	0.41
1:P:365:PRO:HD3	1:P:489:VAL:HG13	2.03	0.41
1:Q:546:ASN:OD1	1:f:129:SER:HB2	2.20	0.41
1:R:265:ARG:O	1:R:266:THR:C	2.64	0.41
1:R:393:ALA:HB2	1:R:577:ASN:HD22	1.86	0.41
1:S:253:PHE:CE1	1:i:548:THR:CG2	2.84	0.41
1:T:563:SER:C	1:T:565:MET:N	2.79	0.41
1:U:185:ASP:HB2	1:U:259:LEU:CD1	2.50	0.41
1:U:190:LEU:HD13	1:U:255:ILE:HD13	2.03	0.41
1:V:333:GLU:CD	1:V:338:ARG:HH22	2.28	0.41
1:X:393:ALA:HB2	1:X:577:ASN:HD22	1.85	0.41
1:X:466:ASP:HB3	1:X:585:CYS:SG	2.60	0.41
1:Y:326:GLN:C	1:Y:328:VAL:N	2.79	0.41
1:b:135:GLN:HE21	1:b:586:ARG:H	1.66	0.41
1:b:466:ASP:HB3	1:b:585:CYS:SG	2.60	0.41
1:e:40:GLY:CA	1:4:39:ILE:CG2	2.94	0.41
1:e:483:HIS:CB	1:z:486:ARG:NH2	2.71	0.41
1:e:563:SER:C	1:e:565:MET:N	2.79	0.41
1:f:381:ARG:HH11	1:f:381:ARG:HG3	1.85	0.41
1:h:190:LEU:HD13	1:h:255:ILE:HD13	2.03	0.41
1:i:284:LEU:O	1:i:586:ARG:HA	2.19	0.41
1:j:292:ARG:HE	1:j:333:GLU:HG3	1.85	0.41
1:k:185:ASP:HB2	1:k:259:LEU:CD1	2.50	0.41
1:k:365:PRO:HD3	1:k:489:VAL:HG13	2.03	0.41
1:l:462:PHE:CE2	1:w:483:HIS:CE1	3.05	0.41
1:l:466:ASP:HB3	1:l:585:CYS:SG	2.60	0.41
1:m:563:SER:C	1:m:565:MET:N	2.79	0.41
1:o:251:GLN:NE2	1:t:589:PRO:C	2.78	0.41
1:o:393:ALA:HB2	1:o:577:ASN:HD22	1.85	0.41
1:o:466:ASP:HB3	1:o:585:CYS:SG	2.60	0.41
1:p:333:GLU:CD	1:p:338:ARG:HH22	2.28	0.41
1:q:265:ARG:O	1:q:266:THR:C	2.64	0.41
1:s:185:ASP:HB2	1:s:259:LEU:CD1	2.50	0.41
1:s:190:LEU:HD13	1:s:255:ILE:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:40:GLY:CA	1:3:39:ILE:CG2	2.94	0.41
1:t:469:TYR:HA	1:t:470:PRO:HA	1.82	0.41
1:u:265:ARG:O	1:u:266:THR:C	2.64	0.41
1:u:589:PRO:C	1:4:251:GLN:NE2	2.78	0.41
1:v:466:ASP:HB3	1:v:585:CYS:SG	2.60	0.41
1:y:483:HIS:CE1	1:1:462:PHE:CE2	3.06	0.41
1:y:563:SER:C	1:y:565:MET:N	2.79	0.41
1:1:401:ARG:O	2:SA:3:SIA:H6	2.20	0.41
1:2:284:LEU:O	1:2:586:ARG:HA	2.20	0.41
1:4:466:ASP:HB3	1:4:585:CYS:SG	2.60	0.41
1:5:185:ASP:HB2	1:5:259:LEU:CD1	2.50	0.41
1:5:326:GLN:C	1:5:328:VAL:N	2.79	0.41
1:5:333:GLU:CD	1:5:338:ARG:HH22	2.28	0.41
1:6:70:LEU:HD13	1:6:210:THR:HB	2.01	0.41
1:6:284:LEU:O	1:6:586:ARG:HA	2.19	0.41
1:7:326:GLN:C	1:7:328:VAL:N	2.79	0.41
1:7:333:GLU:CD	1:7:338:ARG:HH22	2.28	0.41
1:A:39:ILE:HD13	1:M:39:ILE:HD11	2.02	0.41
1:D:101:MET:HE2	1:D:101:MET:HB2	1.89	0.41
1:E:82:ARG:HG2	1:E:108:GLN:NE2	2.36	0.41
1:E:547:LEU:HD13	1:M:189:ILE:HD13	2.02	0.41
1:F:54:PHE:HD1	1:F:60:VAL:HG22	1.85	0.41
1:F:547:LEU:HD13	1:H:189:ILE:HD13	2.02	0.41
1:G:326:GLN:C	1:G:328:VAL:N	2.79	0.41
1:H:365:PRO:HD3	1:H:489:VAL:HG13	2.03	0.41
1:H:383:ASN:HA	1:H:400:GLU:O	2.20	0.41
1:I:39:ILE:CG2	1:3:40:GLY:CA	2.94	0.41
1:I:365:PRO:HD3	1:I:489:VAL:HG13	2.03	0.41
1:J:284:LEU:O	1:J:586:ARG:HA	2.20	0.41
1:K:190:LEU:HD13	1:K:255:ILE:HD13	2.03	0.41
1:K:265:ARG:O	1:K:266:THR:C	2.64	0.41
1:L:190:LEU:HD13	1:L:255:ILE:HD13	2.03	0.41
1:M:265:ARG:HG3	1:r:42:SER:HG	1.85	0.41
1:M:300:ILE:HG21	1:O:109:GLN:HE21	1.84	0.41
1:N:129:SER:HB2	1:i:546:ASN:OD1	2.20	0.41
1:O:466:ASP:HB3	1:O:585:CYS:SG	2.60	0.41
1:P:190:LEU:HD13	1:P:255:ILE:HD13	2.03	0.41
1:P:381:ARG:HH11	1:P:381:ARG:HG3	1.85	0.41
1:Q:251:GLN:NE2	1:V:589:PRO:C	2.78	0.41
1:R:82:ARG:HG2	1:R:108:GLN:NE2	2.36	0.41
1:S:54:PHE:HD1	1:S:60:VAL:HG22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:466:ASP:HB3	1:T:585:CYS:SG	2.60	0.41
1:U:365:PRO:HD3	1:U:489:VAL:HG13	2.03	0.41
1:V:70:LEU:HD13	1:V:210:THR:HB	2.01	0.41
1:V:345:MET:HE3	1:V:345:MET:HB3	1.85	0.41
1:W:129:SER:HB2	1:k:546:ASN:OD1	2.20	0.41
1:a:40:GLY:CA	1:u:39:ILE:CG2	2.94	0.41
1:a:393:ALA:HB2	1:a:577:ASN:HD22	1.86	0.41
1:b:129:SER:HB2	1:x:546:ASN:OD1	2.20	0.41
1:c:185:ASP:HB2	1:c:259:LEU:CD1	2.50	0.41
1:c:365:PRO:HD3	1:c:489:VAL:HG13	2.03	0.41
1:c:563:SER:C	1:c:565:MET:N	2.79	0.41
1:e:462:PHE:CE2	1:k:483:HIS:CE1	3.06	0.41
1:f:185:ASP:HB2	1:f:259:LEU:CD1	2.50	0.41
1:f:466:ASP:HB3	1:f:585:CYS:SG	2.60	0.41
1:h:189:ILE:HD13	1:w:547:LEU:HD13	2.02	0.41
1:h:224:GLN:HG2	1:w:417:ARG:HE	1.85	0.41
1:i:39:ILE:HD11	1:r:39:ILE:HD13	2.03	0.41
1:m:466:ASP:HB3	1:m:585:CYS:SG	2.60	0.41
1:o:185:ASP:HB2	1:o:259:LEU:CD1	2.50	0.41
1:o:381:ARG:HH11	1:o:381:ARG:HG3	1.85	0.41
1:o:578:MET:HE3	1:o:578:MET:HB3	1.84	0.41
1:p:70:LEU:HD13	1:p:210:THR:HB	2.01	0.41
1:p:589:PRO:C	1:x:251:GLN:NE2	2.78	0.41
1:q:82:ARG:HG2	1:q:108:GLN:NE2	2.36	0.41
1:q:491:ALA:HA	1:q:492:PRO:HD3	1.96	0.41
1:q:563:SER:C	1:q:565:MET:N	2.79	0.41
1:s:381:ARG:HH11	1:s:381:ARG:HG3	1.85	0.41
1:t:326:GLN:C	1:t:328:VAL:N	2.79	0.41
1:t:462:PHE:HE1	1:t:487:LEU:HD21	1.86	0.41
1:w:82:ARG:HG2	1:w:108:GLN:NE2	2.36	0.41
1:y:419:PHE:CZ	1:5:351:PHE:HB3	2.51	0.41
1:y:466:ASP:HB3	1:y:585:CYS:SG	2.60	0.41
1:y:547:LEU:HD13	1:5:189:ILE:HD13	2.02	0.41
1:1:224:GLN:HG2	1:5:417:ARG:HE	1.85	0.41
1:2:383:ASN:HA	1:2:400:GLU:O	2.20	0.41
1:3:466:ASP:HB3	1:3:585:CYS:SG	2.60	0.41
1:4:265:ARG:O	1:4:266:THR:C	2.64	0.41
1:5:365:PRO:HD3	1:5:489:VAL:HG13	2.03	0.41
1:5:383:ASN:HA	1:5:400:GLU:O	2.20	0.41
1:A:54:PHE:HD1	1:A:60:VAL:HG22	1.85	0.41
1:A:365:PRO:HD3	1:A:489:VAL:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:417:ARG:HE	1:P:224:GLN:HG2	1.85	0.41
1:B:129:SER:HB2	1:X:546:ASN:OD1	2.20	0.41
1:B:189:ILE:HD13	1:H:547:LEU:HD13	2.02	0.41
1:B:265:ARG:O	1:B:266:THR:C	2.64	0.41
1:B:462:PHE:CE2	1:F:483:HIS:CE1	3.06	0.41
1:C:462:PHE:HE1	1:C:487:LEU:HD21	1.86	0.41
1:D:190:LEU:HD13	1:D:255:ILE:HD13	2.03	0.41
1:D:265:ARG:O	1:D:266:THR:C	2.64	0.41
1:D:546:ASN:OD1	1:6:129:SER:HB2	2.20	0.41
1:E:292:ARG:HE	1:E:333:GLU:HG3	1.85	0.41
1:E:326:GLN:C	1:E:328:VAL:N	2.79	0.41
1:E:483:HIS:CE1	1:O:462:PHE:CE2	3.05	0.41
1:F:265:ARG:O	1:F:266:THR:C	2.64	0.41
1:F:365:PRO:HD3	1:F:489:VAL:HG13	2.03	0.41
1:F:419:PHE:CZ	1:H:351:PHE:HB3	2.51	0.41
1:F:546:ASN:OD1	1:K:129:SER:HB2	2.20	0.41
1:G:39:ILE:HD13	1:U:39:ILE:HD11	2.03	0.41
1:G:129:SER:HB2	1:2:546:ASN:OD1	2.20	0.41
1:G:326:GLN:C	1:G:328:VAL:H	2.27	0.41
1:G:462:PHE:HE1	1:G:487:LEU:HD21	1.86	0.41
1:G:462:PHE:CE2	1:X:483:HIS:CE1	3.05	0.41
1:H:326:GLN:C	1:H:328:VAL:N	2.79	0.41
1:I:54:PHE:HD1	1:I:60:VAL:HG22	1.85	0.41
1:I:393:ALA:HB2	1:I:577:ASN:HD22	1.86	0.41
1:I:546:ASN:OD1	1:c:129:SER:HB2	2.20	0.41
1:I:589:PRO:C	1:K:251:GLN:NE2	2.78	0.41
1:J:129:SER:HB2	1:t:546:ASN:OD1	2.20	0.41
1:J:265:ARG:O	1:J:266:THR:C	2.64	0.41
1:J:326:GLN:C	1:J:328:VAL:N	2.79	0.41
1:J:365:PRO:HD3	1:J:489:VAL:HG13	2.03	0.41
1:J:546:ASN:OD1	1:t:129:SER:HB2	2.20	0.41
1:K:39:ILE:CG2	1:c:40:GLY:CA	2.94	0.41
1:K:326:GLN:C	1:K:328:VAL:N	2.79	0.41
1:K:326:GLN:C	1:K:328:VAL:H	2.27	0.41
1:K:563:SER:C	1:K:565:MET:N	2.79	0.41
1:L:417:ARG:HE	1:c:224:GLN:HG2	1.85	0.41
1:L:547:LEU:HD13	1:c:189:ILE:HD13	2.02	0.41
1:M:265:ARG:O	1:M:266:THR:C	2.64	0.41
1:M:326:GLN:C	1:M:328:VAL:N	2.79	0.41
1:M:381:ARG:HH11	1:M:381:ARG:HG3	1.85	0.41
1:N:39:ILE:HD11	1:S:39:ILE:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:589:PRO:C	1:r:251:GLN:NE2	2.78	0.41
1:O:462:PHE:HE1	1:O:487:LEU:HD21	1.86	0.41
1:Q:292:ARG:HE	1:Q:333:GLU:HG3	1.85	0.41
1:Q:548:THR:CG2	1:T:253:PHE:HE1	2.25	0.41
1:R:190:LEU:HD13	1:R:255:ILE:HD13	2.03	0.41
1:R:345:MET:H	1:R:455:SER:HG	1.69	0.41
1:R:401:ARG:O	2:4A:3:SIA:H6	2.20	0.41
1:R:462:PHE:HE1	1:R:487:LEU:HD21	1.86	0.41
1:R:466:ASP:HB3	1:R:585:CYS:SG	2.60	0.41
1:R:563:SER:C	1:R:565:MET:N	2.79	0.41
1:S:251:GLN:NE2	1:i:589:PRO:C	2.78	0.41
1:T:265:ARG:O	1:T:266:THR:C	2.64	0.41
1:T:417:ARG:HE	1:V:224:GLN:HG2	1.85	0.41
1:U:265:ARG:O	1:U:266:THR:C	2.64	0.41
1:V:326:GLN:C	1:V:328:VAL:N	2.79	0.41
1:W:265:ARG:O	1:W:266:THR:C	2.64	0.41
1:W:284:LEU:O	1:W:586:ARG:HA	2.19	0.41
1:W:333:GLU:CD	1:W:338:ARG:HH22	2.28	0.41
1:W:365:PRO:HD3	1:W:489:VAL:HG13	2.03	0.41
1:W:563:SER:C	1:W:565:MET:N	2.79	0.41
1:X:39:ILE:CG2	1:2:40:GLY:CA	2.94	0.41
1:X:82:ARG:HG2	1:X:108:GLN:NE2	2.36	0.41
1:X:185:ASP:HB2	1:X:259:LEU:CD1	2.50	0.41
1:X:381:ARG:HH11	1:X:381:ARG:HG3	1.85	0.41
1:X:462:PHE:CE2	1:Z:483:HIS:CE1	3.05	0.41
1:Y:129:SER:HB2	1:7:546:ASN:OD1	2.20	0.41
1:Y:253:PHE:HE1	1:a:548:THR:CG2	2.25	0.41
1:Z:365:PRO:HD3	1:Z:489:VAL:HG13	2.03	0.41
1:Z:462:PHE:HE1	1:Z:487:LEU:HD21	1.86	0.41
1:a:190:LEU:HD13	1:a:255:ILE:HD13	2.03	0.41
1:a:466:ASP:HB3	1:a:585:CYS:SG	2.60	0.41
1:b:265:ARG:O	1:b:266:THR:C	2.64	0.41
1:b:393:ALA:HB2	1:b:577:ASN:HD22	1.86	0.41
1:c:381:ARG:HH11	1:c:381:ARG:HG3	1.85	0.41
1:e:129:SER:HB2	1:u:546:ASN:OD1	2.20	0.41
1:e:185:ASP:HB2	1:e:259:LEU:CD1	2.50	0.41
1:e:189:ILE:HD13	1:z:547:LEU:HD13	2.02	0.41
1:e:224:GLN:HG2	1:z:417:ARG:HE	1.85	0.41
1:e:365:PRO:HD3	1:e:489:VAL:HG13	2.03	0.41
1:e:381:ARG:HG3	1:e:381:ARG:HH11	1.85	0.41
1:f:265:ARG:O	1:f:266:THR:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:462:PHE:HE1	1:g:487:LEU:HD21	1.86	0.41
1:h:265:ARG:O	1:h:266:THR:C	2.64	0.41
1:h:326:GLN:C	1:h:328:VAL:N	2.79	0.41
1:h:381:ARG:HH11	1:h:381:ARG:HG3	1.85	0.41
1:i:253:PHE:HE1	1:n:548:THR:CG2	2.25	0.41
1:i:483:HIS:CE1	1:n:462:PHE:CE2	3.06	0.41
1:j:129:SER:HB2	1:5:546:ASN:OD1	2.20	0.41
1:j:190:LEU:HD13	1:j:255:ILE:HD13	2.03	0.41
1:j:224:GLN:HG2	1:v:417:ARG:HE	1.85	0.41
1:j:381:ARG:HG3	1:j:381:ARG:HH11	1.85	0.41
1:k:190:LEU:HD13	1:k:255:ILE:HD13	2.03	0.41
1:k:265:ARG:O	1:k:266:THR:C	2.64	0.41
1:l:462:PHE:HE1	1:l:487:LEU:HD21	1.86	0.41
1:l:578:MET:HE3	1:l:578:MET:HB3	1.84	0.41
1:m:265:ARG:O	1:m:266:THR:C	2.64	0.41
1:m:483:HIS:HE1	1:x:462:PHE:CA	2.27	0.41
1:n:265:ARG:O	1:n:266:THR:C	2.64	0.41
1:o:462:PHE:CE2	1:8:483:HIS:CE1	3.05	0.41
1:o:546:ASN:OD1	1:1:129:SER:HB2	2.20	0.41
1:q:190:LEU:HD13	1:q:255:ILE:HD13	2.03	0.41
1:q:401:ARG:O	2:DA:3:SIA:H6	2.20	0.41
1:q:462:PHE:HE1	1:q:487:LEU:HD21	1.86	0.41
1:q:466:ASP:HB3	1:q:585:CYS:SG	2.60	0.41
1:r:54:PHE:HD1	1:r:60:VAL:HG22	1.85	0.41
1:s:39:ILE:HD11	1:t:39:ILE:HD13	2.03	0.41
1:s:265:ARG:O	1:s:266:THR:C	2.64	0.41
1:s:350:ASN:ND2	1:6:453:PHE:HE2	2.11	0.41
1:s:365:PRO:HD3	1:s:489:VAL:HG13	2.03	0.41
1:t:326:GLN:C	1:t:328:VAL:H	2.27	0.41
1:u:365:PRO:HD3	1:u:489:VAL:HG13	2.03	0.41
1:u:393:ALA:HB2	1:u:577:ASN:HD22	1.86	0.41
1:v:54:PHE:HD1	1:v:60:VAL:HG22	1.85	0.41
1:v:365:PRO:HD3	1:v:489:VAL:HG13	2.03	0.41
1:w:39:ILE:CG2	1:z:40:GLY:CA	2.94	0.41
1:w:326:GLN:C	1:w:328:VAL:N	2.79	0.41
1:x:208:LYS:NZ	1:6:79:ASN:OD1	2.39	0.41
1:x:292:ARG:HE	1:x:333:GLU:HG3	1.85	0.41
1:y:265:ARG:O	1:y:266:THR:C	2.64	0.41
1:y:546:ASN:OD1	1:4:129:SER:HB2	2.20	0.41
1:y:548:THR:CG2	1:5:253:PHE:CE1	2.84	0.41
1:y:589:PRO:C	1:5:251:GLN:NE2	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:70:LEU:HD13	1:z:210:THR:HB	2.01	0.41
1:z:190:LEU:HD13	1:z:255:ILE:HD13	2.03	0.41
1:1:265:ARG:O	1:1:266:THR:C	2.64	0.41
1:1:326:GLN:C	1:1:328:VAL:N	2.79	0.41
1:1:466:ASP:HB3	1:1:585:CYS:SG	2.60	0.41
1:2:185:ASP:HB2	1:2:259:LEU:CD1	2.50	0.41
1:2:292:ARG:HE	1:2:333:GLU:HG3	1.85	0.41
1:2:326:GLN:C	1:2:328:VAL:N	2.79	0.41
1:2:365:PRO:HD3	1:2:489:VAL:HG13	2.03	0.41
1:3:190:LEU:HD13	1:3:255:ILE:HD13	2.03	0.41
1:3:393:ALA:HB2	1:3:577:ASN:HD22	1.86	0.41
1:4:190:LEU:HD13	1:4:255:ILE:HD13	2.03	0.41
1:4:326:GLN:C	1:4:328:VAL:N	2.79	0.41
1:4:326:GLN:C	1:4:328:VAL:H	2.27	0.41
1:4:563:SER:C	1:4:565:MET:N	2.79	0.41
1:6:265:ARG:O	1:6:266:THR:C	2.64	0.41
1:6:365:PRO:HD3	1:6:489:VAL:HG13	2.03	0.41
1:6:563:SER:C	1:6:565:MET:N	2.79	0.41
1:7:292:ARG:HE	1:7:333:GLU:HG3	1.85	0.41
1:7:381:ARG:HG3	1:7:381:ARG:HH11	1.85	0.41
1:8:462:PHE:HE1	1:8:487:LEU:HD21	1.86	0.41
1:A:547:LEU:HD13	1:P:189:ILE:HD13	2.02	0.41
1:B:466:ASP:HB3	1:B:585:CYS:SG	2.60	0.41
1:B:563:SER:C	1:B:565:MET:N	2.79	0.41
1:D:39:ILE:HD13	1:I:39:ILE:HD11	2.03	0.41
1:D:483:HIS:CE1	1:c:462:PHE:CE2	3.06	0.41
1:D:547:LEU:HD13	1:L:189:ILE:HD13	2.02	0.41
1:E:224:GLN:HG2	1:O:417:ARG:HE	1.85	0.41
1:F:185:ASP:HB2	1:F:259:LEU:CD1	2.50	0.41
1:F:383:ASN:HA	1:F:400:GLU:O	2.20	0.41
1:G:365:PRO:HD3	1:G:489:VAL:HG13	2.03	0.41
1:G:546:ASN:OD1	1:2:129:SER:HB2	2.20	0.41
1:H:546:ASN:OD1	1:P:129:SER:HB2	2.20	0.41
1:I:459:LEU:HD11	1:K:489:VAL:HG21	2.00	0.41
1:I:462:PHE:HE1	1:I:487:LEU:HD21	1.86	0.41
1:L:326:GLN:C	1:L:328:VAL:N	2.79	0.41
1:L:453:PHE:HZ	1:c:350:ASN:ND2	2.14	0.41
1:L:546:ASN:OD1	1:O:129:SER:HB2	2.20	0.41
1:N:459:LEU:HD11	1:r:489:VAL:HG21	2.00	0.41
1:N:462:PHE:HE1	1:N:487:LEU:HD21	1.86	0.41
1:N:483:HIS:CE1	1:d:462:PHE:CE2	3.06	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:548:THR:CG2	1:r:253:PHE:CE1	2.84	0.41
1:O:265:ARG:O	1:O:266:THR:C	2.64	0.41
1:P:563:SER:C	1:P:565:MET:N	2.79	0.41
1:Q:224:GLN:HG2	1:V:417:ARG:HE	1.85	0.41
1:Q:300:ILE:HG21	1:T:109:GLN:HE21	1.84	0.41
1:Q:345:MET:H	1:Q:455:SER:HG	1.69	0.41
1:Q:462:PHE:CA	1:T:483:HIS:HE1	2.27	0.41
1:R:491:ALA:HA	1:R:492:PRO:HD3	1.96	0.41
1:S:393:ALA:HB2	1:S:577:ASN:HD22	1.86	0.41
1:S:462:PHE:HE1	1:S:487:LEU:HD21	1.86	0.41
1:U:129:SER:HB2	1:Z:546:ASN:OD1	2.20	0.41
1:U:292:ARG:HE	1:U:333:GLU:HG3	1.85	0.41
1:Y:189:ILE:HD13	1:a:547:LEU:HD13	2.02	0.41
1:Y:365:PRO:HD3	1:Y:489:VAL:HG13	2.03	0.41
1:Y:381:ARG:HH11	1:Y:381:ARG:HG3	1.85	0.41
1:Y:546:ASN:OD1	1:7:129:SER:HB2	2.20	0.41
1:c:82:ARG:HG2	1:c:108:GLN:NE2	2.36	0.41
1:d:152:ASN:HD22	1:x:263:LEU:HD13	1.82	0.41
1:d:265:ARG:O	1:d:266:THR:C	2.64	0.41
1:e:546:ASN:OD1	1:u:129:SER:HB2	2.20	0.41
1:g:393:ALA:HB2	1:g:577:ASN:HD22	1.86	0.41
1:g:483:HIS:CE1	1:4:462:PHE:CE2	3.06	0.41
1:h:39:ILE:HD11	1:v:39:ILE:HD13	2.03	0.41
1:i:462:PHE:HE1	1:i:487:LEU:HD21	1.86	0.41
1:j:563:SER:C	1:j:565:MET:N	2.79	0.41
1:k:39:ILE:HD13	1:u:39:ILE:HD11	2.03	0.41
1:k:547:LEU:HD13	1:z:189:ILE:HD13	2.02	0.41
1:l:265:ARG:O	1:l:266:THR:C	2.64	0.41
1:l:563:SER:C	1:l:565:MET:N	2.79	0.41
1:m:109:GLN:HE21	1:x:300:ILE:HG21	1.84	0.41
1:n:292:ARG:HE	1:n:333:GLU:HG3	1.85	0.41
1:o:82:ARG:HG2	1:o:108:GLN:NE2	2.36	0.41
1:p:486:ARG:NH2	1:x:483:HIS:CB	2.71	0.41
1:r:462:PHE:HE1	1:r:487:LEU:HD21	1.86	0.41
1:u:54:PHE:HD1	1:u:60:VAL:HG22	1.85	0.41
1:u:462:PHE:HE1	1:u:487:LEU:HD21	1.86	0.41
1:x:345:MET:H	1:x:455:SER:HG	1.69	0.41
1:x:563:SER:C	1:x:565:MET:N	2.79	0.41
1:y:365:PRO:HD3	1:y:489:VAL:HG13	2.03	0.41
1:y:383:ASN:HA	1:y:400:GLU:O	2.20	0.41
1:z:326:GLN:C	1:z:328:VAL:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:189:ILE:HD13	1:5:547:LEU:HD13	2.02	0.41
1:1:365:PRO:HD3	1:1:489:VAL:HG13	2.03	0.41
1:2:265:ARG:O	1:2:266:THR:C	2.64	0.41
1:3:547:LEU:HD13	1:7:189:ILE:HD13	2.02	0.41
1:5:292:ARG:HE	1:5:333:GLU:HG3	1.85	0.41
1:8:365:PRO:HD3	1:8:489:VAL:HG13	2.03	0.41
1:A:462:PHE:HZ	1:R:458:PRO:HB3	1.86	0.40
1:B:365:PRO:HD3	1:B:489:VAL:HG13	2.03	0.40
1:C:185:ASP:HB2	1:C:259:LEU:CD1	2.50	0.40
1:C:393:ALA:HB2	1:C:577:ASN:HD22	1.86	0.40
1:E:39:ILE:CG2	1:L:40:GLY:CA	2.94	0.40
1:E:189:ILE:HD13	1:O:547:LEU:HD13	2.02	0.40
1:F:417:ARG:HE	1:H:224:GLN:HG2	1.85	0.40
1:G:381:ARG:HH11	1:G:381:ARG:HG3	1.85	0.40
1:G:469:TYR:HA	1:G:470:PRO:HA	1.82	0.40
1:H:292:ARG:HE	1:H:333:GLU:HG3	1.85	0.40
1:I:39:ILE:HD13	1:3:39:ILE:HD11	2.03	0.40
1:I:129:SER:HB2	1:c:546:ASN:OD1	2.20	0.40
1:J:189:ILE:HD13	1:7:547:LEU:HD13	2.02	0.40
1:K:54:PHE:HD1	1:K:60:VAL:HG22	1.85	0.40
1:L:589:PRO:C	1:c:251:GLN:NE2	2.78	0.40
1:M:326:GLN:C	1:M:328:VAL:H	2.27	0.40
1:M:466:ASP:HB3	1:M:585:CYS:SG	2.60	0.40
1:N:458:PRO:HB3	1:r:462:PHE:HZ	1.87	0.40
1:N:547:LEU:HD13	1:r:189:ILE:HD13	2.02	0.40
1:O:563:SER:C	1:O:565:MET:N	2.79	0.40
1:Q:333:GLU:CD	1:Q:338:ARG:HH22	2.28	0.40
1:Q:563:SER:C	1:Q:565:MET:N	2.79	0.40
1:R:326:GLN:C	1:R:328:VAL:N	2.79	0.40
1:S:189:ILE:HD13	1:i:547:LEU:HD13	2.02	0.40
1:S:365:PRO:HD3	1:S:489:VAL:HG13	2.03	0.40
1:U:417:ARG:O	1:f:227:VAL:CG2	2.70	0.40
1:V:152:ASN:HD22	1:i:263:LEU:HD13	1.82	0.40
1:W:193:THR:H	1:W:502:GLN:NE2	2.18	0.40
1:X:365:PRO:HD3	1:X:489:VAL:HG13	2.03	0.40
1:Y:54:PHE:HD1	1:Y:60:VAL:HG22	1.85	0.40
1:Y:292:ARG:HE	1:Y:333:GLU:HG3	1.85	0.40
1:Y:462:PHE:HE1	1:Y:487:LEU:HD21	1.86	0.40
1:b:227:VAL:CG2	1:s:417:ARG:O	2.70	0.40
1:d:401:ARG:O	2:MB:3:SIA:H6	2.20	0.40
1:e:82:ARG:HG2	1:e:108:GLN:NE2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:251:GLN:NE2	1:z:589:PRO:C	2.78	0.40
1:f:393:ALA:HB2	1:f:577:ASN:HD22	1.86	0.40
1:j:129:SER:OG	1:5:548:THR:O	2.30	0.40
1:j:189:ILE:HD13	1:v:547:LEU:HD13	2.02	0.40
1:k:82:ARG:HG2	1:k:108:GLN:NE2	2.36	0.40
1:k:381:ARG:HH11	1:k:381:ARG:HG3	1.85	0.40
1:l:417:ARG:HE	1:w:224:GLN:HG2	1.85	0.40
1:m:417:ARG:HE	1:p:224:GLN:HG2	1.85	0.40
1:p:39:ILE:HD13	1:v:39:ILE:HD11	2.03	0.40
1:p:326:GLN:C	1:p:328:VAL:N	2.79	0.40
1:p:381:ARG:HH11	1:p:381:ARG:HG3	1.85	0.40
1:p:417:ARG:HE	1:x:224:GLN:HG2	1.85	0.40
1:r:393:ALA:HB2	1:r:577:ASN:HD22	1.86	0.40
1:s:129:SER:HB2	1:8:546:ASN:OD1	2.20	0.40
1:t:365:PRO:HD3	1:t:489:VAL:HG13	2.03	0.40
1:t:381:ARG:HH11	1:t:381:ARG:HG3	1.85	0.40
1:w:292:ARG:HE	1:w:333:GLU:HG3	1.85	0.40
1:x:333:GLU:CD	1:x:338:ARG:HH22	2.28	0.40
1:1:563:SER:C	1:1:565:MET:N	2.79	0.40
1:6:333:GLU:CD	1:6:338:ARG:HH22	2.28	0.40
1:7:365:PRO:HD3	1:7:489:VAL:HG13	2.03	0.40
1:B:39:ILE:HD13	1:P:39:ILE:HD11	2.03	0.40
1:C:82:ARG:HG2	1:C:108:GLN:NE2	2.36	0.40
1:D:82:ARG:HG2	1:D:108:GLN:NE2	2.36	0.40
1:D:326:GLN:C	1:D:328:VAL:N	2.79	0.40
1:D:381:ARG:HH11	1:D:381:ARG:HG3	1.85	0.40
1:D:578:MET:HE3	1:D:578:MET:HB3	1.84	0.40
1:E:326:GLN:C	1:E:328:VAL:H	2.27	0.40
1:F:82:ARG:HG2	1:F:108:GLN:NE2	2.36	0.40
1:F:401:ARG:O	2:mA:3:SIA:H6	2.20	0.40
1:G:39:ILE:HD11	1:a:39:ILE:HD13	2.03	0.40
1:G:417:ARG:O	1:X:227:VAL:CG2	2.70	0.40
1:I:70:LEU:HD13	1:I:70:LEU:HA	1.96	0.40
1:M:417:ARG:O	1:O:227:VAL:CG2	2.70	0.40
1:N:462:PHE:CA	1:r:483:HIS:HE1	2.27	0.40
1:N:462:PHE:HZ	1:d:458:PRO:HB3	1.87	0.40
1:N:466:ASP:HB3	1:N:585:CYS:SG	2.60	0.40
1:O:39:ILE:HD11	1:c:39:ILE:HD13	2.03	0.40
1:Q:263:LEU:HD13	1:n:152:ASN:HD22	1.82	0.40
1:Q:458:PRO:HB3	1:T:462:PHE:HZ	1.87	0.40
1:S:190:LEU:HD13	1:S:255:ILE:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:227:VAL:CG2	1:i:417:ARG:O	2.70	0.40
1:S:417:ARG:O	1:n:227:VAL:CG2	2.70	0.40
1:S:462:PHE:HZ	1:i:458:PRO:HB3	1.87	0.40
1:T:39:ILE:HD13	1:f:39:ILE:HD11	2.03	0.40
1:T:82:ARG:HG2	1:T:108:GLN:NE2	2.36	0.40
1:T:458:PRO:HB3	1:V:462:PHE:HZ	1.87	0.40
1:U:82:ARG:HG2	1:U:108:GLN:NE2	2.36	0.40
1:V:381:ARG:HH11	1:V:381:ARG:HG3	1.85	0.40
1:W:190:LEU:HD13	1:W:255:ILE:HD13	2.03	0.40
1:X:548:THR:CG2	1:Z:253:PHE:CE1	2.84	0.40
1:Y:462:PHE:HZ	1:a:458:PRO:HB3	1.87	0.40
1:a:39:ILE:HD11	1:u:39:ILE:HD13	2.03	0.40
1:b:39:ILE:HD11	1:m:39:ILE:HD13	2.03	0.40
1:b:365:PRO:HD3	1:b:489:VAL:HG13	2.03	0.40
1:d:227:VAL:CG2	1:r:417:ARG:O	2.70	0.40
1:d:292:ARG:HE	1:d:333:GLU:HG3	1.85	0.40
1:e:39:ILE:HD13	1:l:39:ILE:HD11	2.03	0.40
1:f:365:PRO:HD3	1:f:489:VAL:HG13	2.03	0.40
1:g:82:ARG:HG2	1:g:108:GLN:NE2	2.36	0.40
1:g:547:LEU:HD13	1:u:189:ILE:HD13	2.02	0.40
1:h:417:ARG:O	1:l:227:VAL:CG2	2.70	0.40
1:h:462:PHE:CA	1:l:483:HIS:HE1	2.27	0.40
1:h:466:ASP:HB3	1:h:585:CYS:SG	2.60	0.40
1:i:462:PHE:HZ	1:n:458:PRO:HB3	1.87	0.40
1:i:466:ASP:HB3	1:i:585:CYS:SG	2.60	0.40
1:j:39:ILE:HD11	1:1:39:ILE:HD13	2.03	0.40
1:k:326:GLN:C	1:k:328:VAL:N	2.79	0.40
1:l:79:ASN:OD1	1:q:208:LYS:NZ	2.39	0.40
1:l:129:SER:HB2	1:z:546:ASN:OD1	2.20	0.40
1:l:547:LEU:HD13	1:w:189:ILE:HD13	2.02	0.40
1:m:101:MET:HB2	1:m:101:MET:HE2	1.89	0.40
1:m:458:PRO:HB3	1:p:462:PHE:HZ	1.87	0.40
1:m:462:PHE:HZ	1:x:458:PRO:HB3	1.87	0.40
1:n:401:ARG:O	2:9:3:SIA:H6	2.20	0.40
1:o:227:VAL:CG2	1:t:417:ARG:O	2.70	0.40
1:o:365:PRO:HD3	1:o:489:VAL:HG13	2.03	0.40
1:o:548:THR:CG2	1:8:253:PHE:CE1	2.84	0.40
1:p:265:ARG:O	1:p:266:THR:C	2.64	0.40
1:p:469:TYR:HA	1:p:470:PRO:HA	1.83	0.40
1:p:547:LEU:HD13	1:x:189:ILE:HD13	2.02	0.40
1:q:459:LEU:HD11	1:v:489:VAL:HG21	2.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:190:LEU:HD13	1:r:255:ILE:HD13	2.03	0.40
1:r:345:MET:HE3	1:r:345:MET:HB3	1.84	0.40
1:r:365:PRO:HD3	1:r:489:VAL:HG13	2.03	0.40
1:s:292:ARG:HE	1:s:333:GLU:HG3	1.85	0.40
1:s:393:ALA:HB2	1:s:577:ASN:HD22	1.86	0.40
1:s:469:TYR:HA	1:s:470:PRO:HA	1.82	0.40
1:u:70:LEU:HD13	1:u:70:LEU:HA	1.96	0.40
1:w:326:GLN:C	1:w:328:VAL:H	2.27	0.40
1:y:82:ARG:HG2	1:y:108:GLN:NE2	2.36	0.40
1:y:185:ASP:HB2	1:y:259:LEU:CD1	2.50	0.40
1:y:401:ARG:O	2:PA:3:SIA:H6	2.20	0.40
1:z:393:ALA:HB2	1:z:577:ASN:HD22	1.86	0.40
1:z:462:PHE:HE1	1:z:487:LEU:HD21	1.86	0.40
1:1:227:VAL:CG2	1:5:417:ARG:O	2.70	0.40
1:1:381:ARG:HH11	1:1:381:ARG:HG3	1.85	0.40
1:2:466:ASP:HB3	1:2:585:CYS:SG	2.60	0.40
1:3:548:THR:CG2	1:7:253:PHE:HE1	2.25	0.40
1:6:54:PHE:HD1	1:6:60:VAL:HG22	1.85	0.40
1:7:462:PHE:HE1	1:7:487:LEU:HD21	1.86	0.40
1:A:39:ILE:HD11	1:V:39:ILE:HD13	2.03	0.40
1:A:458:PRO:HB3	1:P:462:PHE:HZ	1.87	0.40
1:A:481:LEU:O	1:A:482:GLU:C	2.65	0.40
1:B:227:VAL:CG2	1:H:417:ARG:O	2.70	0.40
1:B:381:ARG:HG3	1:B:381:ARG:HH11	1.85	0.40
1:B:393:ALA:HB2	1:B:577:ASN:HD22	1.86	0.40
1:C:39:ILE:HD11	1:7:39:ILE:HD13	2.03	0.40
1:C:190:LEU:HD13	1:C:255:ILE:HD13	2.03	0.40
1:C:483:HIS:CE1	1:K:462:PHE:CE2	3.06	0.40
1:C:489:VAL:HG21	1:K:459:LEU:HD11	2.00	0.40
1:C:547:LEU:HD13	1:I:189:ILE:HD13	2.02	0.40
1:G:393:ALA:HB2	1:G:577:ASN:HD22	1.85	0.40
1:J:39:ILE:HD11	1:o:39:ILE:HD13	2.03	0.40
1:J:466:ASP:HB3	1:J:585:CYS:SG	2.60	0.40
1:K:365:PRO:HD3	1:K:489:VAL:HG13	2.03	0.40
1:L:393:ALA:HB2	1:L:577:ASN:HD22	1.86	0.40
1:L:462:PHE:HE1	1:L:487:LEU:HD21	1.86	0.40
1:N:224:GLN:HG2	1:d:417:ARG:HE	1.85	0.40
1:N:417:ARG:O	1:r:227:VAL:CG2	2.70	0.40
1:Q:189:ILE:HD13	1:V:547:LEU:HD13	2.02	0.40
1:Q:208:LYS:NZ	1:W:79:ASN:OD1	2.39	0.40
1:Q:253:PHE:HE1	1:V:548:THR:CG2	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:265:ARG:O	1:Q:266:THR:C	2.64	0.40
1:Q:547:LEU:HD13	1:T:189:ILE:HD13	2.02	0.40
1:S:265:ARG:O	1:S:266:THR:C	2.64	0.40
1:S:489:VAL:HG21	1:i:459:LEU:HD11	2.00	0.40
1:U:462:PHE:HE1	1:U:487:LEU:HD21	1.86	0.40
1:V:265:ARG:O	1:V:266:THR:C	2.64	0.40
1:V:365:PRO:HD3	1:V:489:VAL:HG13	2.03	0.40
1:W:54:PHE:HD1	1:W:60:VAL:HG22	1.85	0.40
1:W:351:PHE:HB3	1:f:419:PHE:CZ	2.51	0.40
1:X:39:ILE:HD13	1:2:39:ILE:HD11	2.03	0.40
1:Y:39:ILE:HD13	1:g:39:ILE:HD11	2.03	0.40
1:Y:483:HIS:CE1	1:a:462:PHE:CE2	3.06	0.40
1:Y:547:LEU:HD13	1:2:189:ILE:HD13	2.02	0.40
1:a:185:ASP:HB2	1:a:259:LEU:CD1	2.50	0.40
1:a:365:PRO:HD3	1:a:489:VAL:HG13	2.03	0.40
1:b:189:ILE:HD13	1:s:547:LEU:HD13	2.02	0.40
1:c:265:ARG:O	1:c:266:THR:C	2.64	0.40
1:g:489:VAL:HG21	1:4:459:LEU:HD11	2.00	0.40
1:h:40:GLY:CA	1:v:39:ILE:CG2	2.94	0.40
1:h:326:GLN:C	1:h:328:VAL:H	2.27	0.40
1:h:333:GLU:CD	1:h:338:ARG:HH22	2.28	0.40
1:h:462:PHE:HZ	1:w:458:PRO:HB3	1.87	0.40
1:j:489:VAL:HG21	1:v:459:LEU:HD11	2.00	0.40
1:j:546:ASN:OD1	1:5:129:SER:HB2	2.20	0.40
1:k:578:MET:HE3	1:k:578:MET:HB3	1.84	0.40
1:m:82:ARG:HG2	1:m:108:GLN:NE2	2.36	0.40
1:m:189:ILE:HD13	1:x:547:LEU:HD13	2.02	0.40
1:p:458:PRO:HB3	1:x:462:PHE:HZ	1.87	0.40
1:s:82:ARG:HG2	1:s:108:GLN:NE2	2.36	0.40
1:s:462:PHE:HE1	1:s:487:LEU:HD21	1.86	0.40
1:t:39:ILE:HD11	1:3:39:ILE:HD13	2.03	0.40
1:u:190:LEU:HD13	1:u:255:ILE:HD13	2.03	0.40
1:u:459:LEU:HD11	1:4:489:VAL:HG21	2.00	0.40
1:v:265:ARG:O	1:v:266:THR:C	2.64	0.40
1:v:481:LEU:O	1:v:482:GLU:C	2.65	0.40
1:x:265:ARG:O	1:x:266:THR:C	2.64	0.40
1:y:417:ARG:HE	1:5:224:GLN:HG2	1.85	0.40
1:y:462:PHE:HE1	1:y:487:LEU:HD21	1.86	0.40
1:3:265:ARG:O	1:3:266:THR:C	2.64	0.40
1:3:292:ARG:HE	1:3:333:GLU:HG3	1.85	0.40
1:3:365:PRO:HD3	1:3:489:VAL:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:458:PRO:HB3	1:7:462:PHE:HZ	1.87	0.40
1:4:54:PHE:HD1	1:4:60:VAL:HG22	1.85	0.40
1:6:190:LEU:HD13	1:6:255:ILE:HD13	2.03	0.40
1:6:193:THR:H	1:6:502:GLN:NE2	2.18	0.40
1:7:54:PHE:HD1	1:7:60:VAL:HG22	1.85	0.40
1:A:40:GLY:CA	1:V:39:ILE:CG2	2.93	0.40
1:A:265:ARG:O	1:A:266:THR:C	2.64	0.40
1:A:489:VAL:HG21	1:R:459:LEU:HD11	2.00	0.40
1:C:79:ASN:OD1	1:F:208:LYS:NZ	2.39	0.40
1:C:563:SER:C	1:C:565:MET:N	2.79	0.40
1:D:292:ARG:HE	1:D:333:GLU:HG3	1.85	0.40
1:D:462:PHE:HE1	1:D:487:LEU:HD21	1.86	0.40
1:E:39:ILE:HD13	1:L:39:ILE:HD11	2.03	0.40
1:E:190:LEU:HD13	1:E:255:ILE:HD13	2.03	0.40
1:E:381:ARG:HG3	1:E:381:ARG:HH11	1.85	0.40
1:E:458:PRO:HB3	1:M:462:PHE:HZ	1.87	0.40
1:F:252:PHE:CZ	1:X:572:PRO:HG2	2.57	0.40
1:F:393:ALA:HB2	1:F:577:ASN:HD22	1.86	0.40
1:G:185:ASP:HB2	1:G:259:LEU:CD1	2.50	0.40
1:H:39:ILE:HD11	1:R:39:ILE:HD13	2.03	0.40
1:H:481:LEU:O	1:H:482:GLU:C	2.65	0.40
1:I:190:LEU:HD13	1:I:255:ILE:HD13	2.03	0.40
1:K:39:ILE:HD13	1:c:39:ILE:HD11	2.03	0.40
1:L:39:ILE:HD13	1:6:39:ILE:HD11	2.03	0.40
1:M:365:PRO:HD3	1:M:489:VAL:HG13	2.03	0.40
1:M:462:PHE:CA	1:O:483:HIS:HE1	2.27	0.40
1:M:546:ASN:OD1	1:R:129:SER:HB2	2.20	0.40
1:N:481:LEU:O	1:N:482:GLU:C	2.65	0.40
1:O:292:ARG:HE	1:O:333:GLU:HG3	1.85	0.40
1:O:481:LEU:O	1:O:482:GLU:C	2.65	0.40
1:Q:417:ARG:O	1:T:227:VAL:CG2	2.70	0.40
1:Q:462:PHE:HZ	1:V:458:PRO:HB3	1.87	0.40
1:Q:483:HIS:CB	1:V:486:ARG:NH2	2.71	0.40
1:T:252:PHE:CZ	1:f:572:PRO:HG2	2.57	0.40
1:U:393:ALA:HB2	1:U:577:ASN:HD22	1.86	0.40
1:U:547:LEU:HD13	1:f:189:ILE:HD13	2.02	0.40
1:W:39:ILE:HD11	1:z:39:ILE:HD13	2.03	0.40
1:Y:563:SER:C	1:Y:565:MET:N	2.79	0.40
1:Z:190:LEU:HD13	1:Z:255:ILE:HD13	2.03	0.40
1:b:39:ILE:HD13	1:8:39:ILE:HD11	2.03	0.40
1:b:462:PHE:HE1	1:b:487:LEU:HD21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:572:PRO:HG2	1:m:252:PHE:CZ	2.57	0.40
1:d:190:LEU:HD13	1:d:255:ILE:HD13	2.03	0.40
1:e:39:ILE:HD11	1:4:39:ILE:HD13	2.03	0.40
1:e:265:ARG:O	1:e:266:THR:C	2.64	0.40
1:e:393:ALA:HB2	1:e:577:ASN:HD22	1.86	0.40
1:f:462:PHE:HE1	1:f:487:LEU:HD21	1.86	0.40
1:g:185:ASP:HB2	1:g:259:LEU:CD1	2.50	0.40
1:g:189:ILE:HD13	1:4:547:LEU:HD13	2.02	0.40
1:h:546:ASN:OD1	1:q:129:SER:HB2	2.20	0.40
1:i:481:LEU:O	1:i:482:GLU:C	2.65	0.40
1:k:462:PHE:HE1	1:k:487:LEU:HD21	1.86	0.40
1:l:481:LEU:O	1:l:482:GLU:C	2.65	0.40
1:m:227:VAL:CG2	1:x:417:ARG:O	2.70	0.40
1:m:462:PHE:HE1	1:m:487:LEU:HD21	1.86	0.40
1:n:190:LEU:HD13	1:n:255:ILE:HD13	2.03	0.40
1:o:572:PRO:HG2	1:y:252:PHE:CZ	2.57	0.40
1:q:326:GLN:C	1:q:328:VAL:N	2.79	0.40
1:q:417:ARG:O	1:v:227:VAL:CG2	2.70	0.40
1:q:458:PRO:HB3	1:v:462:PHE:HZ	1.87	0.40
1:r:265:ARG:O	1:r:266:THR:C	2.64	0.40
1:r:326:GLN:C	1:r:328:VAL:N	2.79	0.40
1:t:265:ARG:O	1:t:266:THR:C	2.64	0.40
1:w:39:ILE:HD13	1:z:39:ILE:HD11	2.03	0.40
1:w:190:LEU:HD13	1:w:255:ILE:HD13	2.03	0.40
1:y:190:LEU:HD13	1:y:255:ILE:HD13	2.03	0.40
1:z:185:ASP:HB2	1:z:259:LEU:CD1	2.50	0.40
1:2:82:ARG:HG2	1:2:108:GLN:NE2	2.36	0.40
1:2:252:PHE:CZ	1:7:572:PRO:HG2	2.57	0.40
1:3:185:ASP:HB2	1:3:259:LEU:CD1	2.50	0.40
1:3:462:PHE:CE2	1:7:483:HIS:CE1	3.06	0.40
1:5:462:PHE:HE1	1:5:487:LEU:HD21	1.86	0.40
1:5:481:LEU:O	1:5:482:GLU:C	2.65	0.40
1:7:393:ALA:HB2	1:7:577:ASN:HD22	1.86	0.40
1:7:563:SER:C	1:7:565:MET:N	2.79	0.40
1:A:227:VAL:CG2	1:R:417:ARG:O	2.70	0.40
1:C:189:ILE:HD13	1:K:547:LEU:HD13	2.02	0.40
1:C:381:ARG:HH11	1:C:381:ARG:HG3	1.85	0.40
1:C:417:ARG:O	1:I:227:VAL:CG2	2.70	0.40
1:E:417:ARG:O	1:M:227:VAL:CG2	2.70	0.40
1:F:190:LEU:HD13	1:F:255:ILE:HD13	2.03	0.40
1:F:462:PHE:HE1	1:F:487:LEU:HD21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:189:ILE:HD13	1:Z:547:LEU:HD13	2.02	0.40
1:G:227:VAL:CG2	1:Z:417:ARG:O	2.70	0.40
1:G:253:PHE:CE1	1:Z:548:THR:CG2	2.84	0.40
1:H:129:SER:HB2	1:P:546:ASN:OD1	2.20	0.40
1:H:462:PHE:HE1	1:H:487:LEU:HD21	1.86	0.40
1:I:481:LEU:O	1:I:482:GLU:C	2.65	0.40
1:I:563:SER:C	1:I:565:MET:N	2.79	0.40
1:J:185:ASP:HB2	1:J:259:LEU:CD1	2.50	0.40
1:J:252:PHE:CZ	1:Y:572:PRO:HG2	2.57	0.40
1:J:481:LEU:O	1:J:482:GLU:C	2.65	0.40
1:L:44:GLY:HA3	1:L:151:PHE:CD1	2.57	0.40
1:M:39:ILE:HD13	1:r:39:ILE:HD11	2.03	0.40
1:M:333:GLU:CD	1:M:338:ARG:HH22	2.28	0.40
1:M:481:LEU:O	1:M:482:GLU:C	2.65	0.40
1:N:263:LEU:HD13	1:p:152:ASN:HD22	1.82	0.40
1:P:393:ALA:HB2	1:P:577:ASN:HD22	1.86	0.40
1:T:393:ALA:HB2	1:T:577:ASN:HD22	1.86	0.40
1:Z:39:ILE:HD11	1:f:39:ILE:HD13	2.03	0.40
1:Z:393:ALA:HB2	1:Z:577:ASN:HD22	1.85	0.40
1:a:265:ARG:O	1:a:266:THR:C	2.64	0.40
1:c:393:ALA:HB2	1:c:577:ASN:HD22	1.86	0.40
1:g:44:GLY:HA3	1:g:151:PHE:CD1	2.57	0.40
1:g:190:LEU:HD13	1:g:255:ILE:HD13	2.03	0.40
1:g:265:ARG:O	1:g:266:THR:C	2.64	0.40
1:g:459:LEU:HD11	1:u:489:VAL:HG21	2.00	0.40
1:g:563:SER:C	1:g:565:MET:N	2.79	0.40
1:h:481:LEU:O	1:h:482:GLU:C	2.65	0.40
1:i:224:GLN:HG2	1:n:417:ARG:HE	1.85	0.40
1:j:462:PHE:HZ	1:v:458:PRO:HB3	1.87	0.40
1:j:547:LEU:HD13	1:q:189:ILE:HD13	2.02	0.40
1:k:292:ARG:HE	1:k:333:GLU:HG3	1.85	0.40
1:l:190:LEU:HD13	1:l:255:ILE:HD13	2.03	0.40
1:l:469:TYR:HA	1:l:470:PRO:HA	1.82	0.40
1:o:459:LEU:HD11	1:8:489:VAL:HG21	2.00	0.40
1:p:39:ILE:CG2	1:v:40:GLY:CA	2.94	0.40
1:p:44:GLY:HA3	1:p:151:PHE:CD1	2.57	0.40
1:p:365:PRO:HD3	1:p:489:VAL:HG13	2.03	0.40
1:q:39:ILE:HD13	1:5:39:ILE:HD11	2.03	0.40
1:t:189:ILE:HD13	1:8:547:LEU:HD13	2.02	0.40
1:t:393:ALA:HB2	1:t:577:ASN:HD22	1.85	0.40
1:u:481:LEU:O	1:u:482:GLU:C	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:381:ARG:HG3	1:w:381:ARG:HH11	1.85	0.40
1:w:563:SER:C	1:w:565:MET:N	2.79	0.40
1:z:44:GLY:HA3	1:z:151:PHE:CD1	2.57	0.40
1:z:265:ARG:O	1:z:266:THR:C	2.64	0.40
1:1:393:ALA:HB2	1:1:577:ASN:HD22	1.86	0.40
1:2:481:LEU:O	1:2:482:GLU:C	2.65	0.40
1:4:365:PRO:HD3	1:4:489:VAL:HG13	2.03	0.40
1:8:82:ARG:HG2	1:8:108:GLN:NE2	2.36	0.40
1:8:466:ASP:HB3	1:8:585:CYS:SG	2.60	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	2	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	3	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	4	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	5	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	6	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	7	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	8	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	A	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	B	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	C	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	D	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	E	557/559 (100%)	528 (95%)	29 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	G	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	H	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	I	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	J	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	K	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	L	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	M	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	N	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	O	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	P	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	Q	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	R	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	S	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	T	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	U	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	V	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	W	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	X	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	Y	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	Z	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	a	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	b	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	c	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	d	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	e	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	f	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	g	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	h	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	i	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	j	557/559 (100%)	527 (95%)	30 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	k	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	l	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	m	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	n	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	o	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	p	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	q	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	r	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	s	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	t	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	u	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	v	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	w	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
1	x	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	y	557/559 (100%)	527 (95%)	30 (5%)	0	100	100
1	z	557/559 (100%)	528 (95%)	29 (5%)	0	100	100
All	All	33420/33540 (100%)	31644 (95%)	1776 (5%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	2	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	3	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	4	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	5	480/480 (100%)	471 (98%)	9 (2%)	52	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	6	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	7	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	8	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	A	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	B	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	C	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	D	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	E	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	F	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	G	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	H	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	I	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	J	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	K	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	L	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	M	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	N	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	O	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	P	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	Q	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	R	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	S	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	T	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	U	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	V	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	W	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	X	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	Y	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	Z	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	a	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	b	480/480 (100%)	470 (98%)	10 (2%)	48	71

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	c	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	d	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	e	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	f	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	g	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	h	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	i	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	j	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	k	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	l	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	m	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	n	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	o	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	p	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	q	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	r	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	s	480/480 (100%)	471 (98%)	9 (2%)	52	74
1	t	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	u	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	v	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	w	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	x	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	y	480/480 (100%)	470 (98%)	10 (2%)	48	71
1	z	480/480 (100%)	471 (98%)	9 (2%)	52	74
All	All	28800/28800 (100%)	28224 (98%)	576 (2%)	50	73

All (576) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	83	VAL
1	A	87	ASN
1	A	266	THR
1	A	348	HIS
1	A	384	TYR

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Mol	Chain	Res	Type
1	A	464	HIS
1	A	466	ASP
1	A	511	LEU
1	A	522	VAL
1	A	581	ASP
1	B	83	VAL
1	B	87	ASN
1	B	266	THR
1	B	348	HIS
1	B	384	TYR
1	B	464	HIS
1	B	511	LEU
1	B	522	VAL
1	B	581	ASP
1	C	83	VAL
1	C	87	ASN
1	C	266	THR
1	C	348	HIS
1	C	384	TYR
1	C	464	HIS
1	C	466	ASP
1	C	511	LEU
1	C	522	VAL
1	C	581	ASP
1	D	83	VAL
1	D	87	ASN
1	D	266	THR
1	D	348	HIS
1	D	384	TYR
1	D	464	HIS
1	D	511	LEU
1	D	522	VAL
1	D	581	ASP
1	E	83	VAL
1	E	87	ASN
1	E	266	THR
1	E	348	HIS
1	E	384	TYR
1	E	464	HIS
1	E	466	ASP
1	E	511	LEU
1	E	522	VAL

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Mol	Chain	Res	Type
1	E	581	ASP
1	F	83	VAL
1	F	87	ASN
1	F	266	THR
1	F	348	HIS
1	F	384	TYR
1	F	464	HIS
1	F	466	ASP
1	F	511	LEU
1	F	522	VAL
1	F	581	ASP
1	G	83	VAL
1	G	87	ASN
1	G	266	THR
1	G	348	HIS
1	G	384	TYR
1	G	464	HIS
1	G	466	ASP
1	G	511	LEU
1	G	522	VAL
1	G	581	ASP
1	H	83	VAL
1	H	87	ASN
1	H	266	THR
1	H	348	HIS
1	H	384	TYR
1	H	464	HIS
1	H	511	LEU
1	H	522	VAL
1	H	581	ASP
1	I	83	VAL
1	I	87	ASN
1	I	266	THR
1	I	348	HIS
1	I	384	TYR
1	I	464	HIS
1	I	466	ASP
1	I	511	LEU
1	I	522	VAL
1	I	581	ASP
1	J	83	VAL
1	J	87	ASN

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Mol	Chain	Res	Type
1	J	266	THR
1	J	348	HIS
1	J	384	TYR
1	J	464	HIS
1	J	511	LEU
1	J	522	VAL
1	J	581	ASP
1	K	83	VAL
1	K	87	ASN
1	K	266	THR
1	K	348	HIS
1	K	384	TYR
1	K	464	HIS
1	K	466	ASP
1	K	511	LEU
1	K	522	VAL
1	K	581	ASP
1	L	83	VAL
1	L	87	ASN
1	L	266	THR
1	L	348	HIS
1	L	384	TYR
1	L	464	HIS
1	L	511	LEU
1	L	522	VAL
1	L	581	ASP
1	M	83	VAL
1	M	87	ASN
1	M	266	THR
1	M	348	HIS
1	M	384	TYR
1	M	464	HIS
1	M	466	ASP
1	M	511	LEU
1	M	522	VAL
1	M	581	ASP
1	N	83	VAL
1	N	87	ASN
1	N	266	THR
1	N	348	HIS
1	N	384	TYR
1	N	464	HIS

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Mol	Chain	Res	Type
1	N	511	LEU
1	N	522	VAL
1	N	581	ASP
1	O	83	VAL
1	O	87	ASN
1	O	266	THR
1	O	348	HIS
1	O	384	TYR
1	O	464	HIS
1	O	466	ASP
1	O	511	LEU
1	O	522	VAL
1	O	581	ASP
1	P	83	VAL
1	P	87	ASN
1	P	266	THR
1	P	348	HIS
1	P	384	TYR
1	P	464	HIS
1	P	511	LEU
1	P	522	VAL
1	P	581	ASP
1	Q	83	VAL
1	Q	87	ASN
1	Q	266	THR
1	Q	348	HIS
1	Q	384	TYR
1	Q	464	HIS
1	Q	466	ASP
1	Q	511	LEU
1	Q	522	VAL
1	Q	581	ASP
1	R	83	VAL
1	R	87	ASN
1	R	266	THR
1	R	348	HIS
1	R	384	TYR
1	R	464	HIS
1	R	511	LEU
1	R	522	VAL
1	R	581	ASP
1	S	83	VAL

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Mol	Chain	Res	Type
1	S	87	ASN
1	S	266	THR
1	S	348	HIS
1	S	384	TYR
1	S	464	HIS
1	S	511	LEU
1	S	522	VAL
1	S	581	ASP
1	T	83	VAL
1	T	87	ASN
1	T	266	THR
1	T	348	HIS
1	T	384	TYR
1	T	464	HIS
1	T	466	ASP
1	T	511	LEU
1	T	522	VAL
1	T	581	ASP
1	U	83	VAL
1	U	87	ASN
1	U	266	THR
1	U	348	HIS
1	U	384	TYR
1	U	464	HIS
1	U	511	LEU
1	U	522	VAL
1	U	581	ASP
1	V	83	VAL
1	V	87	ASN
1	V	266	THR
1	V	348	HIS
1	V	384	TYR
1	V	464	HIS
1	V	466	ASP
1	V	511	LEU
1	V	522	VAL
1	V	581	ASP
1	W	83	VAL
1	W	87	ASN
1	W	266	THR
1	W	348	HIS
1	W	384	TYR

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Mol	Chain	Res	Type
1	W	464	HIS
1	W	511	LEU
1	W	522	VAL
1	W	581	ASP
1	X	83	VAL
1	X	87	ASN
1	X	266	THR
1	X	348	HIS
1	X	384	TYR
1	X	464	HIS
1	X	466	ASP
1	X	511	LEU
1	X	522	VAL
1	X	581	ASP
1	Y	83	VAL
1	Y	87	ASN
1	Y	266	THR
1	Y	348	HIS
1	Y	384	TYR
1	Y	464	HIS
1	Y	511	LEU
1	Y	522	VAL
1	Y	581	ASP
1	Z	83	VAL
1	Z	87	ASN
1	Z	266	THR
1	Z	348	HIS
1	Z	384	TYR
1	Z	464	HIS
1	Z	466	ASP
1	Z	511	LEU
1	Z	522	VAL
1	Z	581	ASP
1	a	83	VAL
1	a	87	ASN
1	a	266	THR
1	a	348	HIS
1	a	384	TYR
1	a	464	HIS
1	a	466	ASP
1	a	511	LEU
1	a	522	VAL

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Mol	Chain	Res	Type
1	a	581	ASP
1	b	83	VAL
1	b	87	ASN
1	b	266	THR
1	b	348	HIS
1	b	384	TYR
1	b	464	HIS
1	b	466	ASP
1	b	511	LEU
1	b	522	VAL
1	b	581	ASP
1	c	83	VAL
1	c	87	ASN
1	c	266	THR
1	c	348	HIS
1	c	384	TYR
1	c	464	HIS
1	c	466	ASP
1	c	511	LEU
1	c	522	VAL
1	c	581	ASP
1	d	83	VAL
1	d	87	ASN
1	d	266	THR
1	d	348	HIS
1	d	384	TYR
1	d	464	HIS
1	d	466	ASP
1	d	511	LEU
1	d	522	VAL
1	d	581	ASP
1	e	83	VAL
1	e	87	ASN
1	e	266	THR
1	e	348	HIS
1	e	384	TYR
1	e	464	HIS
1	e	466	ASP
1	e	511	LEU
1	e	522	VAL
1	e	581	ASP
1	f	83	VAL

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Mol	Chain	Res	Type
1	f	87	ASN
1	f	266	THR
1	f	348	HIS
1	f	384	TYR
1	f	464	HIS
1	f	466	ASP
1	f	511	LEU
1	f	522	VAL
1	f	581	ASP
1	g	83	VAL
1	g	87	ASN
1	g	266	THR
1	g	348	HIS
1	g	384	TYR
1	g	464	HIS
1	g	466	ASP
1	g	511	LEU
1	g	522	VAL
1	g	581	ASP
1	h	83	VAL
1	h	87	ASN
1	h	266	THR
1	h	348	HIS
1	h	384	TYR
1	h	464	HIS
1	h	466	ASP
1	h	511	LEU
1	h	522	VAL
1	h	581	ASP
1	i	83	VAL
1	i	87	ASN
1	i	266	THR
1	i	348	HIS
1	i	384	TYR
1	i	464	HIS
1	i	511	LEU
1	i	522	VAL
1	i	581	ASP
1	j	83	VAL
1	j	87	ASN
1	j	266	THR
1	j	348	HIS

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Mol	Chain	Res	Type
1	j	384	TYR
1	j	464	HIS
1	j	511	LEU
1	j	522	VAL
1	j	581	ASP
1	k	83	VAL
1	k	87	ASN
1	k	266	THR
1	k	348	HIS
1	k	384	TYR
1	k	464	HIS
1	k	511	LEU
1	k	522	VAL
1	k	581	ASP
1	l	83	VAL
1	l	87	ASN
1	l	266	THR
1	l	348	HIS
1	l	384	TYR
1	l	464	HIS
1	l	466	ASP
1	l	511	LEU
1	l	522	VAL
1	l	581	ASP
1	m	83	VAL
1	m	87	ASN
1	m	266	THR
1	m	348	HIS
1	m	384	TYR
1	m	464	HIS
1	m	466	ASP
1	m	511	LEU
1	m	522	VAL
1	m	581	ASP
1	n	83	VAL
1	n	87	ASN
1	n	266	THR
1	n	348	HIS
1	n	384	TYR
1	n	464	HIS
1	n	466	ASP
1	n	511	LEU

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Mol	Chain	Res	Type
1	n	522	VAL
1	n	581	ASP
1	o	83	VAL
1	o	87	ASN
1	o	266	THR
1	o	348	HIS
1	o	384	TYR
1	o	464	HIS
1	o	466	ASP
1	o	511	LEU
1	o	522	VAL
1	o	581	ASP
1	p	83	VAL
1	p	87	ASN
1	p	266	THR
1	p	348	HIS
1	p	384	TYR
1	p	464	HIS
1	p	466	ASP
1	p	511	LEU
1	p	522	VAL
1	p	581	ASP
1	q	83	VAL
1	q	87	ASN
1	q	266	THR
1	q	348	HIS
1	q	384	TYR
1	q	464	HIS
1	q	511	LEU
1	q	522	VAL
1	q	581	ASP
1	r	83	VAL
1	r	87	ASN
1	r	266	THR
1	r	348	HIS
1	r	384	TYR
1	r	464	HIS
1	r	511	LEU
1	r	522	VAL
1	r	581	ASP
1	s	83	VAL
1	s	87	ASN

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Mol	Chain	Res	Type
1	s	266	THR
1	s	348	HIS
1	s	384	TYR
1	s	464	HIS
1	s	511	LEU
1	s	522	VAL
1	s	581	ASP
1	t	83	VAL
1	t	87	ASN
1	t	266	THR
1	t	348	HIS
1	t	384	TYR
1	t	464	HIS
1	t	466	ASP
1	t	511	LEU
1	t	522	VAL
1	t	581	ASP
1	u	83	VAL
1	u	87	ASN
1	u	266	THR
1	u	348	HIS
1	u	384	TYR
1	u	464	HIS
1	u	466	ASP
1	u	511	LEU
1	u	522	VAL
1	u	581	ASP
1	v	83	VAL
1	v	87	ASN
1	v	266	THR
1	v	348	HIS
1	v	384	TYR
1	v	464	HIS
1	v	466	ASP
1	v	511	LEU
1	v	522	VAL
1	v	581	ASP
1	w	83	VAL
1	w	87	ASN
1	w	266	THR
1	w	348	HIS
1	w	384	TYR

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Mol	Chain	Res	Type
1	w	464	HIS
1	w	466	ASP
1	w	511	LEU
1	w	522	VAL
1	w	581	ASP
1	x	83	VAL
1	x	87	ASN
1	x	266	THR
1	x	348	HIS
1	x	384	TYR
1	x	464	HIS
1	x	466	ASP
1	x	511	LEU
1	x	522	VAL
1	x	581	ASP
1	y	83	VAL
1	y	87	ASN
1	y	266	THR
1	y	348	HIS
1	y	384	TYR
1	y	464	HIS
1	y	466	ASP
1	y	511	LEU
1	y	522	VAL
1	y	581	ASP
1	z	83	VAL
1	z	87	ASN
1	z	266	THR
1	z	348	HIS
1	z	384	TYR
1	z	464	HIS
1	z	511	LEU
1	z	522	VAL
1	z	581	ASP
1	1	83	VAL
1	1	87	ASN
1	1	266	THR
1	1	348	HIS
1	1	384	TYR
1	1	464	HIS
1	1	511	LEU
1	1	522	VAL

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Mol	Chain	Res	Type
1	1	581	ASP
1	2	83	VAL
1	2	87	ASN
1	2	266	THR
1	2	348	HIS
1	2	384	TYR
1	2	464	HIS
1	2	511	LEU
1	2	522	VAL
1	2	581	ASP
1	3	83	VAL
1	3	87	ASN
1	3	266	THR
1	3	348	HIS
1	3	384	TYR
1	3	464	HIS
1	3	466	ASP
1	3	511	LEU
1	3	522	VAL
1	3	581	ASP
1	4	83	VAL
1	4	87	ASN
1	4	266	THR
1	4	348	HIS
1	4	384	TYR
1	4	464	HIS
1	4	466	ASP
1	4	511	LEU
1	4	522	VAL
1	4	581	ASP
1	5	83	VAL
1	5	87	ASN
1	5	266	THR
1	5	348	HIS
1	5	384	TYR
1	5	464	HIS
1	5	511	LEU
1	5	522	VAL
1	5	581	ASP
1	6	83	VAL
1	6	87	ASN
1	6	266	THR

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Mol	Chain	Res	Type
1	6	348	HIS
1	6	384	TYR
1	6	464	HIS
1	6	511	LEU
1	6	522	VAL
1	6	581	ASP
1	7	83	VAL
1	7	87	ASN
1	7	266	THR
1	7	348	HIS
1	7	384	TYR
1	7	464	HIS
1	7	511	LEU
1	7	522	VAL
1	7	581	ASP
1	8	83	VAL
1	8	87	ASN
1	8	266	THR
1	8	348	HIS
1	8	384	TYR
1	8	464	HIS
1	8	466	ASP
1	8	511	LEU
1	8	522	VAL
1	8	581	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1238) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	48	ASN
1	A	108	GLN
1	A	109	GLN
1	A	127	GLN
1	A	135	GLN
1	A	161	GLN
1	A	166	GLN
1	A	188	ASN
1	A	231	ASN
1	A	251	GLN
1	A	291	ASN
1	A	346	GLN
1	A	350	ASN

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Mol	Chain	Res	Type
1	A	383	ASN
1	A	436	GLN
1	A	464	HIS
1	A	471	ASN
1	A	483	HIS
1	A	497	ASN
1	A	502	GLN
1	A	579	HIS
1	B	48	ASN
1	B	108	GLN
1	B	109	GLN
1	B	127	GLN
1	B	135	GLN
1	B	161	GLN
1	B	188	ASN
1	B	231	ASN
1	B	251	GLN
1	B	291	ASN
1	B	346	GLN
1	B	350	ASN
1	B	383	ASN
1	B	436	GLN
1	B	464	HIS
1	B	471	ASN
1	B	483	HIS
1	B	497	ASN
1	B	502	GLN
1	B	579	HIS
1	C	48	ASN
1	C	107	HIS
1	C	108	GLN
1	C	109	GLN
1	C	127	GLN
1	C	135	GLN
1	C	161	GLN
1	C	188	ASN
1	C	231	ASN
1	C	251	GLN
1	C	291	ASN
1	C	346	GLN
1	C	350	ASN
1	C	383	ASN

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Mol	Chain	Res	Type
1	C	436	GLN
1	C	464	HIS
1	C	471	ASN
1	C	483	HIS
1	C	497	ASN
1	C	502	GLN
1	C	579	HIS
1	D	48	ASN
1	D	108	GLN
1	D	109	GLN
1	D	127	GLN
1	D	135	GLN
1	D	161	GLN
1	D	188	ASN
1	D	231	ASN
1	D	251	GLN
1	D	291	ASN
1	D	346	GLN
1	D	350	ASN
1	D	383	ASN
1	D	436	GLN
1	D	464	HIS
1	D	471	ASN
1	D	483	HIS
1	D	497	ASN
1	D	502	GLN
1	D	579	HIS
1	E	48	ASN
1	E	107	HIS
1	E	108	GLN
1	E	109	GLN
1	E	127	GLN
1	E	135	GLN
1	E	161	GLN
1	E	188	ASN
1	E	231	ASN
1	E	237	GLN
1	E	251	GLN
1	E	291	ASN
1	E	346	GLN
1	E	350	ASN
1	E	383	ASN

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Mol	Chain	Res	Type
1	E	436	GLN
1	E	464	HIS
1	E	471	ASN
1	E	483	HIS
1	E	497	ASN
1	E	502	GLN
1	E	579	HIS
1	F	48	ASN
1	F	108	GLN
1	F	109	GLN
1	F	127	GLN
1	F	135	GLN
1	F	161	GLN
1	F	188	ASN
1	F	231	ASN
1	F	251	GLN
1	F	291	ASN
1	F	346	GLN
1	F	350	ASN
1	F	383	ASN
1	F	436	GLN
1	F	464	HIS
1	F	471	ASN
1	F	483	HIS
1	F	497	ASN
1	F	502	GLN
1	F	579	HIS
1	G	48	ASN
1	G	108	GLN
1	G	109	GLN
1	G	127	GLN
1	G	135	GLN
1	G	161	GLN
1	G	188	ASN
1	G	231	ASN
1	G	251	GLN
1	G	291	ASN
1	G	346	GLN
1	G	350	ASN
1	G	383	ASN
1	G	436	GLN
1	G	464	HIS

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Mol	Chain	Res	Type
1	G	471	ASN
1	G	483	HIS
1	G	497	ASN
1	G	502	GLN
1	G	579	HIS
1	H	48	ASN
1	H	107	HIS
1	H	108	GLN
1	H	109	GLN
1	H	127	GLN
1	H	135	GLN
1	H	161	GLN
1	H	188	ASN
1	H	231	ASN
1	H	251	GLN
1	H	291	ASN
1	H	346	GLN
1	H	350	ASN
1	H	383	ASN
1	H	436	GLN
1	H	464	HIS
1	H	471	ASN
1	H	483	HIS
1	H	497	ASN
1	H	502	GLN
1	H	579	HIS
1	I	48	ASN
1	I	108	GLN
1	I	109	GLN
1	I	127	GLN
1	I	135	GLN
1	I	161	GLN
1	I	188	ASN
1	I	231	ASN
1	I	237	GLN
1	I	251	GLN
1	I	291	ASN
1	I	346	GLN
1	I	350	ASN
1	I	383	ASN
1	I	436	GLN
1	I	464	HIS

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Mol	Chain	Res	Type
1	I	471	ASN
1	I	483	HIS
1	I	497	ASN
1	I	502	GLN
1	I	579	HIS
1	J	48	ASN
1	J	108	GLN
1	J	109	GLN
1	J	127	GLN
1	J	135	GLN
1	J	161	GLN
1	J	188	ASN
1	J	231	ASN
1	J	251	GLN
1	J	291	ASN
1	J	346	GLN
1	J	350	ASN
1	J	383	ASN
1	J	436	GLN
1	J	464	HIS
1	J	471	ASN
1	J	483	HIS
1	J	497	ASN
1	J	502	GLN
1	J	579	HIS
1	K	48	ASN
1	K	108	GLN
1	K	109	GLN
1	K	127	GLN
1	K	135	GLN
1	K	161	GLN
1	K	188	ASN
1	K	231	ASN
1	K	251	GLN
1	K	291	ASN
1	K	346	GLN
1	K	350	ASN
1	K	383	ASN
1	K	436	GLN
1	K	464	HIS
1	K	471	ASN
1	K	483	HIS

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Mol	Chain	Res	Type
1	K	497	ASN
1	K	502	GLN
1	K	579	HIS
1	L	48	ASN
1	L	107	HIS
1	L	108	GLN
1	L	109	GLN
1	L	127	GLN
1	L	135	GLN
1	L	161	GLN
1	L	166	GLN
1	L	188	ASN
1	L	231	ASN
1	L	251	GLN
1	L	291	ASN
1	L	346	GLN
1	L	350	ASN
1	L	383	ASN
1	L	436	GLN
1	L	464	HIS
1	L	471	ASN
1	L	483	HIS
1	L	497	ASN
1	L	502	GLN
1	L	579	HIS
1	M	48	ASN
1	M	108	GLN
1	M	109	GLN
1	M	127	GLN
1	M	135	GLN
1	M	161	GLN
1	M	188	ASN
1	M	231	ASN
1	M	251	GLN
1	M	291	ASN
1	M	346	GLN
1	M	350	ASN
1	M	383	ASN
1	M	436	GLN
1	M	464	HIS
1	M	471	ASN
1	M	483	HIS

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Mol	Chain	Res	Type
1	M	497	ASN
1	M	502	GLN
1	M	579	HIS
1	N	48	ASN
1	N	108	GLN
1	N	109	GLN
1	N	127	GLN
1	N	135	GLN
1	N	161	GLN
1	N	188	ASN
1	N	231	ASN
1	N	251	GLN
1	N	291	ASN
1	N	346	GLN
1	N	350	ASN
1	N	383	ASN
1	N	436	GLN
1	N	464	HIS
1	N	471	ASN
1	N	483	HIS
1	N	497	ASN
1	N	502	GLN
1	N	579	HIS
1	O	48	ASN
1	O	107	HIS
1	O	108	GLN
1	O	109	GLN
1	O	127	GLN
1	O	135	GLN
1	O	161	GLN
1	O	188	ASN
1	O	231	ASN
1	O	237	GLN
1	O	251	GLN
1	O	291	ASN
1	O	346	GLN
1	O	350	ASN
1	O	383	ASN
1	O	436	GLN
1	O	464	HIS
1	O	471	ASN
1	O	483	HIS

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Mol	Chain	Res	Type
1	O	497	ASN
1	O	502	GLN
1	O	579	HIS
1	P	48	ASN
1	P	108	GLN
1	P	109	GLN
1	P	127	GLN
1	P	135	GLN
1	P	161	GLN
1	P	188	ASN
1	P	231	ASN
1	P	251	GLN
1	P	291	ASN
1	P	346	GLN
1	P	350	ASN
1	P	383	ASN
1	P	436	GLN
1	P	464	HIS
1	P	471	ASN
1	P	483	HIS
1	P	497	ASN
1	P	502	GLN
1	P	579	HIS
1	P	590	HIS
1	Q	48	ASN
1	Q	108	GLN
1	Q	109	GLN
1	Q	127	GLN
1	Q	135	GLN
1	Q	161	GLN
1	Q	188	ASN
1	Q	231	ASN
1	Q	237	GLN
1	Q	251	GLN
1	Q	291	ASN
1	Q	346	GLN
1	Q	350	ASN
1	Q	383	ASN
1	Q	436	GLN
1	Q	464	HIS
1	Q	471	ASN
1	Q	483	HIS

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Mol	Chain	Res	Type
1	Q	497	ASN
1	Q	502	GLN
1	Q	579	HIS
1	R	48	ASN
1	R	108	GLN
1	R	109	GLN
1	R	127	GLN
1	R	135	GLN
1	R	161	GLN
1	R	188	ASN
1	R	231	ASN
1	R	251	GLN
1	R	291	ASN
1	R	346	GLN
1	R	350	ASN
1	R	383	ASN
1	R	436	GLN
1	R	464	HIS
1	R	471	ASN
1	R	483	HIS
1	R	497	ASN
1	R	502	GLN
1	R	579	HIS
1	S	48	ASN
1	S	108	GLN
1	S	109	GLN
1	S	127	GLN
1	S	135	GLN
1	S	161	GLN
1	S	188	ASN
1	S	231	ASN
1	S	251	GLN
1	S	291	ASN
1	S	346	GLN
1	S	350	ASN
1	S	383	ASN
1	S	436	GLN
1	S	464	HIS
1	S	471	ASN
1	S	483	HIS
1	S	497	ASN
1	S	502	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	S	579	HIS
1	T	48	ASN
1	T	108	GLN
1	T	109	GLN
1	T	127	GLN
1	T	135	GLN
1	T	161	GLN
1	T	188	ASN
1	T	231	ASN
1	T	251	GLN
1	T	291	ASN
1	T	346	GLN
1	T	350	ASN
1	T	383	ASN
1	T	436	GLN
1	T	464	HIS
1	T	471	ASN
1	T	483	HIS
1	T	497	ASN
1	T	502	GLN
1	T	579	HIS
1	U	48	ASN
1	U	108	GLN
1	U	109	GLN
1	U	127	GLN
1	U	135	GLN
1	U	161	GLN
1	U	188	ASN
1	U	231	ASN
1	U	251	GLN
1	U	291	ASN
1	U	346	GLN
1	U	350	ASN
1	U	383	ASN
1	U	436	GLN
1	U	464	HIS
1	U	471	ASN
1	U	483	HIS
1	U	497	ASN
1	U	502	GLN
1	U	579	HIS
1	V	48	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	V	108	GLN
1	V	109	GLN
1	V	127	GLN
1	V	135	GLN
1	V	161	GLN
1	V	188	ASN
1	V	231	ASN
1	V	237	GLN
1	V	251	GLN
1	V	291	ASN
1	V	346	GLN
1	V	350	ASN
1	V	383	ASN
1	V	387	GLN
1	V	436	GLN
1	V	464	HIS
1	V	471	ASN
1	V	483	HIS
1	V	497	ASN
1	V	502	GLN
1	V	579	HIS
1	W	48	ASN
1	W	108	GLN
1	W	109	GLN
1	W	127	GLN
1	W	135	GLN
1	W	161	GLN
1	W	166	GLN
1	W	188	ASN
1	W	231	ASN
1	W	251	GLN
1	W	291	ASN
1	W	346	GLN
1	W	350	ASN
1	W	383	ASN
1	W	436	GLN
1	W	464	HIS
1	W	471	ASN
1	W	483	HIS
1	W	497	ASN
1	W	502	GLN
1	W	579	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	X	48	ASN
1	X	108	GLN
1	X	109	GLN
1	X	127	GLN
1	X	135	GLN
1	X	161	GLN
1	X	188	ASN
1	X	231	ASN
1	X	251	GLN
1	X	291	ASN
1	X	346	GLN
1	X	350	ASN
1	X	383	ASN
1	X	436	GLN
1	X	464	HIS
1	X	471	ASN
1	X	483	HIS
1	X	497	ASN
1	X	502	GLN
1	X	579	HIS
1	X	590	HIS
1	Y	48	ASN
1	Y	107	HIS
1	Y	108	GLN
1	Y	109	GLN
1	Y	127	GLN
1	Y	135	GLN
1	Y	161	GLN
1	Y	188	ASN
1	Y	231	ASN
1	Y	251	GLN
1	Y	291	ASN
1	Y	346	GLN
1	Y	350	ASN
1	Y	383	ASN
1	Y	436	GLN
1	Y	464	HIS
1	Y	471	ASN
1	Y	483	HIS
1	Y	497	ASN
1	Y	502	GLN
1	Y	579	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	Z	48	ASN
1	Z	108	GLN
1	Z	109	GLN
1	Z	127	GLN
1	Z	135	GLN
1	Z	161	GLN
1	Z	188	ASN
1	Z	231	ASN
1	Z	251	GLN
1	Z	291	ASN
1	Z	346	GLN
1	Z	350	ASN
1	Z	383	ASN
1	Z	436	GLN
1	Z	464	HIS
1	Z	471	ASN
1	Z	483	HIS
1	Z	497	ASN
1	Z	502	GLN
1	Z	579	HIS
1	a	48	ASN
1	a	108	GLN
1	a	109	GLN
1	a	127	GLN
1	a	135	GLN
1	a	161	GLN
1	a	188	ASN
1	a	231	ASN
1	a	251	GLN
1	a	291	ASN
1	a	346	GLN
1	a	350	ASN
1	a	383	ASN
1	a	436	GLN
1	a	464	HIS
1	a	471	ASN
1	a	483	HIS
1	a	497	ASN
1	a	502	GLN
1	a	579	HIS
1	b	48	ASN
1	b	107	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	b	108	GLN
1	b	109	GLN
1	b	127	GLN
1	b	135	GLN
1	b	161	GLN
1	b	188	ASN
1	b	231	ASN
1	b	251	GLN
1	b	291	ASN
1	b	346	GLN
1	b	350	ASN
1	b	383	ASN
1	b	436	GLN
1	b	464	HIS
1	b	471	ASN
1	b	483	HIS
1	b	497	ASN
1	b	502	GLN
1	b	579	HIS
1	c	48	ASN
1	c	108	GLN
1	c	109	GLN
1	c	127	GLN
1	c	135	GLN
1	c	161	GLN
1	c	188	ASN
1	c	231	ASN
1	c	251	GLN
1	c	291	ASN
1	c	346	GLN
1	c	350	ASN
1	c	383	ASN
1	c	436	GLN
1	c	464	HIS
1	c	471	ASN
1	c	483	HIS
1	c	497	ASN
1	c	502	GLN
1	c	579	HIS
1	d	48	ASN
1	d	107	HIS
1	d	108	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	d	109	GLN
1	d	127	GLN
1	d	135	GLN
1	d	161	GLN
1	d	188	ASN
1	d	231	ASN
1	d	237	GLN
1	d	251	GLN
1	d	291	ASN
1	d	346	GLN
1	d	350	ASN
1	d	383	ASN
1	d	436	GLN
1	d	464	HIS
1	d	471	ASN
1	d	483	HIS
1	d	497	ASN
1	d	502	GLN
1	d	579	HIS
1	e	48	ASN
1	e	108	GLN
1	e	109	GLN
1	e	127	GLN
1	e	135	GLN
1	e	161	GLN
1	e	188	ASN
1	e	231	ASN
1	e	251	GLN
1	e	291	ASN
1	e	346	GLN
1	e	350	ASN
1	e	383	ASN
1	e	436	GLN
1	e	464	HIS
1	e	471	ASN
1	e	483	HIS
1	e	497	ASN
1	e	502	GLN
1	e	579	HIS
1	f	48	ASN
1	f	107	HIS
1	f	108	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	f	109	GLN
1	f	127	GLN
1	f	135	GLN
1	f	161	GLN
1	f	188	ASN
1	f	231	ASN
1	f	251	GLN
1	f	291	ASN
1	f	346	GLN
1	f	350	ASN
1	f	383	ASN
1	f	436	GLN
1	f	464	HIS
1	f	471	ASN
1	f	483	HIS
1	f	497	ASN
1	f	502	GLN
1	f	579	HIS
1	g	48	ASN
1	g	107	HIS
1	g	108	GLN
1	g	109	GLN
1	g	127	GLN
1	g	135	GLN
1	g	161	GLN
1	g	188	ASN
1	g	231	ASN
1	g	251	GLN
1	g	291	ASN
1	g	346	GLN
1	g	350	ASN
1	g	383	ASN
1	g	436	GLN
1	g	464	HIS
1	g	471	ASN
1	g	483	HIS
1	g	497	ASN
1	g	502	GLN
1	g	579	HIS
1	h	48	ASN
1	h	108	GLN
1	h	109	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	h	127	GLN
1	h	135	GLN
1	h	161	GLN
1	h	188	ASN
1	h	231	ASN
1	h	251	GLN
1	h	291	ASN
1	h	346	GLN
1	h	350	ASN
1	h	383	ASN
1	h	436	GLN
1	h	464	HIS
1	h	471	ASN
1	h	483	HIS
1	h	497	ASN
1	h	502	GLN
1	h	579	HIS
1	i	48	ASN
1	i	107	HIS
1	i	108	GLN
1	i	109	GLN
1	i	127	GLN
1	i	135	GLN
1	i	161	GLN
1	i	188	ASN
1	i	231	ASN
1	i	251	GLN
1	i	291	ASN
1	i	346	GLN
1	i	350	ASN
1	i	383	ASN
1	i	436	GLN
1	i	464	HIS
1	i	471	ASN
1	i	483	HIS
1	i	497	ASN
1	i	502	GLN
1	i	579	HIS
1	j	48	ASN
1	j	108	GLN
1	j	109	GLN
1	j	127	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	j	135	GLN
1	j	161	GLN
1	j	188	ASN
1	j	231	ASN
1	j	251	GLN
1	j	291	ASN
1	j	346	GLN
1	j	350	ASN
1	j	383	ASN
1	j	436	GLN
1	j	464	HIS
1	j	471	ASN
1	j	483	HIS
1	j	497	ASN
1	j	502	GLN
1	j	579	HIS
1	k	48	ASN
1	k	107	HIS
1	k	108	GLN
1	k	109	GLN
1	k	127	GLN
1	k	135	GLN
1	k	161	GLN
1	k	188	ASN
1	k	231	ASN
1	k	251	GLN
1	k	291	ASN
1	k	346	GLN
1	k	350	ASN
1	k	383	ASN
1	k	436	GLN
1	k	464	HIS
1	k	471	ASN
1	k	483	HIS
1	k	497	ASN
1	k	502	GLN
1	k	579	HIS
1	l	48	ASN
1	l	108	GLN
1	l	109	GLN
1	l	127	GLN
1	l	135	GLN

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Mol	Chain	Res	Type
1	l	161	GLN
1	l	188	ASN
1	l	231	ASN
1	l	237	GLN
1	l	251	GLN
1	l	291	ASN
1	l	346	GLN
1	l	350	ASN
1	l	383	ASN
1	l	436	GLN
1	l	464	HIS
1	l	471	ASN
1	l	483	HIS
1	l	497	ASN
1	l	502	GLN
1	l	579	HIS
1	m	48	ASN
1	m	108	GLN
1	m	109	GLN
1	m	127	GLN
1	m	135	GLN
1	m	161	GLN
1	m	188	ASN
1	m	231	ASN
1	m	251	GLN
1	m	291	ASN
1	m	346	GLN
1	m	350	ASN
1	m	383	ASN
1	m	436	GLN
1	m	464	HIS
1	m	471	ASN
1	m	483	HIS
1	m	497	ASN
1	m	502	GLN
1	m	579	HIS
1	m	590	HIS
1	n	48	ASN
1	n	107	HIS
1	n	108	GLN
1	n	109	GLN
1	n	127	GLN

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Mol	Chain	Res	Type
1	n	135	GLN
1	n	161	GLN
1	n	188	ASN
1	n	231	ASN
1	n	251	GLN
1	n	291	ASN
1	n	346	GLN
1	n	350	ASN
1	n	383	ASN
1	n	436	GLN
1	n	464	HIS
1	n	471	ASN
1	n	483	HIS
1	n	497	ASN
1	n	502	GLN
1	n	579	HIS
1	o	48	ASN
1	o	108	GLN
1	o	109	GLN
1	o	127	GLN
1	o	135	GLN
1	o	161	GLN
1	o	188	ASN
1	o	231	ASN
1	o	251	GLN
1	o	291	ASN
1	o	346	GLN
1	o	350	ASN
1	o	383	ASN
1	o	436	GLN
1	o	464	HIS
1	o	471	ASN
1	o	483	HIS
1	o	497	ASN
1	o	502	GLN
1	o	579	HIS
1	o	590	HIS
1	p	48	ASN
1	p	108	GLN
1	p	109	GLN
1	p	127	GLN
1	p	135	GLN

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Mol	Chain	Res	Type
1	p	161	GLN
1	p	188	ASN
1	p	231	ASN
1	p	251	GLN
1	p	291	ASN
1	p	346	GLN
1	p	350	ASN
1	p	383	ASN
1	p	436	GLN
1	p	464	HIS
1	p	471	ASN
1	p	483	HIS
1	p	497	ASN
1	p	502	GLN
1	p	579	HIS
1	q	48	ASN
1	q	108	GLN
1	q	109	GLN
1	q	127	GLN
1	q	135	GLN
1	q	161	GLN
1	q	188	ASN
1	q	231	ASN
1	q	251	GLN
1	q	291	ASN
1	q	346	GLN
1	q	350	ASN
1	q	383	ASN
1	q	436	GLN
1	q	464	HIS
1	q	471	ASN
1	q	483	HIS
1	q	497	ASN
1	q	502	GLN
1	q	579	HIS
1	r	48	ASN
1	r	107	HIS
1	r	108	GLN
1	r	109	GLN
1	r	127	GLN
1	r	135	GLN
1	r	161	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	r	188	ASN
1	r	231	ASN
1	r	251	GLN
1	r	291	ASN
1	r	346	GLN
1	r	350	ASN
1	r	383	ASN
1	r	436	GLN
1	r	464	HIS
1	r	471	ASN
1	r	483	HIS
1	r	497	ASN
1	r	502	GLN
1	r	579	HIS
1	s	48	ASN
1	s	108	GLN
1	s	109	GLN
1	s	127	GLN
1	s	135	GLN
1	s	161	GLN
1	s	188	ASN
1	s	231	ASN
1	s	251	GLN
1	s	291	ASN
1	s	346	GLN
1	s	350	ASN
1	s	383	ASN
1	s	436	GLN
1	s	464	HIS
1	s	471	ASN
1	s	483	HIS
1	s	497	ASN
1	s	502	GLN
1	s	579	HIS
1	t	48	ASN
1	t	108	GLN
1	t	109	GLN
1	t	127	GLN
1	t	135	GLN
1	t	161	GLN
1	t	188	ASN
1	t	231	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	t	251	GLN
1	t	291	ASN
1	t	346	GLN
1	t	350	ASN
1	t	383	ASN
1	t	436	GLN
1	t	464	HIS
1	t	471	ASN
1	t	483	HIS
1	t	497	ASN
1	t	502	GLN
1	t	579	HIS
1	u	48	ASN
1	u	108	GLN
1	u	109	GLN
1	u	127	GLN
1	u	135	GLN
1	u	161	GLN
1	u	188	ASN
1	u	231	ASN
1	u	237	GLN
1	u	251	GLN
1	u	291	ASN
1	u	346	GLN
1	u	350	ASN
1	u	383	ASN
1	u	436	GLN
1	u	464	HIS
1	u	471	ASN
1	u	483	HIS
1	u	497	ASN
1	u	502	GLN
1	u	579	HIS
1	v	48	ASN
1	v	108	GLN
1	v	109	GLN
1	v	127	GLN
1	v	135	GLN
1	v	161	GLN
1	v	166	GLN
1	v	188	ASN
1	v	231	ASN

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Mol	Chain	Res	Type
1	v	251	GLN
1	v	291	ASN
1	v	346	GLN
1	v	350	ASN
1	v	383	ASN
1	v	436	GLN
1	v	464	HIS
1	v	471	ASN
1	v	483	HIS
1	v	497	ASN
1	v	502	GLN
1	v	579	HIS
1	w	48	ASN
1	w	107	HIS
1	w	108	GLN
1	w	109	GLN
1	w	127	GLN
1	w	135	GLN
1	w	161	GLN
1	w	188	ASN
1	w	231	ASN
1	w	251	GLN
1	w	291	ASN
1	w	346	GLN
1	w	350	ASN
1	w	383	ASN
1	w	436	GLN
1	w	464	HIS
1	w	471	ASN
1	w	483	HIS
1	w	497	ASN
1	w	502	GLN
1	w	579	HIS
1	x	48	ASN
1	x	108	GLN
1	x	109	GLN
1	x	127	GLN
1	x	135	GLN
1	x	161	GLN
1	x	188	ASN
1	x	231	ASN
1	x	237	GLN

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Mol	Chain	Res	Type
1	x	251	GLN
1	x	291	ASN
1	x	346	GLN
1	x	350	ASN
1	x	383	ASN
1	x	436	GLN
1	x	464	HIS
1	x	471	ASN
1	x	483	HIS
1	x	497	ASN
1	x	502	GLN
1	x	579	HIS
1	x	590	HIS
1	y	48	ASN
1	y	108	GLN
1	y	109	GLN
1	y	127	GLN
1	y	135	GLN
1	y	161	GLN
1	y	188	ASN
1	y	231	ASN
1	y	251	GLN
1	y	291	ASN
1	y	346	GLN
1	y	350	ASN
1	y	383	ASN
1	y	436	GLN
1	y	464	HIS
1	y	471	ASN
1	y	483	HIS
1	y	497	ASN
1	y	502	GLN
1	y	579	HIS
1	z	48	ASN
1	z	107	HIS
1	z	108	GLN
1	z	109	GLN
1	z	127	GLN
1	z	135	GLN
1	z	161	GLN
1	z	188	ASN
1	z	231	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	z	251	GLN
1	z	291	ASN
1	z	346	GLN
1	z	350	ASN
1	z	383	ASN
1	z	436	GLN
1	z	464	HIS
1	z	471	ASN
1	z	483	HIS
1	z	497	ASN
1	z	502	GLN
1	z	579	HIS
1	1	48	ASN
1	1	107	HIS
1	1	108	GLN
1	1	109	GLN
1	1	127	GLN
1	1	135	GLN
1	1	161	GLN
1	1	188	ASN
1	1	231	ASN
1	1	251	GLN
1	1	291	ASN
1	1	346	GLN
1	1	350	ASN
1	1	383	ASN
1	1	436	GLN
1	1	464	HIS
1	1	471	ASN
1	1	483	HIS
1	1	497	ASN
1	1	502	GLN
1	1	579	HIS
1	2	48	ASN
1	2	108	GLN
1	2	109	GLN
1	2	127	GLN
1	2	135	GLN
1	2	161	GLN
1	2	188	ASN
1	2	231	ASN
1	2	251	GLN

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Mol	Chain	Res	Type
1	2	291	ASN
1	2	346	GLN
1	2	350	ASN
1	2	383	ASN
1	2	436	GLN
1	2	464	HIS
1	2	471	ASN
1	2	483	HIS
1	2	497	ASN
1	2	502	GLN
1	2	579	HIS
1	3	48	ASN
1	3	108	GLN
1	3	109	GLN
1	3	127	GLN
1	3	135	GLN
1	3	161	GLN
1	3	188	ASN
1	3	231	ASN
1	3	251	GLN
1	3	291	ASN
1	3	346	GLN
1	3	350	ASN
1	3	383	ASN
1	3	436	GLN
1	3	464	HIS
1	3	471	ASN
1	3	483	HIS
1	3	497	ASN
1	3	502	GLN
1	3	579	HIS
1	4	48	ASN
1	4	108	GLN
1	4	109	GLN
1	4	127	GLN
1	4	135	GLN
1	4	161	GLN
1	4	188	ASN
1	4	231	ASN
1	4	251	GLN
1	4	291	ASN
1	4	346	GLN

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Mol	Chain	Res	Type
1	4	350	ASN
1	4	383	ASN
1	4	436	GLN
1	4	464	HIS
1	4	471	ASN
1	4	483	HIS
1	4	497	ASN
1	4	502	GLN
1	4	579	HIS
1	5	48	ASN
1	5	107	HIS
1	5	108	GLN
1	5	109	GLN
1	5	127	GLN
1	5	135	GLN
1	5	161	GLN
1	5	188	ASN
1	5	231	ASN
1	5	251	GLN
1	5	291	ASN
1	5	346	GLN
1	5	350	ASN
1	5	383	ASN
1	5	436	GLN
1	5	464	HIS
1	5	471	ASN
1	5	483	HIS
1	5	497	ASN
1	5	502	GLN
1	5	579	HIS
1	6	48	ASN
1	6	108	GLN
1	6	109	GLN
1	6	127	GLN
1	6	135	GLN
1	6	161	GLN
1	6	166	GLN
1	6	188	ASN
1	6	231	ASN
1	6	251	GLN
1	6	291	ASN
1	6	346	GLN

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Mol	Chain	Res	Type
1	6	350	ASN
1	6	383	ASN
1	6	436	GLN
1	6	464	HIS
1	6	471	ASN
1	6	483	HIS
1	6	497	ASN
1	6	502	GLN
1	6	579	HIS
1	7	48	ASN
1	7	108	GLN
1	7	109	GLN
1	7	127	GLN
1	7	135	GLN
1	7	161	GLN
1	7	188	ASN
1	7	231	ASN
1	7	251	GLN
1	7	291	ASN
1	7	346	GLN
1	7	350	ASN
1	7	383	ASN
1	7	436	GLN
1	7	464	HIS
1	7	471	ASN
1	7	483	HIS
1	7	497	ASN
1	7	502	GLN
1	7	579	HIS
1	8	48	ASN
1	8	108	GLN
1	8	109	GLN
1	8	127	GLN
1	8	135	GLN
1	8	161	GLN
1	8	188	ASN
1	8	231	ASN
1	8	251	GLN
1	8	291	ASN
1	8	346	GLN
1	8	350	ASN
1	8	383	ASN

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Mol	Chain	Res	Type
1	8	436	GLN
1	8	464	HIS
1	8	471	ASN
1	8	483	HIS
1	8	497	ASN
1	8	502	GLN
1	8	579	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

180 monosaccharides are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	NAG	1A	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	1A	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	1A	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	2A	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	2A	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	2A	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	4A	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	4A	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	4A	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	NAG	5A	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	5A	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	5A	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	7A	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	7A	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	7A	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	8A	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	8A	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	8A	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	9	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	9	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	9	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	AA	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	AA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	AA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	AB	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	AB	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	AB	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	BB	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	BB	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	BB	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	CA	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	CA	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	CA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	DA	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	DA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	DA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	DB	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	DB	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	DB	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	EB	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	EB	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	EB	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	FA	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	FA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	SIA	FA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	GA	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	GA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	GA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	GB	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	GB	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	GB	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	HB	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	HB	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	HB	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	IA	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	IA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	IA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	JA	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	JA	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	JA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	JB	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	JB	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	JB	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	KB	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	KB	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	KB	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	LA	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	LA	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	LA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	MA	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	MA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	MA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	MB	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	MB	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	MB	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	NB	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	NB	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	NB	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	OA	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	GLA	OA	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	OA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	PA	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	PA	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	PA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	PB	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	PB	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	PB	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	QB	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	QB	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	QB	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	RA	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	RA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	RA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	SA	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	SA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	SA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	SB	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	SB	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	SB	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	TB	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	TB	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	TB	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	UA	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	UA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	UA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	VA	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	VA	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	VA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	VB	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	VB	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	VB	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	WB	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	WB	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	WB	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	NAG	XA	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	XA	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	XA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	YA	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	YA	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	YA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	YB	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	YB	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	YB	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	ZB	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	ZB	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	ZB	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	aA	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	aA	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	aA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	bA	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	bA	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	bA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	dA	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	dA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	dA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	eA	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	eA	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	eA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	gA	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	gA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	gA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	hA	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	hA	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	hA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	jA	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	jA	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	jA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	kA	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	kA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	SIA	kA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	mA	1	2	15,15,15	0.20	0	21,21,21	1.01	1 (4%)
2	GLA	mA	2	2	11,11,12	0.46	0	15,15,17	1.14	1 (6%)
2	SIA	mA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	nA	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	nA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	nA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	pA	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	pA	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	pA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	qA	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	qA	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	qA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	sA	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	sA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	sA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	tA	1	2	15,15,15	0.22	0	21,21,21	1.01	1 (4%)
2	GLA	tA	2	2	11,11,12	0.46	0	15,15,17	1.13	1 (6%)
2	SIA	tA	3	2	20,20,21	0.73	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	vA	1	2	15,15,15	0.21	0	21,21,21	1.00	1 (4%)
2	GLA	vA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	vA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	wA	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	wA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	wA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)
2	NAG	yA	1	2	15,15,15	0.21	0	21,21,21	1.02	1 (4%)
2	GLA	yA	2	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)
2	SIA	yA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.79	1 (4%)
2	NAG	zA	1	2	15,15,15	0.20	0	21,21,21	1.02	1 (4%)
2	GLA	zA	2	2	11,11,12	0.47	0	15,15,17	1.14	1 (6%)
2	SIA	zA	3	2	20,20,21	0.74	1 (5%)	21,28,31	0.80	1 (4%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAG	1A	1	2	-	2/6/26/26	0/1/1/1
2	GLA	1A	2	2	-	1/2/19/22	0/1/1/1
2	SIA	1A	3	2	-	5/18/34/38	0/1/1/1
2	NAG	2A	1	2	-	2/6/26/26	0/1/1/1
2	GLA	2A	2	2	-	1/2/19/22	0/1/1/1
2	SIA	2A	3	2	-	5/18/34/38	0/1/1/1
2	NAG	4A	1	2	-	2/6/26/26	0/1/1/1
2	GLA	4A	2	2	-	1/2/19/22	0/1/1/1
2	SIA	4A	3	2	-	5/18/34/38	0/1/1/1
2	NAG	5A	1	2	-	2/6/26/26	0/1/1/1
2	GLA	5A	2	2	-	1/2/19/22	0/1/1/1
2	SIA	5A	3	2	-	5/18/34/38	0/1/1/1
2	NAG	7A	1	2	-	2/6/26/26	0/1/1/1
2	GLA	7A	2	2	-	1/2/19/22	0/1/1/1
2	SIA	7A	3	2	-	5/18/34/38	0/1/1/1
2	NAG	8A	1	2	-	2/6/26/26	0/1/1/1
2	GLA	8A	2	2	-	1/2/19/22	0/1/1/1
2	SIA	8A	3	2	-	5/18/34/38	0/1/1/1
2	NAG	9	1	2	-	2/6/26/26	0/1/1/1
2	GLA	9	2	2	-	1/2/19/22	0/1/1/1
2	SIA	9	3	2	-	5/18/34/38	0/1/1/1
2	NAG	AA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	AA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	AA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	AB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	AB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	AB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	BB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	BB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	BB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	CA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	CA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	CA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	DA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	DA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	DA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	DB	1	2	-	2/6/26/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GLA	DB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	DB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	EB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	EB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	EB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	FA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	FA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	FA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	GA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	GA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	GA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	GB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	GB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	GB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	HB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	HB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	HB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	IA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	IA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	IA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	JA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	JA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	JA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	JB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	JB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	JB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	KB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	KB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	KB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	LA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	LA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	LA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	MA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	MA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	MA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	MB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	MB	2	2	-	1/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	SIA	MB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	NB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	NB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	NB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	OA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	OA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	OA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	PA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	PA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	PA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	PB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	PB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	PB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	QB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	QB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	QB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	RA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	RA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	RA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	SA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	SA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	SA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	SB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	SB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	SB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	TB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	TB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	TB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	UA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	UA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	UA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	VA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	VA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	VA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	VB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	VB	2	2	-	1/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	SIA	VB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	WB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	WB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	WB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	XA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	XA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	XA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	YA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	YA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	YA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	YB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	YB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	YB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	ZB	1	2	-	2/6/26/26	0/1/1/1
2	GLA	ZB	2	2	-	1/2/19/22	0/1/1/1
2	SIA	ZB	3	2	-	5/18/34/38	0/1/1/1
2	NAG	aA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	aA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	aA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	bA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	bA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	bA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	dA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	dA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	dA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	eA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	eA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	eA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	gA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	gA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	gA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	hA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	hA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	hA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	jA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	jA	2	2	-	1/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	SIA	jA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	kA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	kA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	kA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	mA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	mA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	mA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	nA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	nA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	nA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	pA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	pA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	pA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	qA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	qA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	qA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	sA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	sA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	sA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	tA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	tA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	tA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	vA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	vA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	vA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	wA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	wA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	wA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	yA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	yA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	yA	3	2	-	5/18/34/38	0/1/1/1
2	NAG	zA	1	2	-	2/6/26/26	0/1/1/1
2	GLA	zA	2	2	-	1/2/19/22	0/1/1/1
2	SIA	zA	3	2	-	5/18/34/38	0/1/1/1

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AA	3	SIA	O1B-C1	-3.01	1.21	1.30
2	IA	3	SIA	O1B-C1	-3.01	1.21	1.30
2	MA	3	SIA	O1B-C1	-3.01	1.21	1.30
2	dA	3	SIA	O1B-C1	-3.01	1.21	1.30
2	kA	3	SIA	O1B-C1	-3.01	1.21	1.30
2	nA	3	SIA	O1B-C1	-3.01	1.21	1.30
2	wA	3	SIA	O1B-C1	-3.01	1.21	1.30
2	zA	3	SIA	O1B-C1	-3.01	1.21	1.30
2	DB	3	SIA	O1B-C1	-3.01	1.21	1.30
2	GB	3	SIA	O1B-C1	-3.01	1.21	1.30
2	SB	3	SIA	O1B-C1	-3.01	1.21	1.30
2	YB	3	SIA	O1B-C1	-3.01	1.21	1.30
2	DA	3	SIA	O1B-C1	-3.00	1.21	1.30
2	FA	3	SIA	O1B-C1	-3.00	1.21	1.30
2	GA	3	SIA	O1B-C1	-3.00	1.21	1.30
2	RA	3	SIA	O1B-C1	-3.00	1.21	1.30
2	SA	3	SIA	O1B-C1	-3.00	1.21	1.30
2	UA	3	SIA	O1B-C1	-3.00	1.21	1.30
2	gA	3	SIA	O1B-C1	-3.00	1.21	1.30
2	sA	3	SIA	O1B-C1	-3.00	1.21	1.30
2	vA	3	SIA	O1B-C1	-3.00	1.21	1.30
2	4A	3	SIA	O1B-C1	-3.00	1.21	1.30
2	5A	3	SIA	O1B-C1	-3.00	1.21	1.30
2	8A	3	SIA	O1B-C1	-3.00	1.21	1.30
2	YA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	aA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	bA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	jA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	pA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	yA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	1A	3	SIA	O1B-C1	-2.99	1.21	1.30
2	BB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	EB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	TB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	VB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	WB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	9	3	SIA	O1B-C1	-2.99	1.21	1.30
2	LA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	PA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	VA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	eA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	mA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	HB	3	SIA	O1B-C1	-2.99	1.21	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	JB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	KB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	MB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	NB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	PB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	CA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	JA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	OA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	XA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	hA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	qA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	tA	3	SIA	O1B-C1	-2.99	1.21	1.30
2	2A	3	SIA	O1B-C1	-2.99	1.21	1.30
2	7A	3	SIA	O1B-C1	-2.99	1.21	1.30
2	AB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	QB	3	SIA	O1B-C1	-2.99	1.21	1.30
2	ZB	3	SIA	O1B-C1	-2.99	1.21	1.30

All (180) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AA	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	IA	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	MA	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	dA	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	kA	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	nA	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	wA	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	zA	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	DB	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	GB	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	SB	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	YB	1	NAG	O5-C1-C2	4.07	113.60	109.52
2	YA	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	aA	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	bA	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	jA	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	pA	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	yA	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	1A	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	BB	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	EB	1	NAG	O5-C1-C2	4.05	113.59	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	TB	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	VB	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	WB	1	NAG	O5-C1-C2	4.05	113.59	109.52
2	9	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	LA	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	PA	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	VA	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	eA	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	mA	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	HB	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	JB	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	KB	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	MB	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	NB	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	PB	1	NAG	O5-C1-C2	4.01	113.55	109.52
2	CA	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	JA	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	OA	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	XA	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	hA	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	qA	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	tA	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	2A	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	7A	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	AB	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	QB	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	ZB	1	NAG	O5-C1-C2	4.00	113.53	109.52
2	DA	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	FA	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	GA	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	RA	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	SA	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	UA	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	gA	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	sA	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	vA	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	4A	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	5A	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	8A	1	NAG	O5-C1-C2	3.99	113.52	109.52
2	DA	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	FA	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	GA	2	GLA	C1-O5-C5	2.94	116.13	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	RA	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	SA	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	UA	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	gA	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	sA	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	vA	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	4A	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	5A	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	8A	2	GLA	C1-O5-C5	2.94	116.13	112.19
2	YA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	aA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	bA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	jA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	pA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	yA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	1A	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	BB	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	EB	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	TB	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	VB	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	WB	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	AA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	IA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	MA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	dA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	kA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	nA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	wA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	zA	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	DB	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	GB	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	SB	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	YB	2	GLA	C1-O5-C5	2.93	116.11	112.19
2	9	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	LA	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	PA	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	VA	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	eA	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	mA	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	HB	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	JB	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	KB	2	GLA	C1-O5-C5	2.92	116.11	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	MB	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	NB	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	PB	2	GLA	C1-O5-C5	2.92	116.11	112.19
2	CA	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	JA	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	OA	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	XA	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	hA	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	qA	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	tA	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	2A	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	7A	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	AB	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	QB	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	ZB	2	GLA	C1-O5-C5	2.91	116.09	112.19
2	AA	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	IA	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	MA	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	dA	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	kA	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	nA	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	wA	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	zA	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	DB	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	GB	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	SB	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	YB	3	SIA	O1B-C1-C2	2.49	119.19	112.71
2	DA	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	FA	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	GA	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	RA	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	SA	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	UA	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	gA	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	sA	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	vA	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	4A	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	5A	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	8A	3	SIA	O1B-C1-C2	2.49	119.18	112.71
2	9	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	LA	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	PA	3	SIA	O1B-C1-C2	2.49	119.17	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	VA	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	eA	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	mA	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	HB	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	JB	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	KB	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	MB	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	NB	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	PB	3	SIA	O1B-C1-C2	2.49	119.17	112.71
2	CA	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	JA	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	OA	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	XA	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	hA	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	qA	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	tA	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	2A	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	7A	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	AB	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	QB	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	ZB	3	SIA	O1B-C1-C2	2.48	119.15	112.71
2	YA	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	aA	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	bA	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	jA	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	pA	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	yA	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	1A	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	BB	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	EB	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	TB	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	VB	3	SIA	O1B-C1-C2	2.47	119.13	112.71
2	WB	3	SIA	O1B-C1-C2	2.47	119.13	112.71

There are no chirality outliers.

All (480) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	9	3	SIA	C11-C10-N5-C5
2	AA	3	SIA	C11-C10-N5-C5
2	CA	3	SIA	C11-C10-N5-C5
2	DA	3	SIA	C11-C10-N5-C5

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Mol	Chain	Res	Type	Atoms
2	FA	3	SIA	C11-C10-N5-C5
2	GA	3	SIA	C11-C10-N5-C5
2	IA	3	SIA	C11-C10-N5-C5
2	JA	3	SIA	C11-C10-N5-C5
2	LA	3	SIA	C11-C10-N5-C5
2	MA	3	SIA	C11-C10-N5-C5
2	OA	3	SIA	C11-C10-N5-C5
2	PA	3	SIA	C11-C10-N5-C5
2	RA	3	SIA	C11-C10-N5-C5
2	SA	3	SIA	C11-C10-N5-C5
2	UA	3	SIA	C11-C10-N5-C5
2	VA	3	SIA	C11-C10-N5-C5
2	XA	3	SIA	C11-C10-N5-C5
2	YA	3	SIA	C11-C10-N5-C5
2	aA	3	SIA	C11-C10-N5-C5
2	bA	3	SIA	C11-C10-N5-C5
2	dA	3	SIA	C11-C10-N5-C5
2	eA	3	SIA	C11-C10-N5-C5
2	gA	3	SIA	C11-C10-N5-C5
2	hA	3	SIA	C11-C10-N5-C5
2	jA	3	SIA	C11-C10-N5-C5
2	kA	3	SIA	C11-C10-N5-C5
2	mA	3	SIA	C11-C10-N5-C5
2	nA	3	SIA	C11-C10-N5-C5
2	pA	3	SIA	C11-C10-N5-C5
2	qA	3	SIA	C11-C10-N5-C5
2	sA	3	SIA	C11-C10-N5-C5
2	tA	3	SIA	C11-C10-N5-C5
2	vA	3	SIA	C11-C10-N5-C5
2	wA	3	SIA	C11-C10-N5-C5
2	yA	3	SIA	C11-C10-N5-C5
2	zA	3	SIA	C11-C10-N5-C5
2	1A	3	SIA	C11-C10-N5-C5
2	2A	3	SIA	C11-C10-N5-C5
2	4A	3	SIA	C11-C10-N5-C5
2	5A	3	SIA	C11-C10-N5-C5
2	7A	3	SIA	C11-C10-N5-C5
2	8A	3	SIA	C11-C10-N5-C5
2	AB	3	SIA	C11-C10-N5-C5
2	BB	3	SIA	C11-C10-N5-C5
2	DB	3	SIA	C11-C10-N5-C5
2	EB	3	SIA	C11-C10-N5-C5

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Mol	Chain	Res	Type	Atoms
2	GB	3	SIA	C11-C10-N5-C5
2	HB	3	SIA	C11-C10-N5-C5
2	JB	3	SIA	C11-C10-N5-C5
2	KB	3	SIA	C11-C10-N5-C5
2	MB	3	SIA	C11-C10-N5-C5
2	NB	3	SIA	C11-C10-N5-C5
2	PB	3	SIA	C11-C10-N5-C5
2	QB	3	SIA	C11-C10-N5-C5
2	SB	3	SIA	C11-C10-N5-C5
2	TB	3	SIA	C11-C10-N5-C5
2	VB	3	SIA	C11-C10-N5-C5
2	WB	3	SIA	C11-C10-N5-C5
2	YB	3	SIA	C11-C10-N5-C5
2	ZB	3	SIA	C11-C10-N5-C5
2	9	1	NAG	C8-C7-N2-C2
2	9	1	NAG	O7-C7-N2-C2
2	9	3	SIA	O10-C10-N5-C5
2	AA	1	NAG	C8-C7-N2-C2
2	AA	1	NAG	O7-C7-N2-C2
2	AA	3	SIA	O10-C10-N5-C5
2	CA	1	NAG	C8-C7-N2-C2
2	CA	1	NAG	O7-C7-N2-C2
2	CA	3	SIA	O10-C10-N5-C5
2	DA	1	NAG	C8-C7-N2-C2
2	DA	1	NAG	O7-C7-N2-C2
2	DA	3	SIA	O10-C10-N5-C5
2	FA	1	NAG	C8-C7-N2-C2
2	FA	1	NAG	O7-C7-N2-C2
2	FA	3	SIA	O10-C10-N5-C5
2	GA	1	NAG	C8-C7-N2-C2
2	GA	1	NAG	O7-C7-N2-C2
2	GA	3	SIA	O10-C10-N5-C5
2	IA	1	NAG	C8-C7-N2-C2
2	IA	1	NAG	O7-C7-N2-C2
2	IA	3	SIA	O10-C10-N5-C5
2	JA	1	NAG	C8-C7-N2-C2
2	JA	1	NAG	O7-C7-N2-C2
2	JA	3	SIA	O10-C10-N5-C5
2	LA	1	NAG	C8-C7-N2-C2
2	LA	1	NAG	O7-C7-N2-C2
2	LA	3	SIA	O10-C10-N5-C5
2	MA	1	NAG	C8-C7-N2-C2

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Mol	Chain	Res	Type	Atoms
2	MA	1	NAG	O7-C7-N2-C2
2	MA	3	SIA	O10-C10-N5-C5
2	OA	1	NAG	C8-C7-N2-C2
2	OA	1	NAG	O7-C7-N2-C2
2	OA	3	SIA	O10-C10-N5-C5
2	PA	1	NAG	C8-C7-N2-C2
2	PA	1	NAG	O7-C7-N2-C2
2	PA	3	SIA	O10-C10-N5-C5
2	RA	1	NAG	C8-C7-N2-C2
2	RA	1	NAG	O7-C7-N2-C2
2	RA	3	SIA	O10-C10-N5-C5
2	SA	1	NAG	C8-C7-N2-C2
2	SA	1	NAG	O7-C7-N2-C2
2	SA	3	SIA	O10-C10-N5-C5
2	UA	1	NAG	C8-C7-N2-C2
2	UA	1	NAG	O7-C7-N2-C2
2	UA	3	SIA	O10-C10-N5-C5
2	VA	1	NAG	C8-C7-N2-C2
2	VA	1	NAG	O7-C7-N2-C2
2	VA	3	SIA	O10-C10-N5-C5
2	XA	1	NAG	C8-C7-N2-C2
2	XA	1	NAG	O7-C7-N2-C2
2	XA	3	SIA	O10-C10-N5-C5
2	YA	1	NAG	C8-C7-N2-C2
2	YA	1	NAG	O7-C7-N2-C2
2	YA	3	SIA	O10-C10-N5-C5
2	aA	1	NAG	C8-C7-N2-C2
2	aA	1	NAG	O7-C7-N2-C2
2	aA	3	SIA	O10-C10-N5-C5
2	bA	1	NAG	C8-C7-N2-C2
2	bA	1	NAG	O7-C7-N2-C2
2	bA	3	SIA	O10-C10-N5-C5
2	dA	1	NAG	C8-C7-N2-C2
2	dA	1	NAG	O7-C7-N2-C2
2	dA	3	SIA	O10-C10-N5-C5
2	eA	1	NAG	C8-C7-N2-C2
2	eA	1	NAG	O7-C7-N2-C2
2	eA	3	SIA	O10-C10-N5-C5
2	gA	1	NAG	C8-C7-N2-C2
2	gA	1	NAG	O7-C7-N2-C2
2	gA	3	SIA	O10-C10-N5-C5
2	hA	1	NAG	C8-C7-N2-C2

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Mol	Chain	Res	Type	Atoms
2	hA	1	NAG	O7-C7-N2-C2
2	hA	3	SIA	O10-C10-N5-C5
2	jA	1	NAG	C8-C7-N2-C2
2	jA	1	NAG	O7-C7-N2-C2
2	jA	3	SIA	O10-C10-N5-C5
2	kA	1	NAG	C8-C7-N2-C2
2	kA	1	NAG	O7-C7-N2-C2
2	kA	3	SIA	O10-C10-N5-C5
2	mA	1	NAG	C8-C7-N2-C2
2	mA	1	NAG	O7-C7-N2-C2
2	mA	3	SIA	O10-C10-N5-C5
2	nA	1	NAG	C8-C7-N2-C2
2	nA	1	NAG	O7-C7-N2-C2
2	nA	3	SIA	O10-C10-N5-C5
2	pA	1	NAG	C8-C7-N2-C2
2	pA	1	NAG	O7-C7-N2-C2
2	pA	3	SIA	O10-C10-N5-C5
2	qA	1	NAG	C8-C7-N2-C2
2	qA	1	NAG	O7-C7-N2-C2
2	qA	3	SIA	O10-C10-N5-C5
2	sA	1	NAG	C8-C7-N2-C2
2	sA	1	NAG	O7-C7-N2-C2
2	sA	3	SIA	O10-C10-N5-C5
2	tA	1	NAG	C8-C7-N2-C2
2	tA	1	NAG	O7-C7-N2-C2
2	tA	3	SIA	O10-C10-N5-C5
2	vA	1	NAG	C8-C7-N2-C2
2	vA	1	NAG	O7-C7-N2-C2
2	vA	3	SIA	O10-C10-N5-C5
2	wA	1	NAG	C8-C7-N2-C2
2	wA	1	NAG	O7-C7-N2-C2
2	wA	3	SIA	O10-C10-N5-C5
2	yA	1	NAG	C8-C7-N2-C2
2	yA	1	NAG	O7-C7-N2-C2
2	yA	3	SIA	O10-C10-N5-C5
2	zA	1	NAG	C8-C7-N2-C2
2	zA	1	NAG	O7-C7-N2-C2
2	zA	3	SIA	O10-C10-N5-C5
2	1A	1	NAG	C8-C7-N2-C2
2	1A	1	NAG	O7-C7-N2-C2
2	1A	3	SIA	O10-C10-N5-C5
2	2A	1	NAG	C8-C7-N2-C2

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Mol	Chain	Res	Type	Atoms
2	2A	1	NAG	O7-C7-N2-C2
2	2A	3	SIA	O10-C10-N5-C5
2	4A	1	NAG	C8-C7-N2-C2
2	4A	1	NAG	O7-C7-N2-C2
2	4A	3	SIA	O10-C10-N5-C5
2	5A	1	NAG	C8-C7-N2-C2
2	5A	1	NAG	O7-C7-N2-C2
2	5A	3	SIA	O10-C10-N5-C5
2	7A	1	NAG	C8-C7-N2-C2
2	7A	1	NAG	O7-C7-N2-C2
2	7A	3	SIA	O10-C10-N5-C5
2	8A	1	NAG	C8-C7-N2-C2
2	8A	1	NAG	O7-C7-N2-C2
2	8A	3	SIA	O10-C10-N5-C5
2	AB	1	NAG	C8-C7-N2-C2
2	AB	1	NAG	O7-C7-N2-C2
2	AB	3	SIA	O10-C10-N5-C5
2	BB	1	NAG	C8-C7-N2-C2
2	BB	1	NAG	O7-C7-N2-C2
2	BB	3	SIA	O10-C10-N5-C5
2	DB	1	NAG	C8-C7-N2-C2
2	DB	1	NAG	O7-C7-N2-C2
2	DB	3	SIA	O10-C10-N5-C5
2	EB	1	NAG	C8-C7-N2-C2
2	EB	1	NAG	O7-C7-N2-C2
2	EB	3	SIA	O10-C10-N5-C5
2	GB	1	NAG	C8-C7-N2-C2
2	GB	1	NAG	O7-C7-N2-C2
2	GB	3	SIA	O10-C10-N5-C5
2	HB	1	NAG	C8-C7-N2-C2
2	HB	1	NAG	O7-C7-N2-C2
2	HB	3	SIA	O10-C10-N5-C5
2	JB	1	NAG	C8-C7-N2-C2
2	JB	1	NAG	O7-C7-N2-C2
2	JB	3	SIA	O10-C10-N5-C5
2	KB	1	NAG	C8-C7-N2-C2
2	KB	1	NAG	O7-C7-N2-C2
2	KB	3	SIA	O10-C10-N5-C5
2	MB	1	NAG	C8-C7-N2-C2
2	MB	1	NAG	O7-C7-N2-C2
2	MB	3	SIA	O10-C10-N5-C5
2	NB	1	NAG	C8-C7-N2-C2

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Mol	Chain	Res	Type	Atoms
2	NB	1	NAG	O7-C7-N2-C2
2	NB	3	SIA	O10-C10-N5-C5
2	PB	1	NAG	C8-C7-N2-C2
2	PB	1	NAG	O7-C7-N2-C2
2	PB	3	SIA	O10-C10-N5-C5
2	QB	1	NAG	C8-C7-N2-C2
2	QB	1	NAG	O7-C7-N2-C2
2	QB	3	SIA	O10-C10-N5-C5
2	SB	1	NAG	C8-C7-N2-C2
2	SB	1	NAG	O7-C7-N2-C2
2	SB	3	SIA	O10-C10-N5-C5
2	TB	1	NAG	C8-C7-N2-C2
2	TB	1	NAG	O7-C7-N2-C2
2	TB	3	SIA	O10-C10-N5-C5
2	VB	1	NAG	C8-C7-N2-C2
2	VB	1	NAG	O7-C7-N2-C2
2	VB	3	SIA	O10-C10-N5-C5
2	WB	1	NAG	C8-C7-N2-C2
2	WB	1	NAG	O7-C7-N2-C2
2	WB	3	SIA	O10-C10-N5-C5
2	YB	1	NAG	C8-C7-N2-C2
2	YB	1	NAG	O7-C7-N2-C2
2	YB	3	SIA	O10-C10-N5-C5
2	ZB	1	NAG	C8-C7-N2-C2
2	ZB	1	NAG	O7-C7-N2-C2
2	ZB	3	SIA	O10-C10-N5-C5
2	9	2	GLA	O5-C5-C6-O6
2	AA	2	GLA	O5-C5-C6-O6
2	CA	2	GLA	O5-C5-C6-O6
2	DA	2	GLA	O5-C5-C6-O6
2	FA	2	GLA	O5-C5-C6-O6
2	GA	2	GLA	O5-C5-C6-O6
2	IA	2	GLA	O5-C5-C6-O6
2	JA	2	GLA	O5-C5-C6-O6
2	LA	2	GLA	O5-C5-C6-O6
2	MA	2	GLA	O5-C5-C6-O6
2	OA	2	GLA	O5-C5-C6-O6
2	PA	2	GLA	O5-C5-C6-O6
2	RA	2	GLA	O5-C5-C6-O6
2	SA	2	GLA	O5-C5-C6-O6
2	UA	2	GLA	O5-C5-C6-O6
2	VA	2	GLA	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
2	XA	2	GLA	O5-C5-C6-O6
2	YA	2	GLA	O5-C5-C6-O6
2	aA	2	GLA	O5-C5-C6-O6
2	bA	2	GLA	O5-C5-C6-O6
2	dA	2	GLA	O5-C5-C6-O6
2	eA	2	GLA	O5-C5-C6-O6
2	gA	2	GLA	O5-C5-C6-O6
2	hA	2	GLA	O5-C5-C6-O6
2	jA	2	GLA	O5-C5-C6-O6
2	kA	2	GLA	O5-C5-C6-O6
2	mA	2	GLA	O5-C5-C6-O6
2	nA	2	GLA	O5-C5-C6-O6
2	pA	2	GLA	O5-C5-C6-O6
2	qA	2	GLA	O5-C5-C6-O6
2	sA	2	GLA	O5-C5-C6-O6
2	tA	2	GLA	O5-C5-C6-O6
2	vA	2	GLA	O5-C5-C6-O6
2	wA	2	GLA	O5-C5-C6-O6
2	yA	2	GLA	O5-C5-C6-O6
2	zA	2	GLA	O5-C5-C6-O6
2	1A	2	GLA	O5-C5-C6-O6
2	2A	2	GLA	O5-C5-C6-O6
2	4A	2	GLA	O5-C5-C6-O6
2	5A	2	GLA	O5-C5-C6-O6
2	7A	2	GLA	O5-C5-C6-O6
2	8A	2	GLA	O5-C5-C6-O6
2	AB	2	GLA	O5-C5-C6-O6
2	BB	2	GLA	O5-C5-C6-O6
2	DB	2	GLA	O5-C5-C6-O6
2	EB	2	GLA	O5-C5-C6-O6
2	GB	2	GLA	O5-C5-C6-O6
2	HB	2	GLA	O5-C5-C6-O6
2	JB	2	GLA	O5-C5-C6-O6
2	KB	2	GLA	O5-C5-C6-O6
2	MB	2	GLA	O5-C5-C6-O6
2	NB	2	GLA	O5-C5-C6-O6
2	PB	2	GLA	O5-C5-C6-O6
2	QB	2	GLA	O5-C5-C6-O6
2	SB	2	GLA	O5-C5-C6-O6
2	TB	2	GLA	O5-C5-C6-O6
2	VB	2	GLA	O5-C5-C6-O6
2	WB	2	GLA	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
2	YB	2	GLA	O5-C5-C6-O6
2	ZB	2	GLA	O5-C5-C6-O6
2	9	3	SIA	O1A-C1-C2-O6
2	AA	3	SIA	O1A-C1-C2-O6
2	CA	3	SIA	O1A-C1-C2-O6
2	DA	3	SIA	O1A-C1-C2-O6
2	FA	3	SIA	O1A-C1-C2-O6
2	GA	3	SIA	O1A-C1-C2-O6
2	IA	3	SIA	O1A-C1-C2-O6
2	JA	3	SIA	O1A-C1-C2-O6
2	LA	3	SIA	O1A-C1-C2-O6
2	MA	3	SIA	O1A-C1-C2-O6
2	OA	3	SIA	O1A-C1-C2-O6
2	PA	3	SIA	O1A-C1-C2-O6
2	RA	3	SIA	O1A-C1-C2-O6
2	SA	3	SIA	O1A-C1-C2-O6
2	UA	3	SIA	O1A-C1-C2-O6
2	VA	3	SIA	O1A-C1-C2-O6
2	XA	3	SIA	O1A-C1-C2-O6
2	YA	3	SIA	O1A-C1-C2-O6
2	aA	3	SIA	O1A-C1-C2-O6
2	bA	3	SIA	O1A-C1-C2-O6
2	dA	3	SIA	O1A-C1-C2-O6
2	eA	3	SIA	O1A-C1-C2-O6
2	gA	3	SIA	O1A-C1-C2-O6
2	hA	3	SIA	O1A-C1-C2-O6
2	jA	3	SIA	O1A-C1-C2-O6
2	kA	3	SIA	O1A-C1-C2-O6
2	mA	3	SIA	O1A-C1-C2-O6
2	nA	3	SIA	O1A-C1-C2-O6
2	pA	3	SIA	O1A-C1-C2-O6
2	qA	3	SIA	O1A-C1-C2-O6
2	sA	3	SIA	O1A-C1-C2-O6
2	tA	3	SIA	O1A-C1-C2-O6
2	vA	3	SIA	O1A-C1-C2-O6
2	wA	3	SIA	O1A-C1-C2-O6
2	yA	3	SIA	O1A-C1-C2-O6
2	zA	3	SIA	O1A-C1-C2-O6
2	1A	3	SIA	O1A-C1-C2-O6
2	2A	3	SIA	O1A-C1-C2-O6
2	4A	3	SIA	O1A-C1-C2-O6
2	5A	3	SIA	O1A-C1-C2-O6

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Mol	Chain	Res	Type	Atoms
2	7A	3	SIA	O1A-C1-C2-O6
2	8A	3	SIA	O1A-C1-C2-O6
2	AB	3	SIA	O1A-C1-C2-O6
2	BB	3	SIA	O1A-C1-C2-O6
2	DB	3	SIA	O1A-C1-C2-O6
2	EB	3	SIA	O1A-C1-C2-O6
2	GB	3	SIA	O1A-C1-C2-O6
2	HB	3	SIA	O1A-C1-C2-O6
2	JB	3	SIA	O1A-C1-C2-O6
2	KB	3	SIA	O1A-C1-C2-O6
2	MB	3	SIA	O1A-C1-C2-O6
2	NB	3	SIA	O1A-C1-C2-O6
2	PB	3	SIA	O1A-C1-C2-O6
2	QB	3	SIA	O1A-C1-C2-O6
2	SB	3	SIA	O1A-C1-C2-O6
2	TB	3	SIA	O1A-C1-C2-O6
2	VB	3	SIA	O1A-C1-C2-O6
2	WB	3	SIA	O1A-C1-C2-O6
2	YB	3	SIA	O1A-C1-C2-O6
2	ZB	3	SIA	O1A-C1-C2-O6
2	9	3	SIA	C5-C6-C7-O7
2	AA	3	SIA	C5-C6-C7-O7
2	CA	3	SIA	C5-C6-C7-O7
2	DA	3	SIA	C5-C6-C7-O7
2	FA	3	SIA	C5-C6-C7-O7
2	GA	3	SIA	C5-C6-C7-O7
2	IA	3	SIA	C5-C6-C7-O7
2	JA	3	SIA	C5-C6-C7-O7
2	LA	3	SIA	C5-C6-C7-O7
2	MA	3	SIA	C5-C6-C7-O7
2	OA	3	SIA	C5-C6-C7-O7
2	PA	3	SIA	C5-C6-C7-O7
2	RA	3	SIA	C5-C6-C7-O7
2	SA	3	SIA	C5-C6-C7-O7
2	UA	3	SIA	C5-C6-C7-O7
2	VA	3	SIA	C5-C6-C7-O7
2	XA	3	SIA	C5-C6-C7-O7
2	YA	3	SIA	C5-C6-C7-O7
2	aA	3	SIA	C5-C6-C7-O7
2	bA	3	SIA	C5-C6-C7-O7
2	dA	3	SIA	C5-C6-C7-O7
2	eA	3	SIA	C5-C6-C7-O7

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Mol	Chain	Res	Type	Atoms
2	gA	3	SIA	C5-C6-C7-O7
2	hA	3	SIA	C5-C6-C7-O7
2	jA	3	SIA	C5-C6-C7-O7
2	kA	3	SIA	C5-C6-C7-O7
2	mA	3	SIA	C5-C6-C7-O7
2	nA	3	SIA	C5-C6-C7-O7
2	pA	3	SIA	C5-C6-C7-O7
2	qA	3	SIA	C5-C6-C7-O7
2	sA	3	SIA	C5-C6-C7-O7
2	tA	3	SIA	C5-C6-C7-O7
2	vA	3	SIA	C5-C6-C7-O7
2	wA	3	SIA	C5-C6-C7-O7
2	yA	3	SIA	C5-C6-C7-O7
2	zA	3	SIA	C5-C6-C7-O7
2	1A	3	SIA	C5-C6-C7-O7
2	2A	3	SIA	C5-C6-C7-O7
2	4A	3	SIA	C5-C6-C7-O7
2	5A	3	SIA	C5-C6-C7-O7
2	7A	3	SIA	C5-C6-C7-O7
2	8A	3	SIA	C5-C6-C7-O7
2	AB	3	SIA	C5-C6-C7-O7
2	BB	3	SIA	C5-C6-C7-O7
2	DB	3	SIA	C5-C6-C7-O7
2	EB	3	SIA	C5-C6-C7-O7
2	GB	3	SIA	C5-C6-C7-O7
2	HB	3	SIA	C5-C6-C7-O7
2	JB	3	SIA	C5-C6-C7-O7
2	KB	3	SIA	C5-C6-C7-O7
2	MB	3	SIA	C5-C6-C7-O7
2	NB	3	SIA	C5-C6-C7-O7
2	PB	3	SIA	C5-C6-C7-O7
2	QB	3	SIA	C5-C6-C7-O7
2	SB	3	SIA	C5-C6-C7-O7
2	TB	3	SIA	C5-C6-C7-O7
2	VB	3	SIA	C5-C6-C7-O7
2	WB	3	SIA	C5-C6-C7-O7
2	YB	3	SIA	C5-C6-C7-O7
2	ZB	3	SIA	C5-C6-C7-O7
2	9	3	SIA	C4-C5-N5-C10
2	AA	3	SIA	C4-C5-N5-C10
2	CA	3	SIA	C4-C5-N5-C10
2	DA	3	SIA	C4-C5-N5-C10

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Mol	Chain	Res	Type	Atoms
2	FA	3	SIA	C4-C5-N5-C10
2	GA	3	SIA	C4-C5-N5-C10
2	IA	3	SIA	C4-C5-N5-C10
2	JA	3	SIA	C4-C5-N5-C10
2	LA	3	SIA	C4-C5-N5-C10
2	MA	3	SIA	C4-C5-N5-C10
2	OA	3	SIA	C4-C5-N5-C10
2	PA	3	SIA	C4-C5-N5-C10
2	RA	3	SIA	C4-C5-N5-C10
2	SA	3	SIA	C4-C5-N5-C10
2	UA	3	SIA	C4-C5-N5-C10
2	VA	3	SIA	C4-C5-N5-C10
2	XA	3	SIA	C4-C5-N5-C10
2	YA	3	SIA	C4-C5-N5-C10
2	aA	3	SIA	C4-C5-N5-C10
2	bA	3	SIA	C4-C5-N5-C10
2	dA	3	SIA	C4-C5-N5-C10
2	eA	3	SIA	C4-C5-N5-C10
2	gA	3	SIA	C4-C5-N5-C10
2	hA	3	SIA	C4-C5-N5-C10
2	jA	3	SIA	C4-C5-N5-C10
2	kA	3	SIA	C4-C5-N5-C10
2	mA	3	SIA	C4-C5-N5-C10
2	nA	3	SIA	C4-C5-N5-C10
2	pA	3	SIA	C4-C5-N5-C10
2	qA	3	SIA	C4-C5-N5-C10
2	sA	3	SIA	C4-C5-N5-C10
2	tA	3	SIA	C4-C5-N5-C10
2	vA	3	SIA	C4-C5-N5-C10
2	wA	3	SIA	C4-C5-N5-C10
2	yA	3	SIA	C4-C5-N5-C10
2	zA	3	SIA	C4-C5-N5-C10
2	1A	3	SIA	C4-C5-N5-C10
2	2A	3	SIA	C4-C5-N5-C10
2	4A	3	SIA	C4-C5-N5-C10
2	5A	3	SIA	C4-C5-N5-C10
2	7A	3	SIA	C4-C5-N5-C10
2	8A	3	SIA	C4-C5-N5-C10
2	AB	3	SIA	C4-C5-N5-C10
2	BB	3	SIA	C4-C5-N5-C10
2	DB	3	SIA	C4-C5-N5-C10
2	EB	3	SIA	C4-C5-N5-C10

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Mol	Chain	Res	Type	Atoms
2	GB	3	SIA	C4-C5-N5-C10
2	HB	3	SIA	C4-C5-N5-C10
2	JB	3	SIA	C4-C5-N5-C10
2	KB	3	SIA	C4-C5-N5-C10
2	MB	3	SIA	C4-C5-N5-C10
2	NB	3	SIA	C4-C5-N5-C10
2	PB	3	SIA	C4-C5-N5-C10
2	QB	3	SIA	C4-C5-N5-C10
2	SB	3	SIA	C4-C5-N5-C10
2	TB	3	SIA	C4-C5-N5-C10
2	VB	3	SIA	C4-C5-N5-C10
2	WB	3	SIA	C4-C5-N5-C10
2	YB	3	SIA	C4-C5-N5-C10
2	ZB	3	SIA	C4-C5-N5-C10

There are no ring outliers.

180 monomers are involved in 240 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	CA	1	NAG	2	0
2	PA	3	SIA	2	0
2	HB	3	SIA	2	0
2	CA	3	SIA	2	0
2	vA	2	GLA	3	0
2	7A	3	SIA	2	0
2	PA	2	GLA	3	0
2	LA	3	SIA	2	0
2	eA	2	GLA	3	0
2	VB	3	SIA	2	0
2	DB	2	GLA	3	0
2	9	3	SIA	2	0
2	yA	1	NAG	2	0
2	yA	2	GLA	3	0
2	DB	3	SIA	2	0
2	mA	1	NAG	2	0
2	hA	1	NAG	2	0
2	XA	1	NAG	2	0
2	EB	2	GLA	3	0
2	WB	1	NAG	2	0
2	NB	2	GLA	3	0
2	mA	2	GLA	3	0
2	VB	1	NAG	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	jA	1	NAG	2	0
2	zA	3	SIA	2	0
2	OA	3	SIA	2	0
2	5A	2	GLA	3	0
2	2A	2	GLA	3	0
2	ZB	2	GLA	3	0
2	ZB	1	NAG	2	0
2	SB	1	NAG	2	0
2	bA	3	SIA	2	0
2	ZB	3	SIA	2	0
2	gA	2	GLA	3	0
2	SB	2	GLA	3	0
2	1A	3	SIA	2	0
2	YA	3	SIA	2	0
2	TB	3	SIA	2	0
2	JB	1	NAG	2	0
2	QB	2	GLA	3	0
2	nA	3	SIA	2	0
2	OA	1	NAG	2	0
2	MB	3	SIA	2	0
2	pA	1	NAG	2	0
2	8A	2	GLA	3	0
2	GA	1	NAG	2	0
2	WB	3	SIA	2	0
2	zA	1	NAG	2	0
2	GA	3	SIA	2	0
2	8A	3	SIA	2	0
2	jA	3	SIA	2	0
2	9	1	NAG	2	0
2	MB	2	GLA	3	0
2	PB	2	GLA	3	0
2	VA	2	GLA	3	0
2	BB	3	SIA	2	0
2	GB	2	GLA	3	0
2	dA	1	NAG	2	0
2	UA	2	GLA	3	0
2	kA	1	NAG	2	0
2	1A	2	GLA	3	0
2	JB	3	SIA	2	0
2	NB	3	SIA	2	0
2	2A	1	NAG	2	0
2	YB	3	SIA	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	wA	2	GLA	3	0
2	1A	1	NAG	2	0
2	EB	3	SIA	2	0
2	JA	1	NAG	2	0
2	AB	1	NAG	2	0
2	HB	2	GLA	3	0
2	CA	2	GLA	3	0
2	SA	1	NAG	2	0
2	eA	3	SIA	2	0
2	qA	1	NAG	2	0
2	7A	2	GLA	3	0
2	PA	1	NAG	2	0
2	VB	2	GLA	3	0
2	FA	3	SIA	2	0
2	MA	1	NAG	2	0
2	tA	2	GLA	3	0
2	AA	3	SIA	2	0
2	kA	3	SIA	2	0
2	QB	3	SIA	2	0
2	RA	1	NAG	2	0
2	vA	1	NAG	2	0
2	XA	3	SIA	2	0
2	dA	3	SIA	2	0
2	7A	1	NAG	2	0
2	zA	2	GLA	3	0
2	aA	1	NAG	2	0
2	OA	2	GLA	3	0
2	MB	1	NAG	2	0
2	FA	1	NAG	2	0
2	LA	2	GLA	3	0
2	AA	1	NAG	2	0
2	4A	3	SIA	2	0
2	KB	1	NAG	2	0
2	eA	1	NAG	2	0
2	VA	3	SIA	2	0
2	tA	1	NAG	2	0
2	bA	2	GLA	3	0
2	DB	1	NAG	2	0
2	RA	2	GLA	3	0
2	5A	3	SIA	2	0
2	DA	3	SIA	2	0
2	IA	2	GLA	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	TB	1	NAG	2	0
2	YA	2	GLA	3	0
2	JA	2	GLA	3	0
2	wA	3	SIA	2	0
2	XA	2	GLA	3	0
2	JA	3	SIA	2	0
2	sA	1	NAG	2	0
2	AB	3	SIA	2	0
2	WB	2	GLA	3	0
2	vA	3	SIA	2	0
2	4A	1	NAG	2	0
2	GA	2	GLA	3	0
2	qA	3	SIA	2	0
2	LA	1	NAG	2	0
2	jA	2	GLA	3	0
2	aA	3	SIA	2	0
2	GB	1	NAG	2	0
2	qA	2	GLA	3	0
2	DA	1	NAG	2	0
2	MA	3	SIA	2	0
2	BB	2	GLA	3	0
2	yA	3	SIA	2	0
2	MA	2	GLA	3	0
2	hA	2	GLA	3	0
2	JB	2	GLA	3	0
2	YB	2	GLA	3	0
2	pA	3	SIA	2	0
2	mA	3	SIA	2	0
2	nA	2	GLA	3	0
2	VA	1	NAG	2	0
2	pA	2	GLA	3	0
2	2A	3	SIA	2	0
2	aA	2	GLA	3	0
2	tA	3	SIA	2	0
2	BB	1	NAG	2	0
2	gA	3	SIA	2	0
2	SB	3	SIA	2	0
2	KB	2	GLA	3	0
2	QB	1	NAG	2	0
2	AA	2	GLA	3	0
2	EB	1	NAG	2	0
2	HB	1	NAG	2	0

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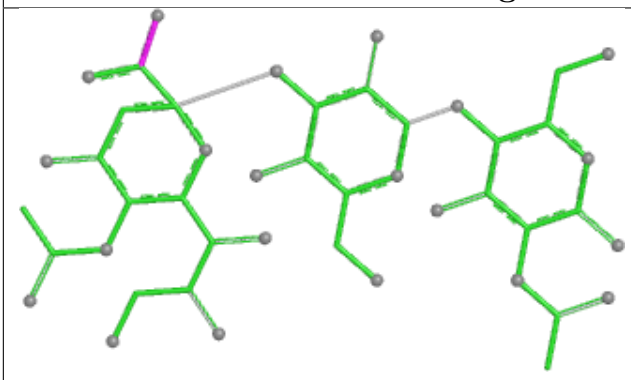
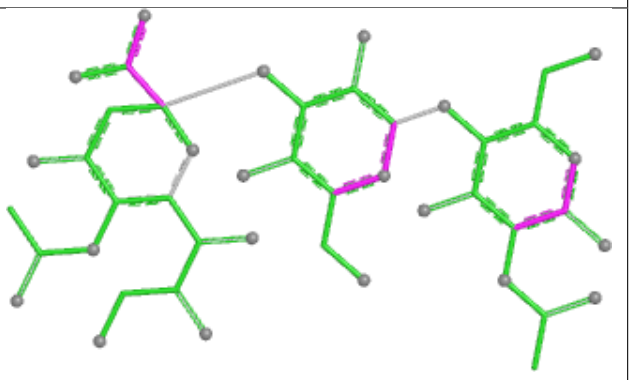
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	YB	1	NAG	2	0
2	9	2	GLA	3	0
2	SA	3	SIA	2	0
2	sA	3	SIA	2	0
2	5A	1	NAG	2	0
2	NB	1	NAG	2	0
2	SA	2	GLA	3	0
2	sA	2	GLA	3	0
2	dA	2	GLA	3	0
2	IA	1	NAG	2	0
2	hA	3	SIA	2	0
2	FA	2	GLA	3	0
2	4A	2	GLA	3	0
2	gA	1	NAG	2	0
2	RA	3	SIA	2	0
2	AB	2	GLA	3	0
2	PB	3	SIA	2	0
2	KB	3	SIA	2	0
2	kA	2	GLA	3	0
2	GB	3	SIA	2	0
2	IA	3	SIA	2	0
2	DA	2	GLA	3	0
2	bA	1	NAG	2	0
2	UA	3	SIA	2	0
2	TB	2	GLA	3	0
2	8A	1	NAG	2	0
2	PB	1	NAG	2	0
2	wA	1	NAG	2	0
2	YA	1	NAG	2	0
2	nA	1	NAG	2	0
2	UA	1	NAG	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

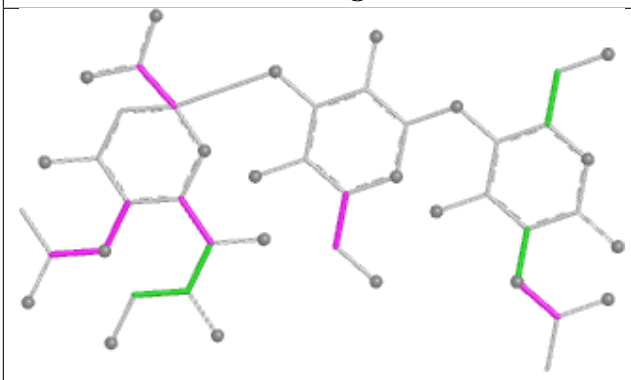
Oligosaccharide Chain 9



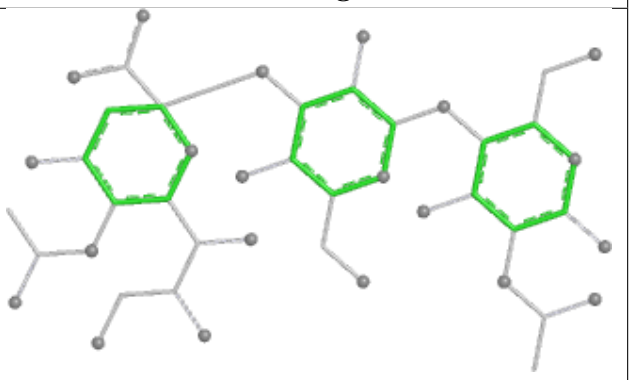
Bond lengths



Bond angles

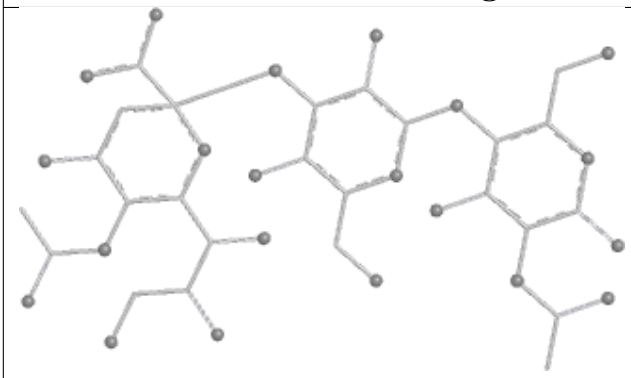


Torsions

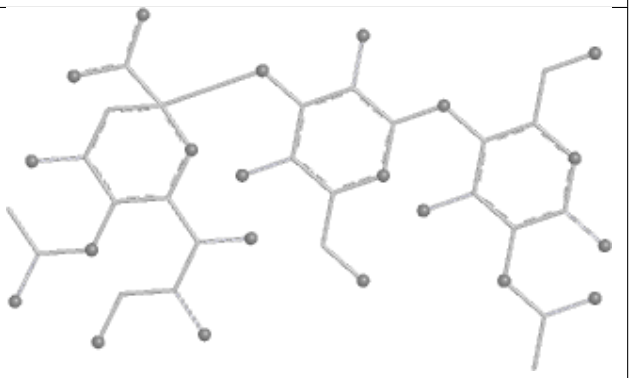


Rings

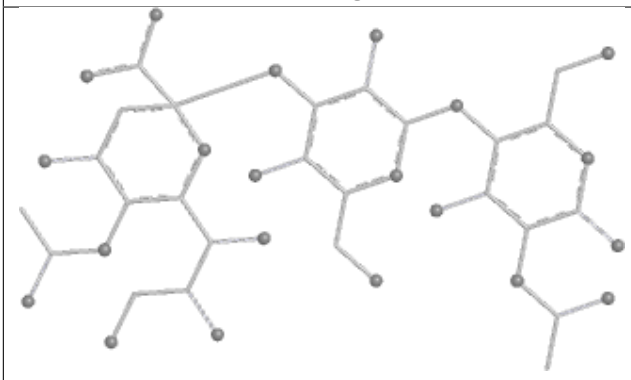
Oligosaccharide Chain AA



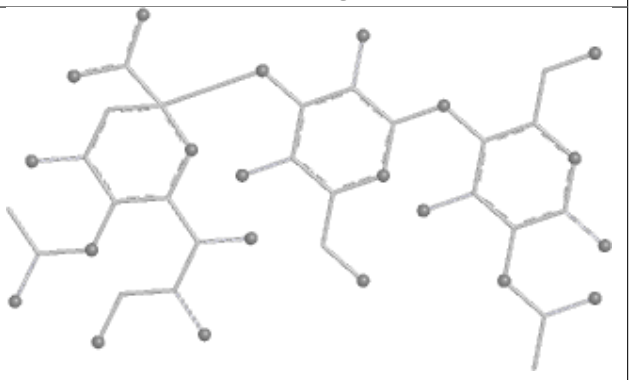
Bond lengths



Bond angles

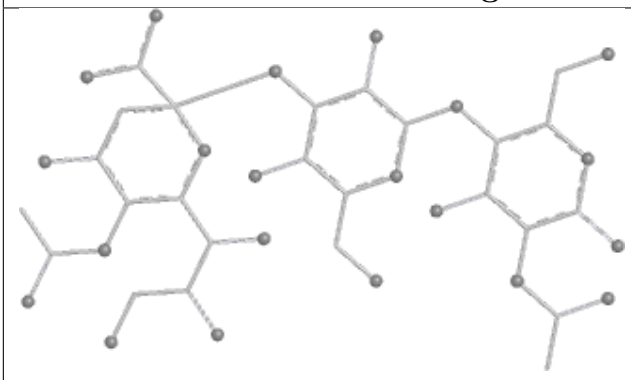


Torsions

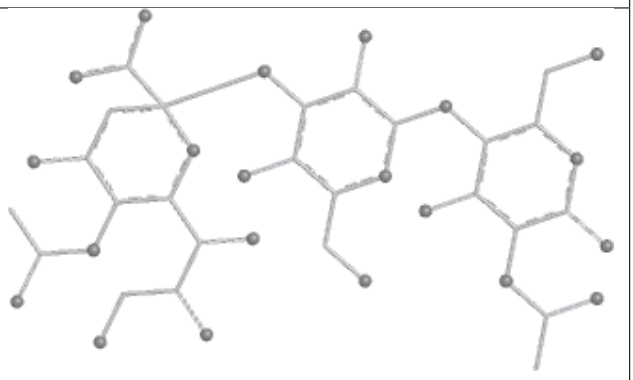


Rings

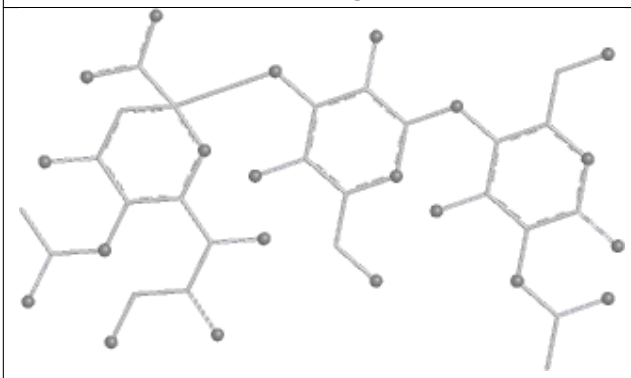
Oligosaccharide Chain CA



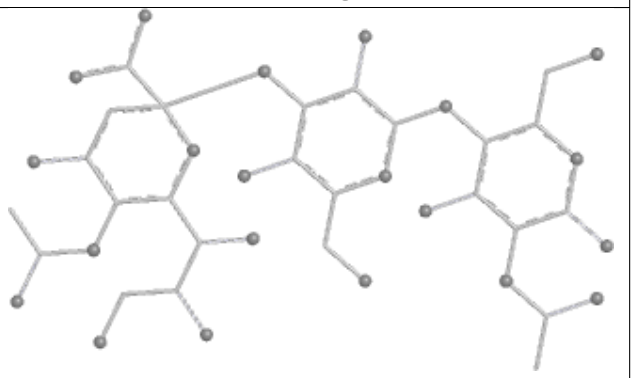
Bond lengths



Bond angles

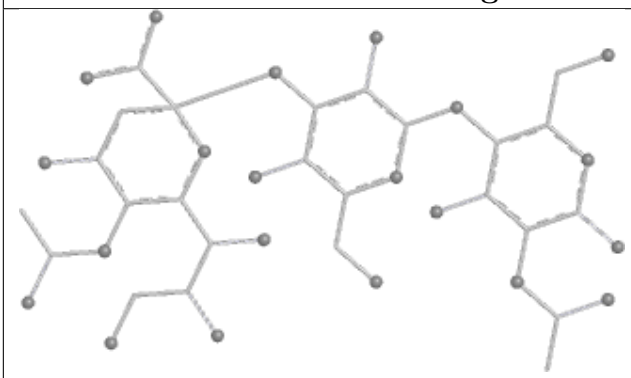


Torsions

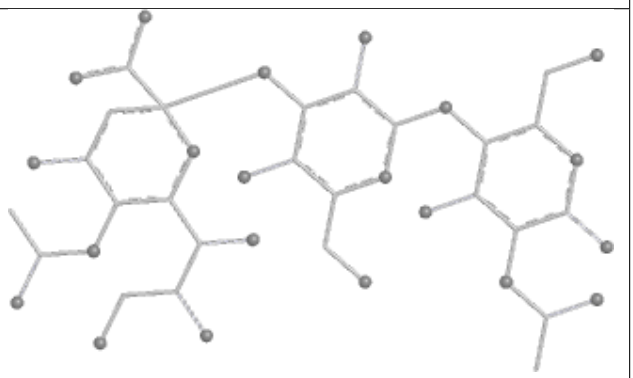


Rings

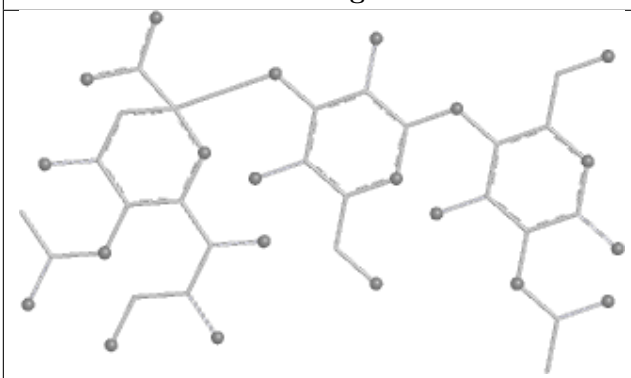
Oligosaccharide Chain DA



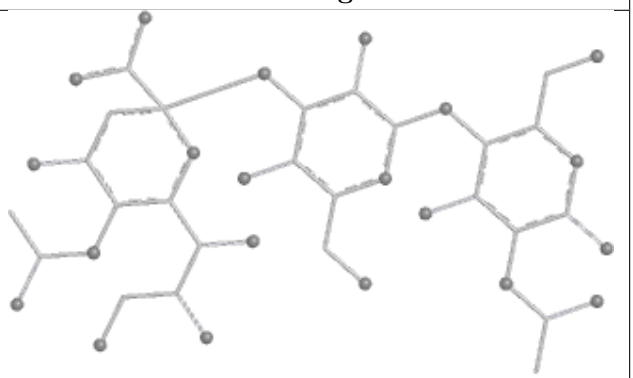
Bond lengths



Bond angles

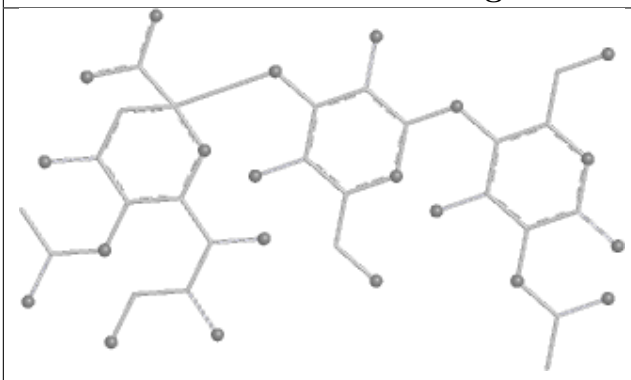


Torsions

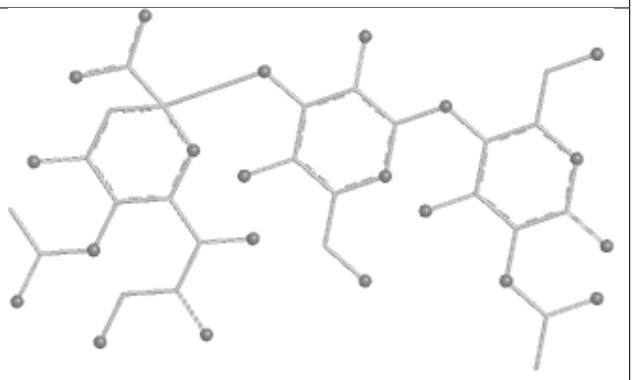


Rings

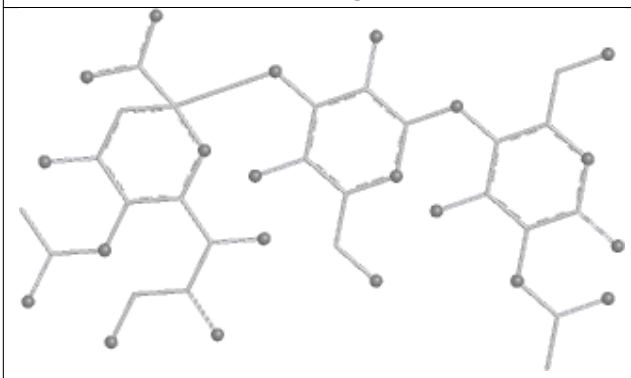
Oligosaccharide Chain FA



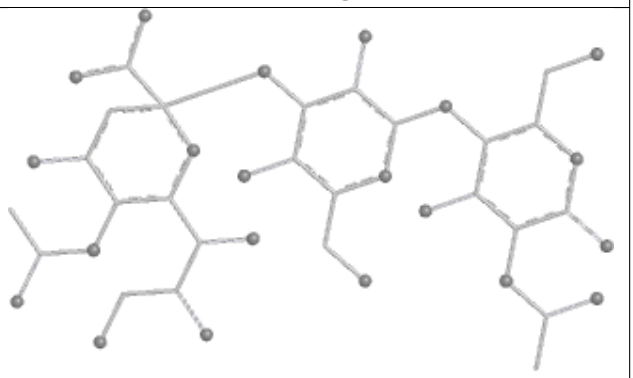
Bond lengths



Bond angles

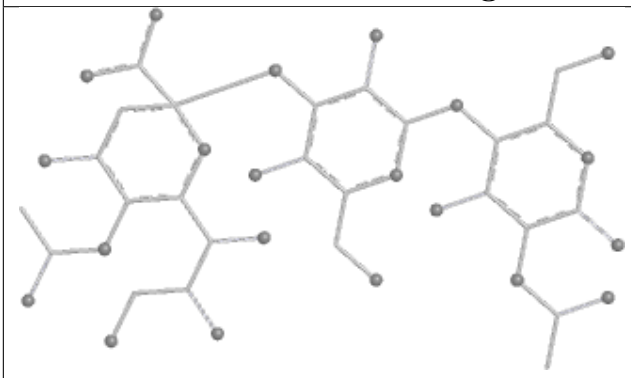


Torsions

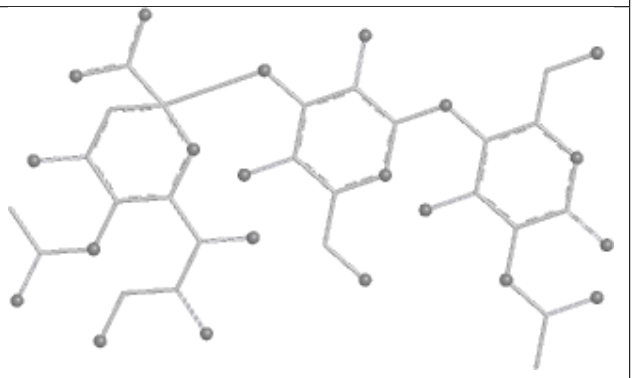


Rings

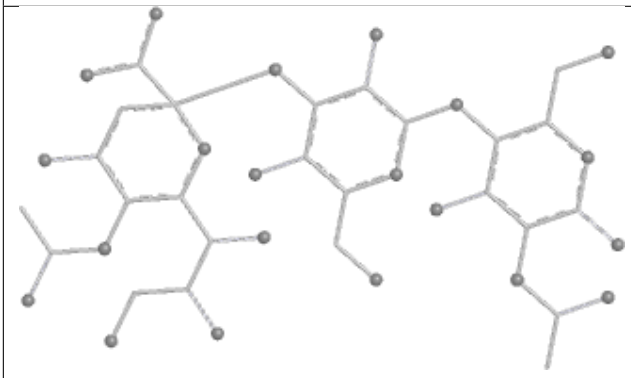
Oligosaccharide Chain GA



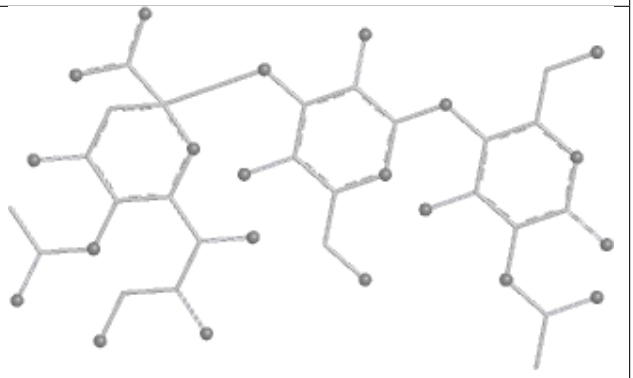
Bond lengths



Bond angles

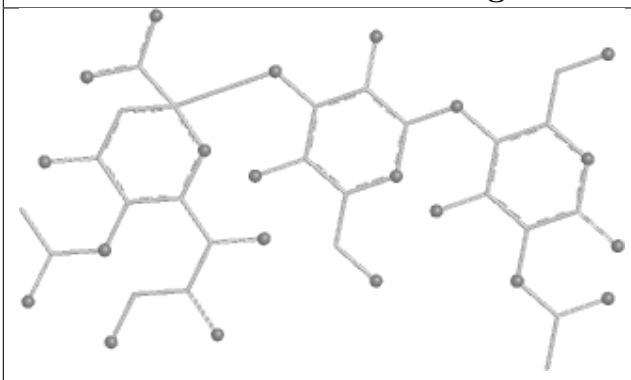


Torsions



Rings

Oligosaccharide Chain IA



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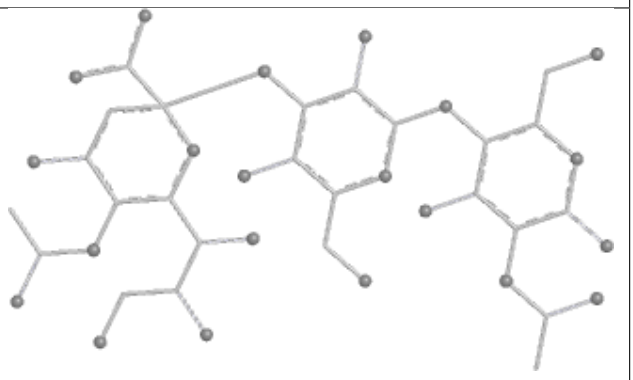
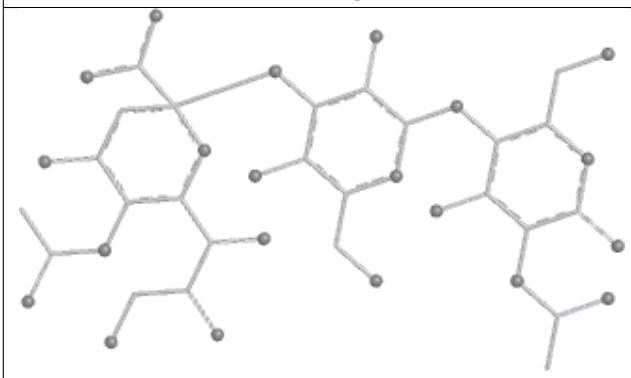
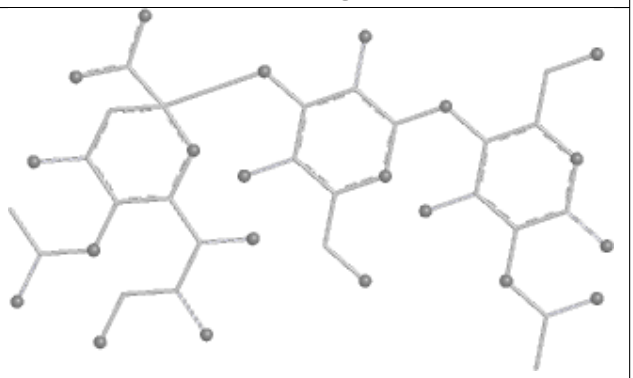


Bond angles

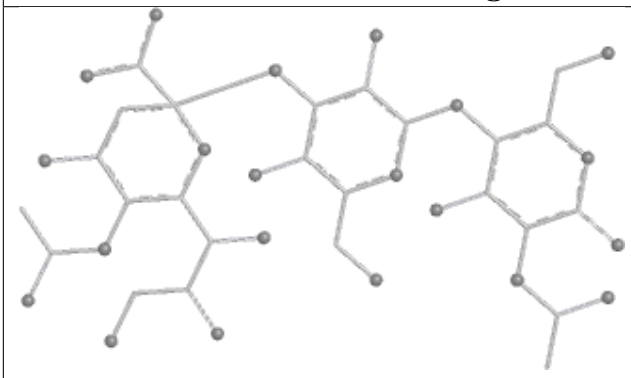


Torsions

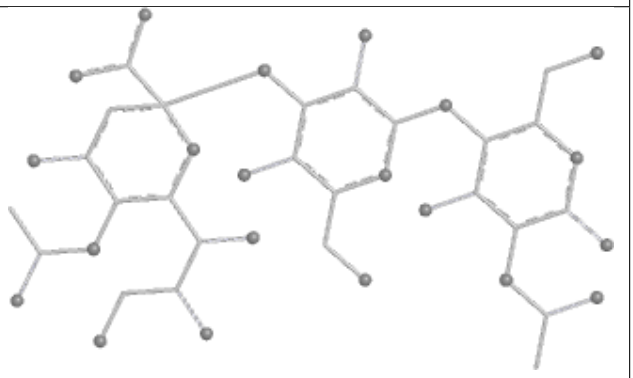


Rings

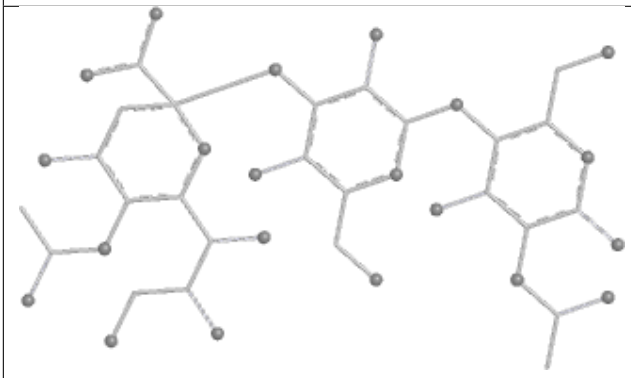
Oligosaccharide Chain JA



Bond lengths



Bond angles



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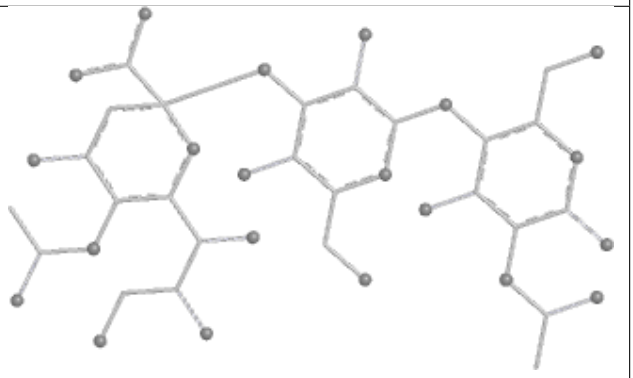
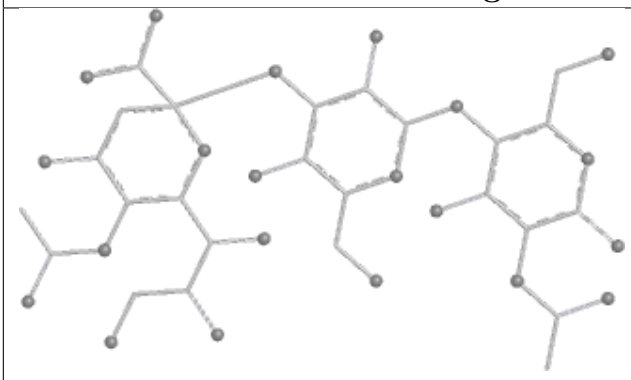
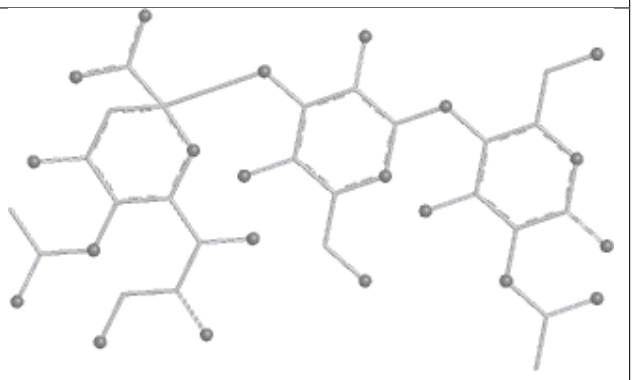


Rings

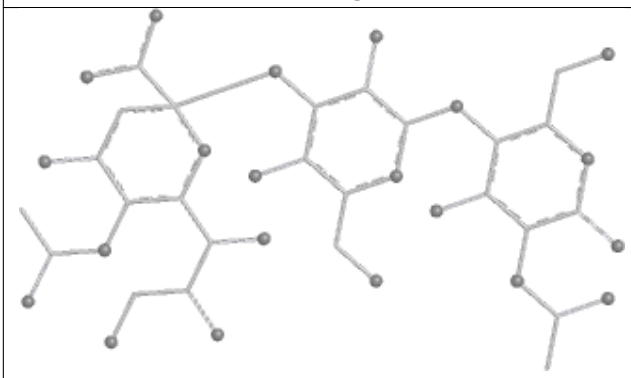
Oligosaccharide Chain LA



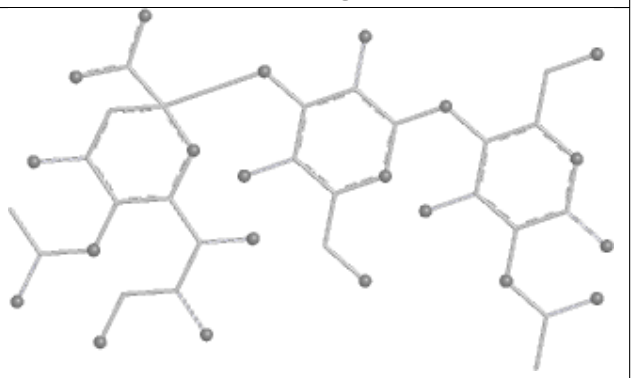
Bond lengths



Bond angles

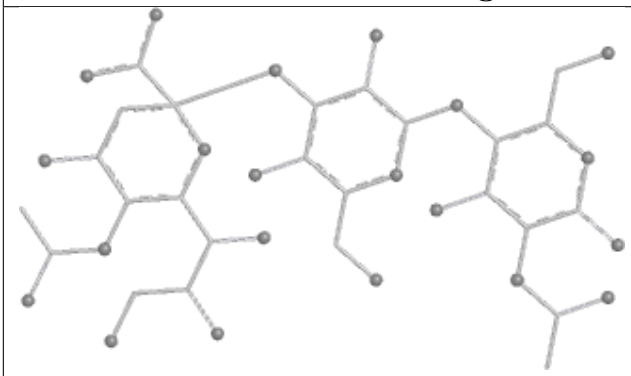


Torsions



Rings

Oligosaccharide Chain MA



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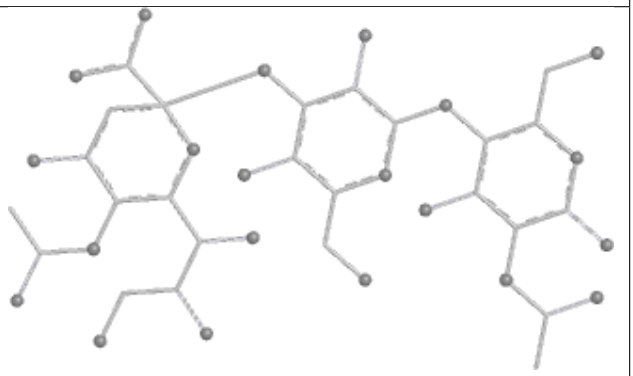
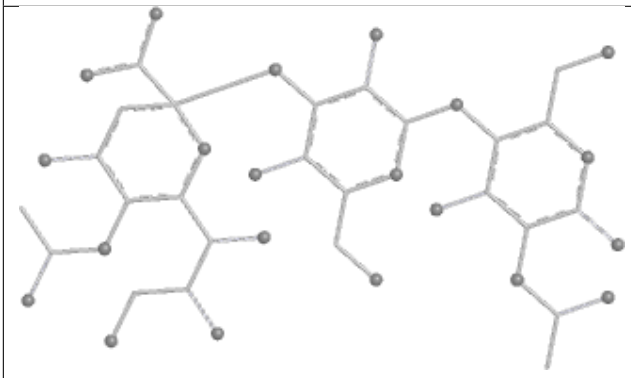


Bond angles



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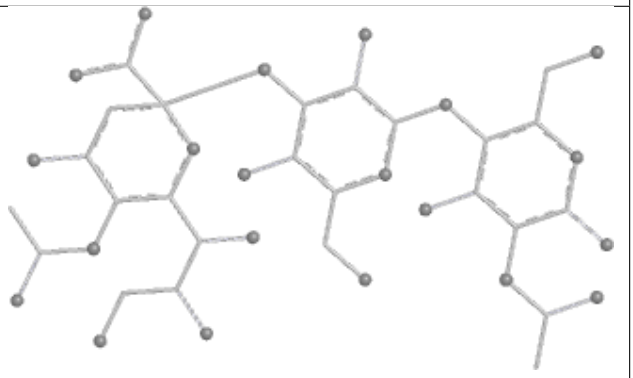
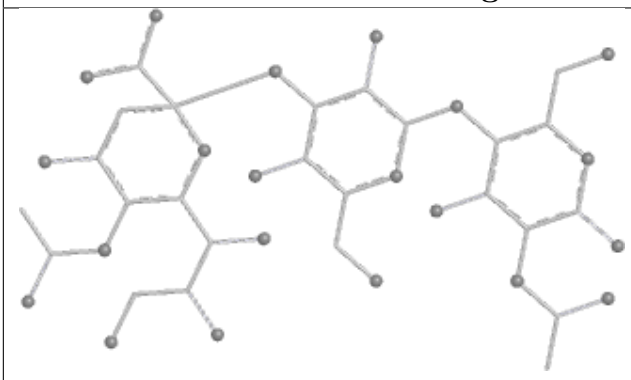


Rings

Oligosaccharide Chain OA



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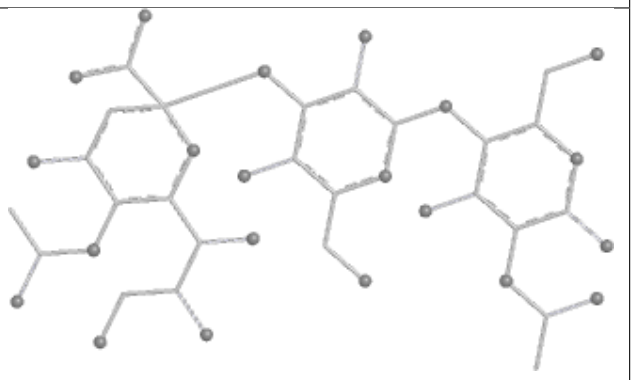
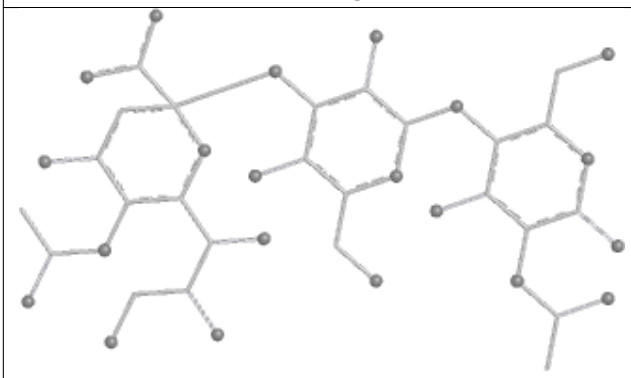
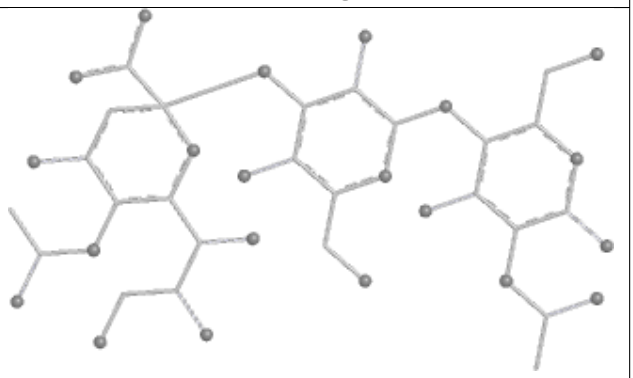


Bond angles

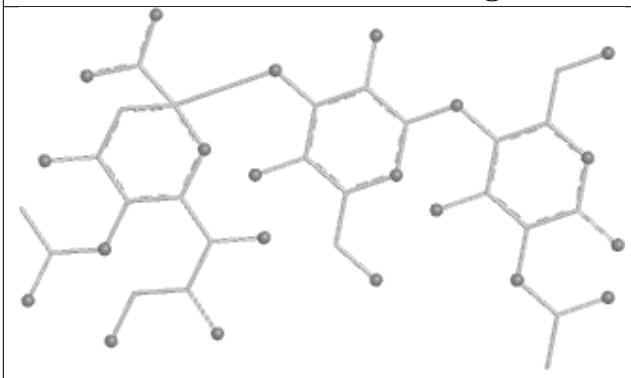


Torsions



Rings

Oligosaccharide Chain PA



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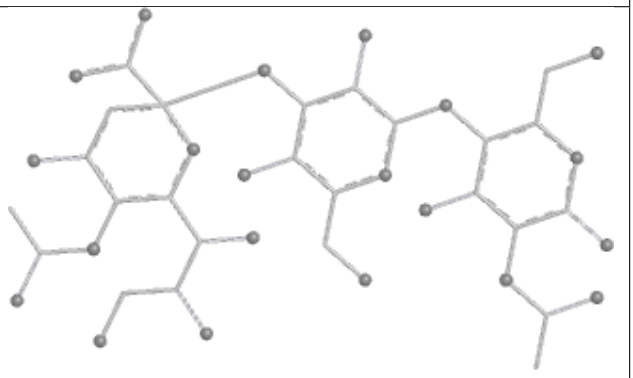
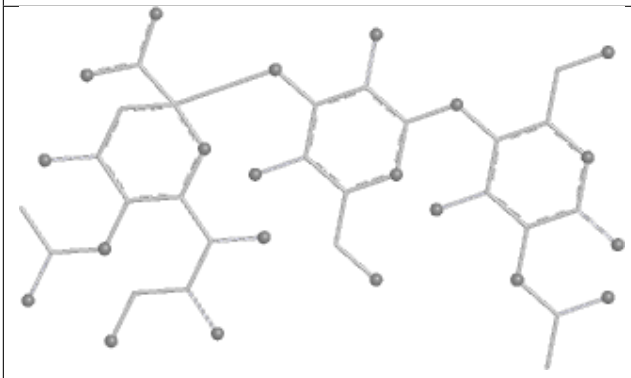


Bond angles



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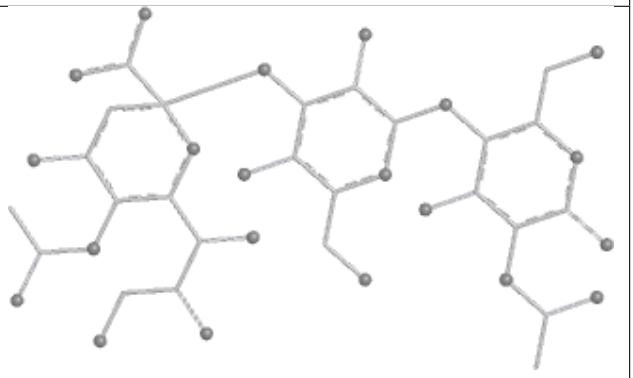
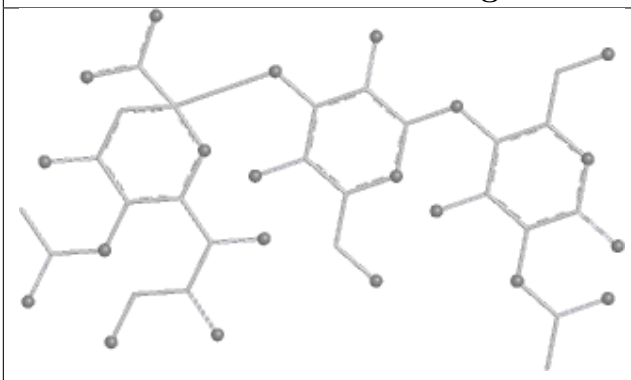


Rings

Oligosaccharide Chain RA



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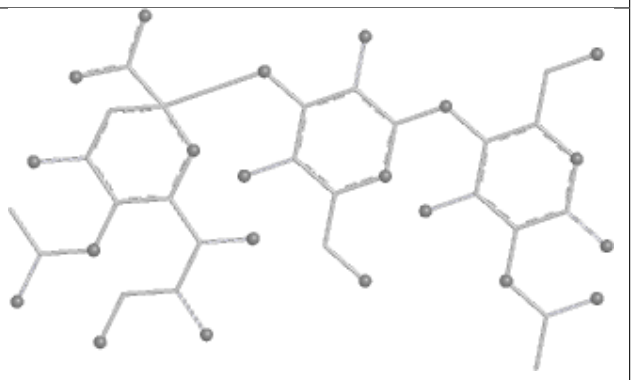
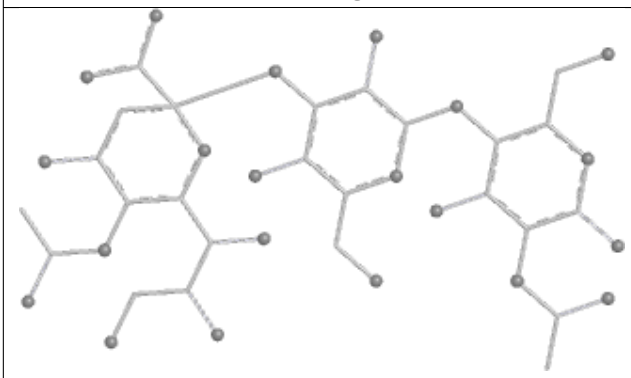
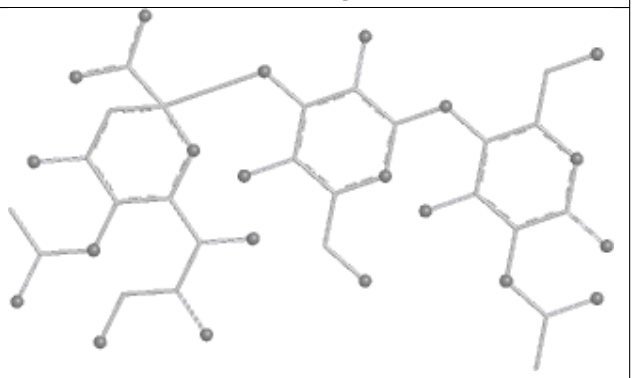


Bond angles

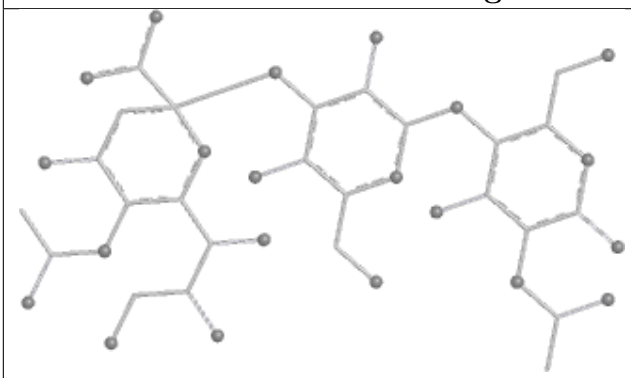


Torsions

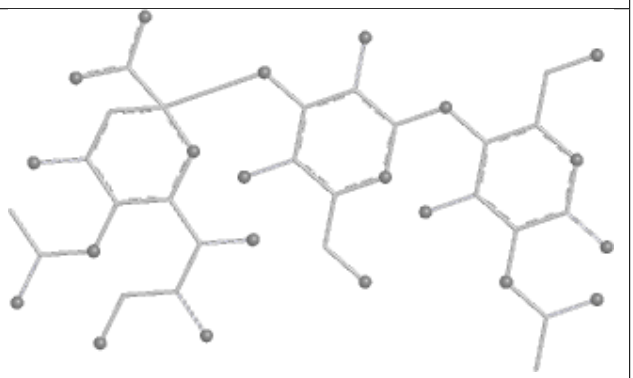


Rings

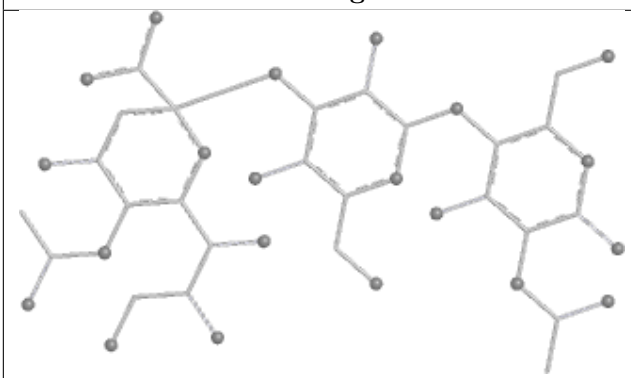
Oligosaccharide Chain SA



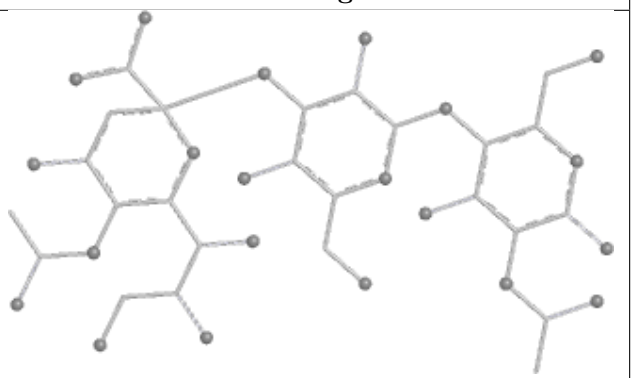
Bond lengths



Bond angles

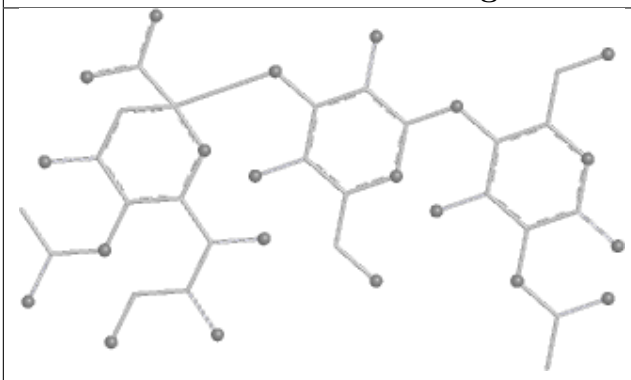


Torsions



Rings

Oligosaccharide Chain UA



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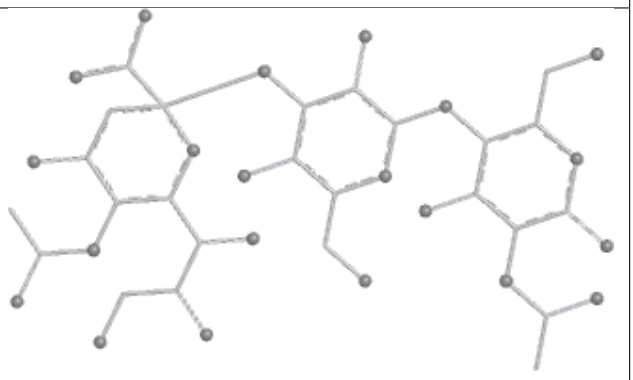
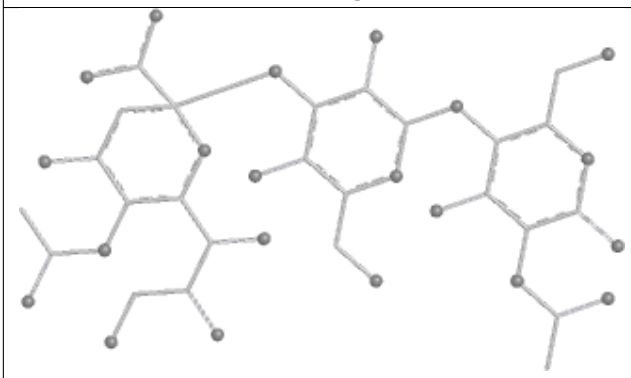


Bond angles



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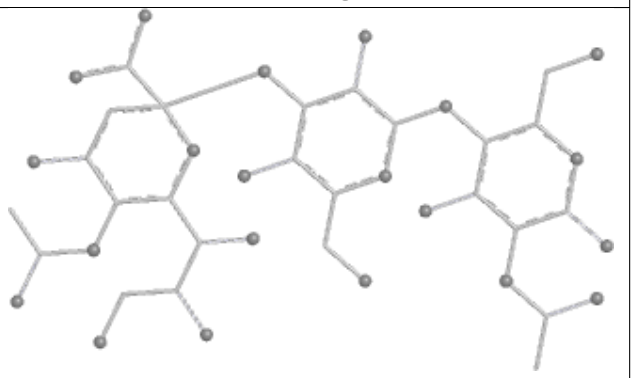
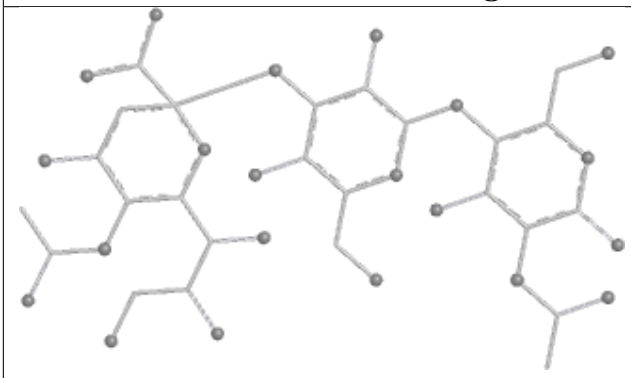
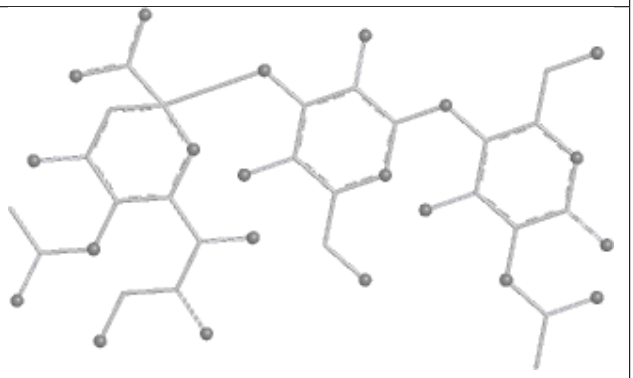


Rings

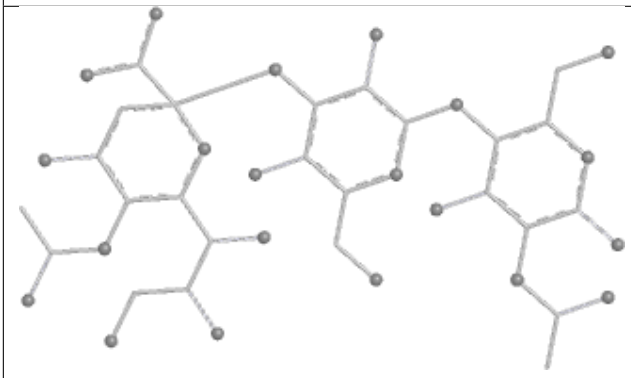
Oligosaccharide Chain VA



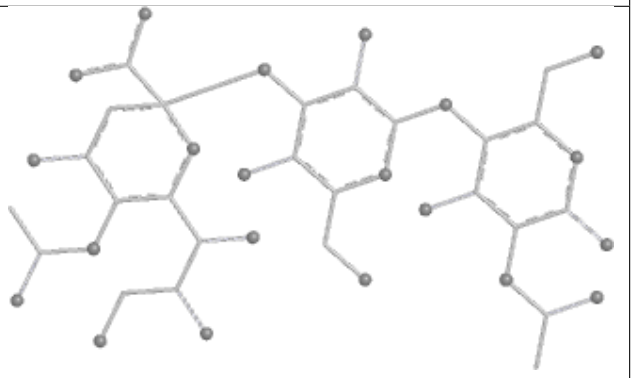
Bond lengths



Bond angles

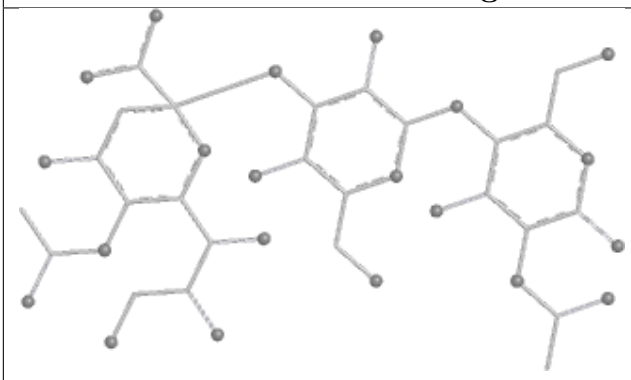


Torsions

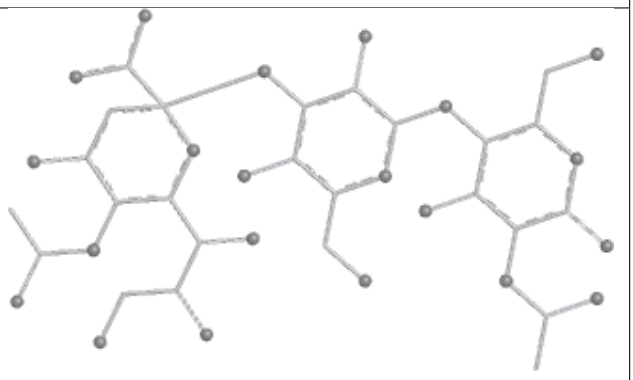


Rings

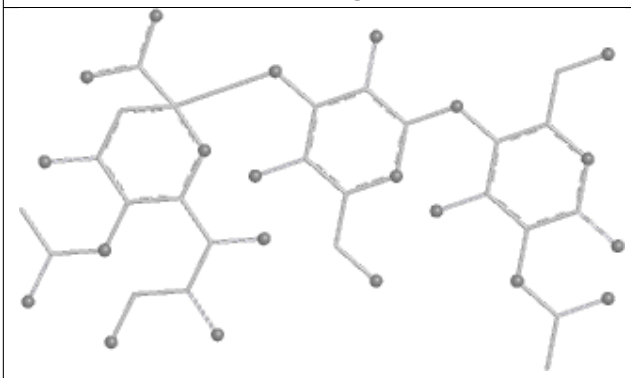
Oligosaccharide Chain XA



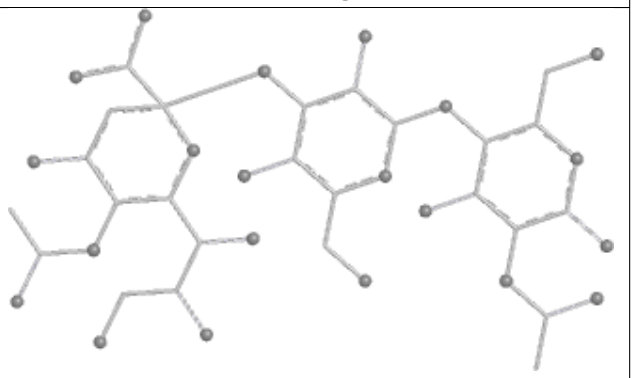
Bond lengths



Bond angles

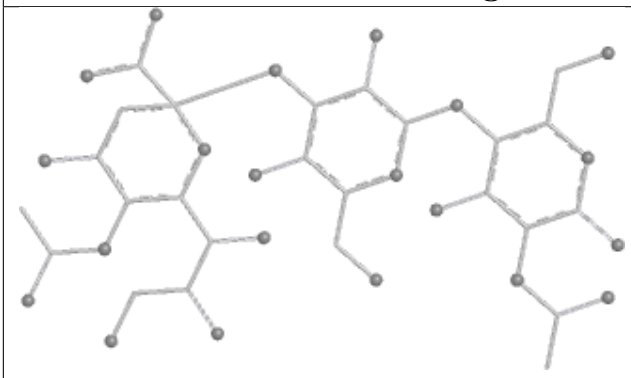


Torsions

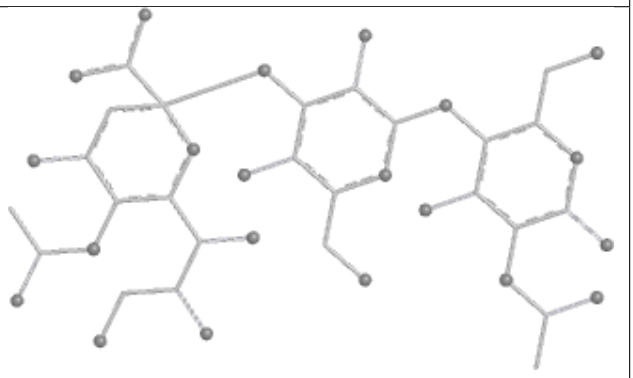


Rings

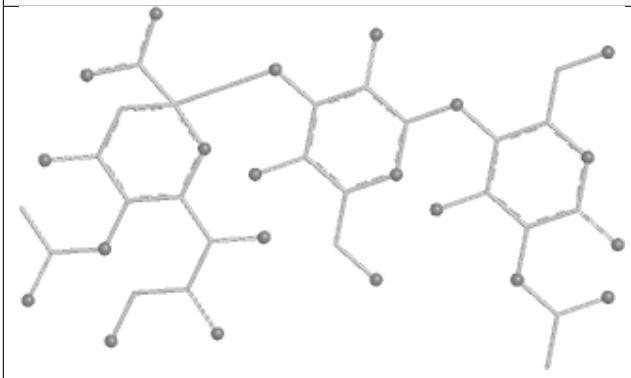
Oligosaccharide Chain YA



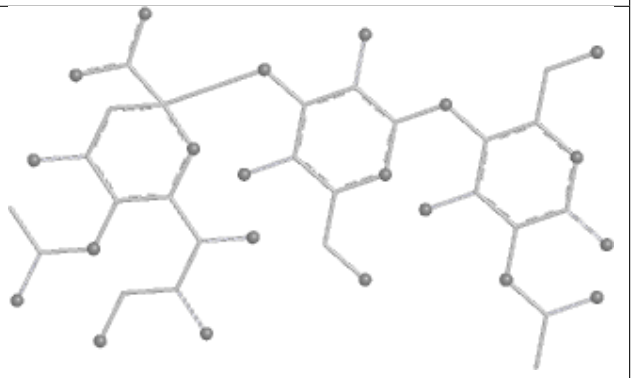
Bond lengths



Bond angles

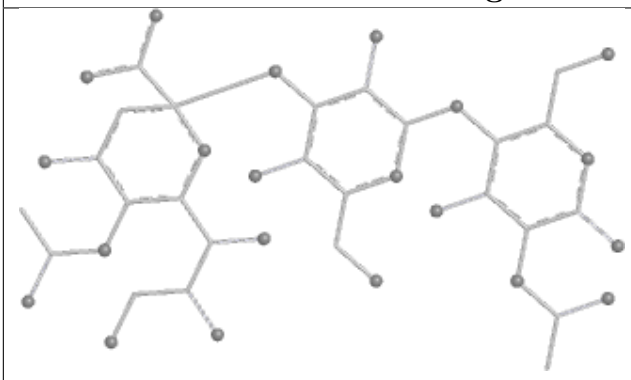


Torsions

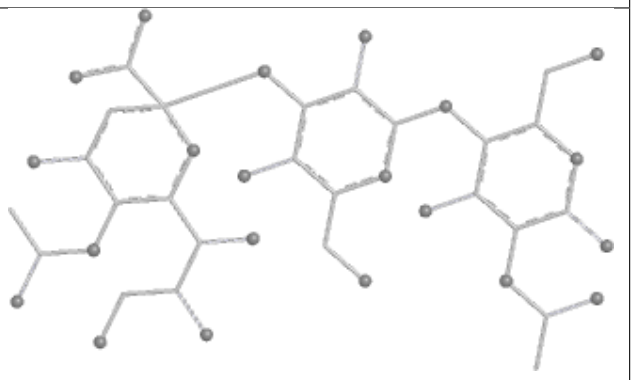


Rings

Oligosaccharide Chain aA



Bond lengths



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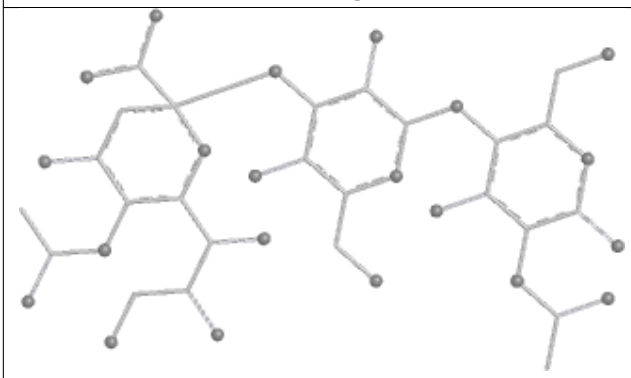

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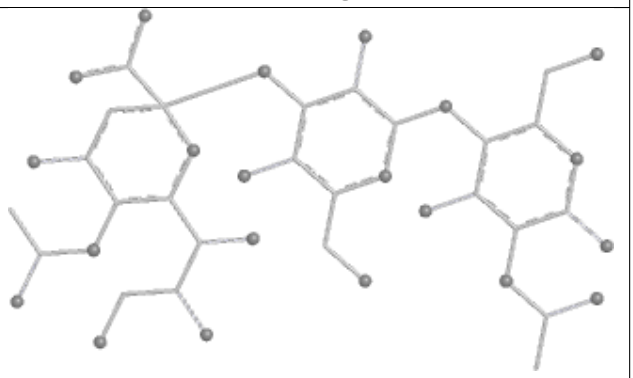
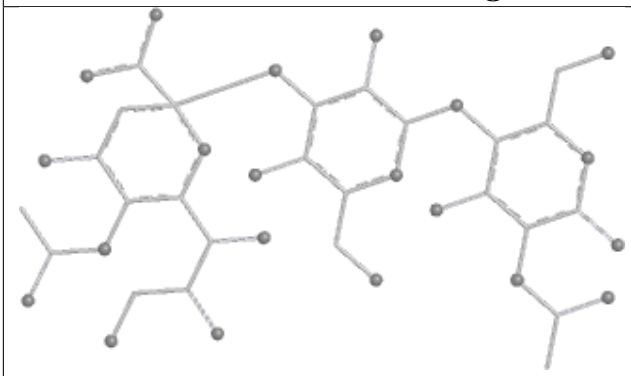


Rings

Oligosaccharide Chain bA



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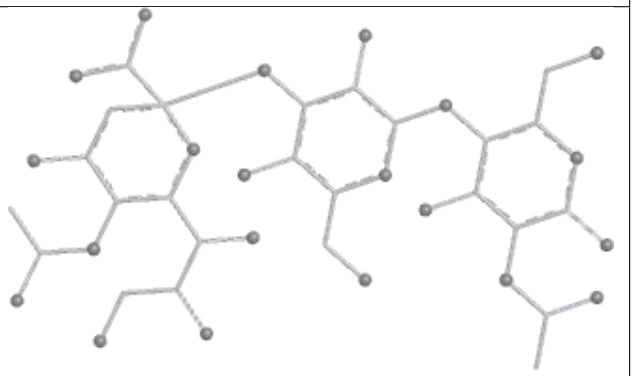
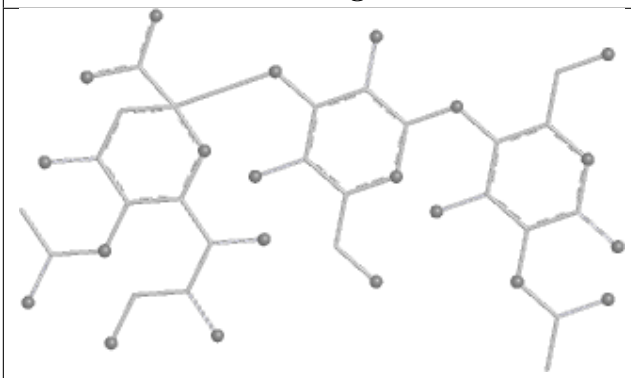


Bond angles



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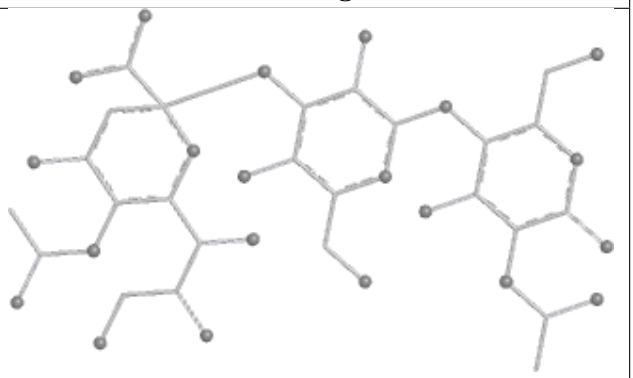
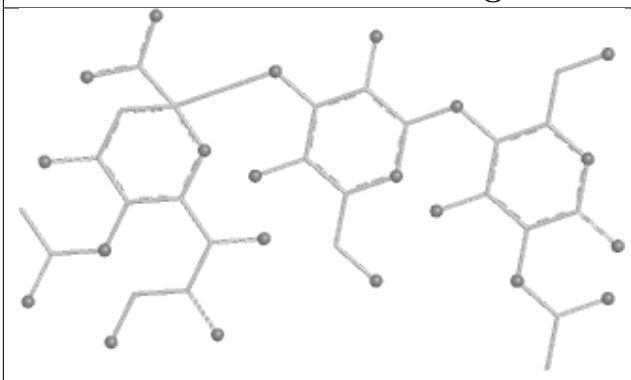


Rings

Oligosaccharide Chain dA



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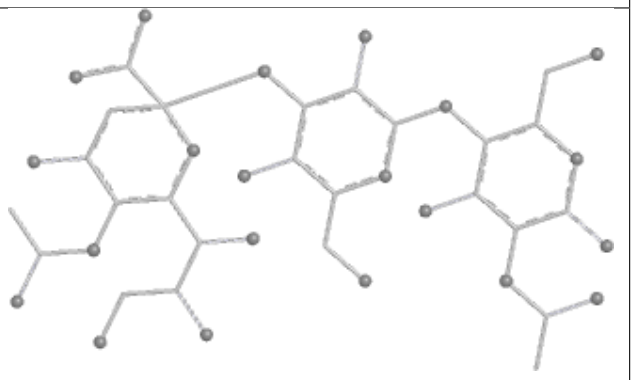
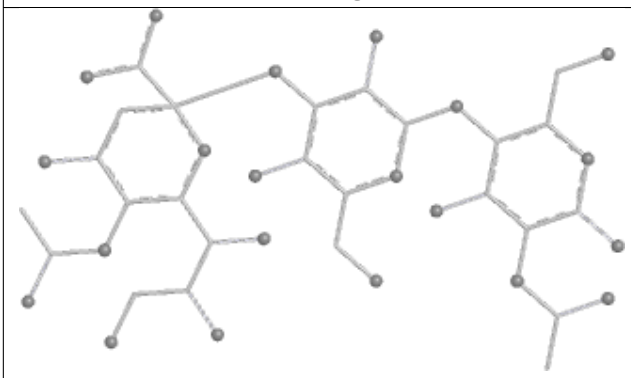
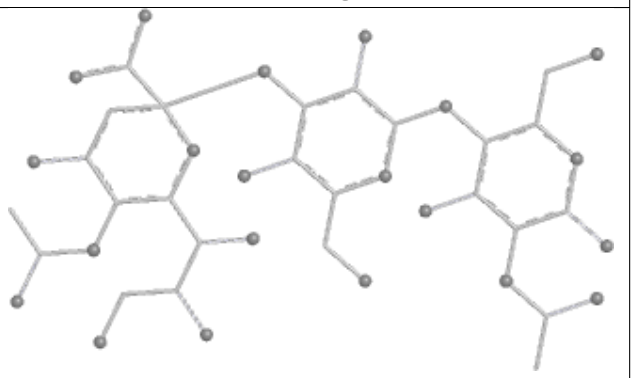


Bond angles

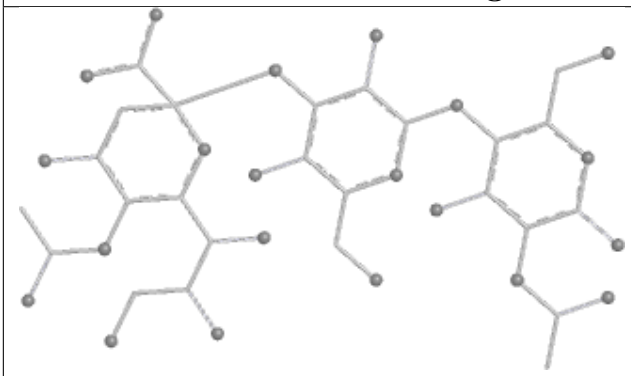


Torsions



Rings

Oligosaccharide Chain eA



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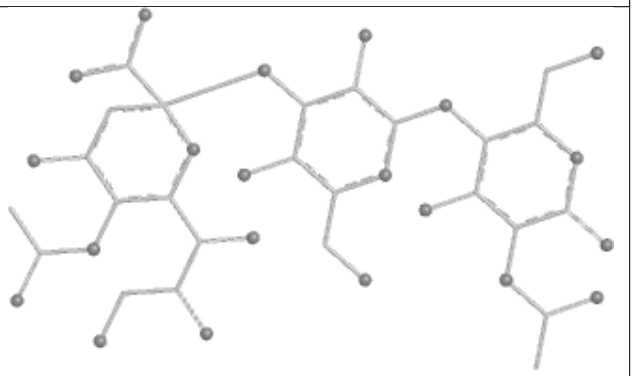
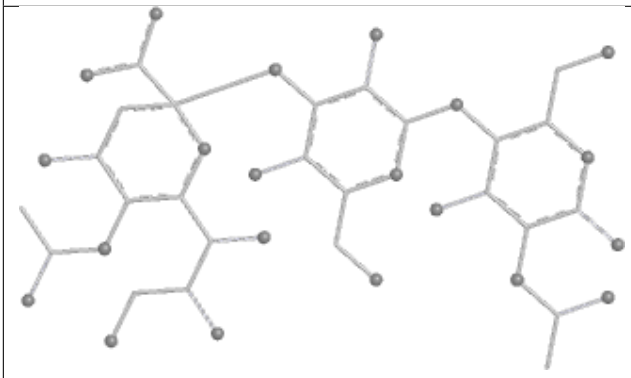


Bond angles



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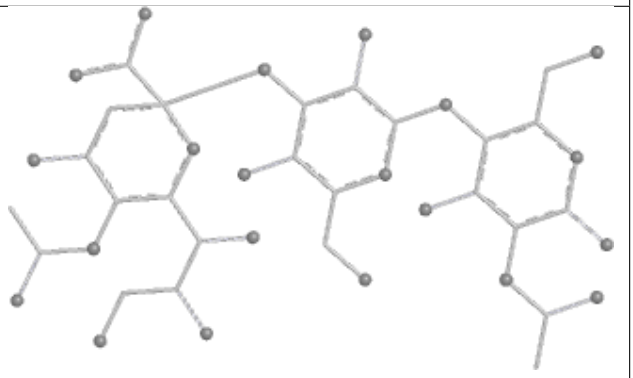
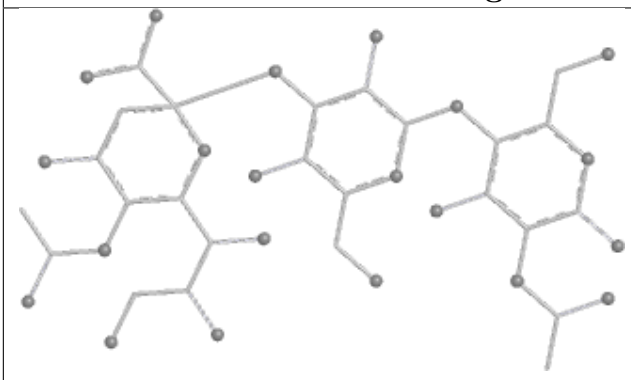


Rings

Oligosaccharide Chain gA



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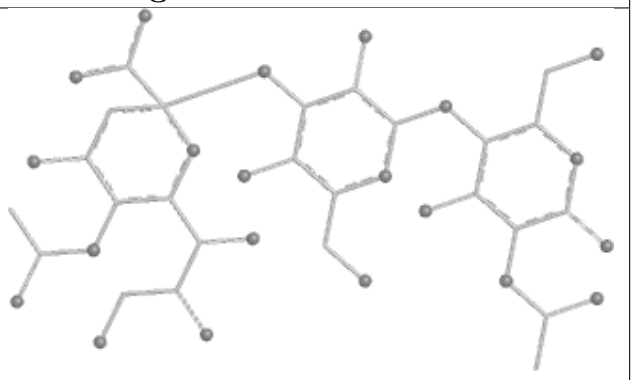
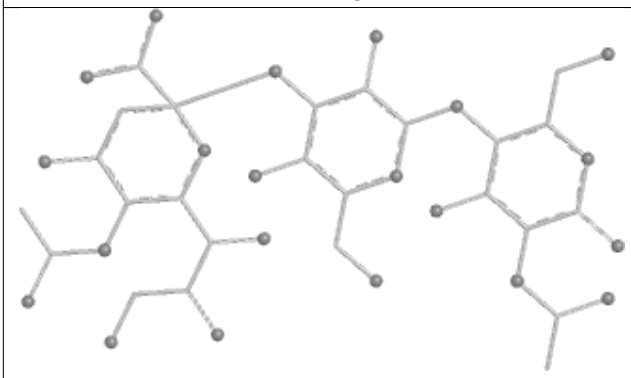


Bond angles



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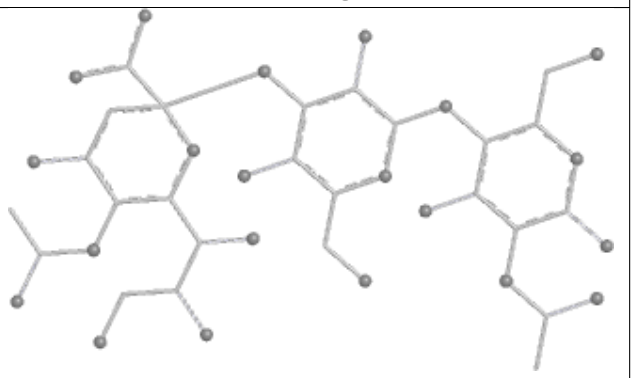
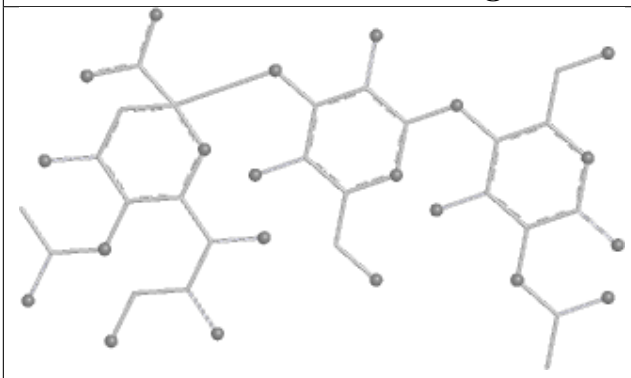


Rings

Oligosaccharide Chain hA



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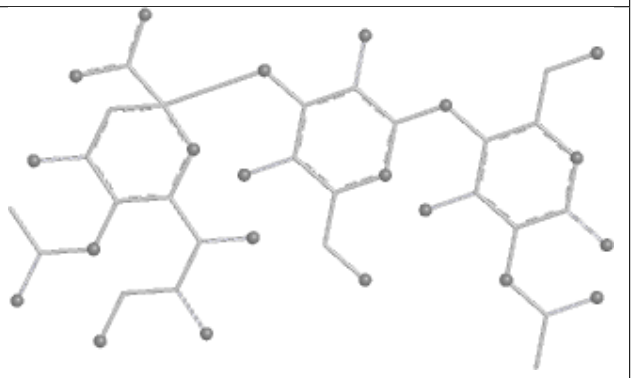
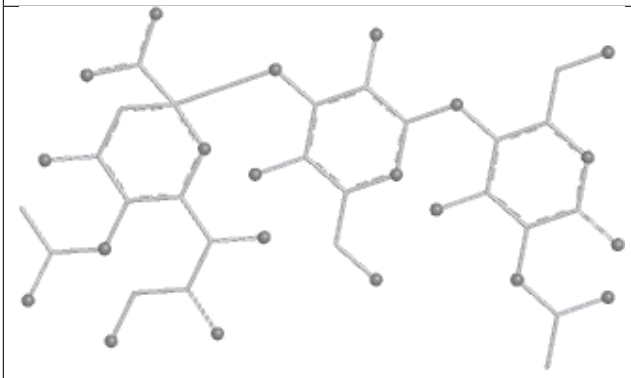


Bond angles



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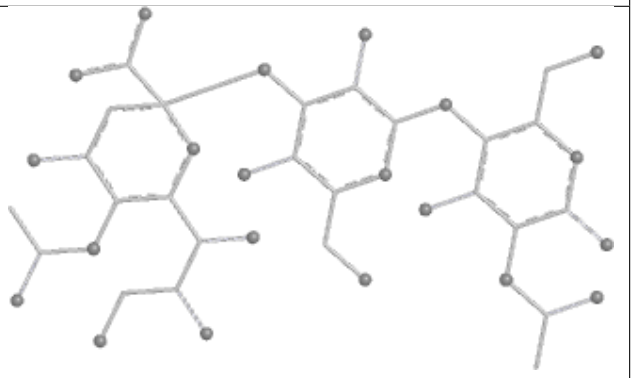
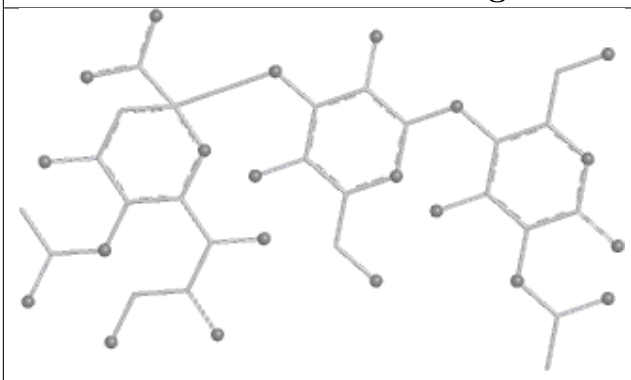


Rings

Oligosaccharide Chain jA



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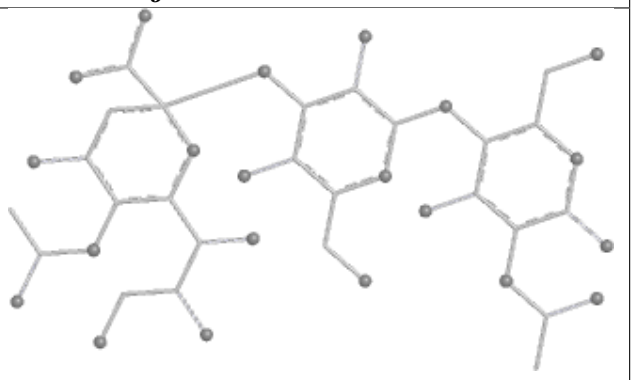
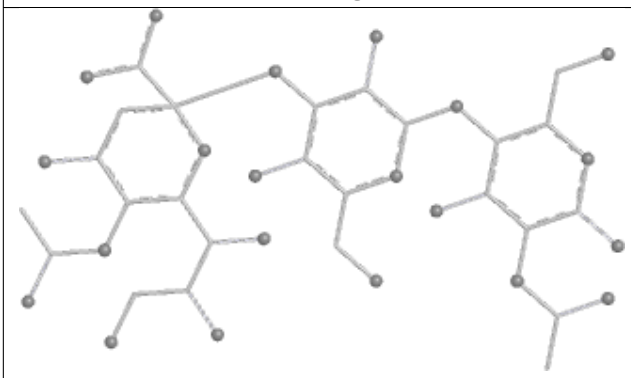
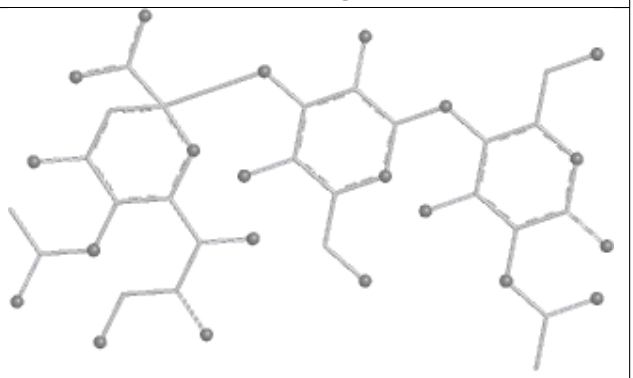


Bond angles

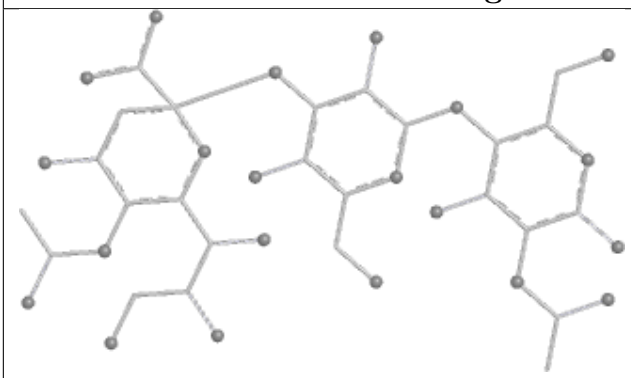


Torsions



Rings

Oligosaccharide Chain kA



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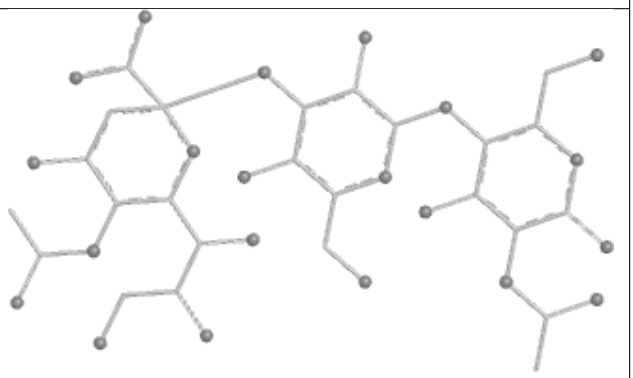
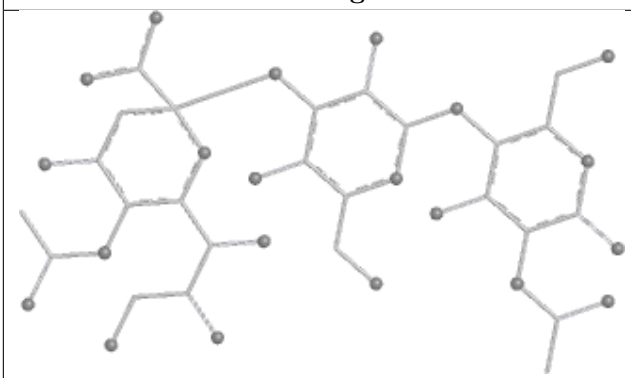
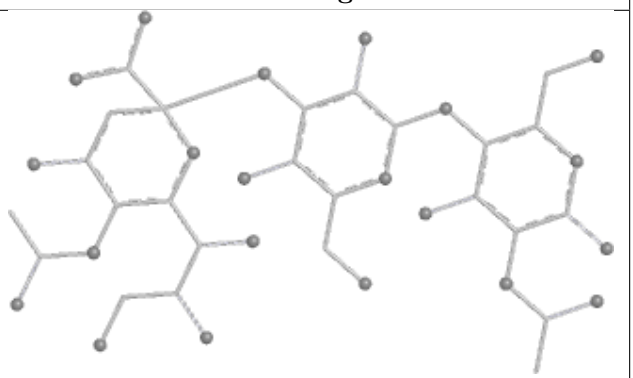


Bond angles

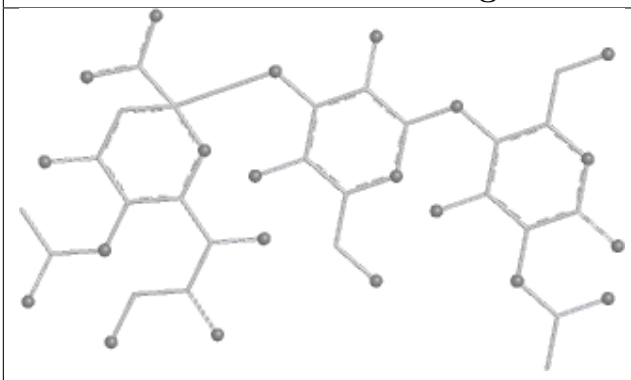


Torsions



Rings

Oligosaccharide Chain mA



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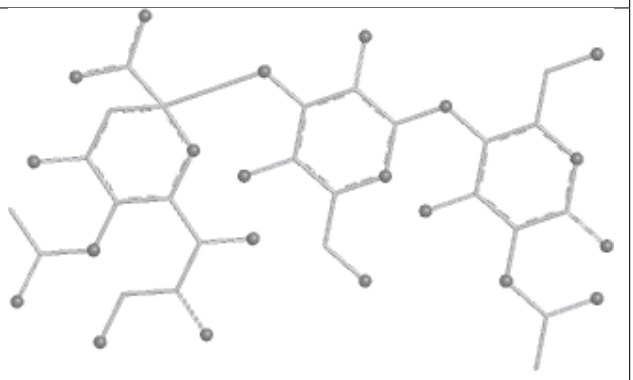
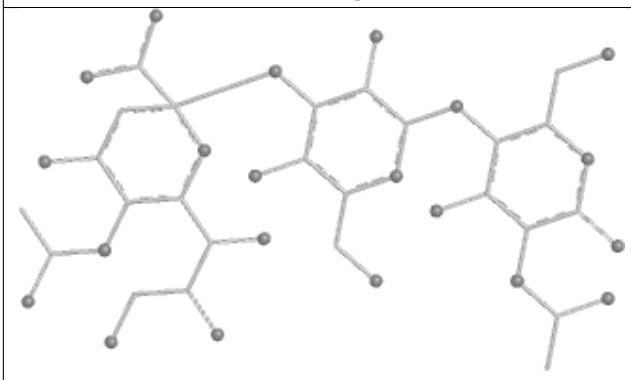
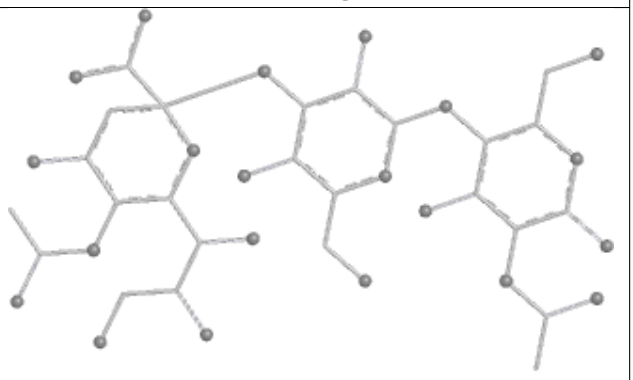


Bond angles

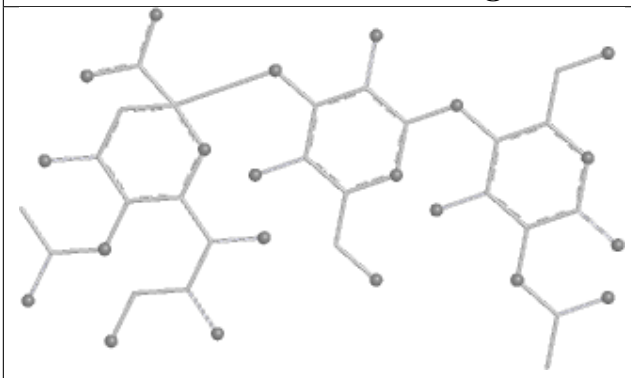


Torsions

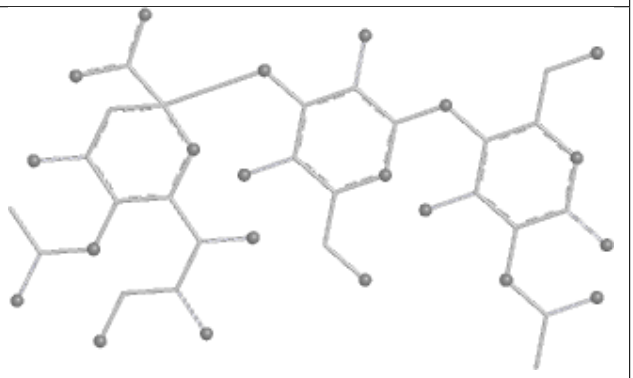


Rings

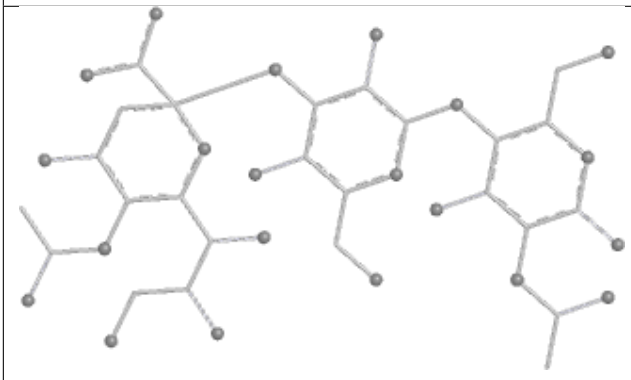
Oligosaccharide Chain nA



Bond lengths



Bond angles



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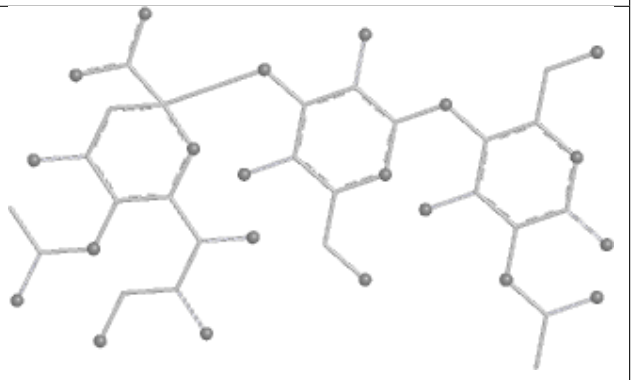
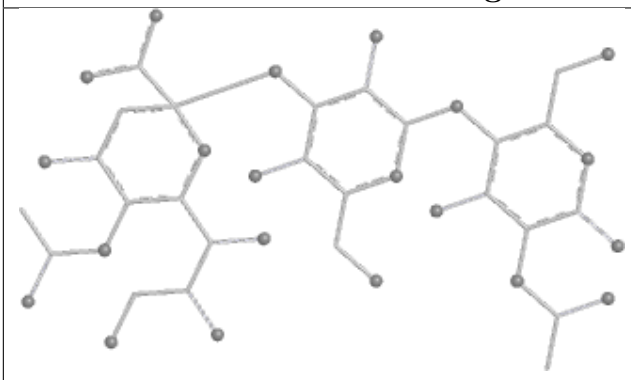
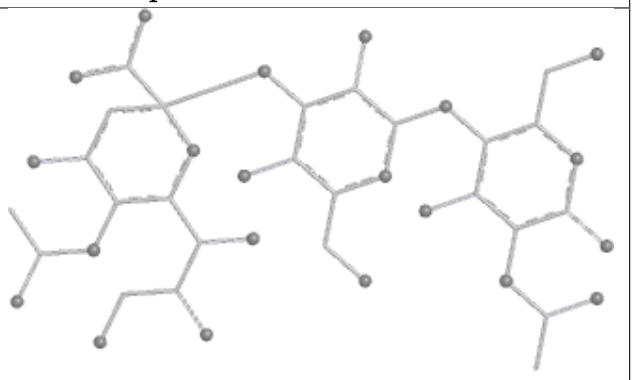


Rings

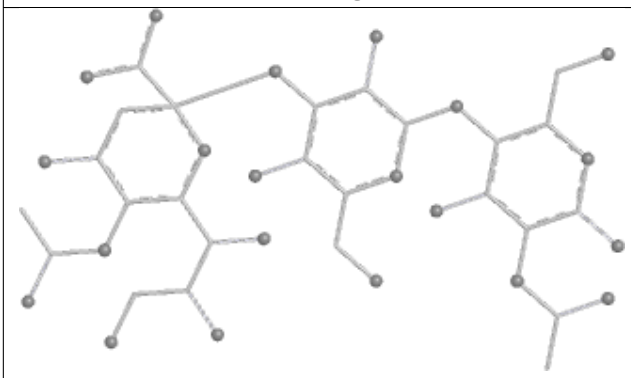
Oligosaccharide Chain pA



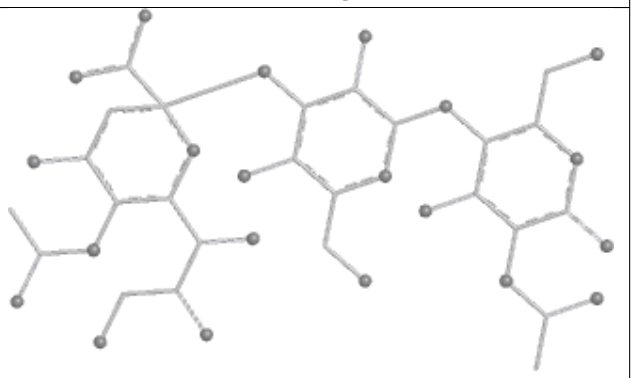
Bond lengths



Bond angles

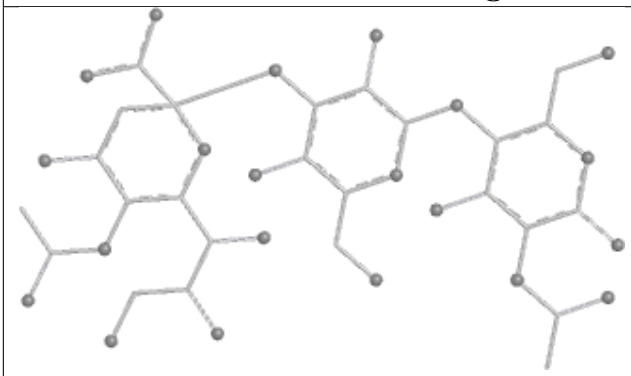


Torsions

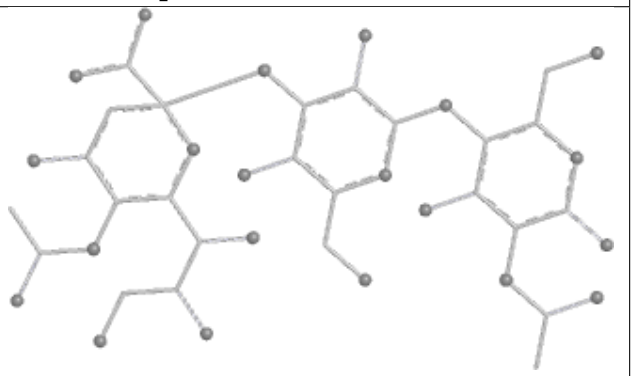


Rings

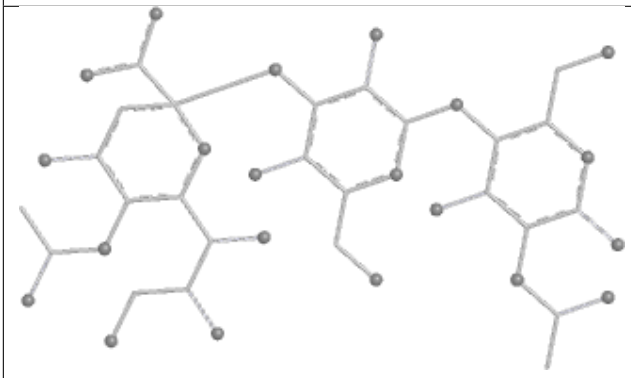
Oligosaccharide Chain qA



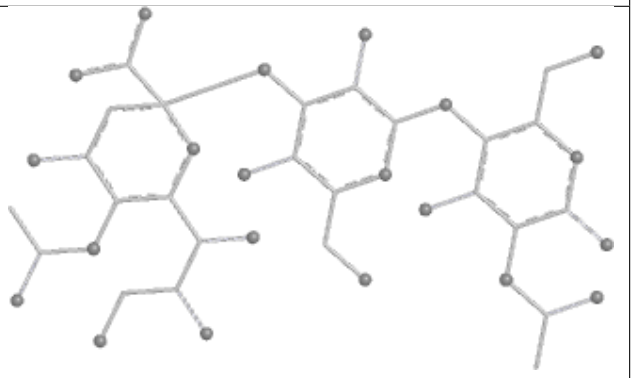
Bond lengths



Bond angles

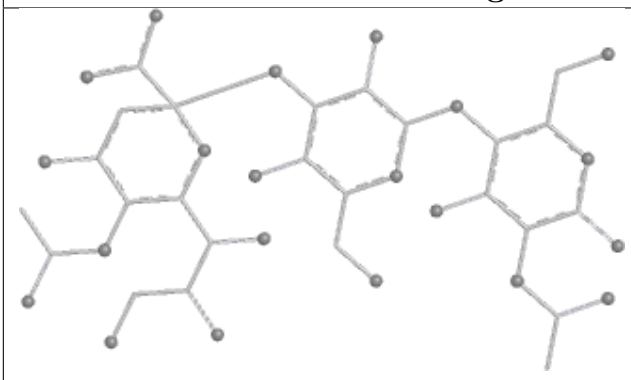


Torsions

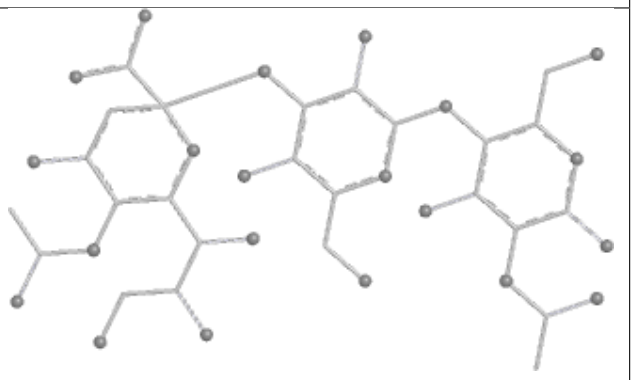


Rings

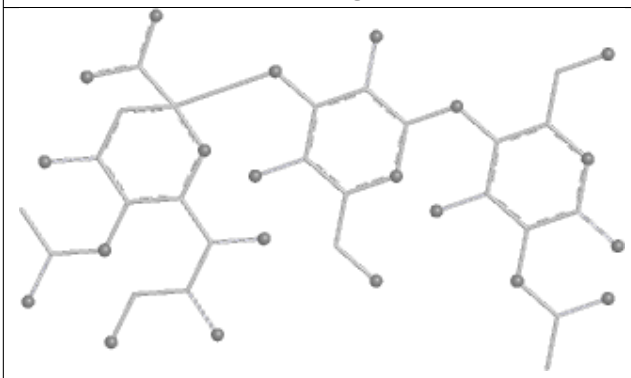
Oligosaccharide Chain sA



Bond lengths



Bond angles



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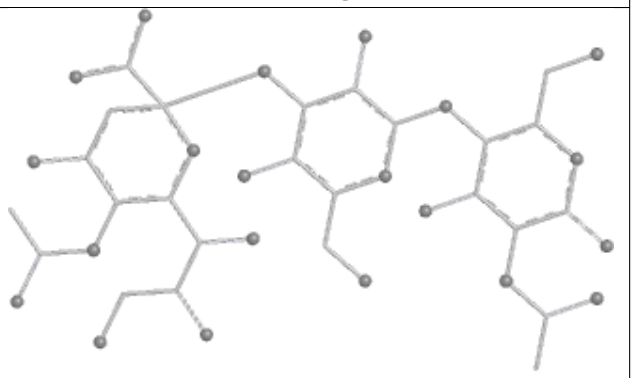
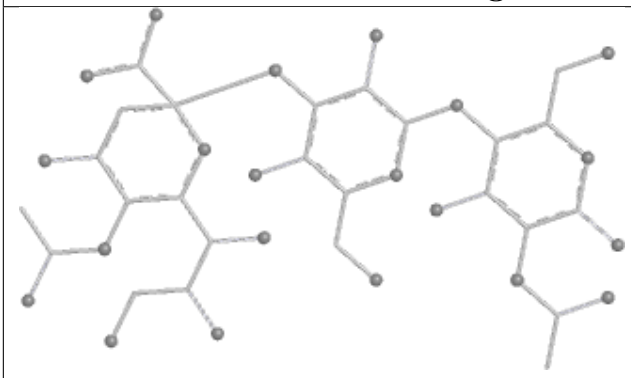


Rings

Oligosaccharide Chain tA



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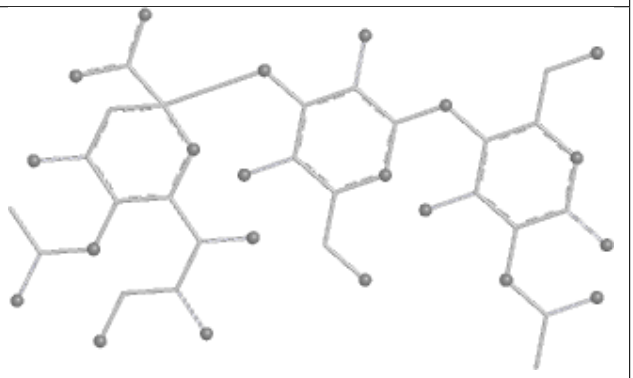
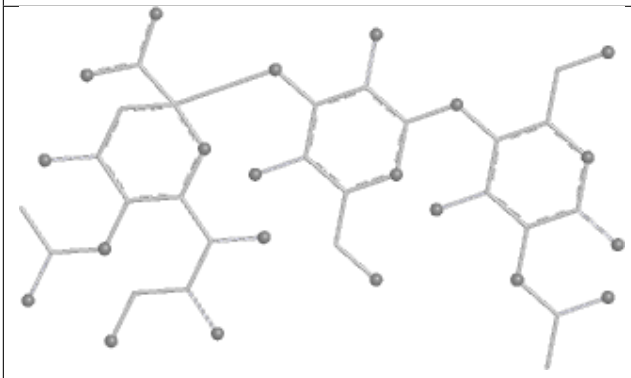


Bond angles



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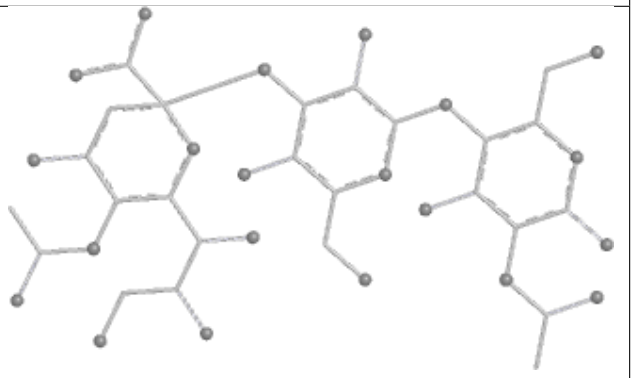
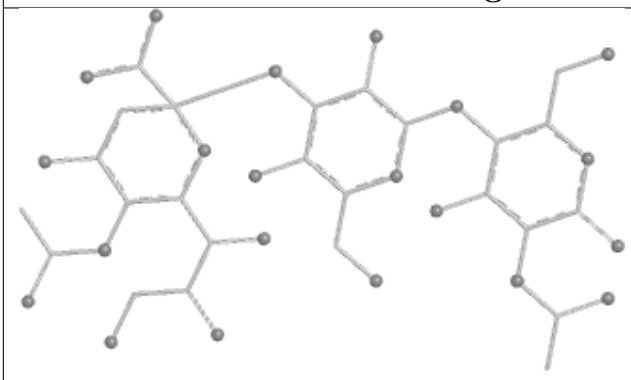


Rings

Oligosaccharide Chain vA



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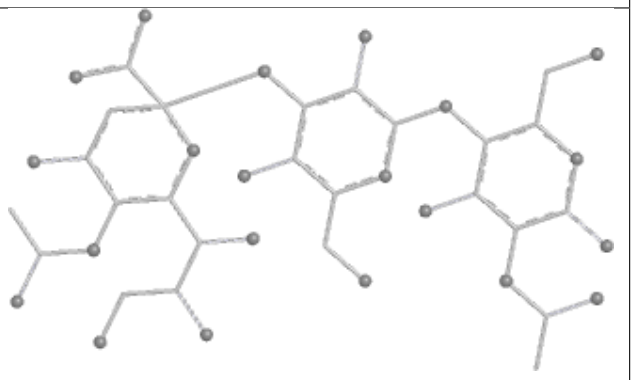

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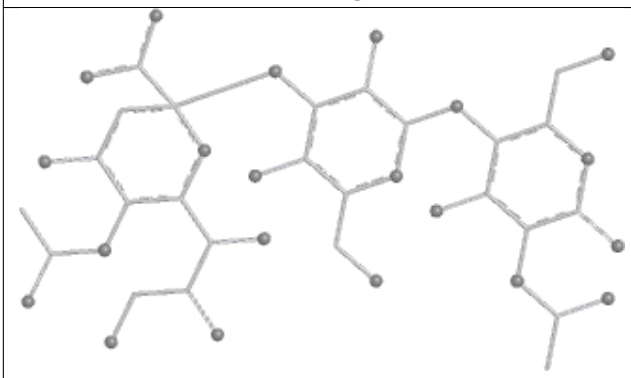
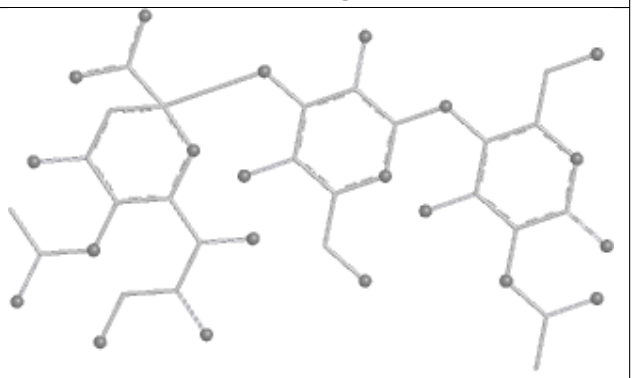
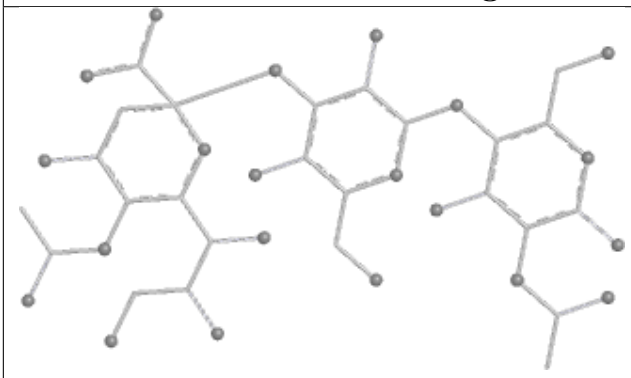


Torsions

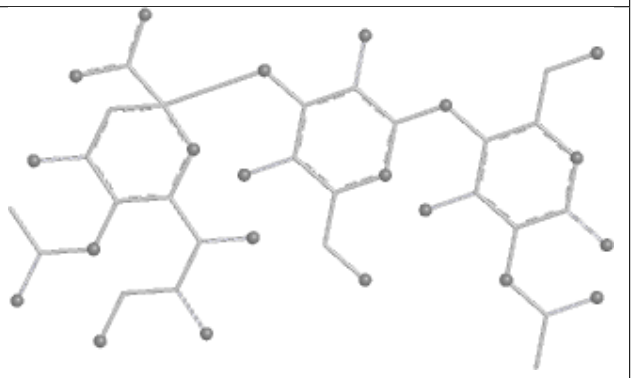


Rings

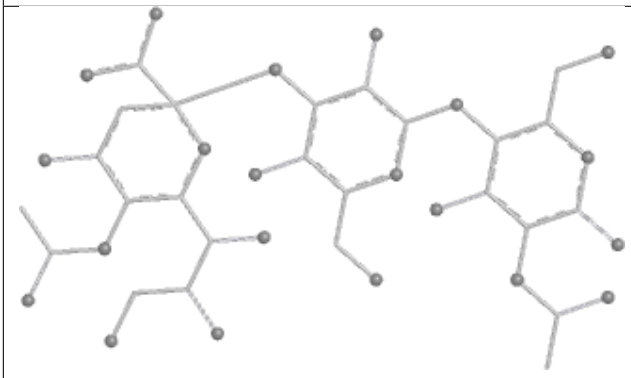
Oligosaccharide Chain wA



Bond lengths



Bond angles



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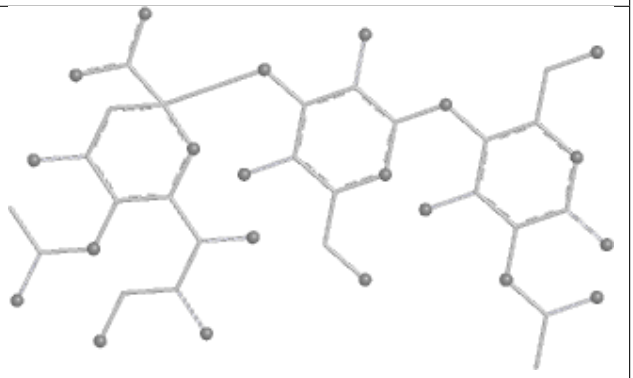
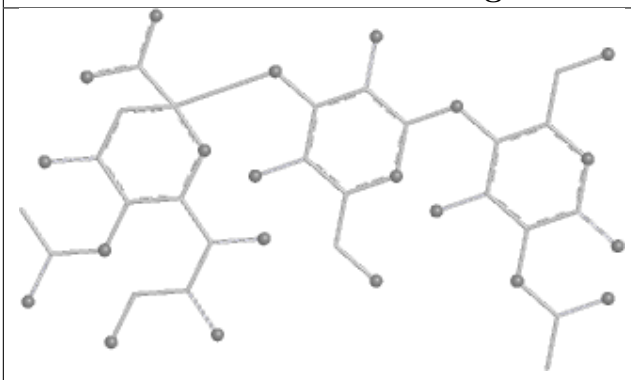


Rings

Oligosaccharide Chain yA



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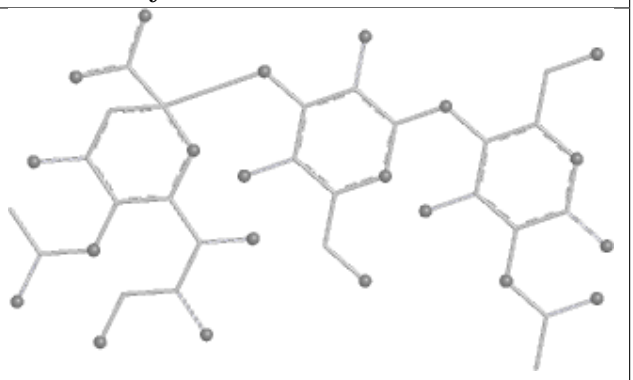
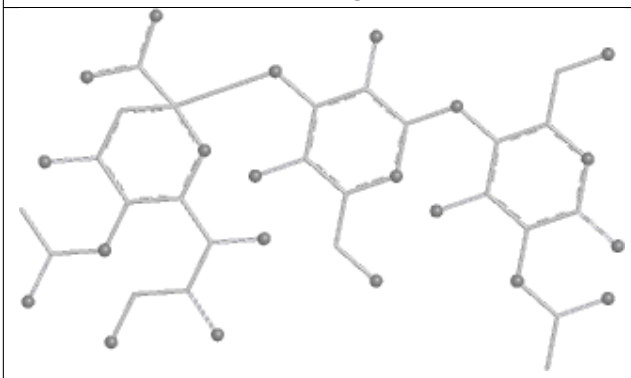


Bond angles



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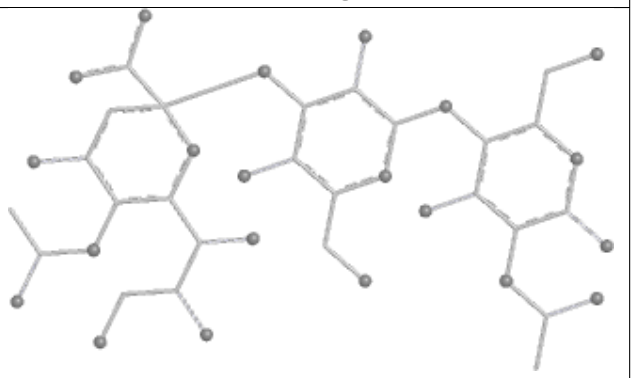
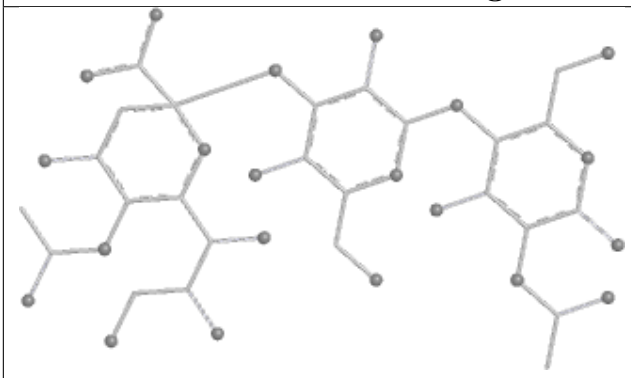


Rings

Oligosaccharide Chain zA



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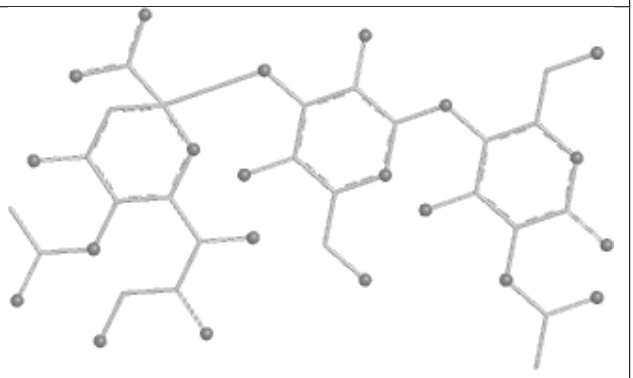
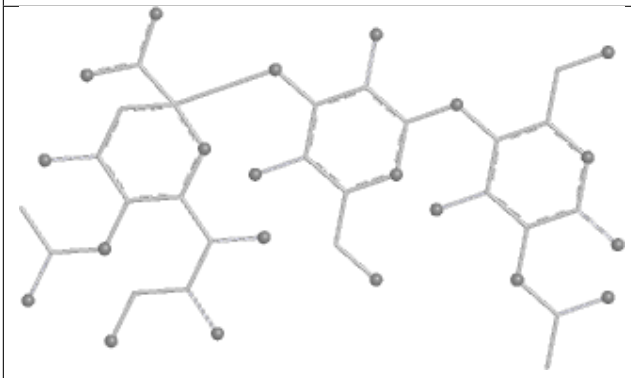


Bond angles



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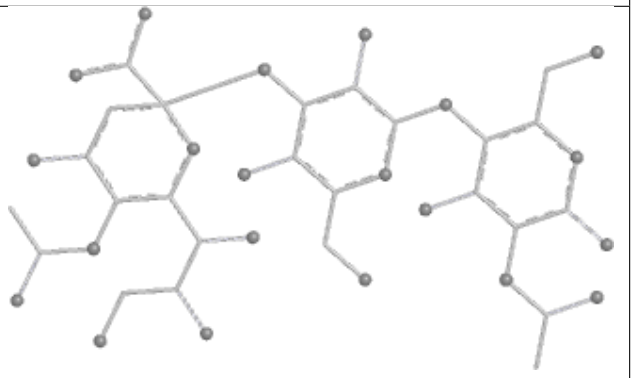
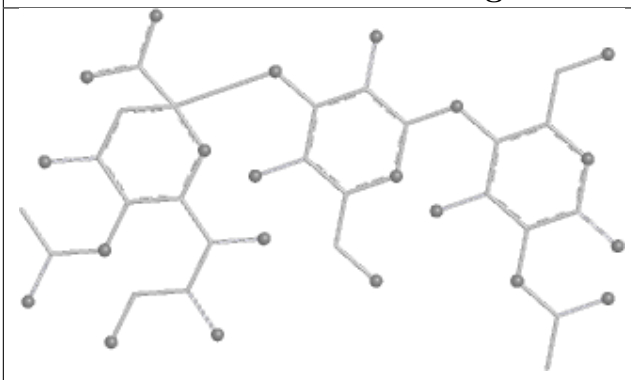


Rings

Oligosaccharide Chain 1A



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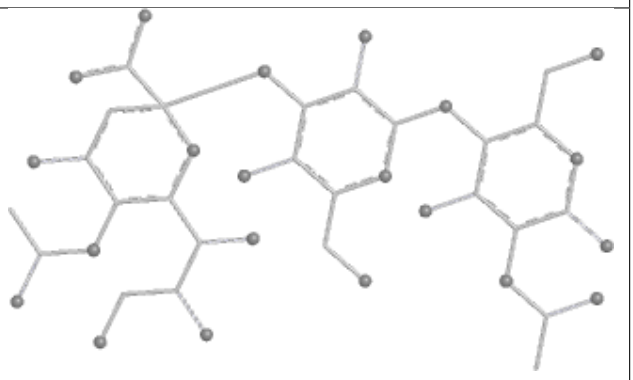
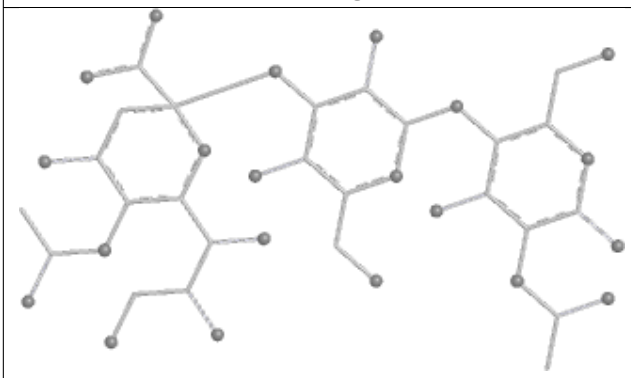


Bond angles



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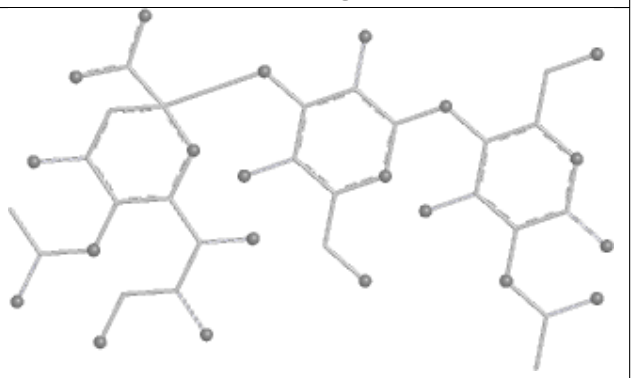
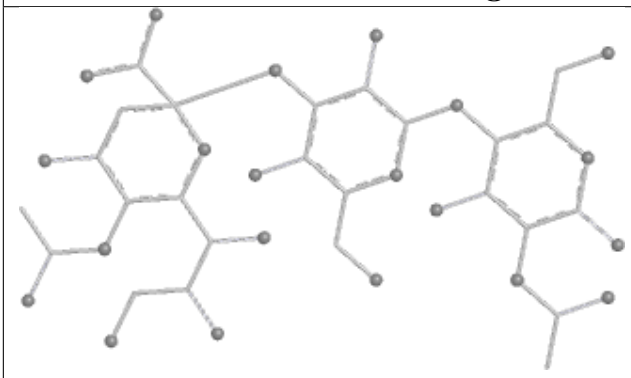


Rings

Oligosaccharide Chain 2A



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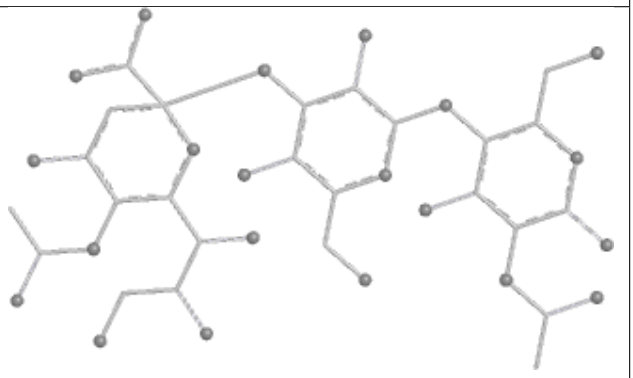
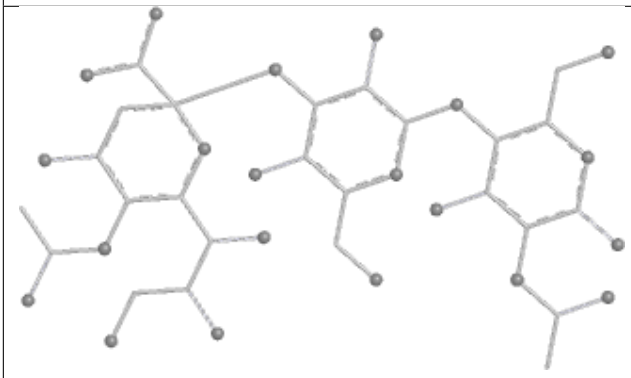
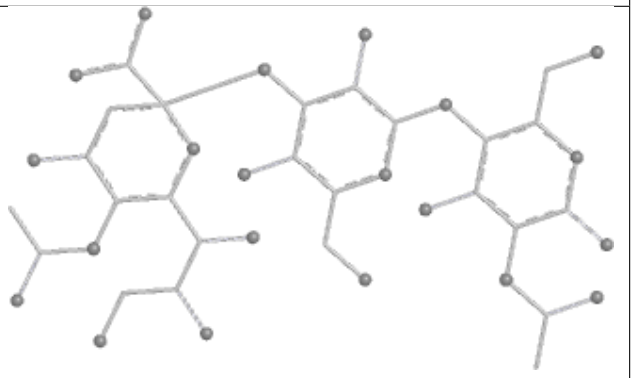


Bond angles

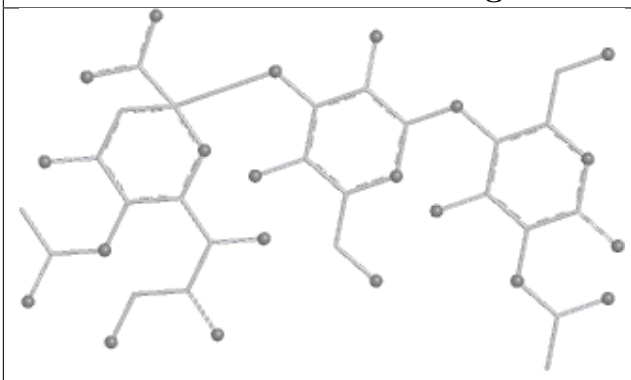


Torsions



Rings

Oligosaccharide Chain 4A



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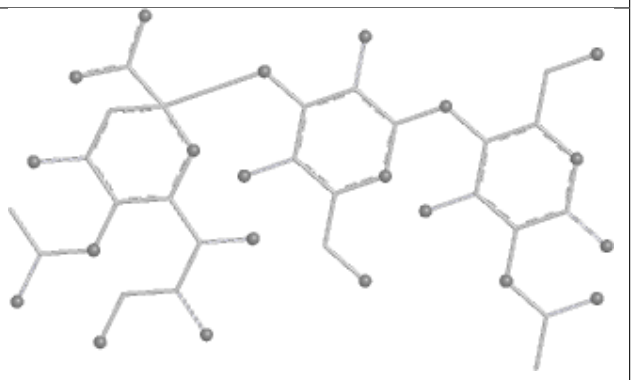
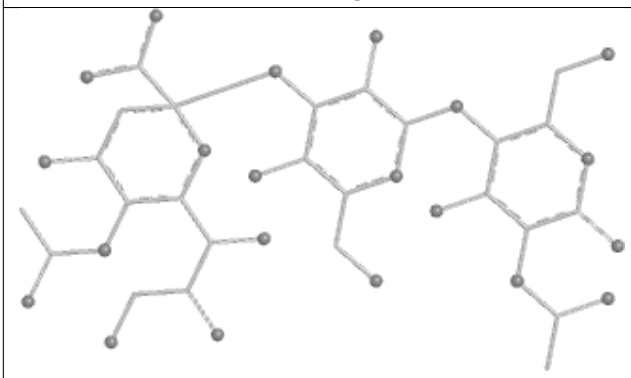
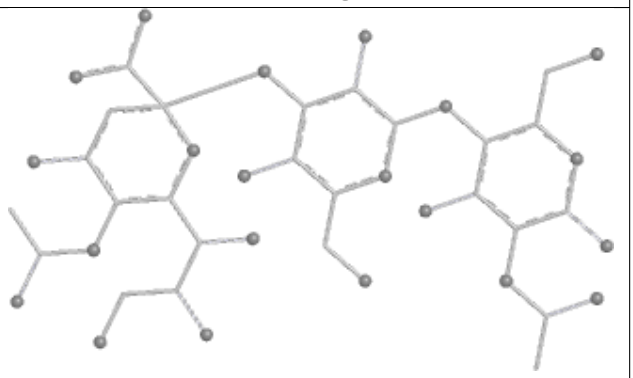


Bond angles

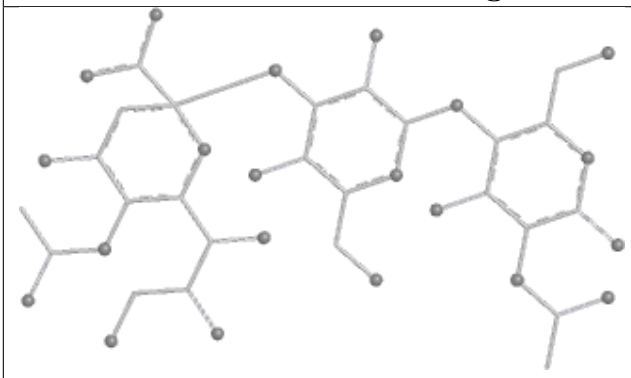


Torsions

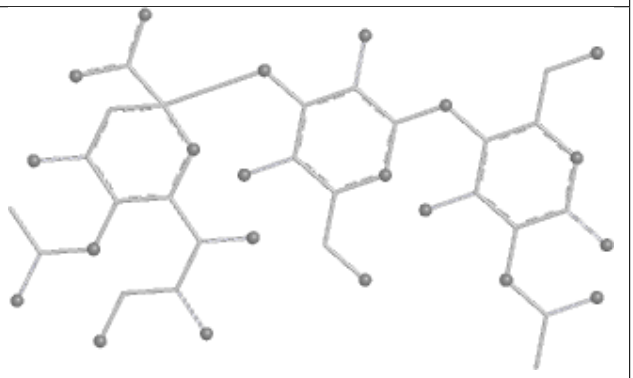


Rings

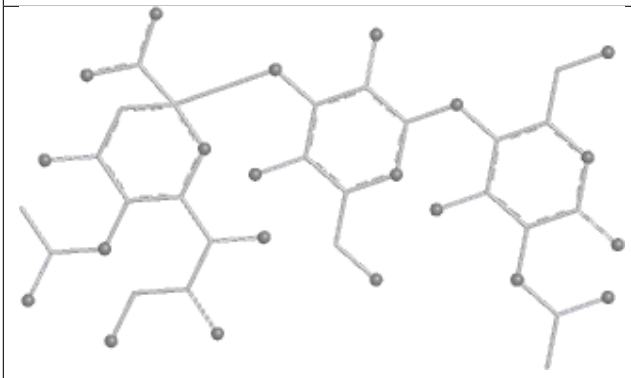
Oligosaccharide Chain 5A



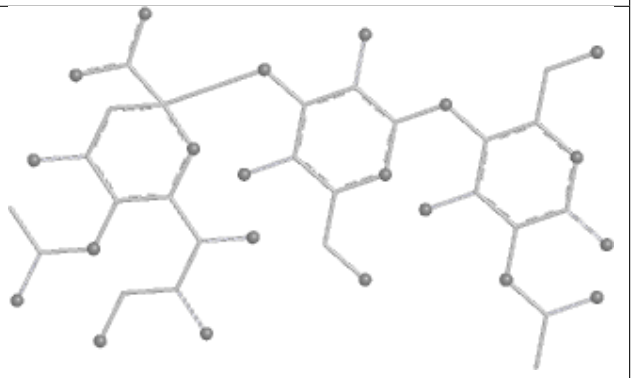
Bond lengths



Bond angles

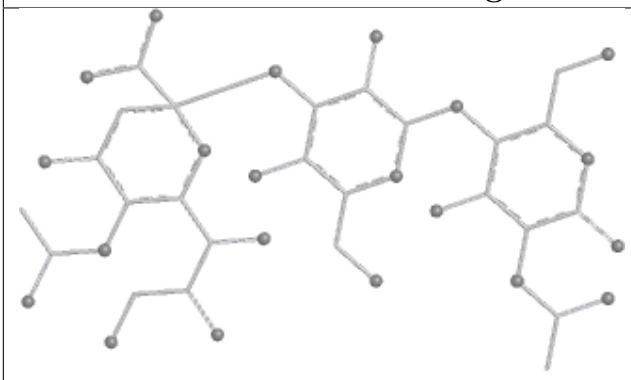


Torsions



Rings

Oligosaccharide Chain 7A



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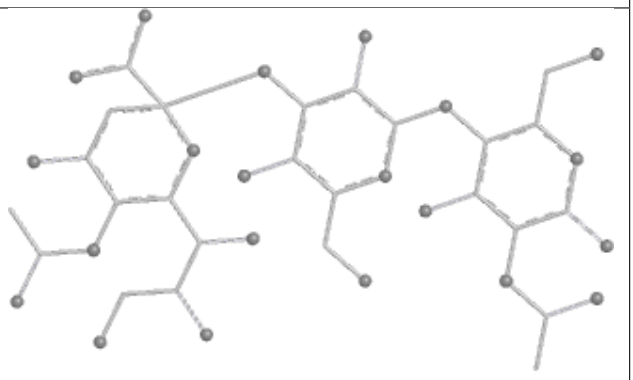
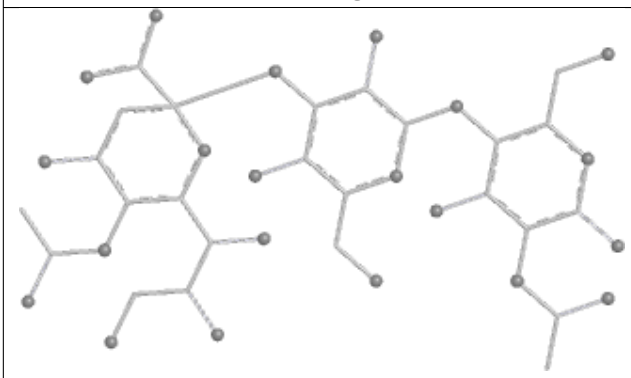


Bond angles



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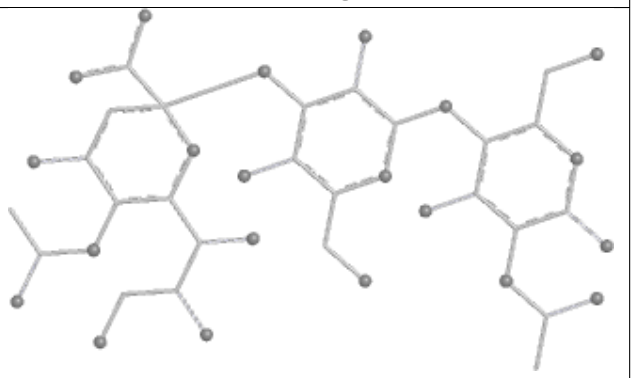
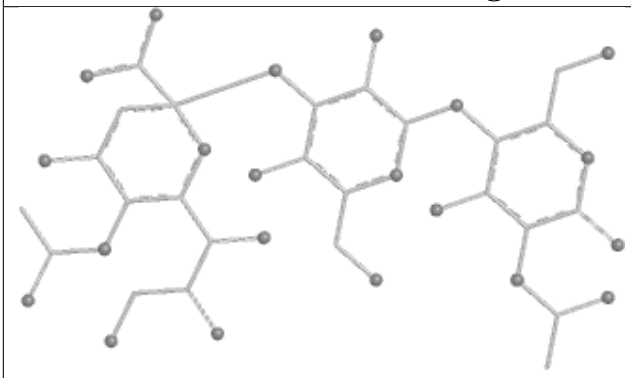
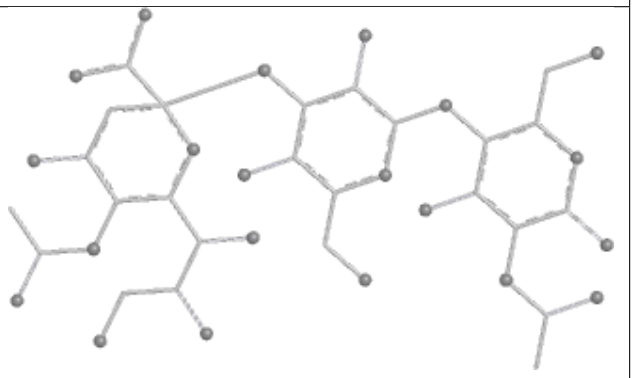


Rings

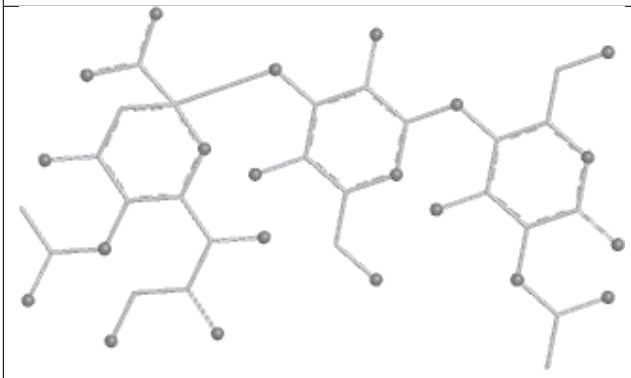
Oligosaccharide Chain 8A



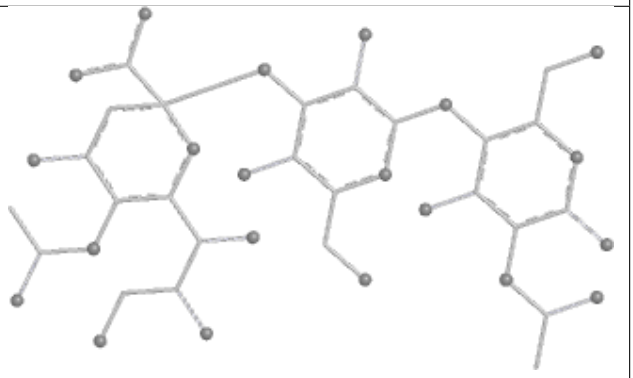
Bond lengths



Bond angles

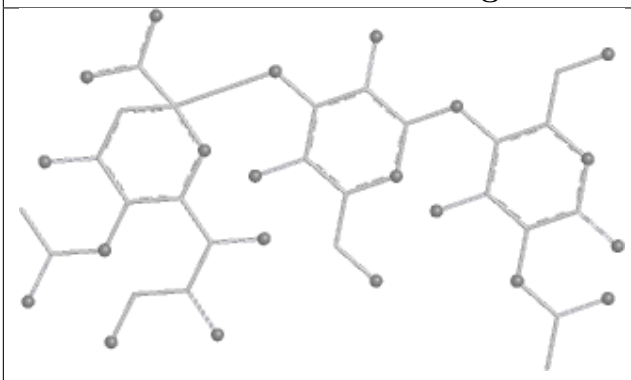


Torsions

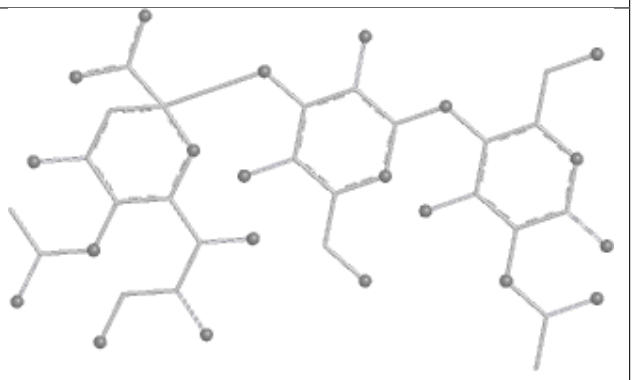


Rings

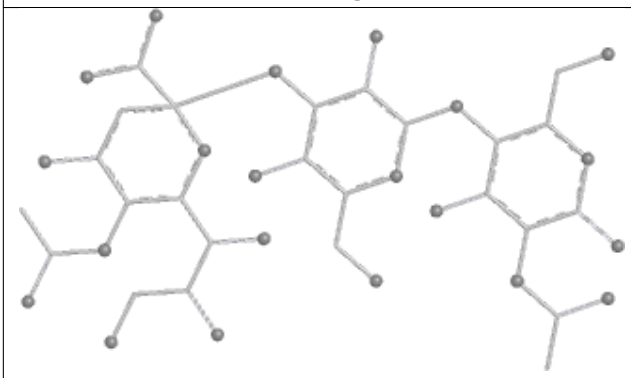
Oligosaccharide Chain AB



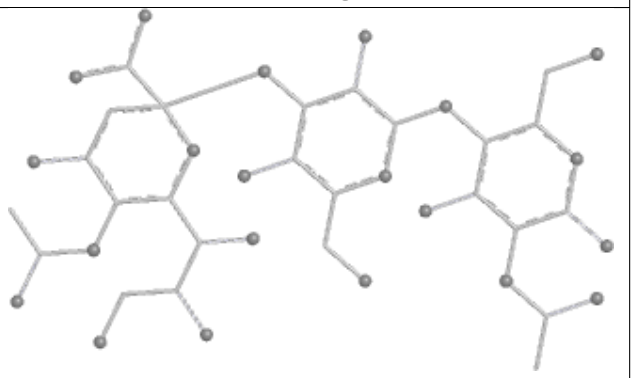
Bond lengths



Bond angles

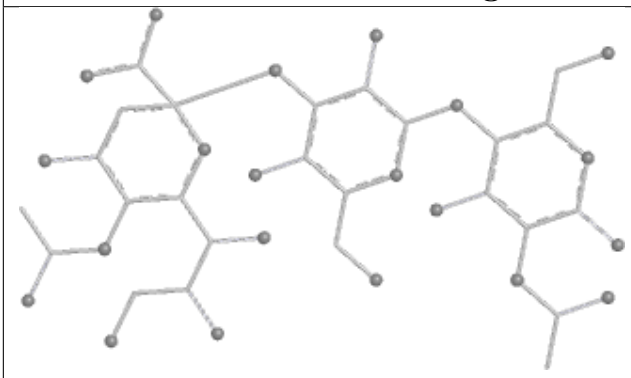


Torsions



Rings

Oligosaccharide Chain BB



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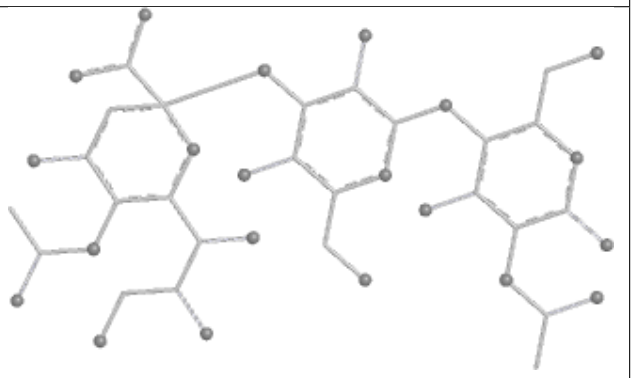

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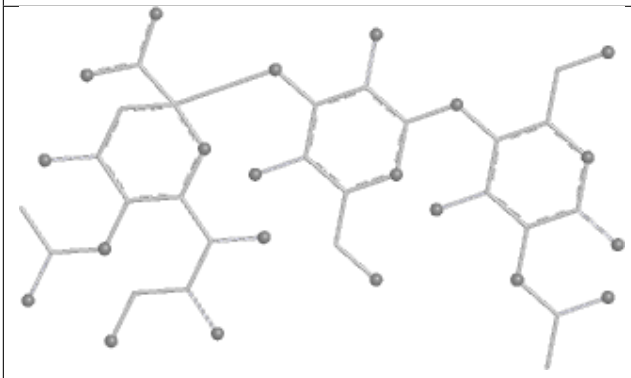

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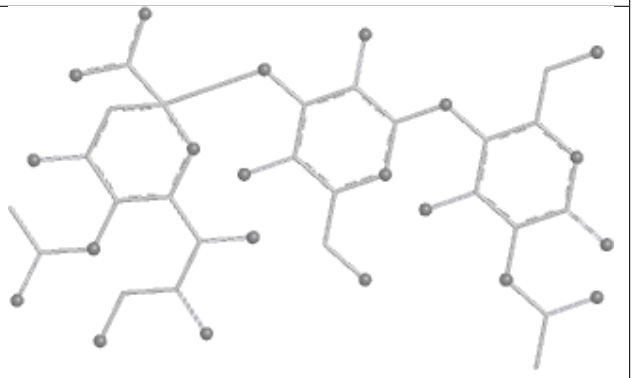
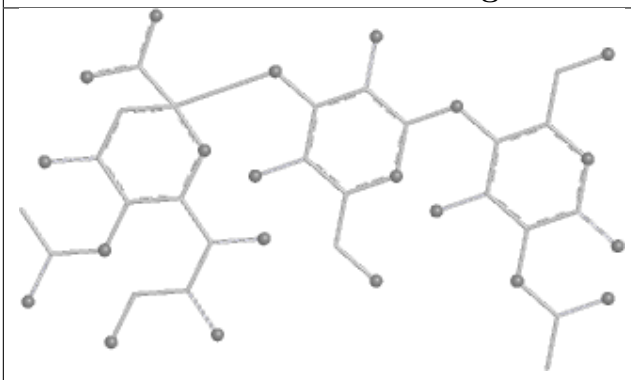


Rings

Oligosaccharide Chain DB



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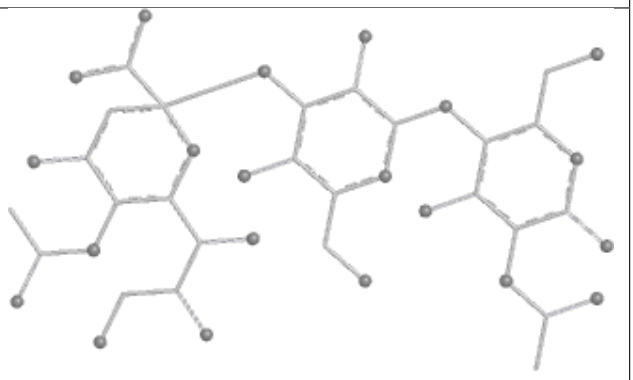
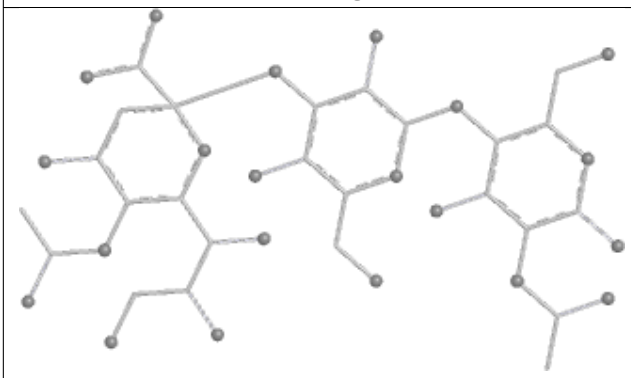


Bond angles



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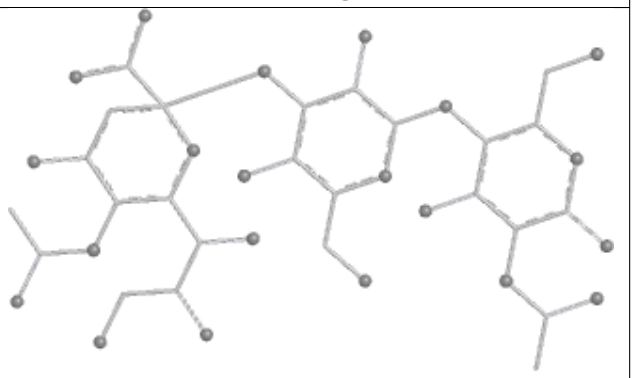
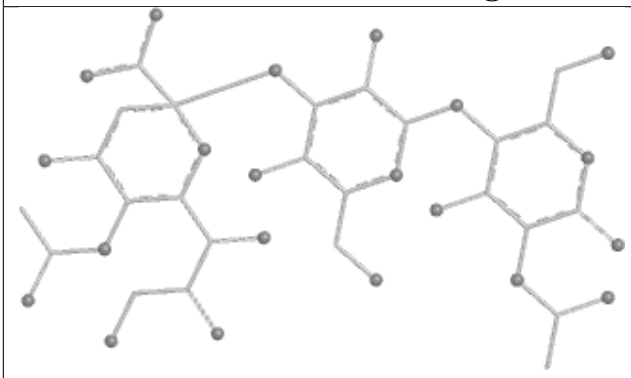
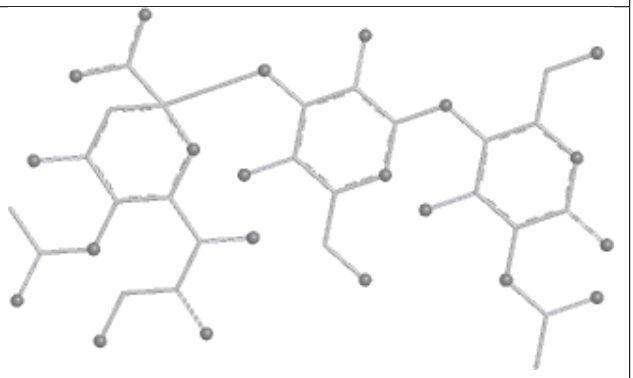


Rings

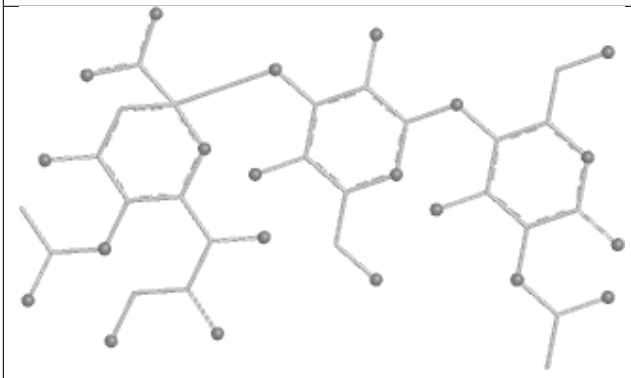
Oligosaccharide Chain EB



Bond lengths



Bond angles



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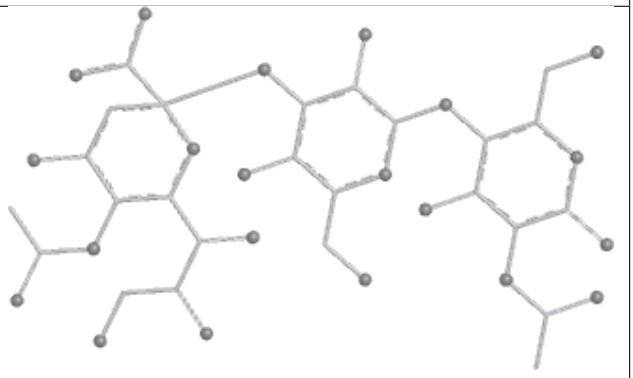
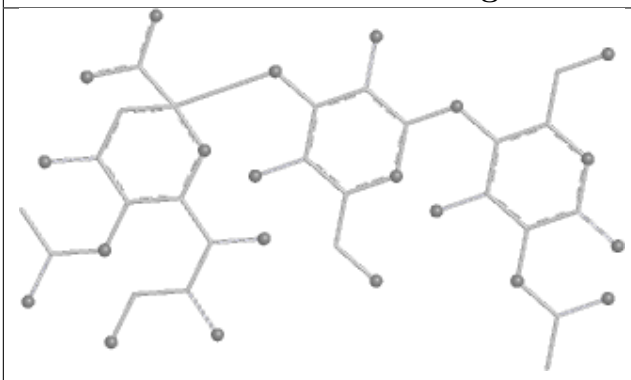


Rings

Oligosaccharide Chain GB



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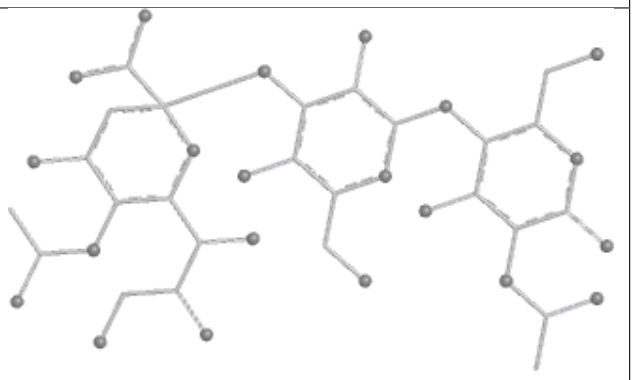
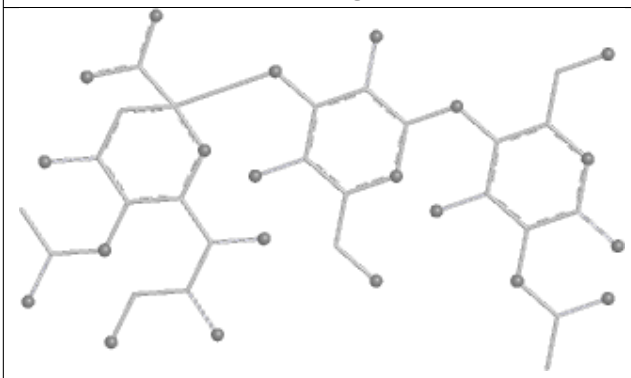


Bond angles



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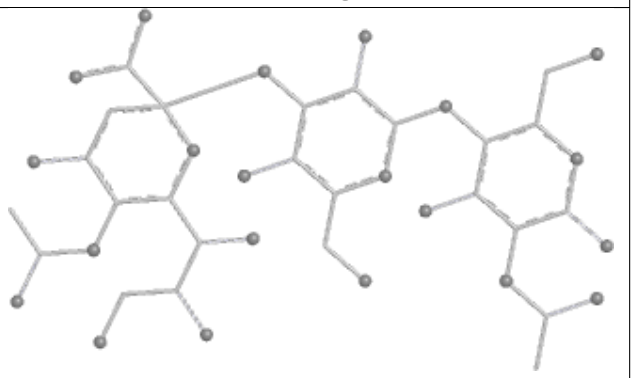
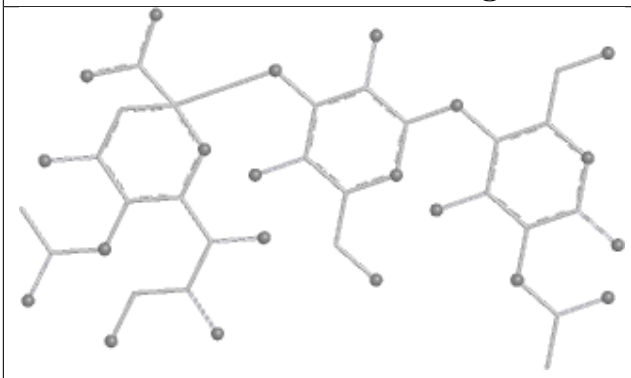


Rings

Oligosaccharide Chain HB



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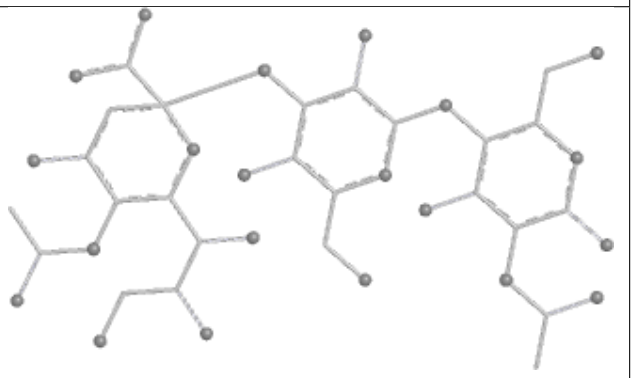
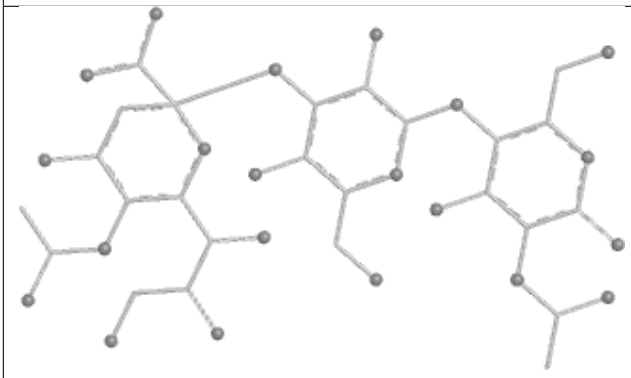


Bond angles



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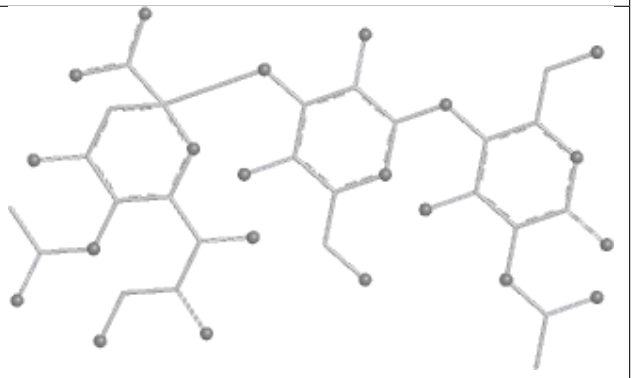
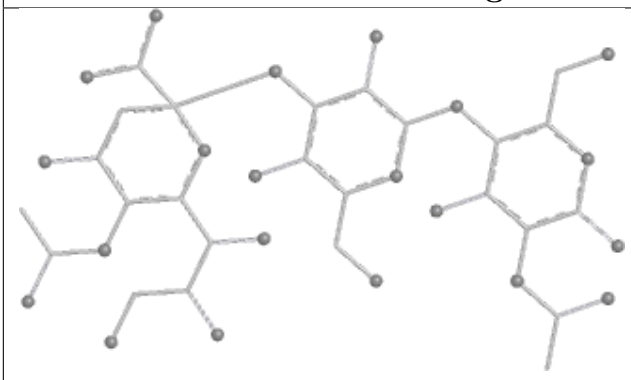


Rings

Oligosaccharide Chain JB



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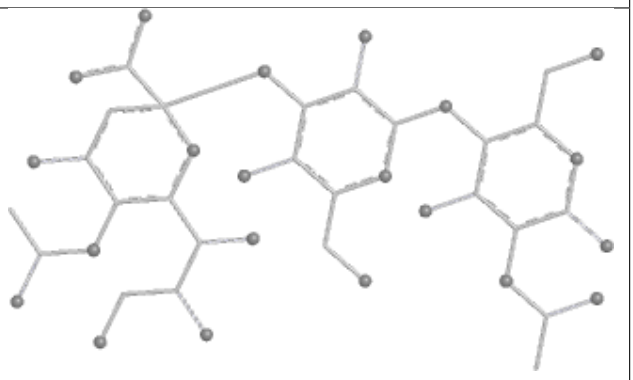
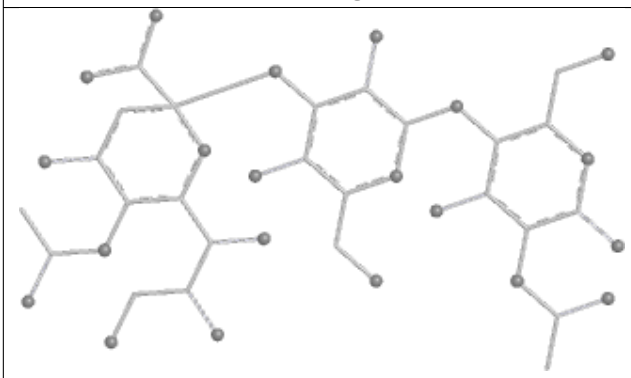


Bond angles



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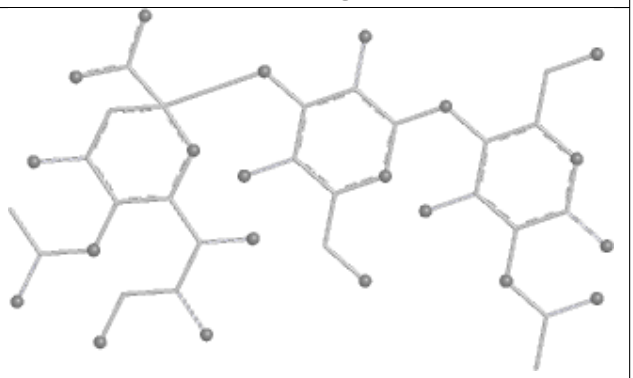
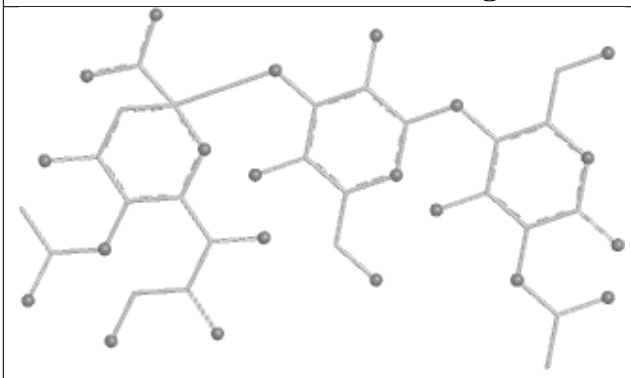


Rings

Oligosaccharide Chain KB



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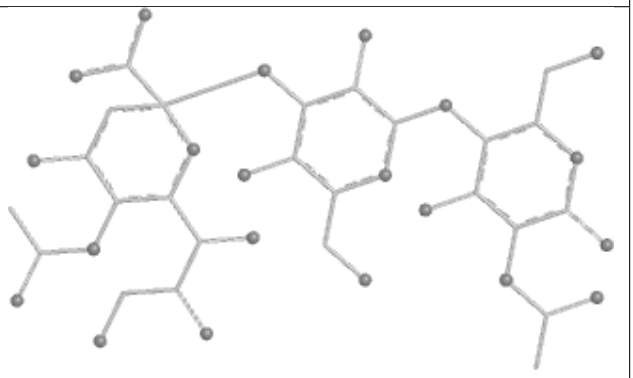
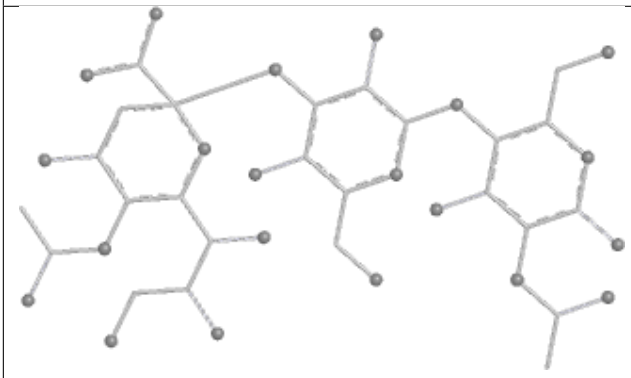
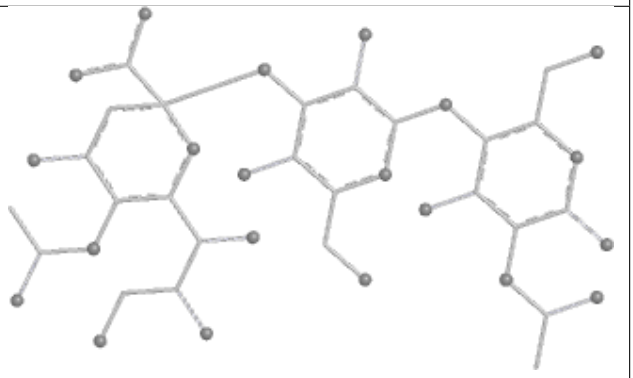


Bond angles

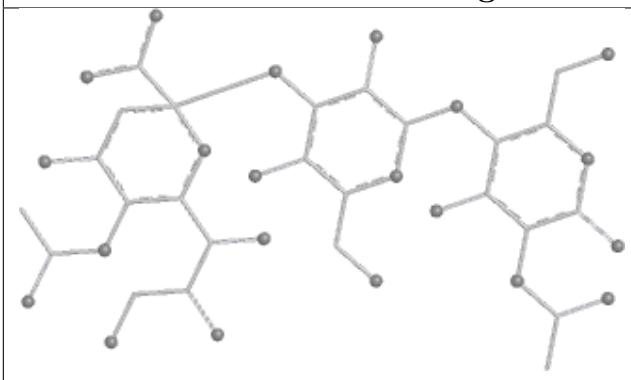


Torsions

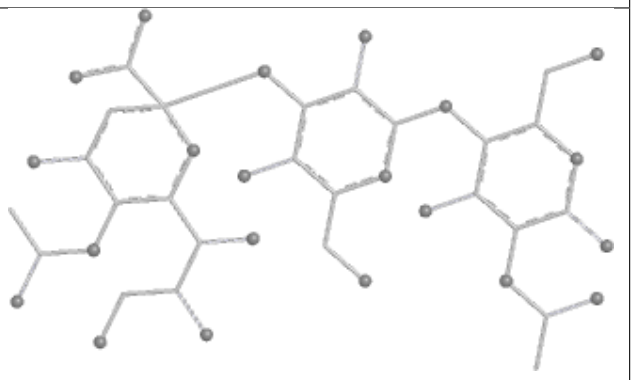


Rings

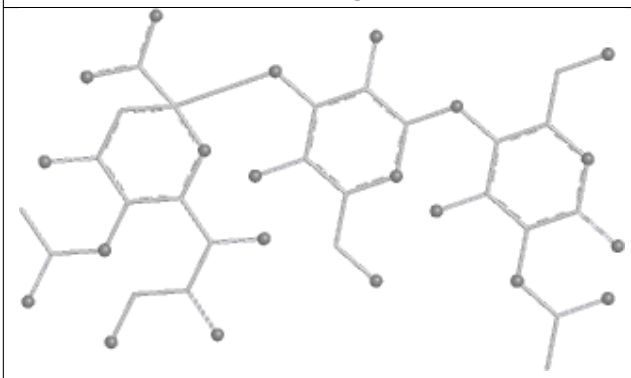
Oligosaccharide Chain MB



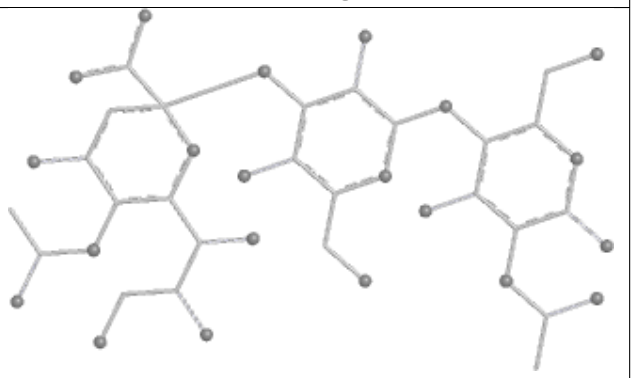
Bond lengths



Bond angles

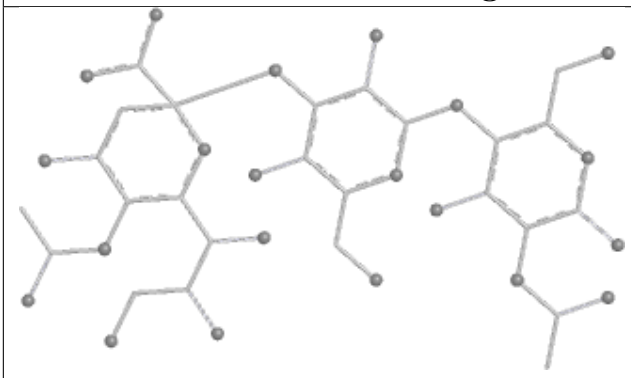


Torsions



Rings

Oligosaccharide Chain NB



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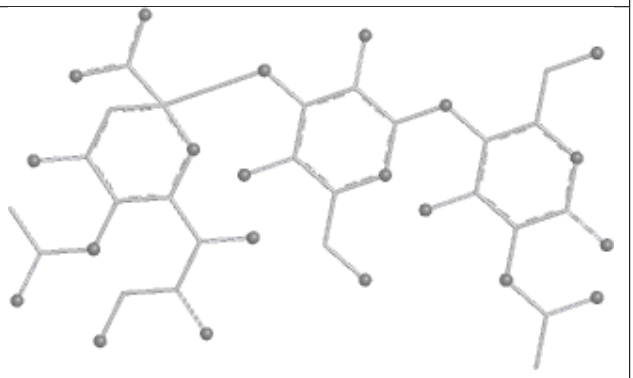
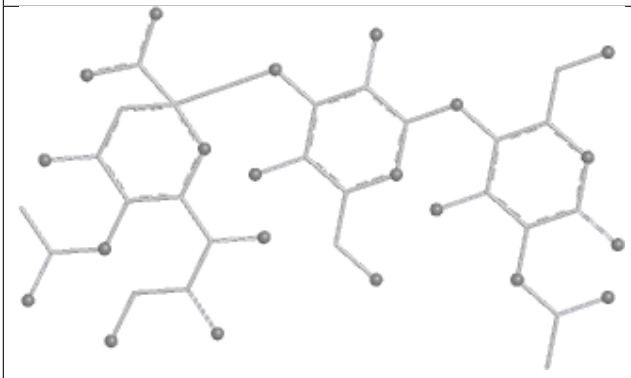
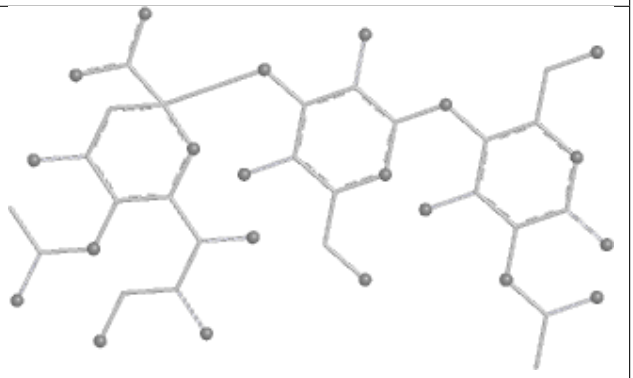


Bond angles

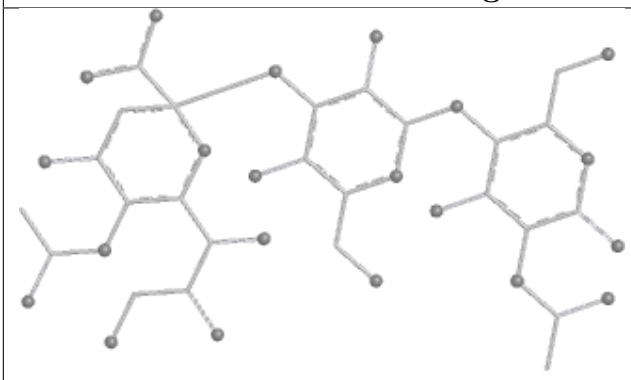


Torsions



Rings

Oligosaccharide Chain PB



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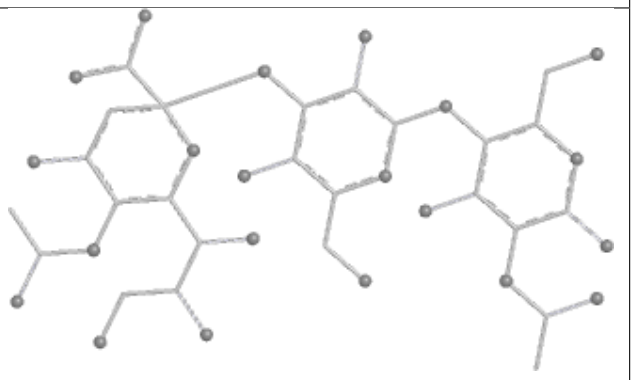
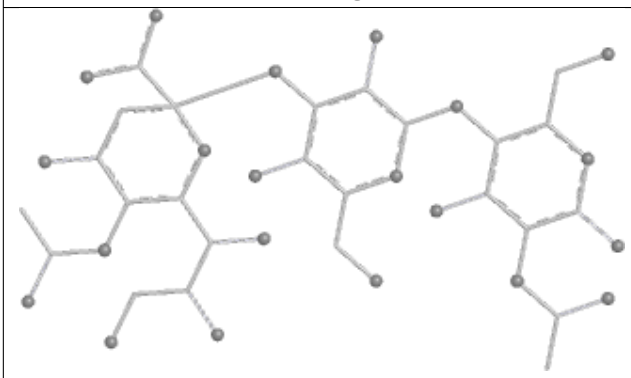
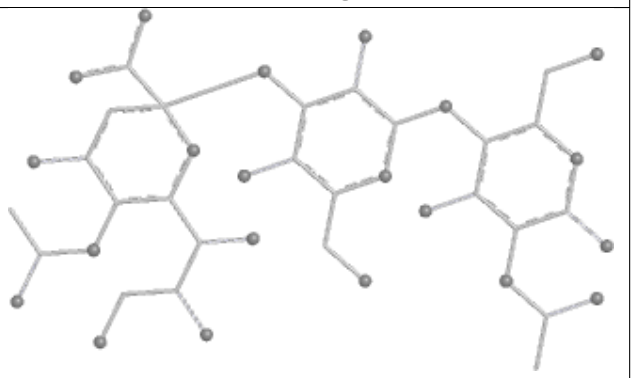


Bond angles

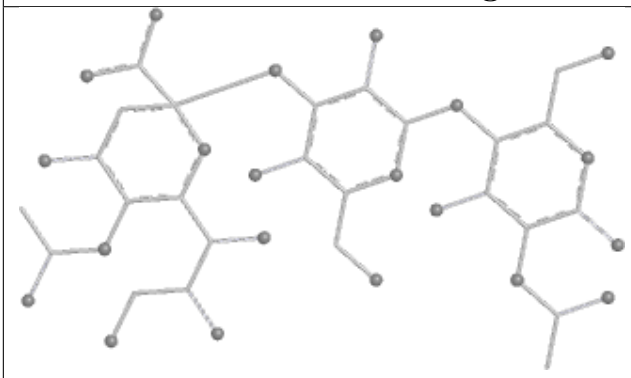


Torsions

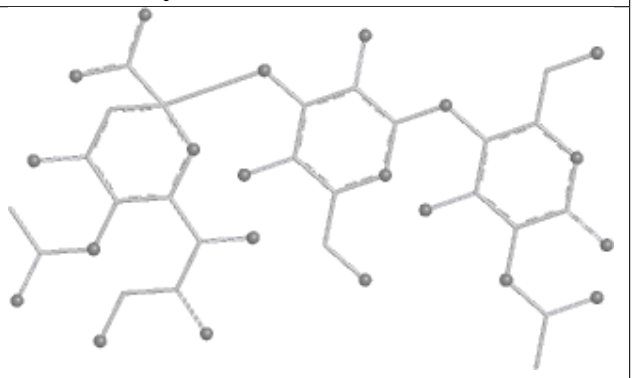


Rings

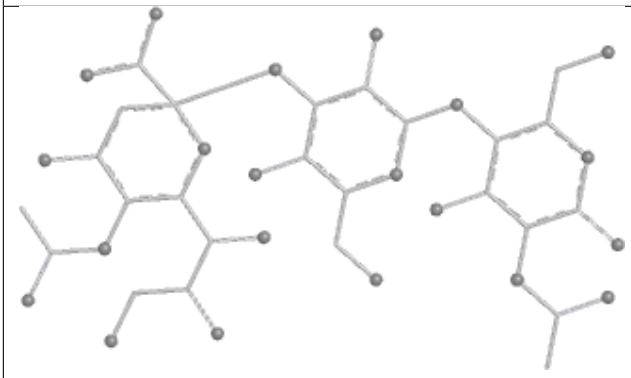
Oligosaccharide Chain QB



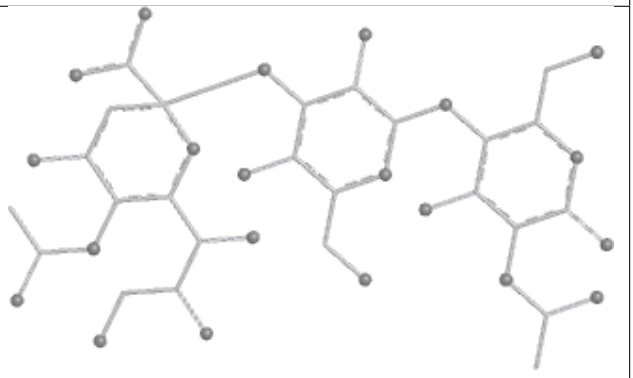
Bond lengths



Bond angles

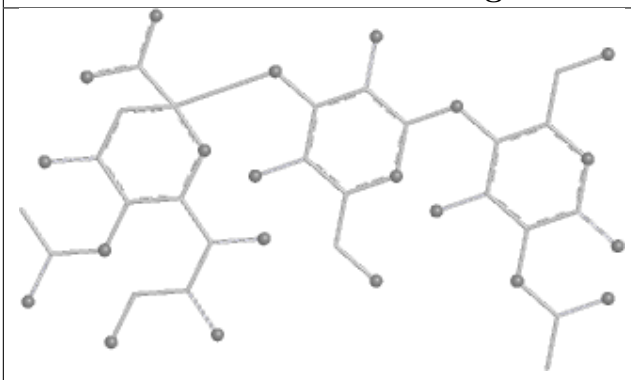


Torsions



Rings

Oligosaccharide Chain SB



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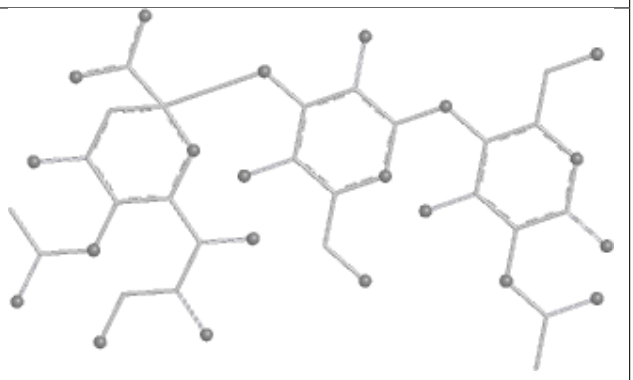
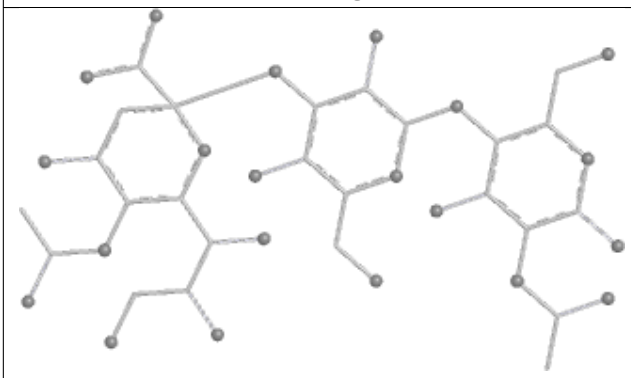
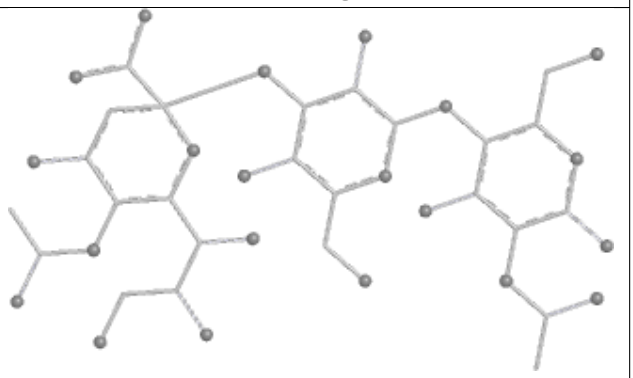


Bond angles

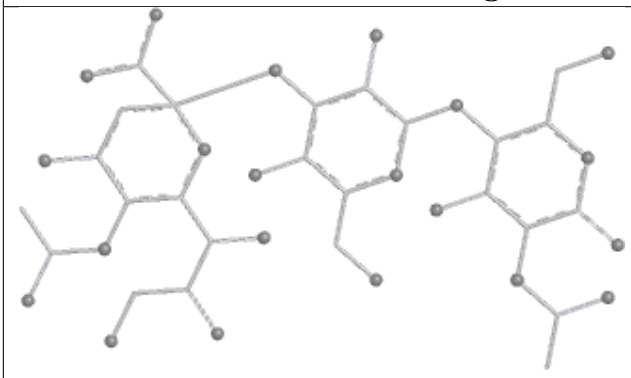


Torsions

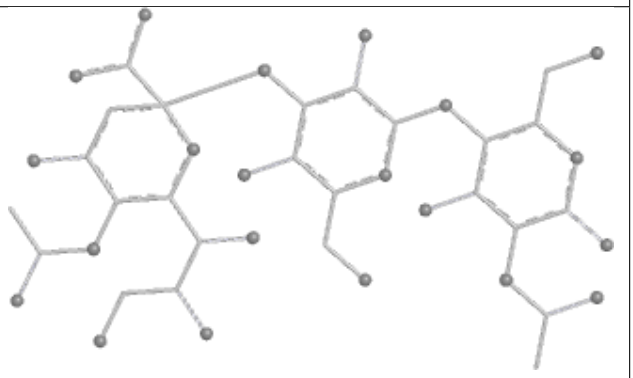


Rings

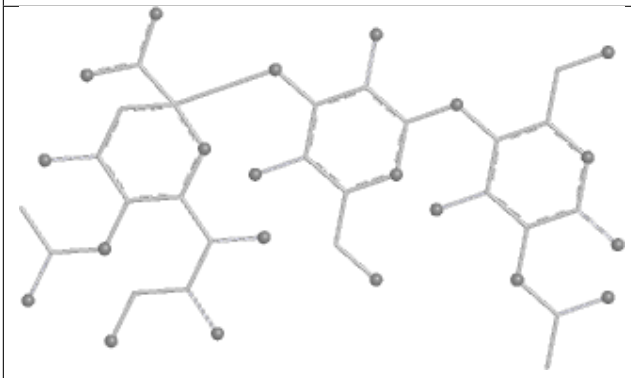
Oligosaccharide Chain TB



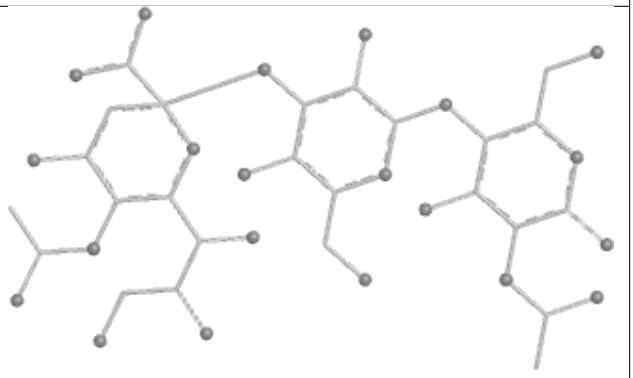
Bond lengths



Bond angles

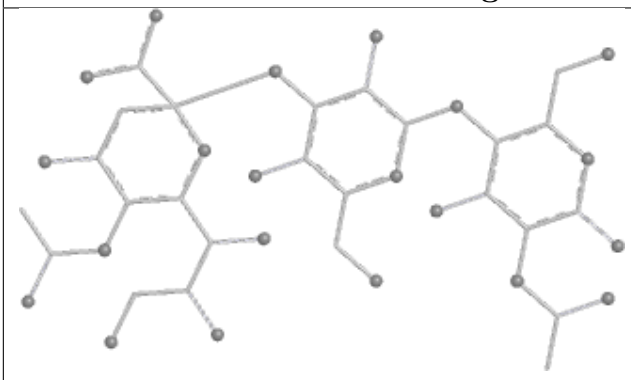


Torsions

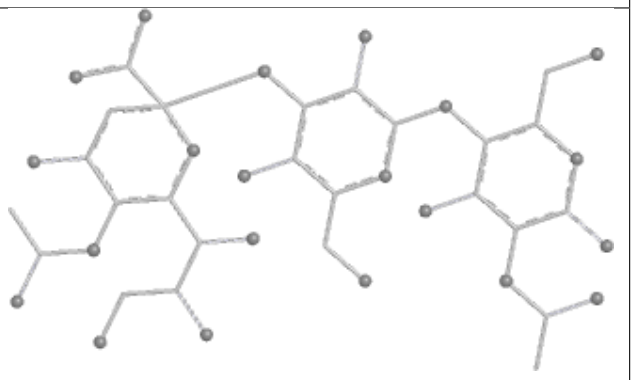


Rings

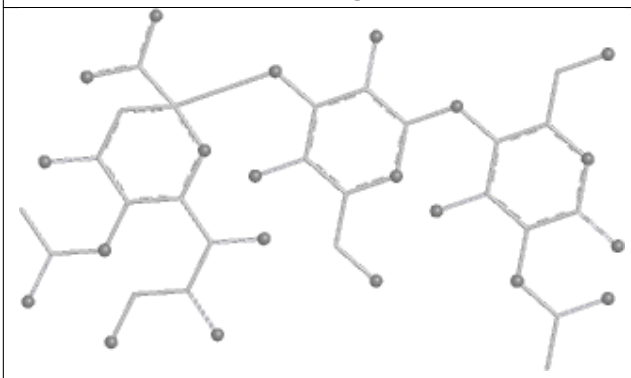
Oligosaccharide Chain VB



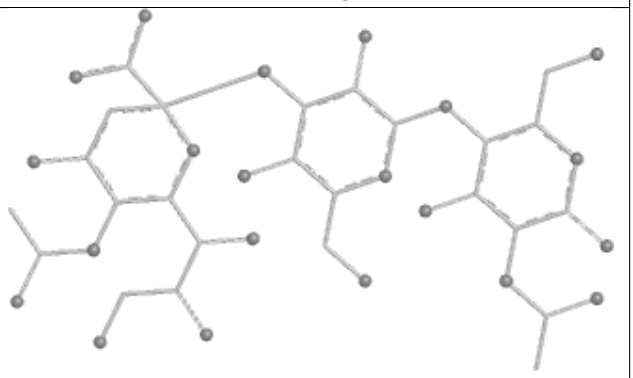
Bond lengths



Bond angles

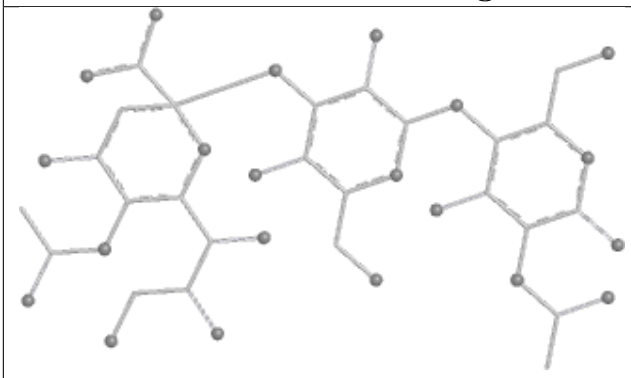


Torsions

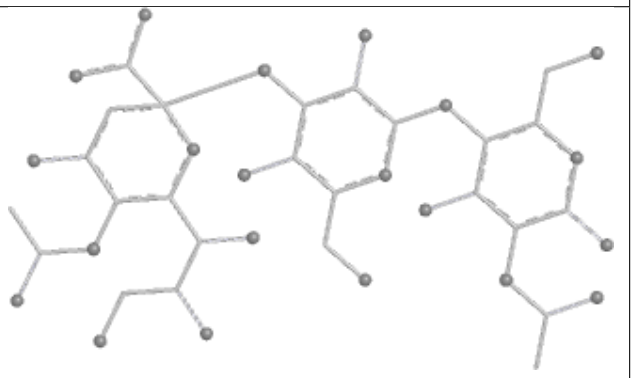


Rings

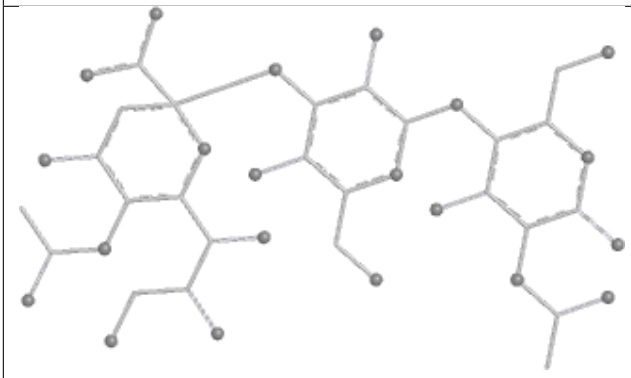
Oligosaccharide Chain WB



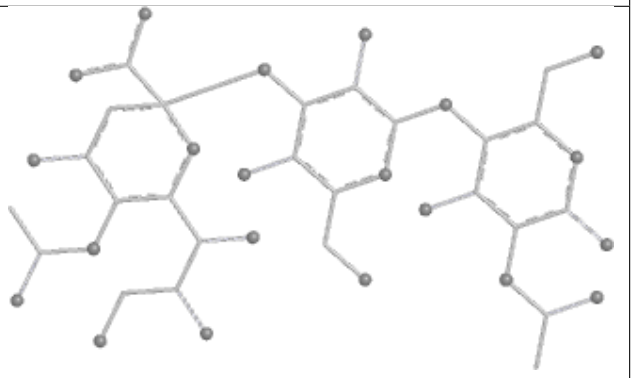
Bond lengths



Bond angles

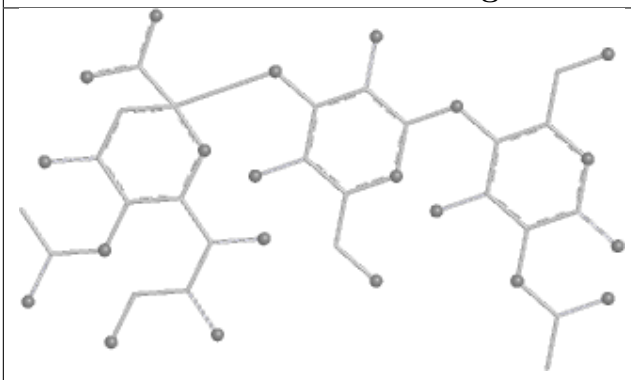


Torsions

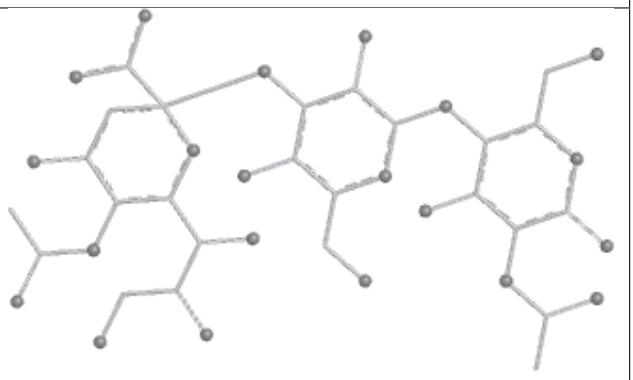


Rings

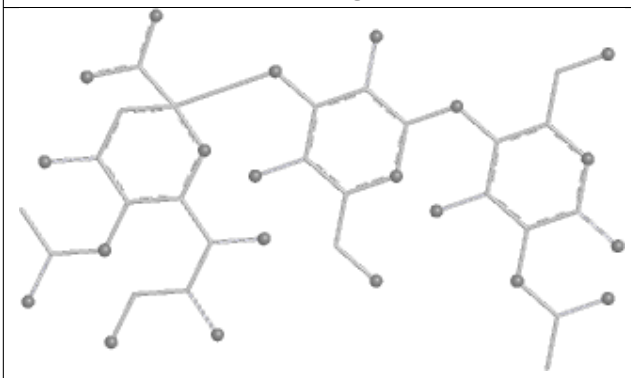
Oligosaccharide Chain YB



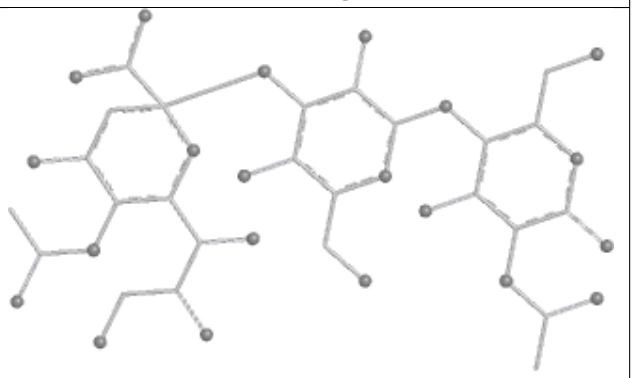
Bond lengths



Bond angles

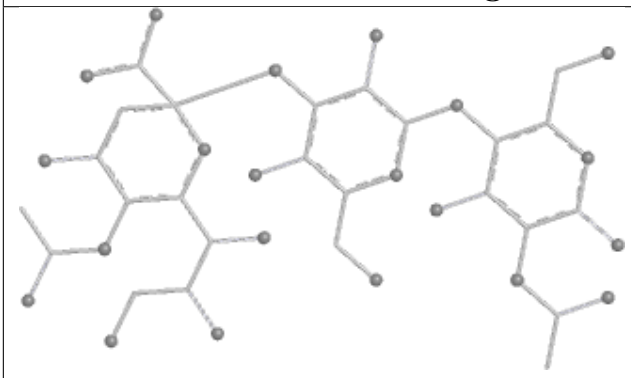


Torsions

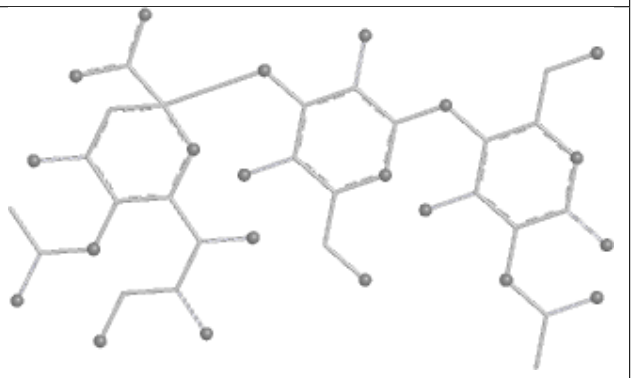


Rings

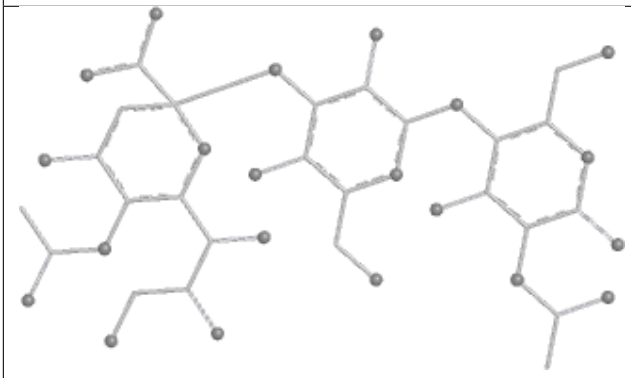
Oligosaccharide Chain ZB



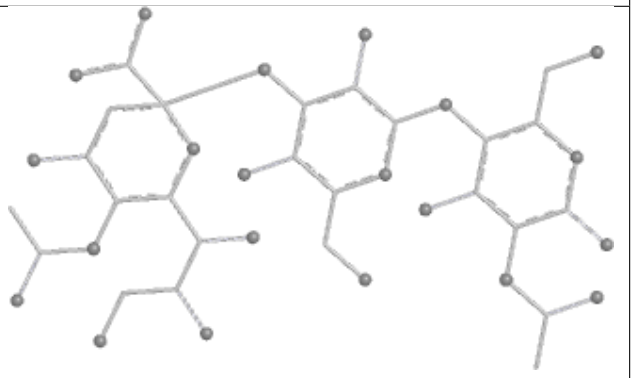
Bond lengths



Bond angles



Torsions



Rings

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

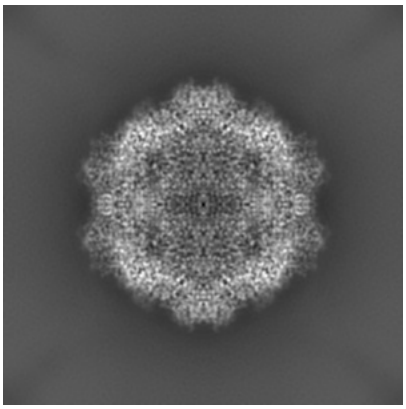
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-49228. These allow visual inspection of the internal detail of the map and identification of artifacts.

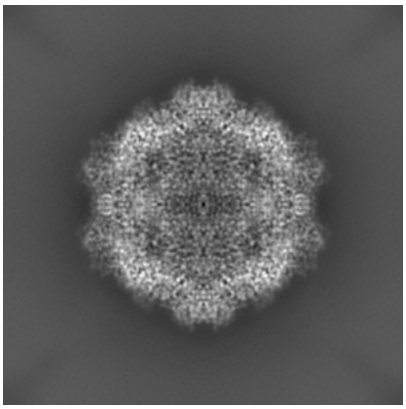
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

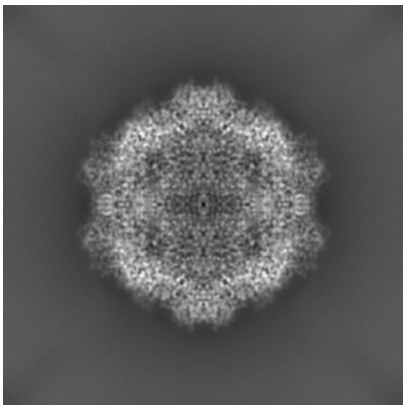
6.1.1 Primary map



X

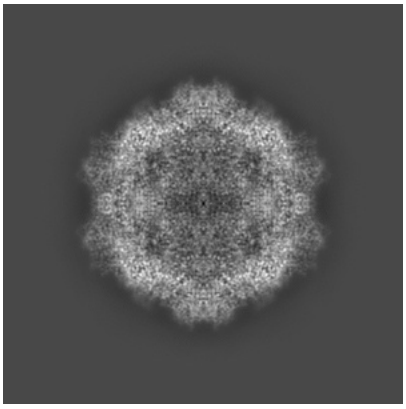


Y

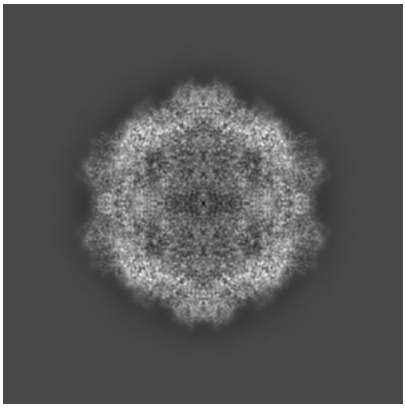


Z

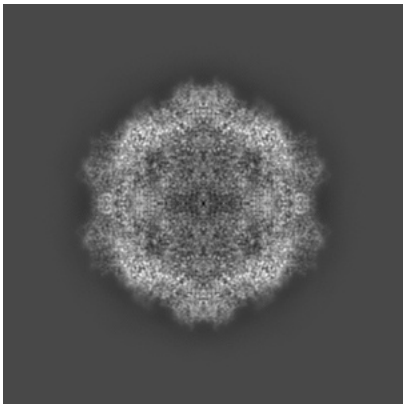
6.1.2 Raw map



X



Y

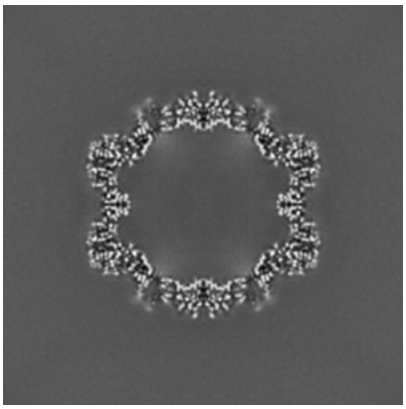


Z

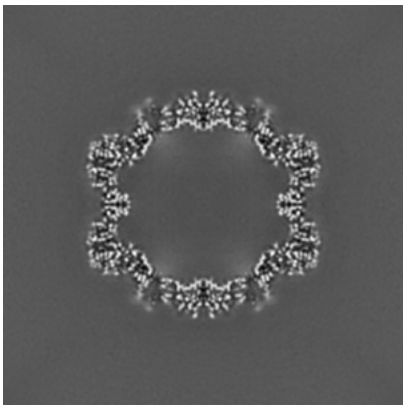
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

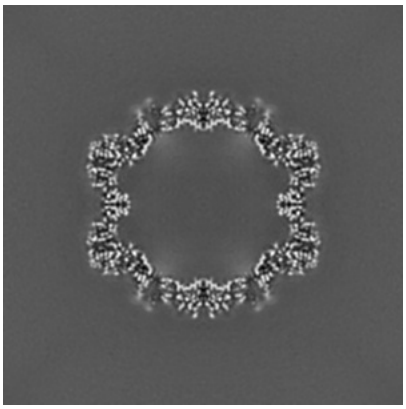
6.2.1 Primary map



X Index: 210

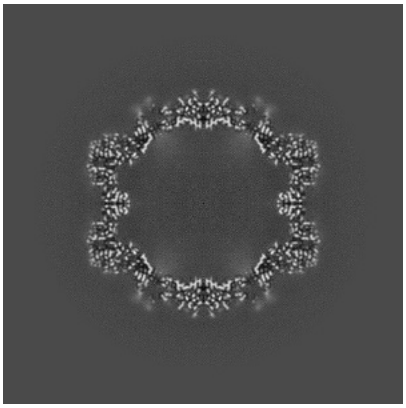


Y Index: 210

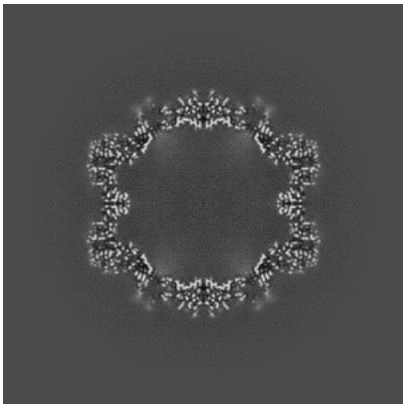


Z Index: 210

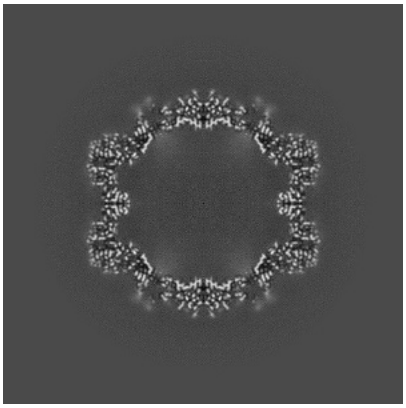
6.2.2 Raw map



X Index: 210



Y Index: 210

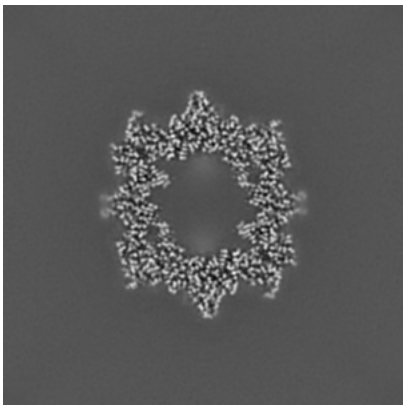


Z Index: 210

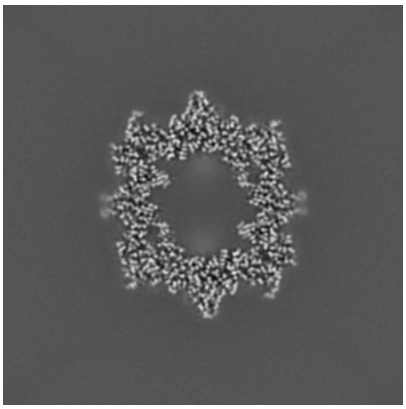
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

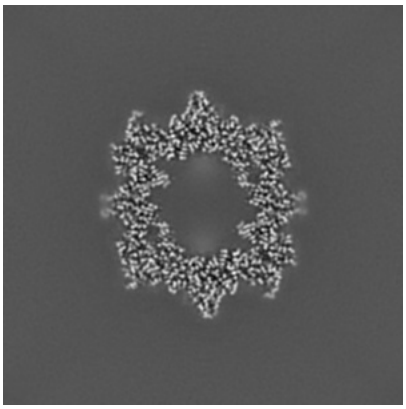
6.3.1 Primary map



X Index: 274

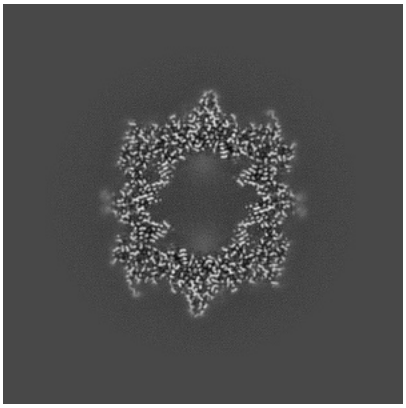


Y Index: 274

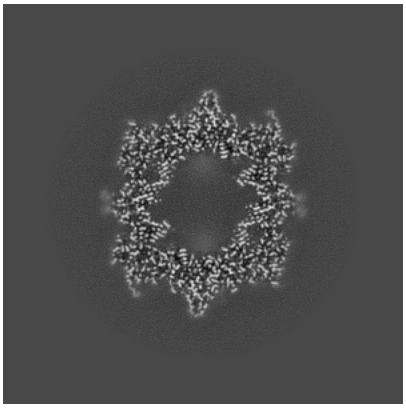


Z Index: 274

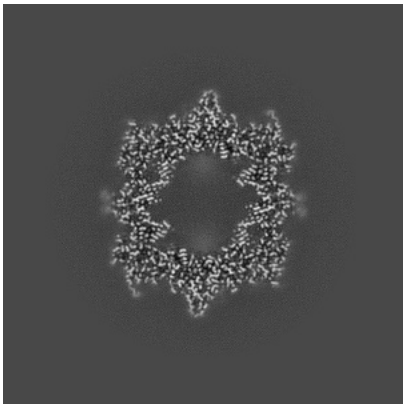
6.3.2 Raw map



X Index: 145



Y Index: 145

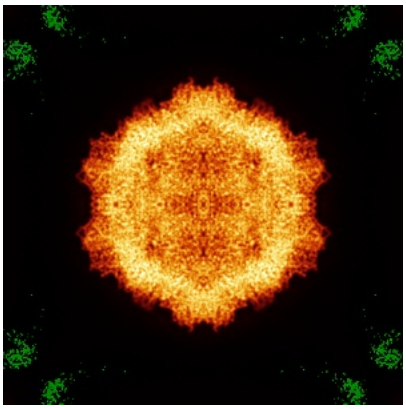


Z Index: 145

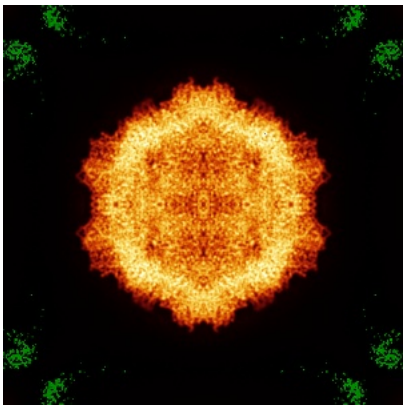
The images above show the largest variance slices of the map in three orthogonal directions.

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

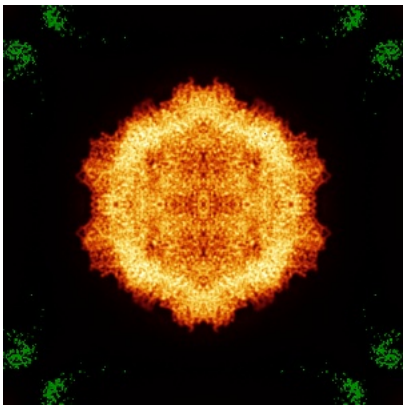
6.4.1 Primary map



X

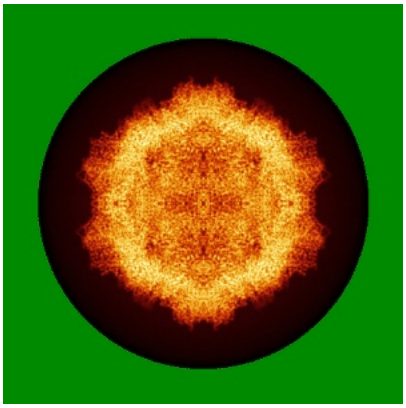


Y

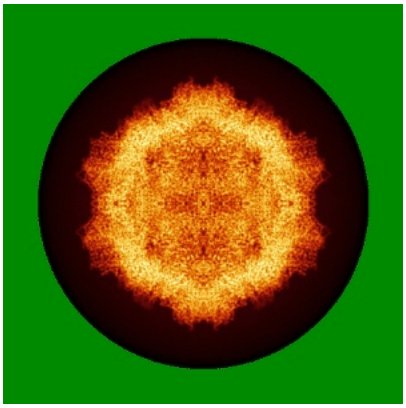


Z

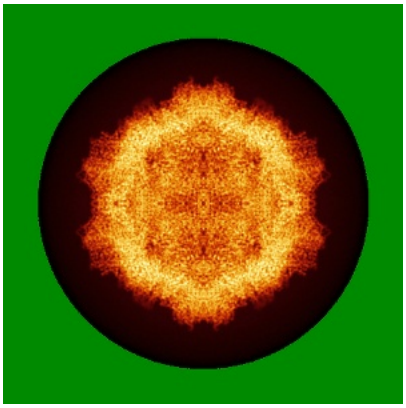
6.4.2 Raw map



X



Y

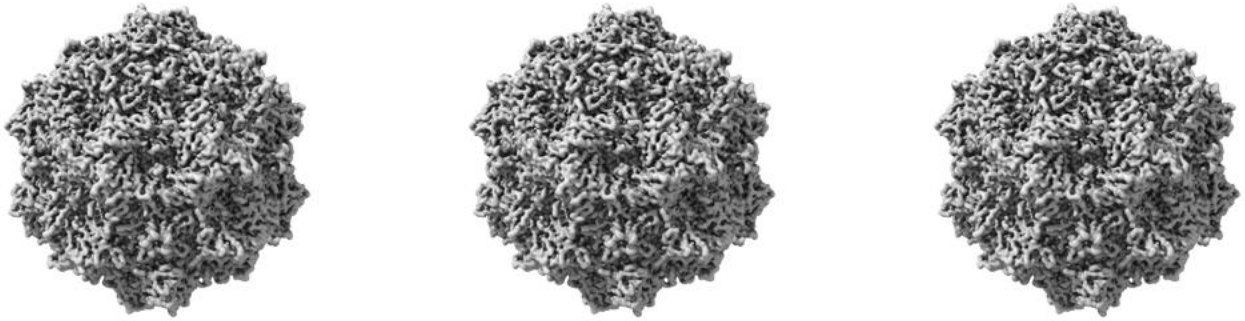


Z

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)

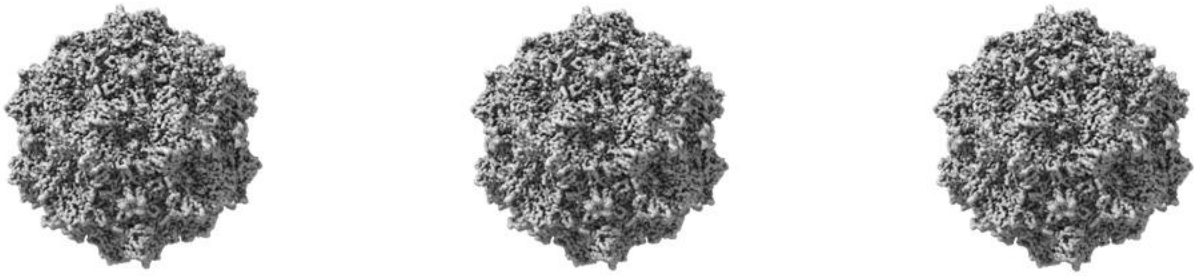
6.5.1 Primary map



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.

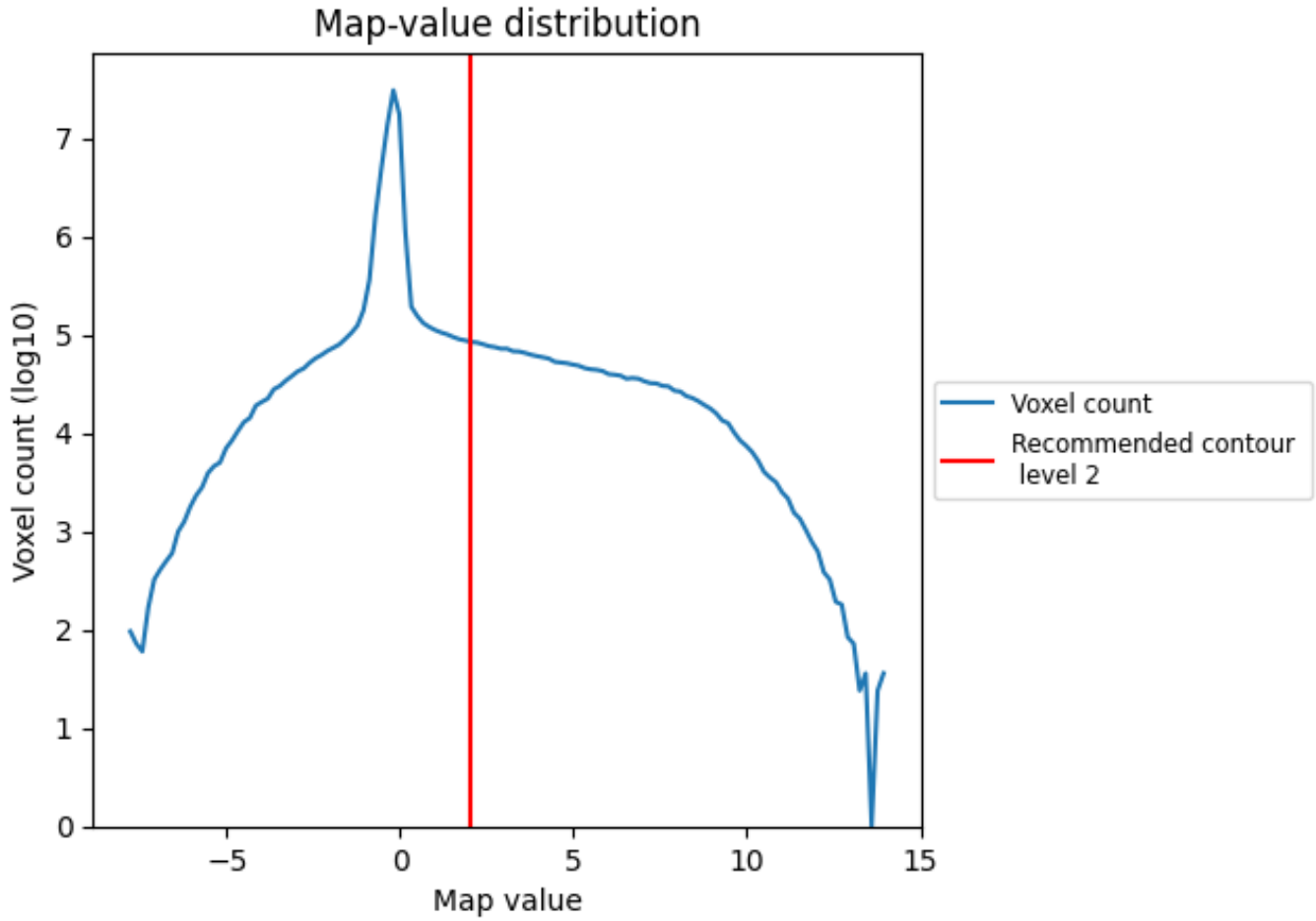
6.6 Mask visualisation (i)

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

7 Map analysis

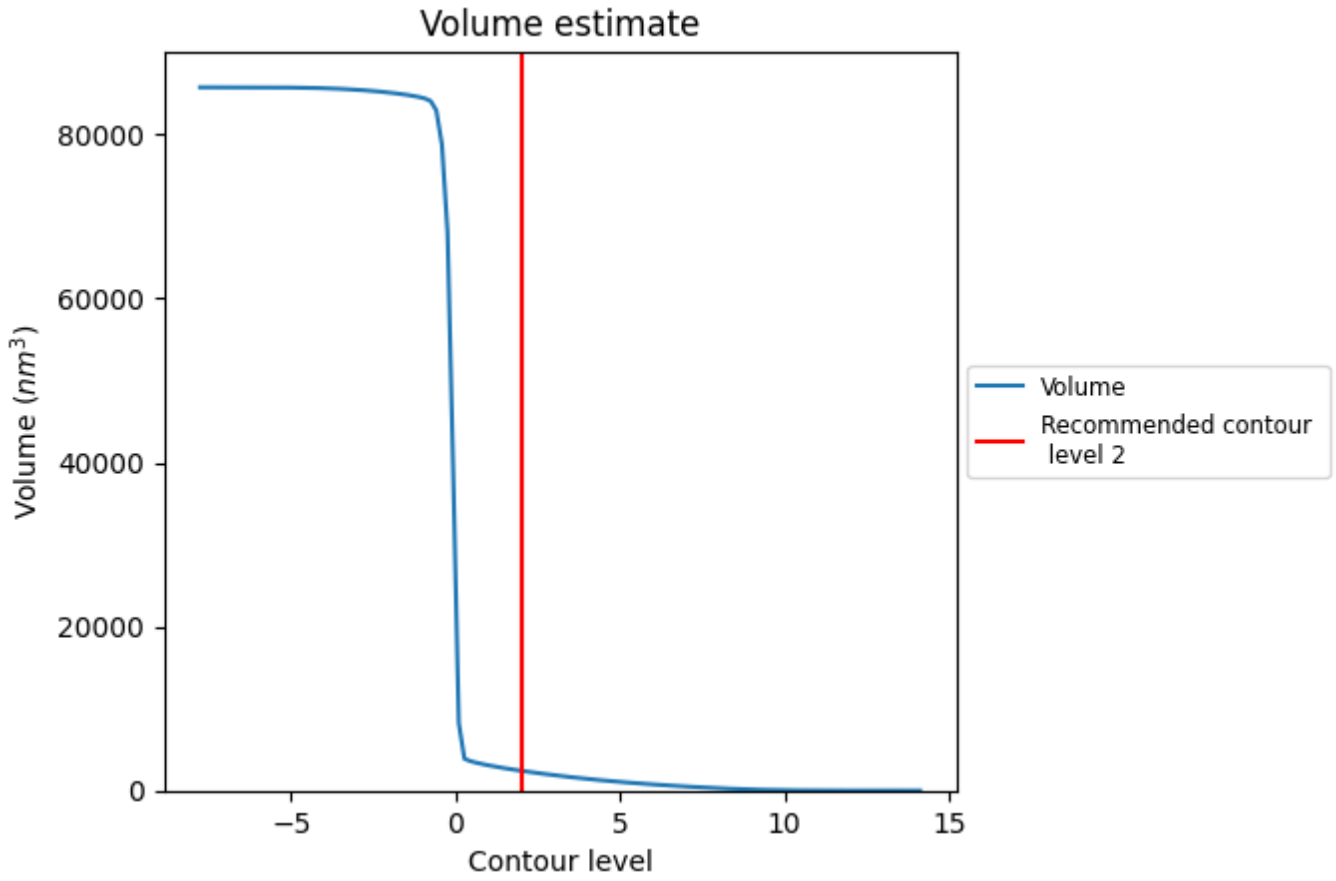
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

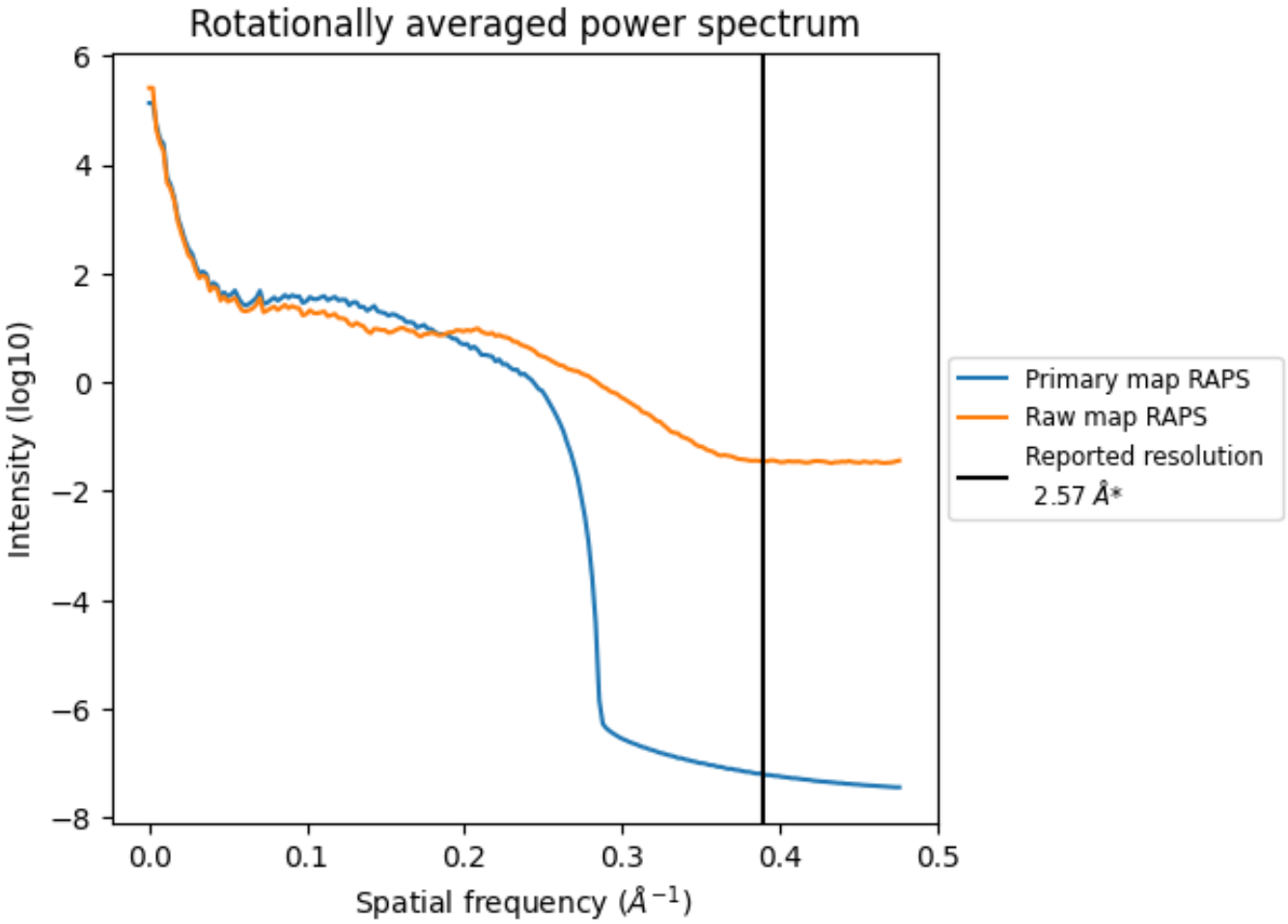
7.2 Volume estimate



The volume at the recommended contour level is 2407 nm^3; this corresponds to an approximate mass of 2174 kDa.

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

7.3 Rotationally averaged power spectrum (i)

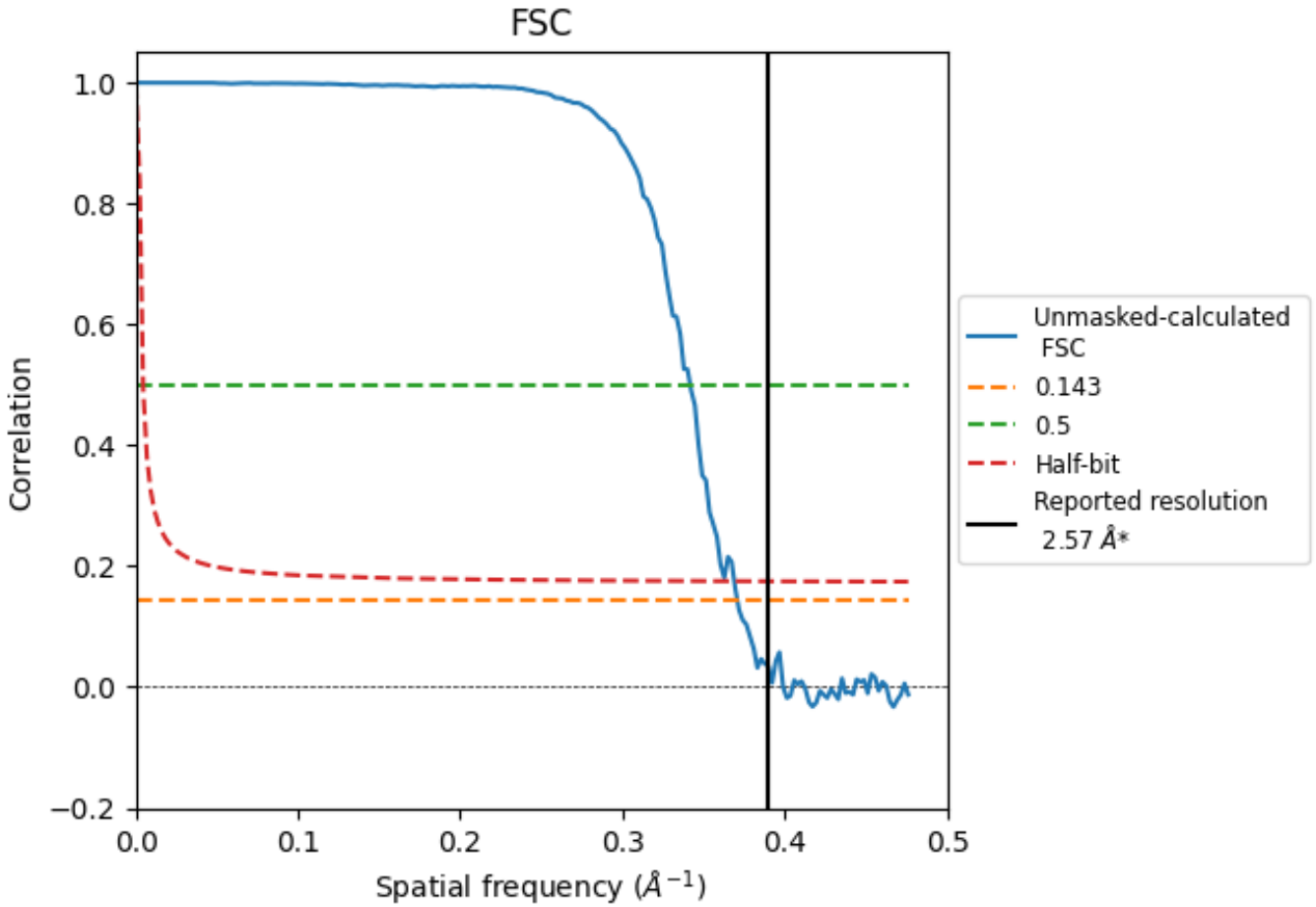


*Reported resolution corresponds to spatial frequency of 0.389 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.389 Å^{-1}

8.2 Resolution estimates (i)

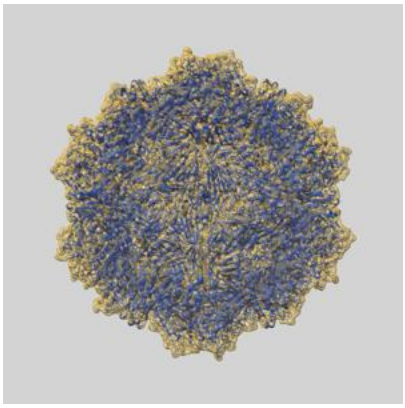
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.57	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.70	2.93	2.71

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

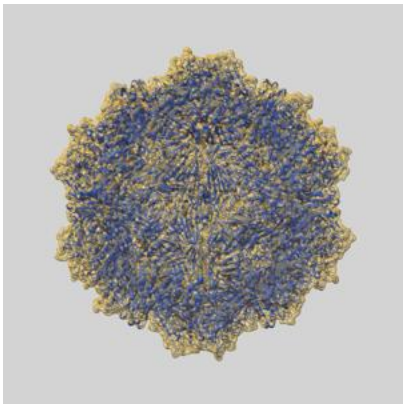
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-49228 and PDB model 9NBG. Per-residue inclusion information can be found in section 3 on page 15.

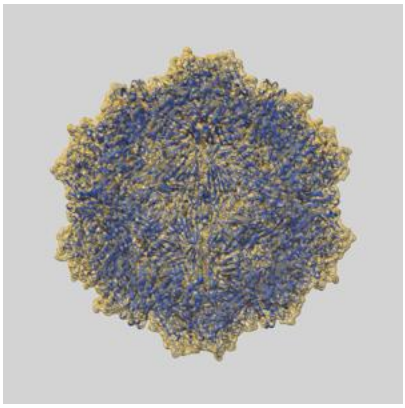
9.1 Map-model overlay



X



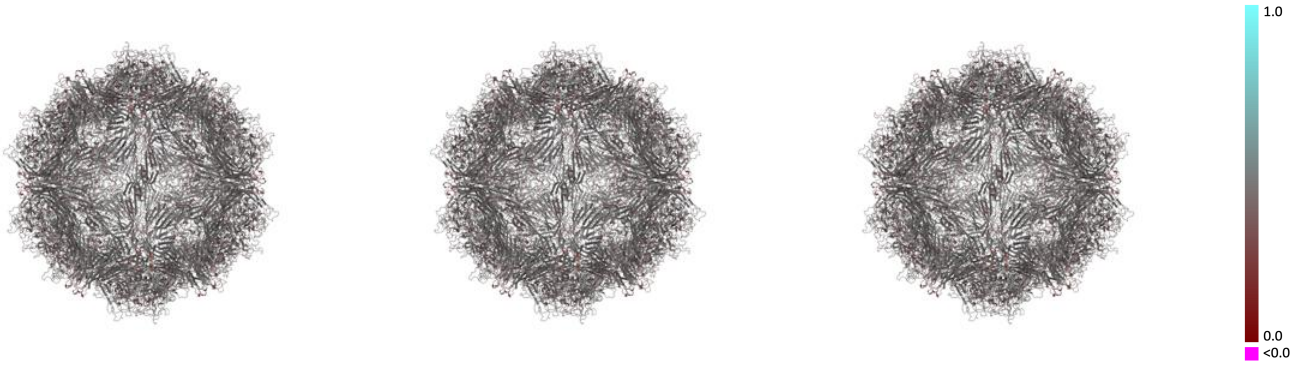
Y



Z

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.

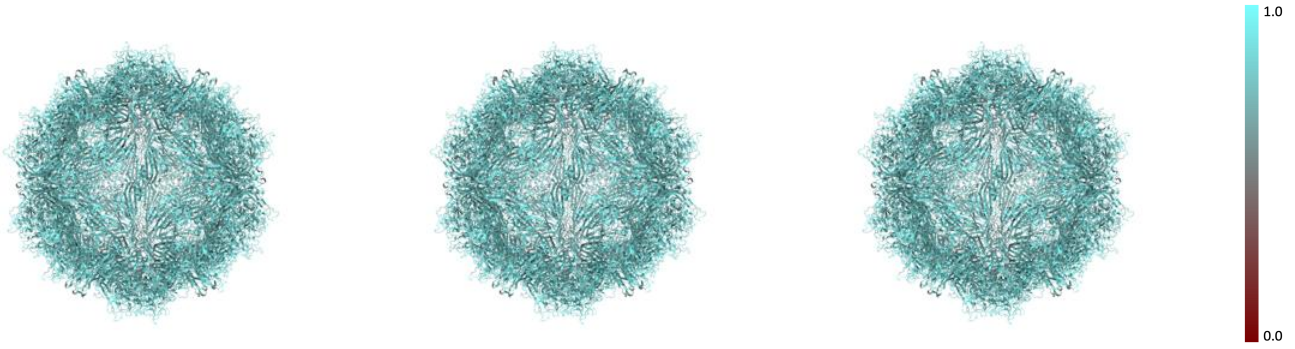
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

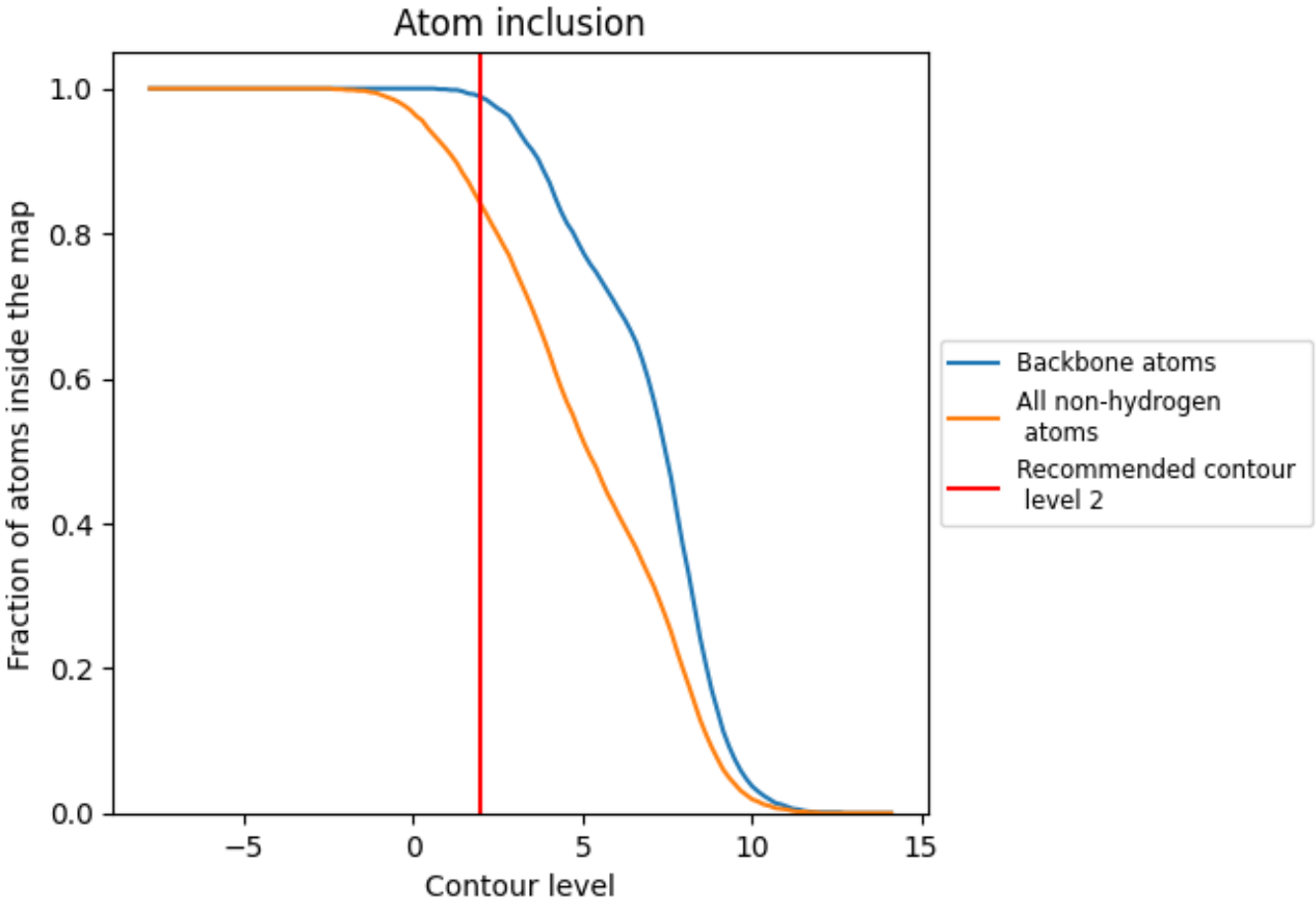
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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

9.4 Atom inclusion (i)



At the recommended contour level, 99% of all backbone atoms, 84% 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	0.8400	0.4350
1	0.8490	0.4380
1A	0.0220	0.2530
2	0.8490	0.4380
2A	0.0220	0.2530
3	0.8470	0.4360
4	0.8520	0.4370
4A	0.0000	0.2530
5	0.8480	0.4370
5A	0.0000	0.2470
6	0.8480	0.4360
7	0.8480	0.4360
7A	0.0220	0.2540
8	0.8500	0.4380
8A	0.0000	0.2490
9	0.0220	0.2540
A	0.8470	0.4350
AA	0.0220	0.2360
AB	0.0220	0.2390
B	0.8490	0.4360
BB	0.0220	0.2430
C	0.8520	0.4350
CA	0.0220	0.2520
D	0.8480	0.4370
DA	0.0000	0.2480
DB	0.0220	0.2430
E	0.8500	0.4370
EB	0.0220	0.2410
F	0.8470	0.4350
FA	0.0000	0.2390
G	0.8500	0.4370
GA	0.0000	0.2420
GB	0.0220	0.2490
H	0.8480	0.4350
HB	0.0220	0.2460

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Chain	Atom inclusion	Q-score
I	0.8520	0.4370
IA	0.0220	0.2410
J	0.8490	0.4380
JA	0.0220	0.2380
JB	0.0220	0.2360
K	0.8520	0.4360
KB	0.0220	0.2510
L	0.8490	0.4370
LA	0.0220	0.2400
M	0.8500	0.4360
MA	0.0220	0.2410
MB	0.0220	0.2390
N	0.8480	0.4350
NB	0.0220	0.2370
O	0.8500	0.4360
OA	0.0220	0.2330
P	0.8480	0.4340
PA	0.0220	0.2340
PB	0.0220	0.2550
Q	0.8520	0.4350
QB	0.0220	0.2390
R	0.8490	0.4370
RA	0.0000	0.2420
S	0.8490	0.4370
SA	0.0000	0.2450
SB	0.0220	0.2430
T	0.8520	0.4360
TB	0.0220	0.2470
U	0.8490	0.4360
UA	0.0000	0.2510
V	0.8520	0.4360
VA	0.0220	0.2410
VB	0.0220	0.2360
W	0.8480	0.4360
WB	0.0220	0.2490
X	0.8500	0.4360
XA	0.0220	0.2400
Y	0.8480	0.4370
YA	0.0220	0.2370
YB	0.0220	0.2460
Z	0.8500	0.4360
ZB	0.0220	0.2400

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Chain	Atom inclusion	Q-score
a	0.8470	0.4370
aA	0.0220	0.2390
b	0.8470	0.4370
bA	0.0220	0.2410
c	0.8470	0.4360
d	0.8470	0.4350
dA	0.0220	0.2410
e	0.8470	0.4360
eA	0.0220	0.2440
f	0.8470	0.4350
g	0.8520	0.4370
gA	0.0000	0.2450
h	0.8500	0.4370
hA	0.0220	0.2490
i	0.8480	0.4350
j	0.8480	0.4370
jA	0.0220	0.2490
k	0.8480	0.4370
kA	0.0220	0.2450
l	0.8500	0.4370
m	0.8520	0.4370
mA	0.0220	0.2360
n	0.8470	0.4360
nA	0.0220	0.2420
o	0.8500	0.4380
p	0.8520	0.4370
pA	0.0220	0.2440
q	0.8490	0.4380
qA	0.0220	0.2390
r	0.8490	0.4360
s	0.8490	0.4380
sA	0.0000	0.2460
t	0.8500	0.4380
tA	0.0220	0.2460
u	0.8520	0.4370
v	0.8470	0.4360
vA	0.0000	0.2480
w	0.8500	0.4370
wA	0.0220	0.2530
x	0.8520	0.4360
y	0.8470	0.4370
yA	0.0220	0.2480

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Chain	Atom inclusion	Q-score
z	0.8490	0.4390
zA	0.0220	0.2560