



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 09:54 AM UTC

PDB ID : 6WH7 / pdb_00006wh7
EMDB ID : EMD-21668
Title : Capsid structure of Penaeus monodon metallodensovirus following EDTA treatment
Authors : Penzes, J.J.; Pham, H.T.; Chipman, P.; Bhattacharya, N.; McKenna, R.; Agbandje-McKenna, M.; Tijssen, P.
Deposited on : 2020-04-07
Resolution : 2.78 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

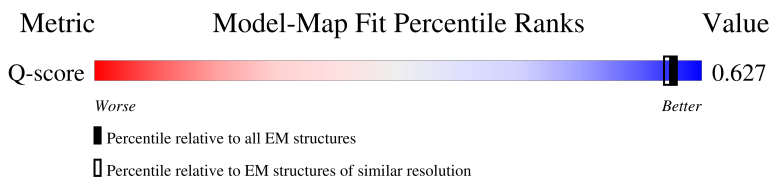
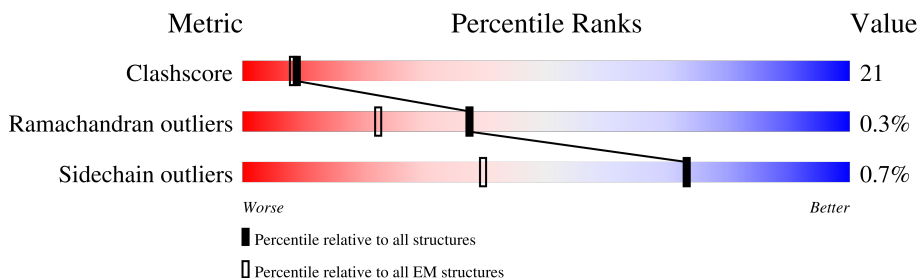
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

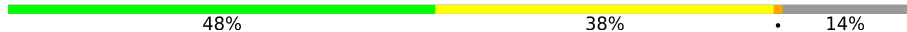
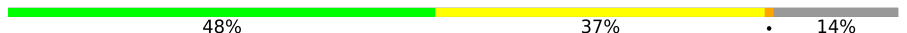
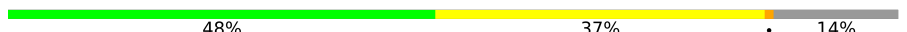
The reported resolution of this entry is 2.78 Å.

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



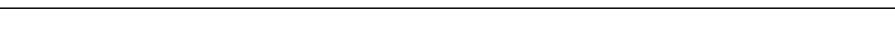
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10754 (2.28 - 3.28)

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

Mol	Chain	Length	Quality of chain
1	1	369	
1	2	369	
1	3	369	
1	4	369	

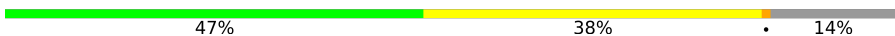
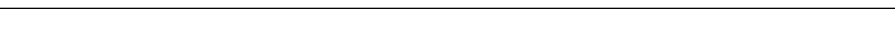
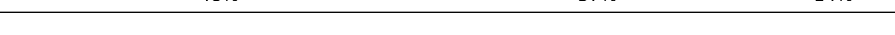
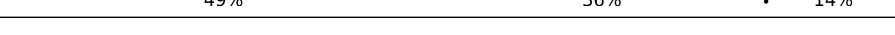
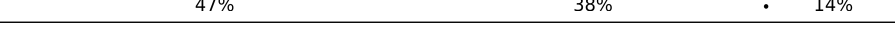
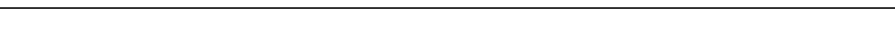
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Mol	Chain	Length	Quality of chain
1	5	369	
1	6	369	
1	7	369	
1	8	369	
1	A	369	
1	B	369	
1	C	369	
1	D	369	
1	E	369	
1	F	369	
1	G	369	
1	H	369	
1	I	369	
1	J	369	
1	K	369	
1	L	369	
1	M	369	
1	N	369	
1	O	369	
1	P	369	
1	Q	369	
1	R	369	
1	S	369	
1	T	369	
1	U	369	

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Mol	Chain	Length	Quality of chain
1	V	369	
1	W	369	
1	X	369	
1	Y	369	
1	Z	369	
1	a	369	
1	b	369	
1	c	369	
1	d	369	
1	e	369	
1	f	369	
1	g	369	
1	h	369	
1	i	369	
1	j	369	
1	k	369	
1	l	369	
1	m	369	
1	n	369	
1	o	369	
1	p	369	
1	q	369	
1	r	369	
1	s	369	
1	t	369	

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Mol	Chain	Length	Quality of chain
1	u	369	
1	v	369	
1	w	369	
1	x	369	
1	y	369	
1	z	369	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 151800 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 Penaeus monodon metallogenovirus major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	B	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	C	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	D	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	E	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	F	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	G	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	H	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	I	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	J	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	K	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	L	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	M	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	N	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	O	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	P	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	Q	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	S	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	T	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	U	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	V	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	W	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	X	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	Y	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	Z	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	1	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	2	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	3	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	4	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	5	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	6	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	a	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	b	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	c	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	d	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	e	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	f	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	h	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	i	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	j	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	k	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	l	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	m	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	n	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	o	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	p	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	q	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	r	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	s	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	t	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	u	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	v	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	w	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	x	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	y	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	z	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		
1	7	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		

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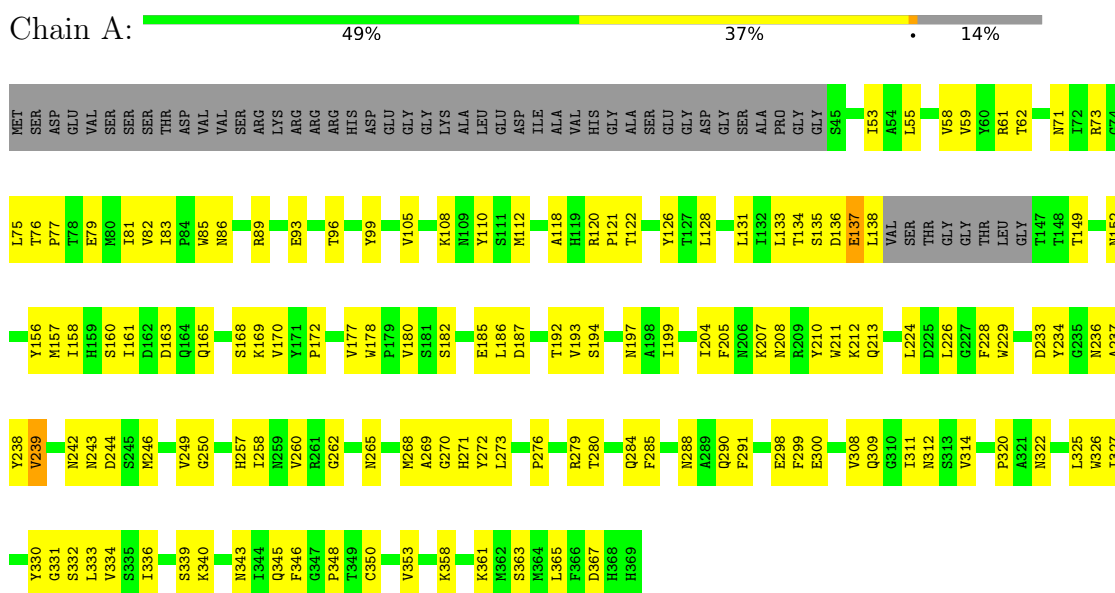
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	317	Total	C	N	O	S	0	0
			2530	1603	436	477	14		

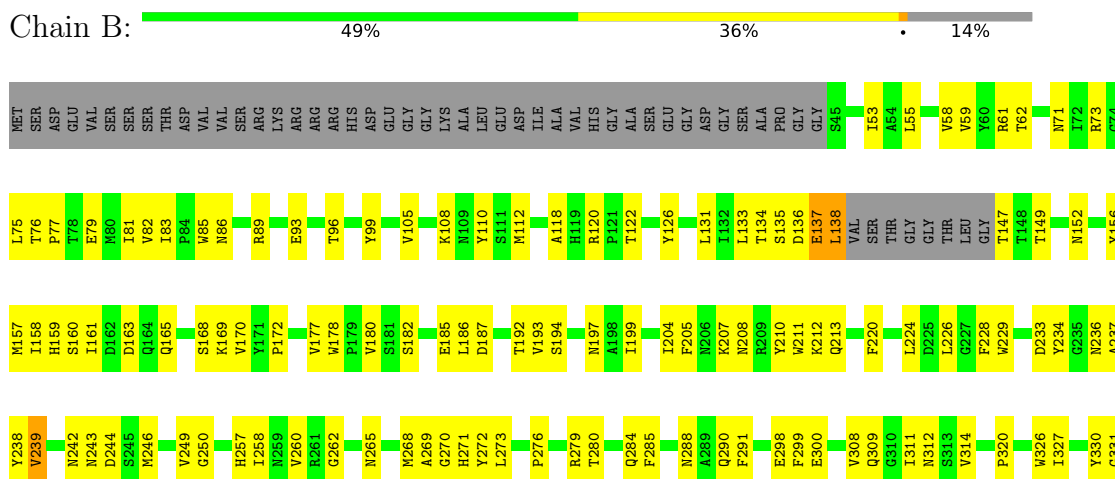
3 Residue-property plots

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

- Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein



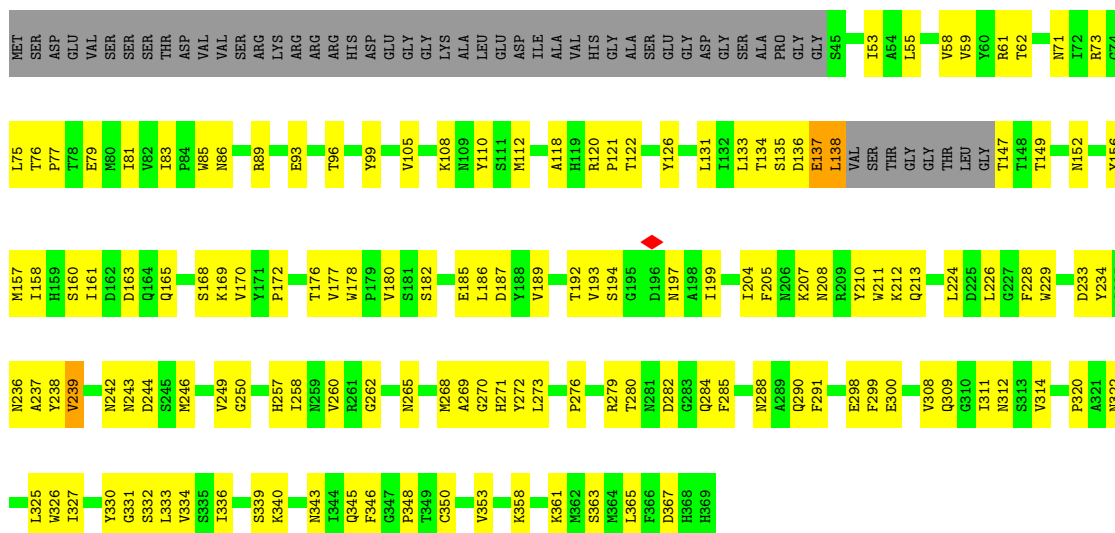
- Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein





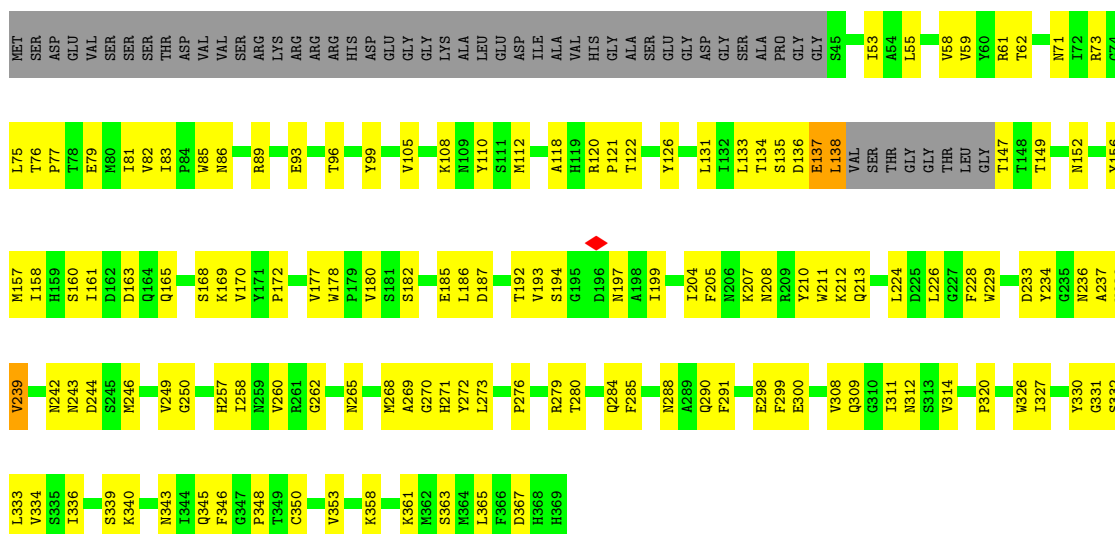
- Molecule 1: *Penaeus monodon* metalloidensovirus major capsid protein

Chain C: 48% 37% 14%



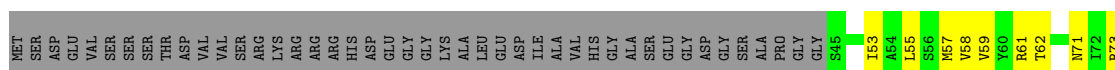
- Molecule 1: *Penaeus monodon* metalloidensovirus major capsid protein

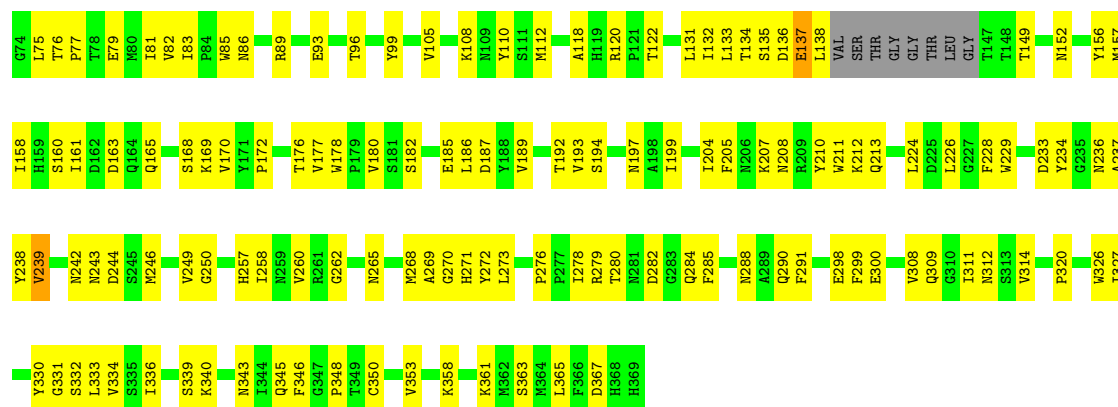
Chain D: 49% 36% 14%



- Molecule 1: *Penaeus monodon* metalloidensovirus major capsid protein

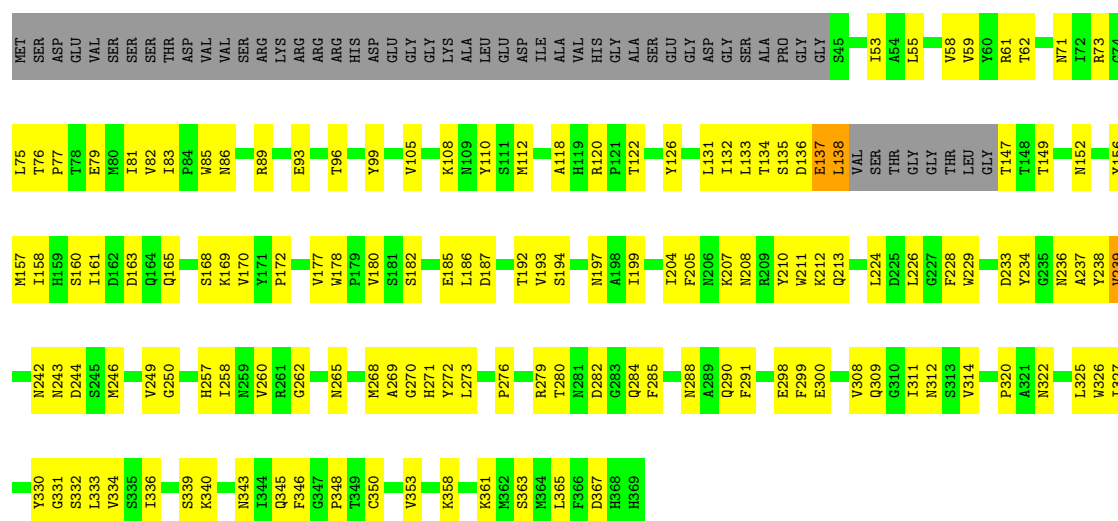
Chain E: 48% 37% 14%





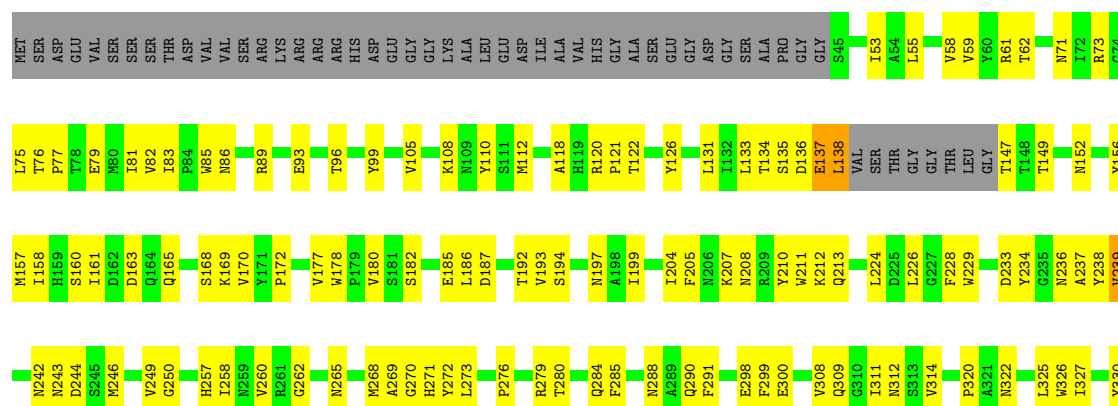
• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

Chain F: 48% 37% 14%



• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

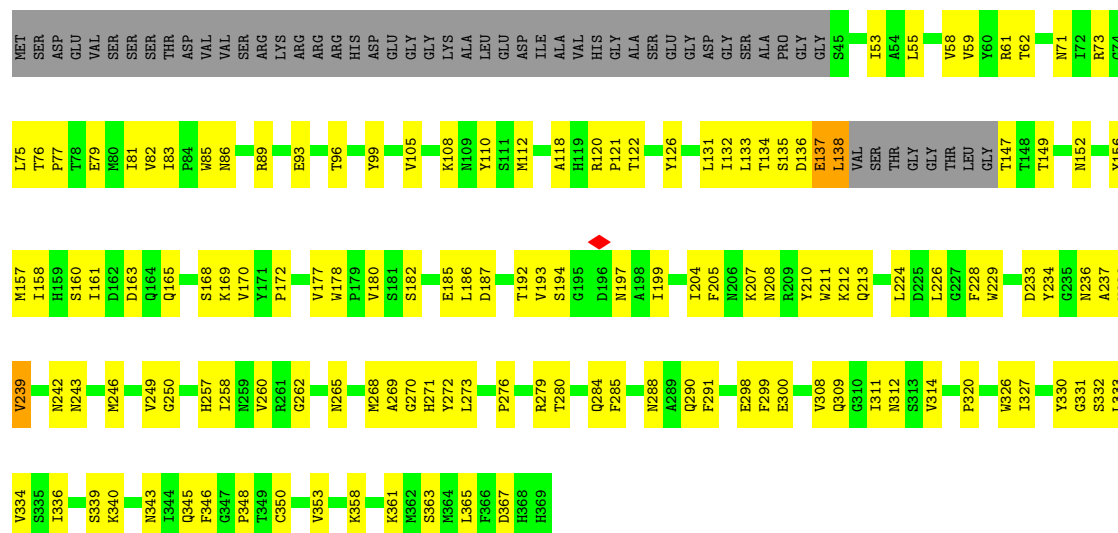
Chain G: 49% 37% 14%





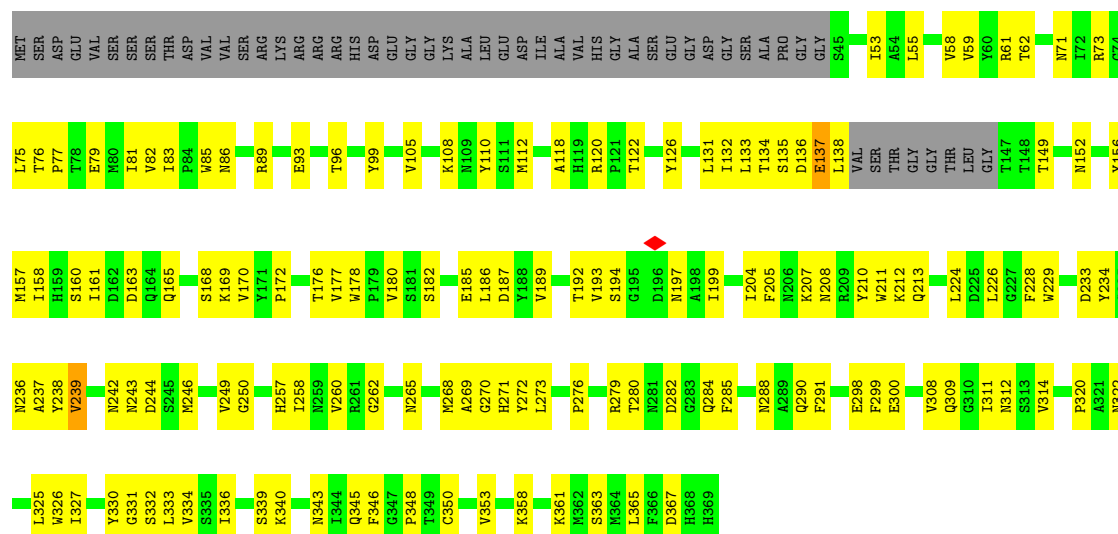
- Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain H: 49% 36% 14%



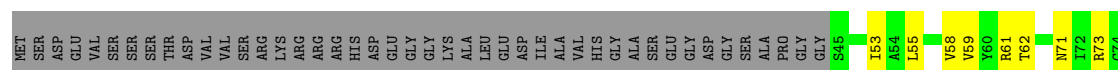
- Molecule 1: Penaeus monodon metallodensovirus major capsid protein

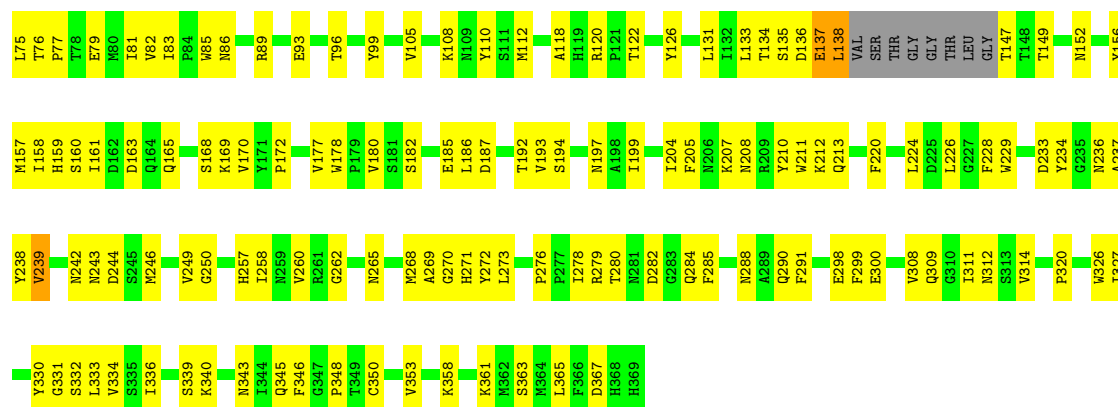
Chain I: 48% 37% 14%



- Molecule 1: Penaeus monodon metallodensovirus major capsid protein

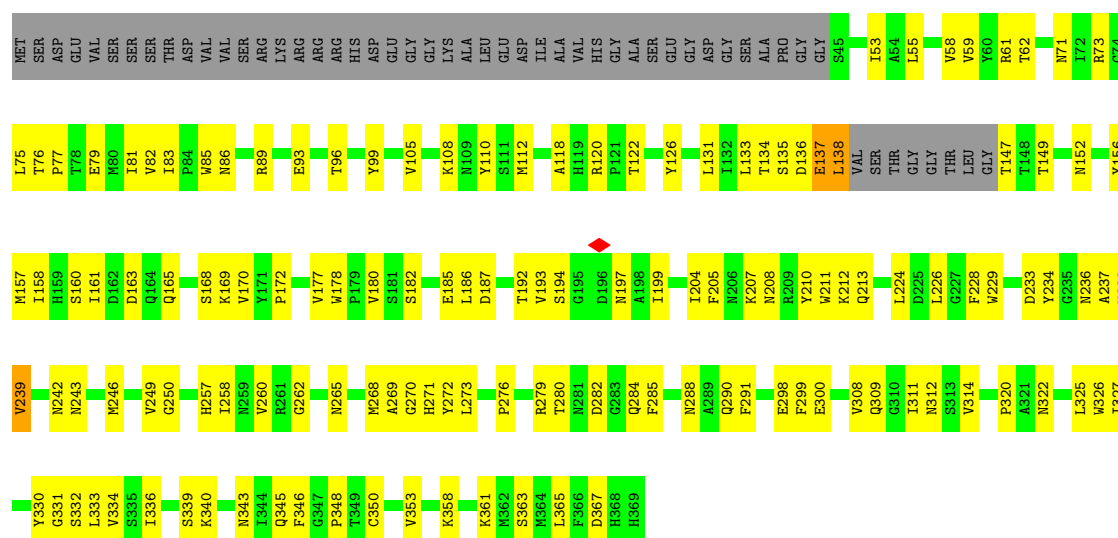
Chain J: 48% 37% 14%





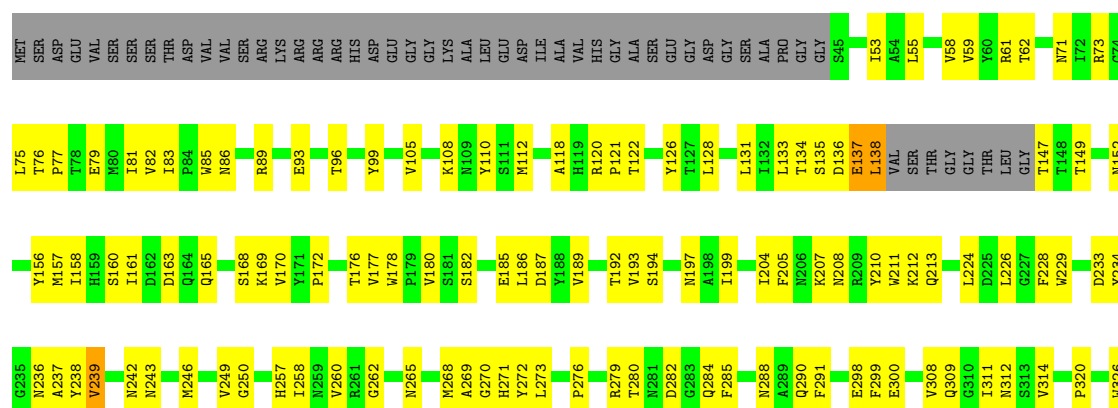
• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

Chain K: 49% 36% 14%



• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

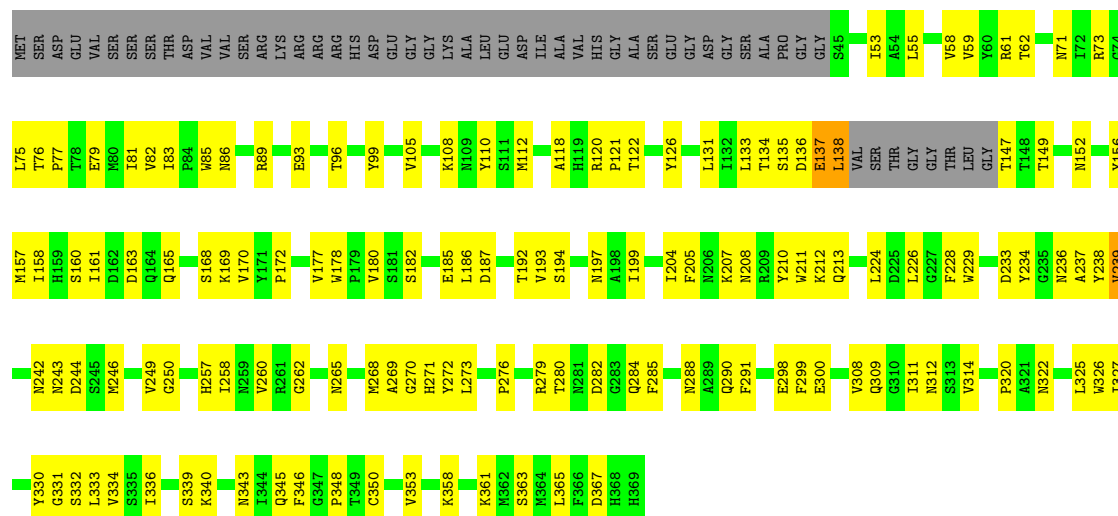
Chain L: 48% 37% 14%





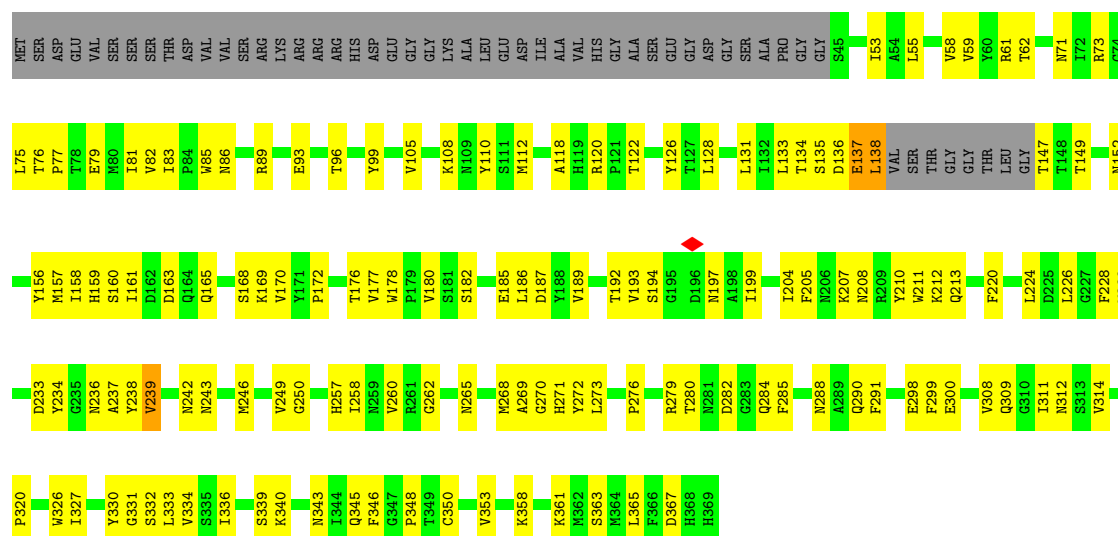
- Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain M: 48% 37% 14%



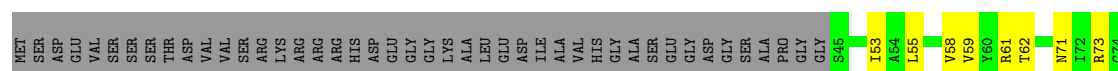
- Molecule 1: Penaeus monodon metallodensovirus major capsid protein

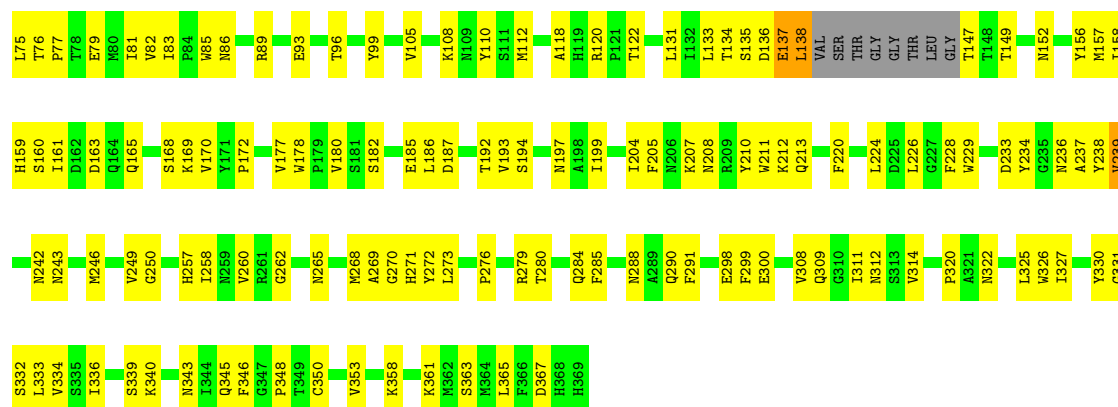
Chain N: 48% 37% 14%



- Molecule 1: Penaeus monodon metallodensovirus major capsid protein

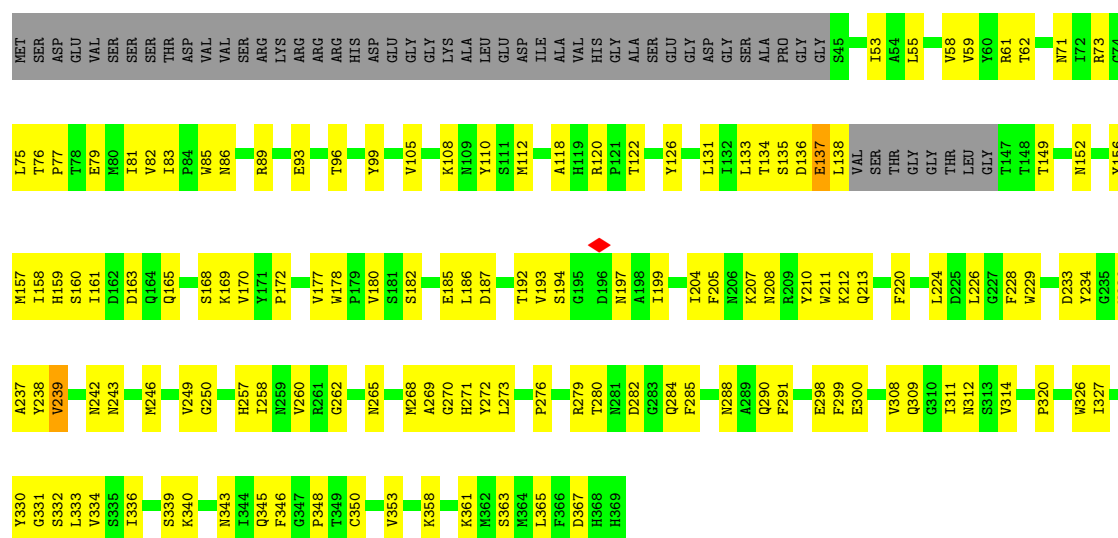
Chain O: 49% 36% 14%





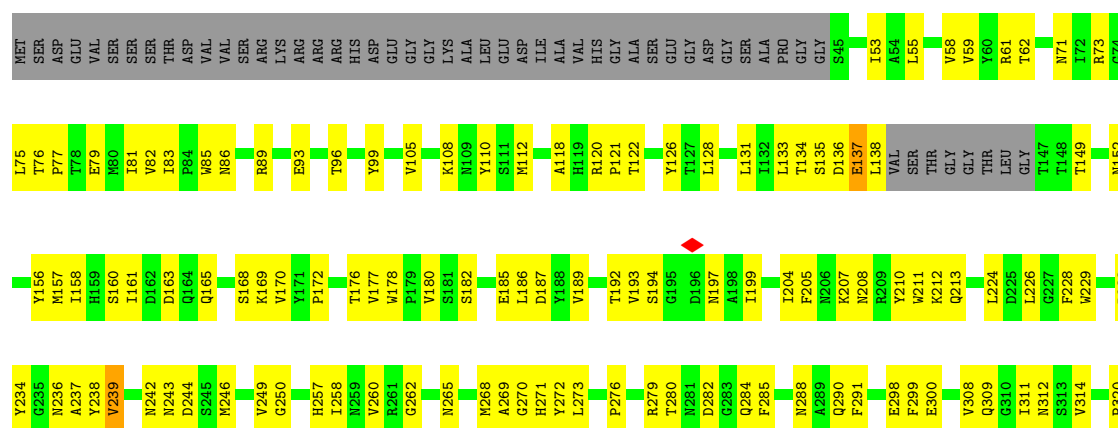
• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

Chain P: 49% 36% 14%



• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

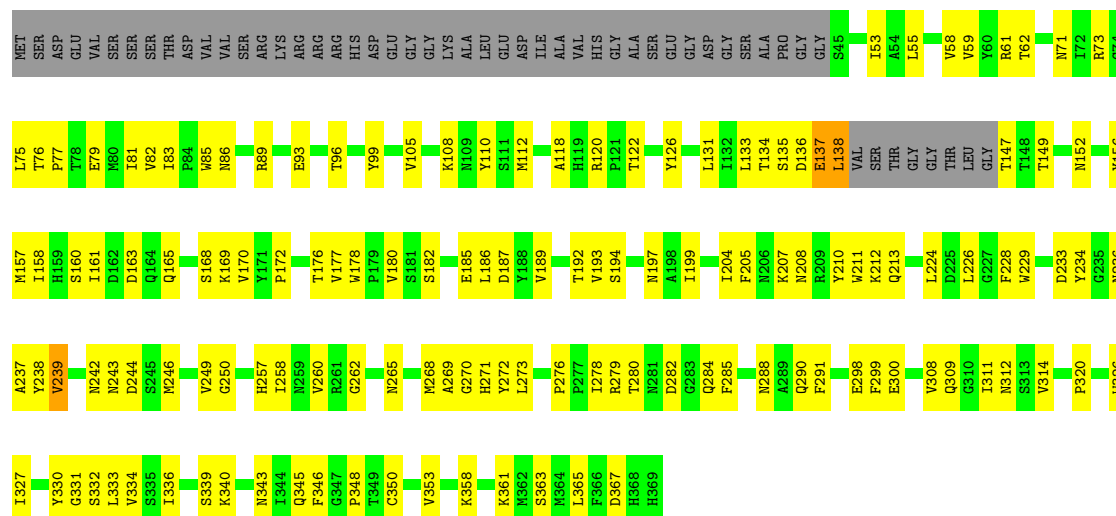
Chain Q: 48% 37% 14%





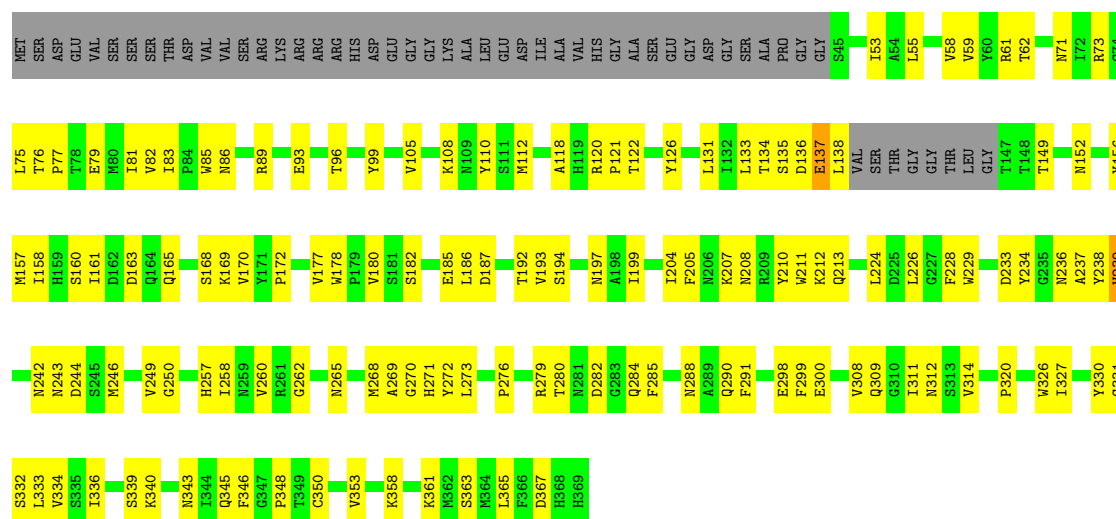
- Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

Chain R: 48% 37% 14%



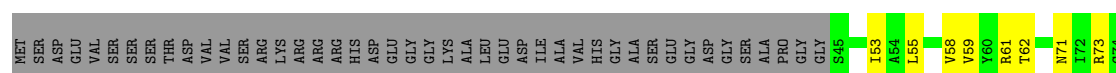
- Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

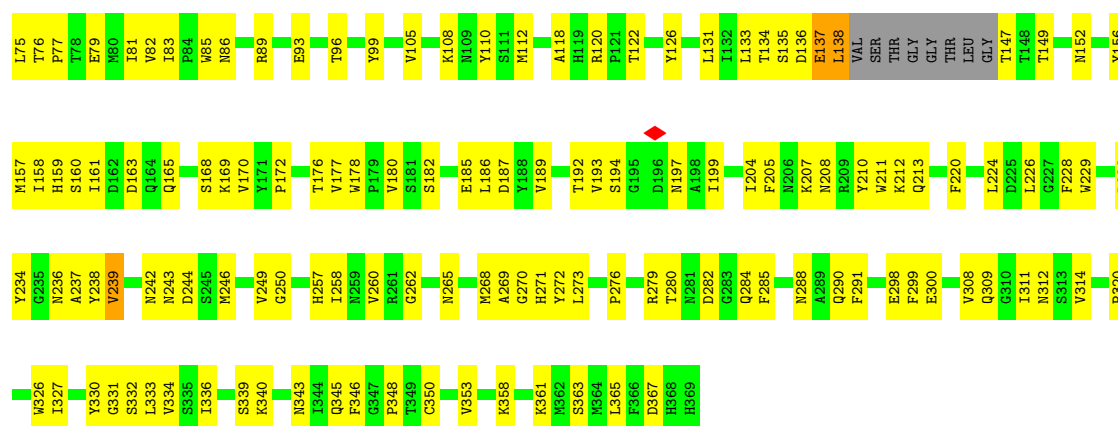
Chain S: 49% 36% 14%



- Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

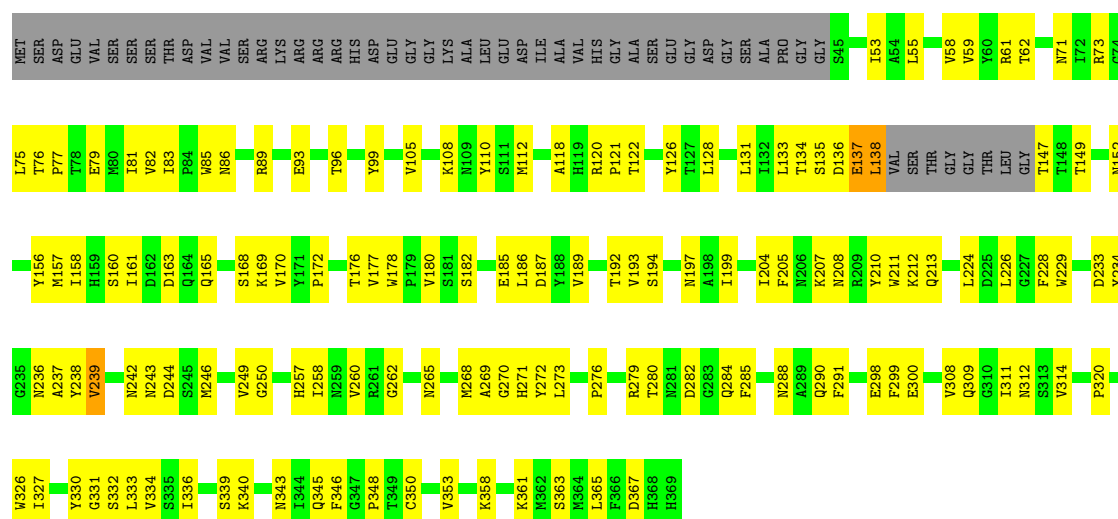
Chain T: 48% 37% 14%





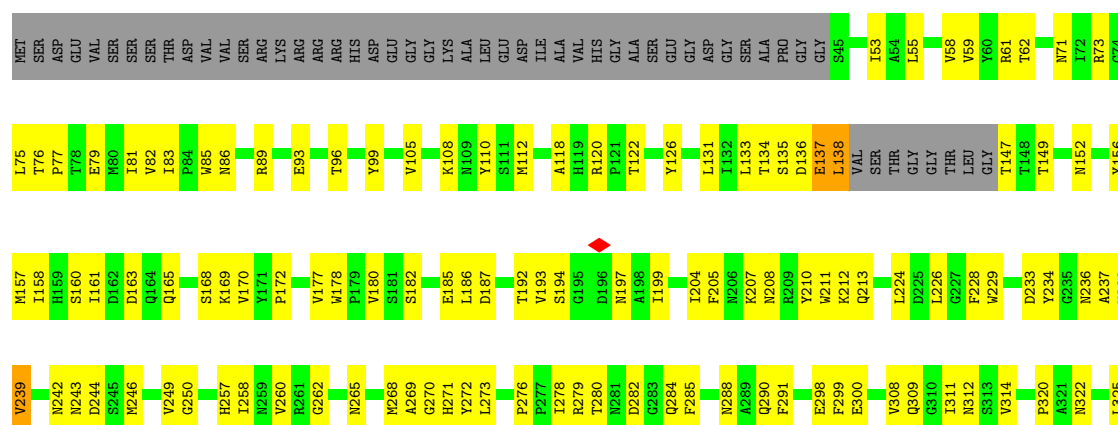
• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

Chain U: 48% 37% 14%



• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

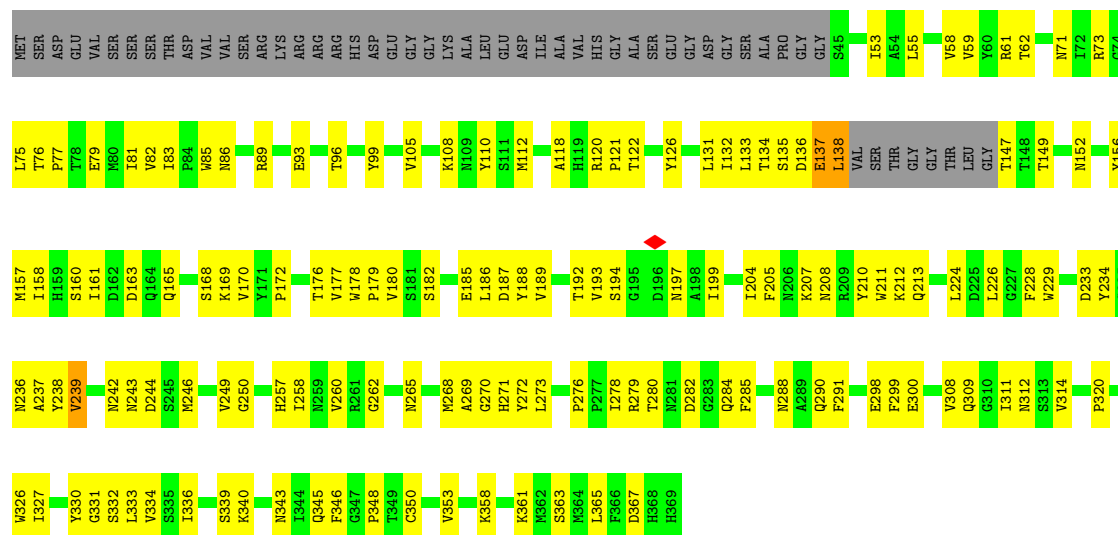
Chain V: 48% 37% 14%





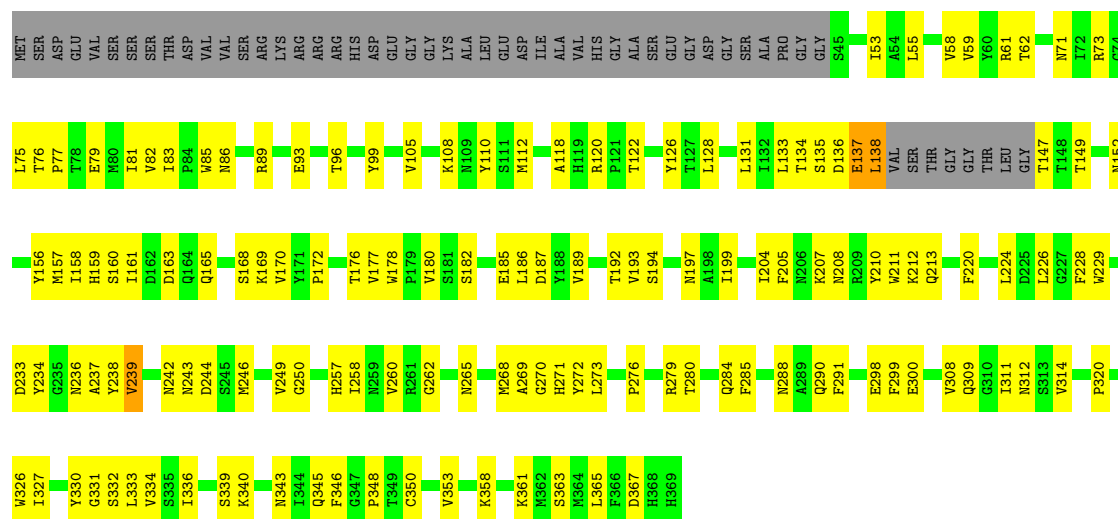
- Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain W: 47% 38% 14%



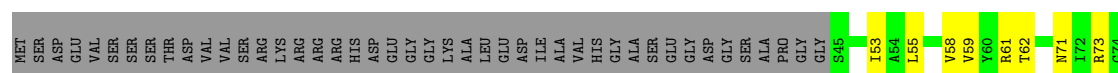
- Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain X: 48% 37% 14%



- Molecule 1: Penaeus monodon metallodensovirus major capsid protein

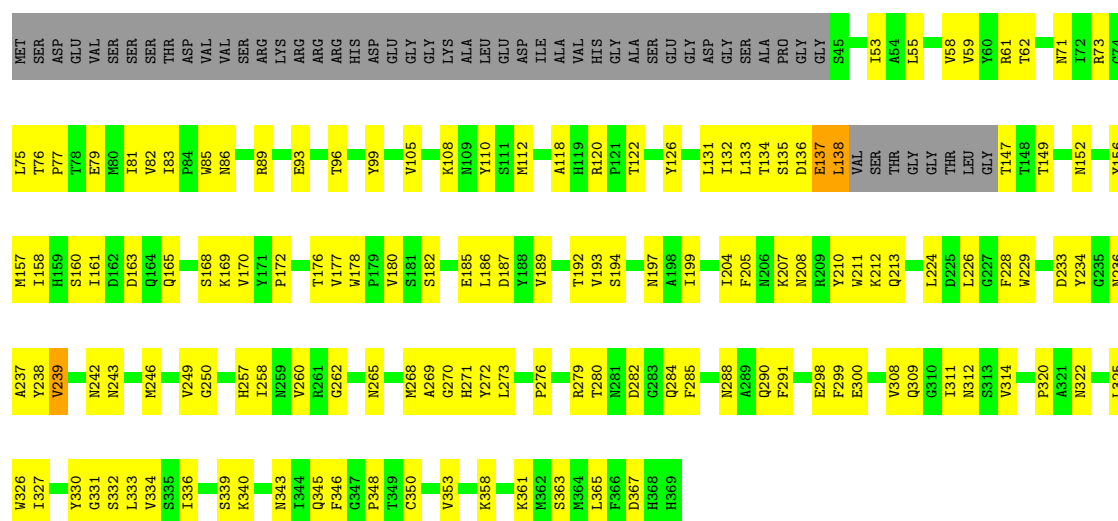
Chain Y: 49% 37% 14%





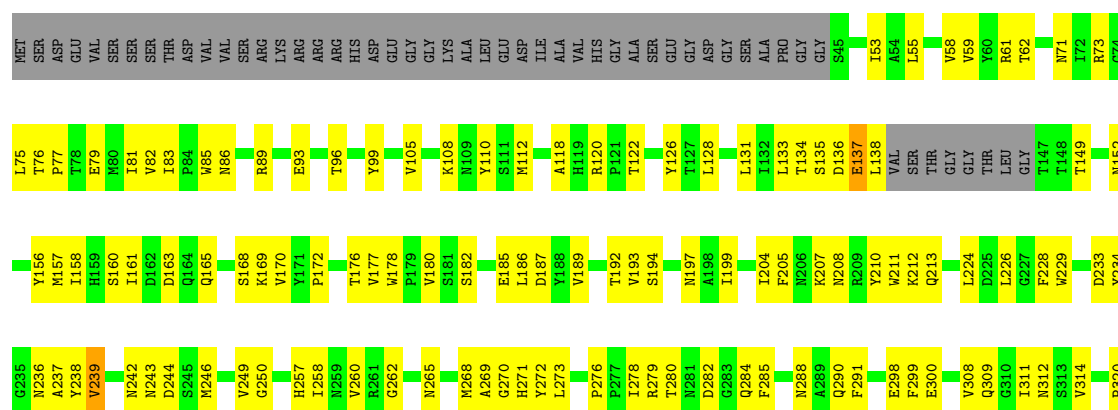
• Molecule 1: *Penaeus monodon* metallothionein major capsid protein

Chain Z: 48% 37% 14%



• Molecule 1: *Penaeus monodon* metallothionein major capsid protein

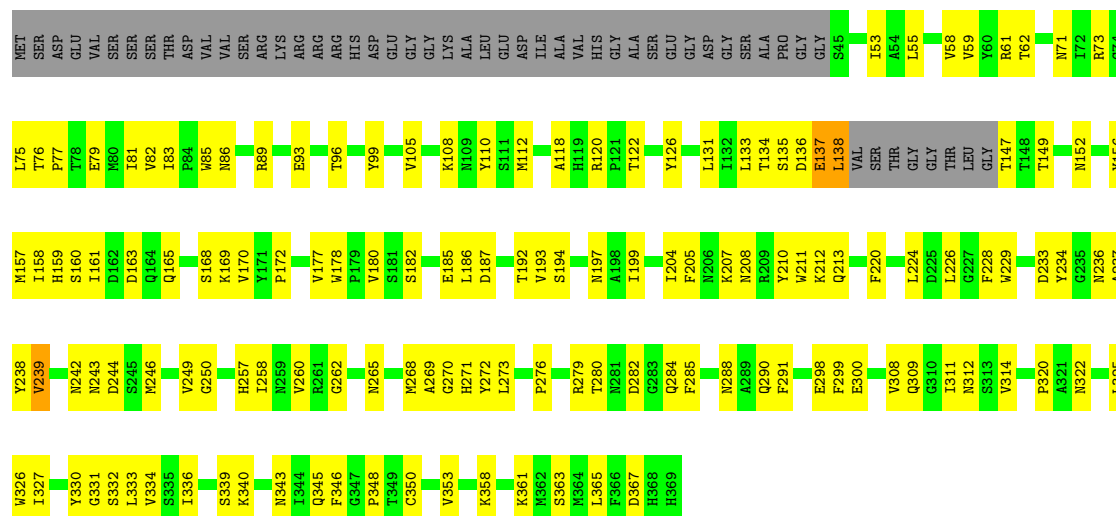
Chain 1: 48% 38% 14%





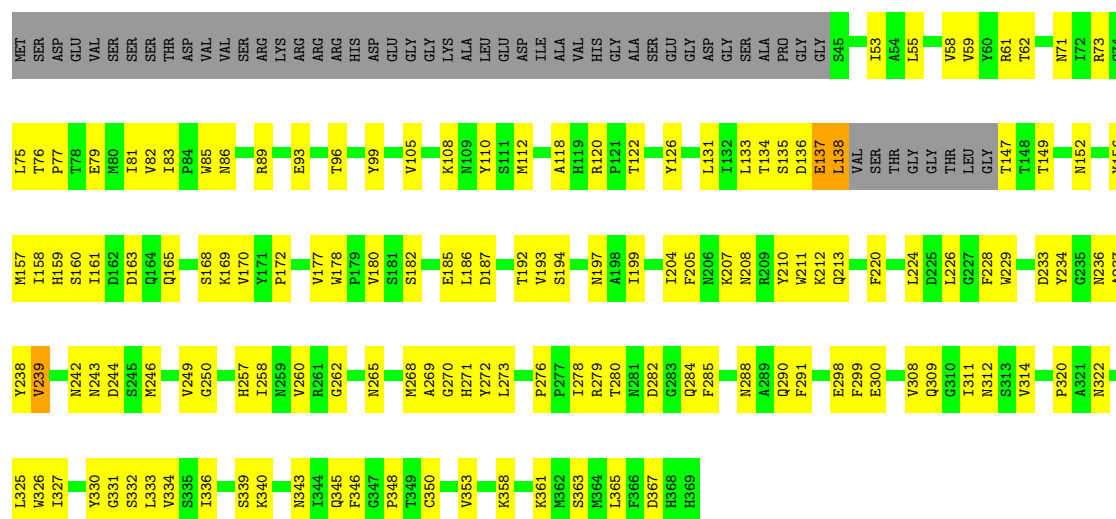
- Molecule 1: *Penaeus monodon* metalloidenovirus major capsid protein

Chain 2: 48% 37% 14%



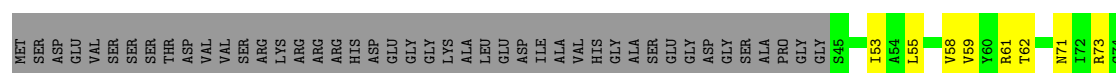
- Molecule 1: *Penaeus monodon* metalloidenovirus major capsid protein

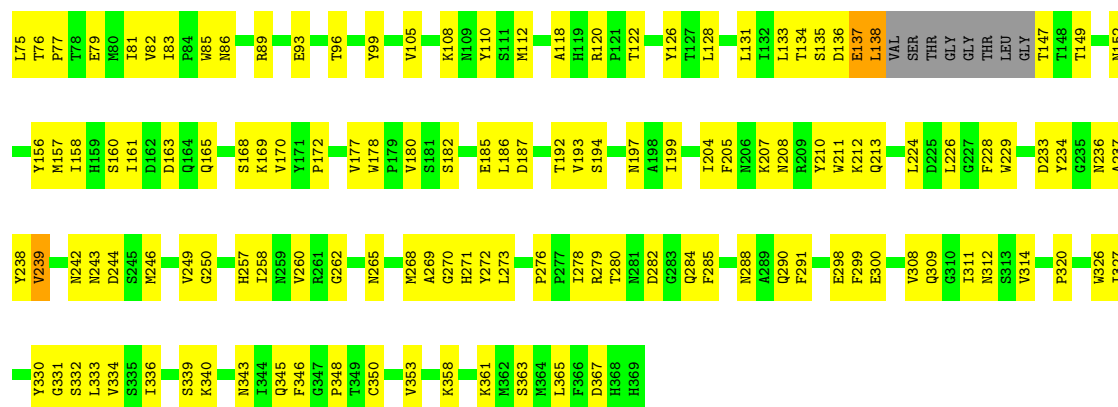
Chain 3: 48% 37% 14%



- Molecule 1: *Penaeus monodon* metalloidenovirus major capsid protein

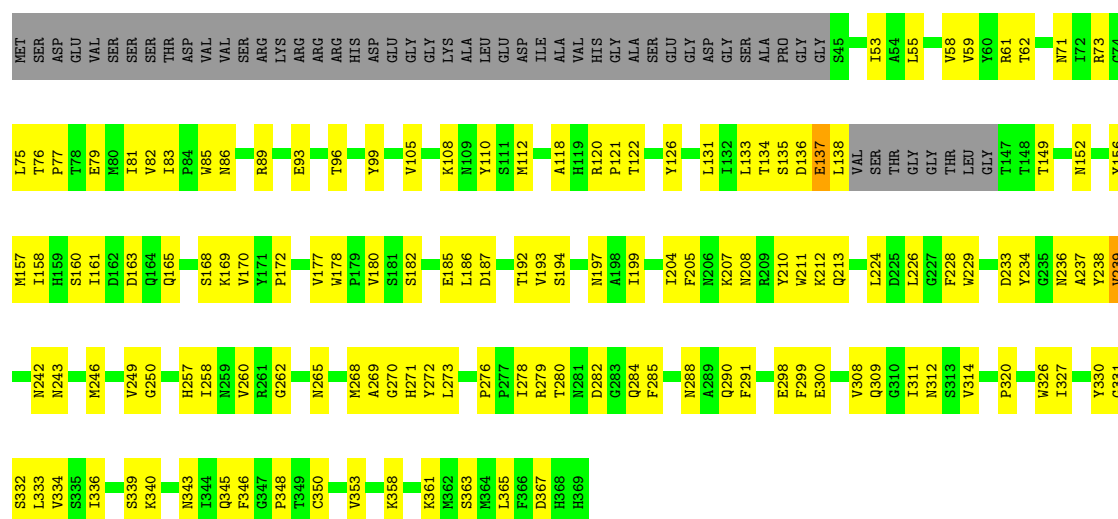
Chain 4: 49% 37% 14%





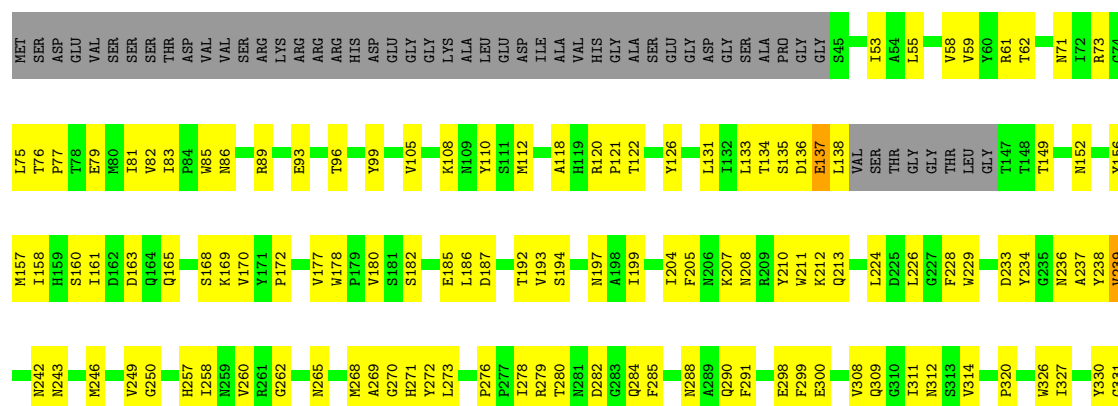
• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

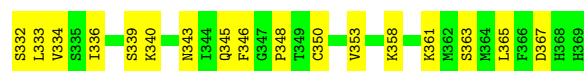
Chain 5: 49% 36% 14%



• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

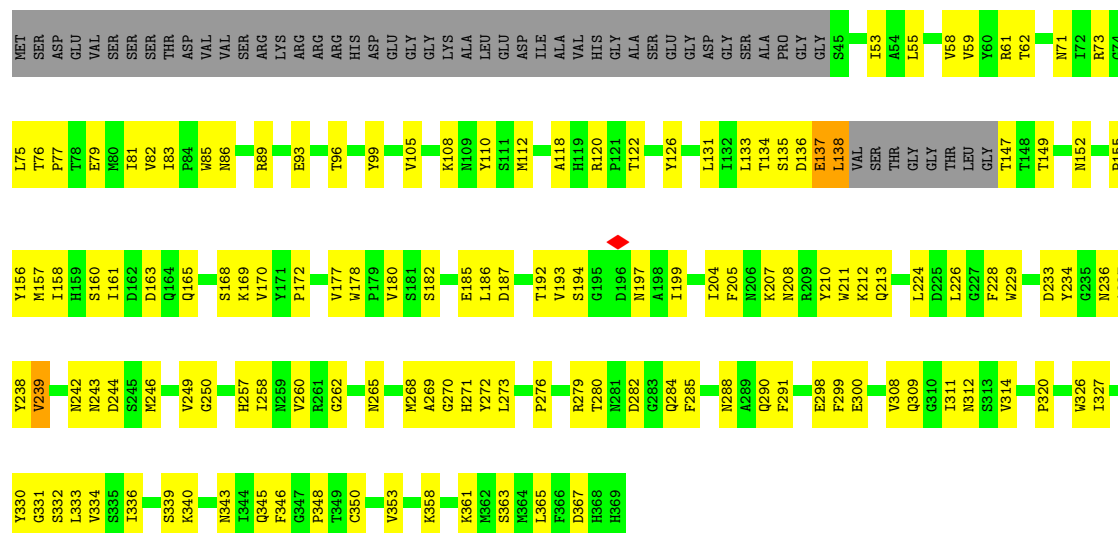
Chain 6: 49% 36% 14%





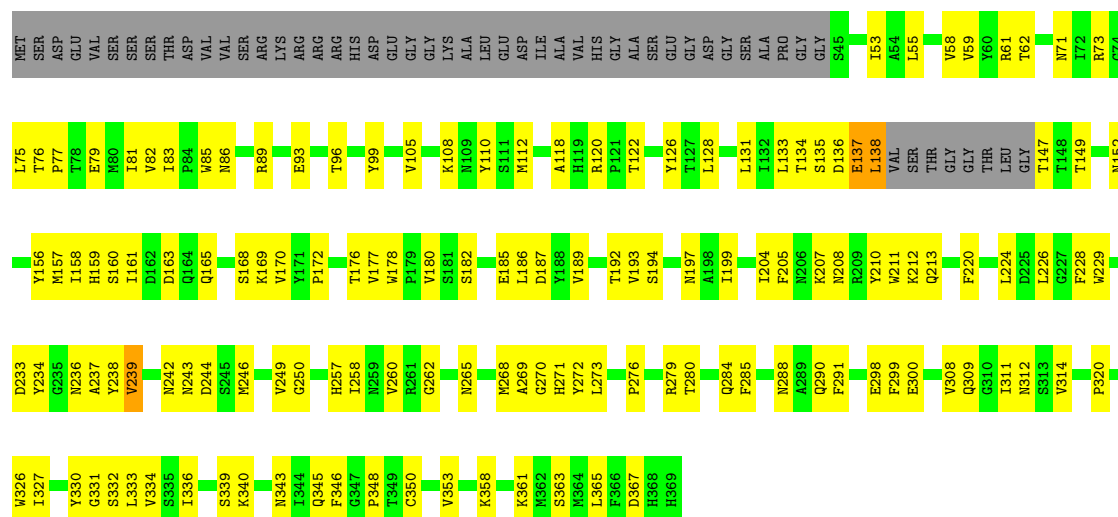
- Molecule 1: *Penaeus monodon* metalloidensovirus major capsid protein

Chain a: 49% 36% 14%



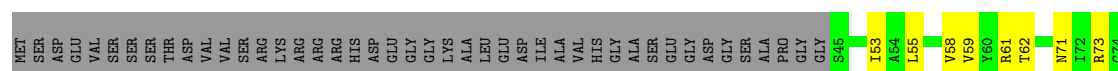
- Molecule 1: *Penaeus monodon* metalloidensovirus major capsid protein

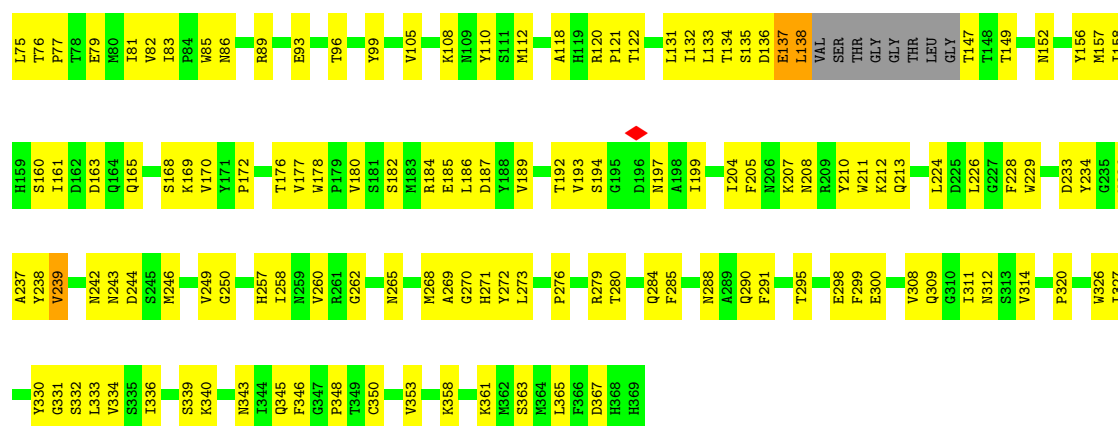
Chain b: 48% 37% 14%



- Molecule 1: *Penaeus monodon* metalloidensovirus major capsid protein

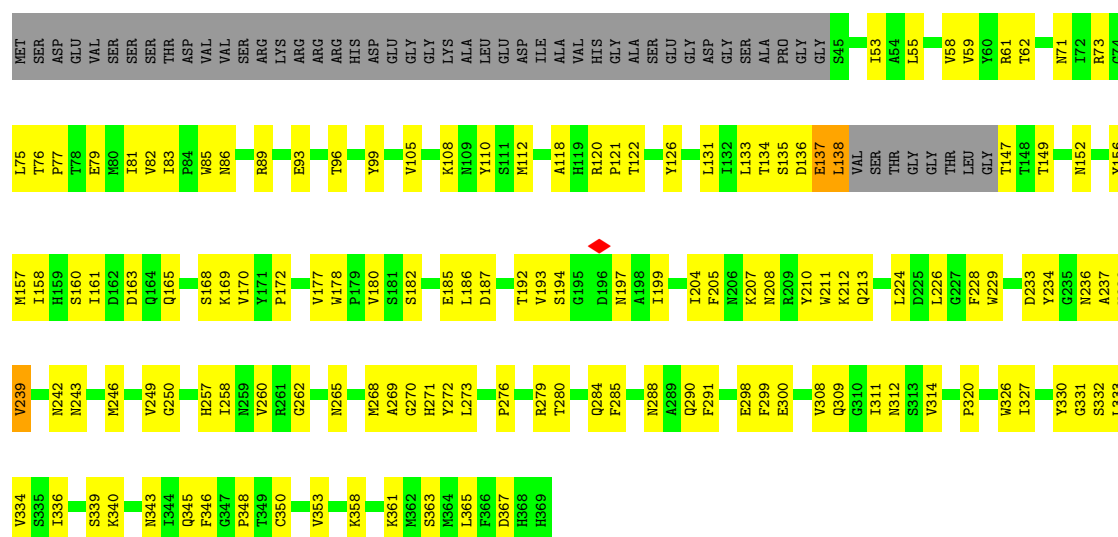
Chain c: 48% 37% 14%





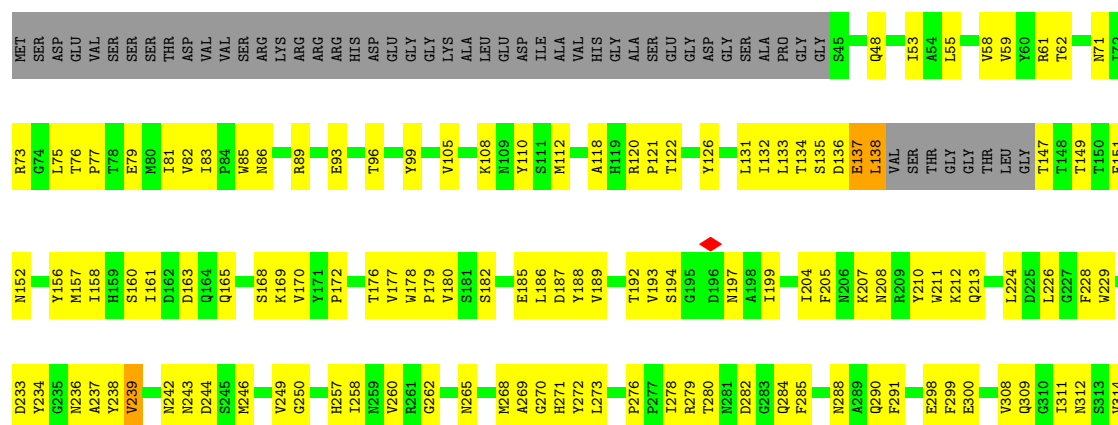
• Molecule 1: *Penaeus monodon* metallothionein major capsid protein

Chain d: 49% 36% 14%



• Molecule 1: *Penaeus monodon* metallothionein major capsid protein

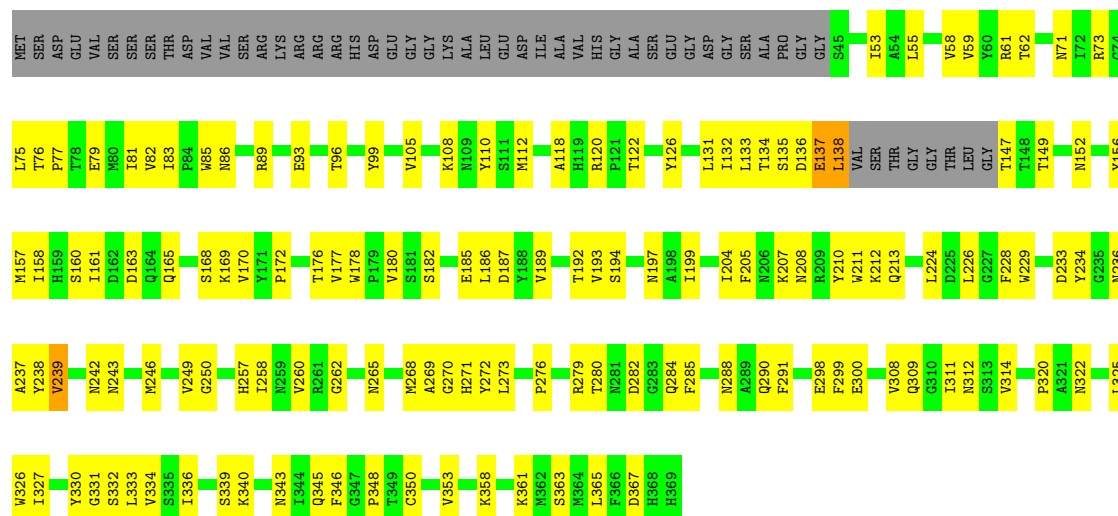
Chain e: 47% 38% 14%





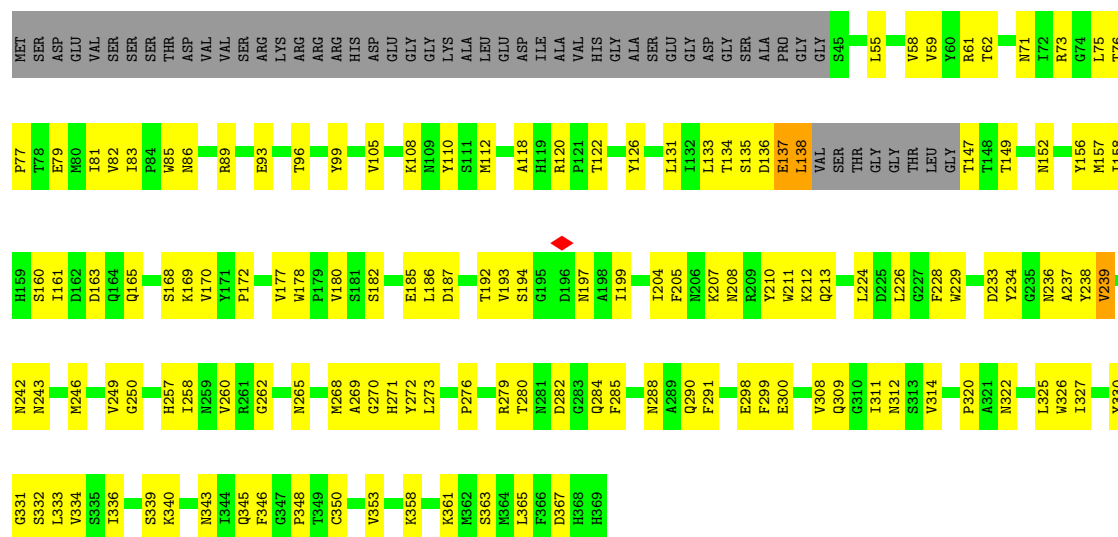
- Molecule 1: *Penaeus monodon* metallothionein major capsid protein

Chain f: 48% 37% 14%



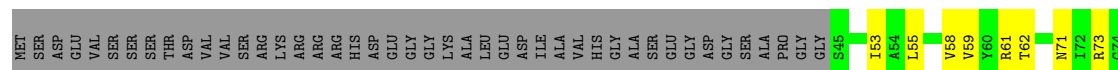
- Molecule 1: *Penaeus monodon* metallothionein major capsid protein

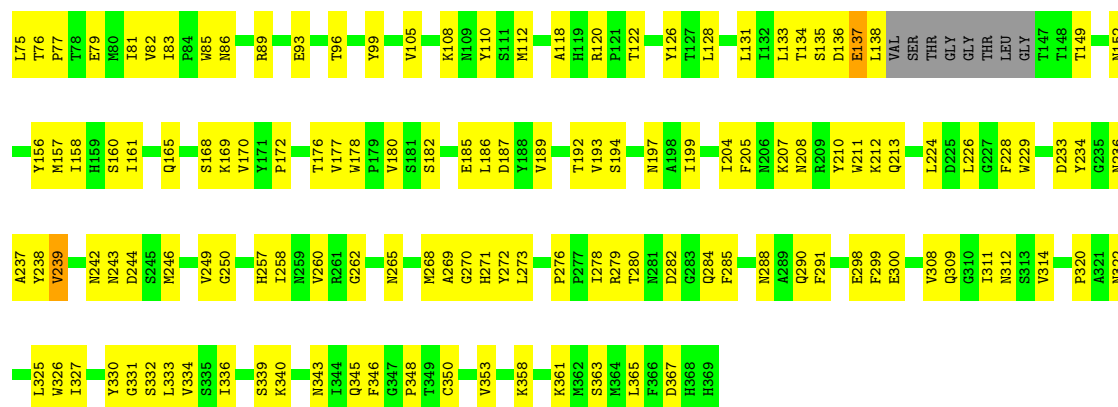
Chain g: 49% 36% 14%



- Molecule 1: *Penaeus monodon* metallothionein major capsid protein

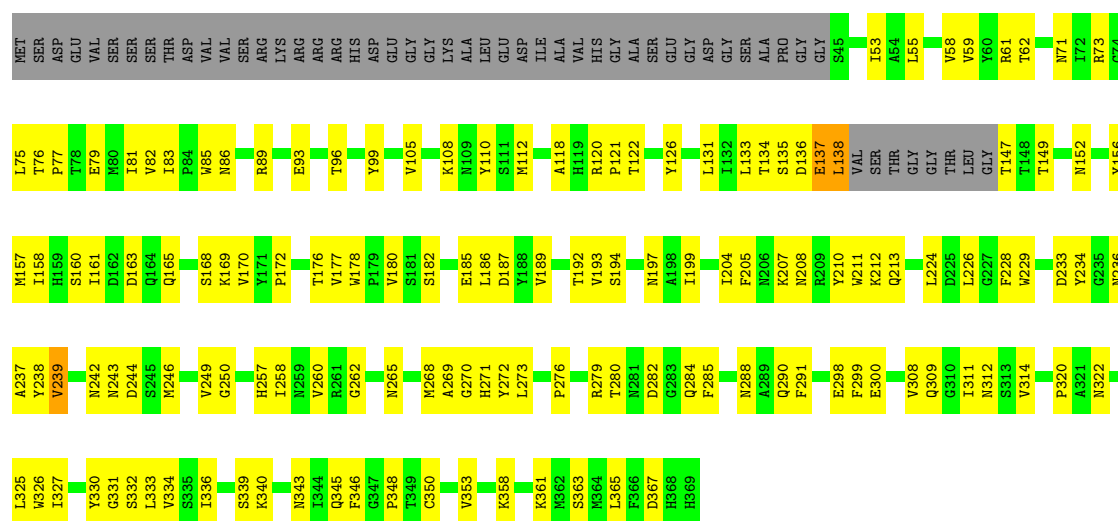
Chain h: 48% 37% 14%





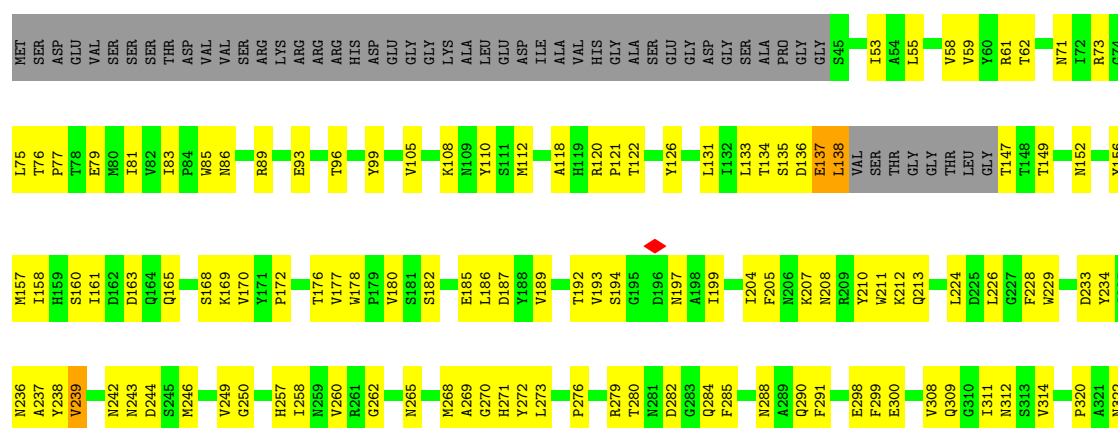
• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

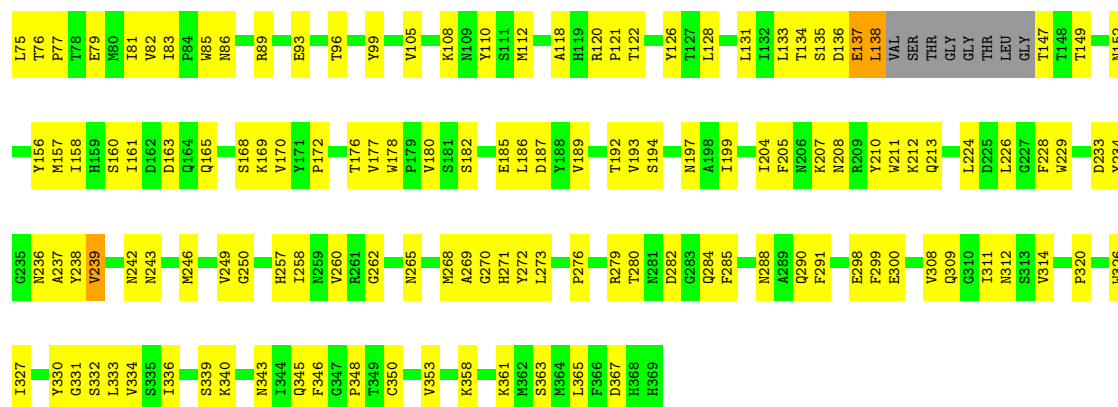
Chain i: 48% 37% 14%



• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

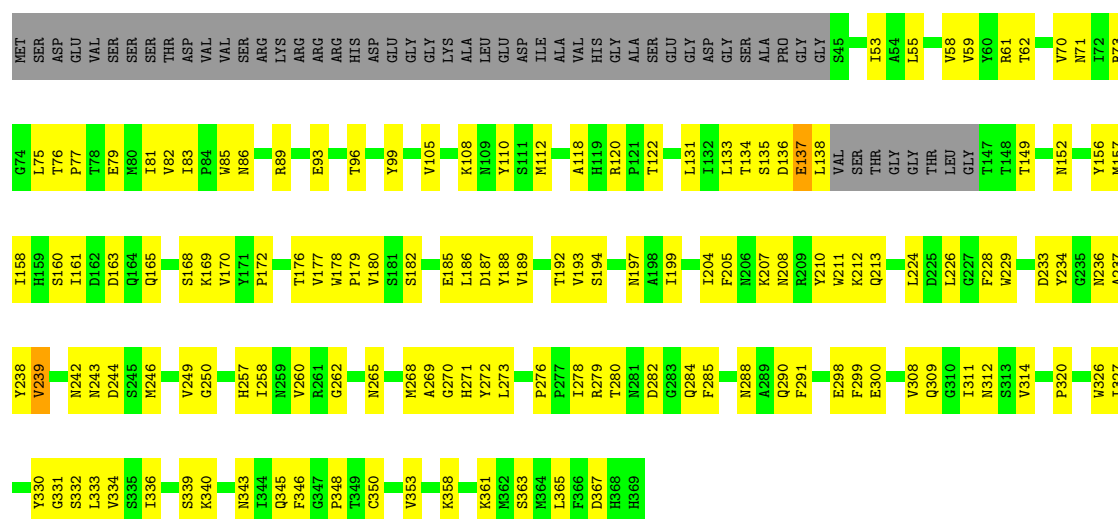
Chain j: 48% 37% 14%





• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

Chain n: 48% 37% 14%



• Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

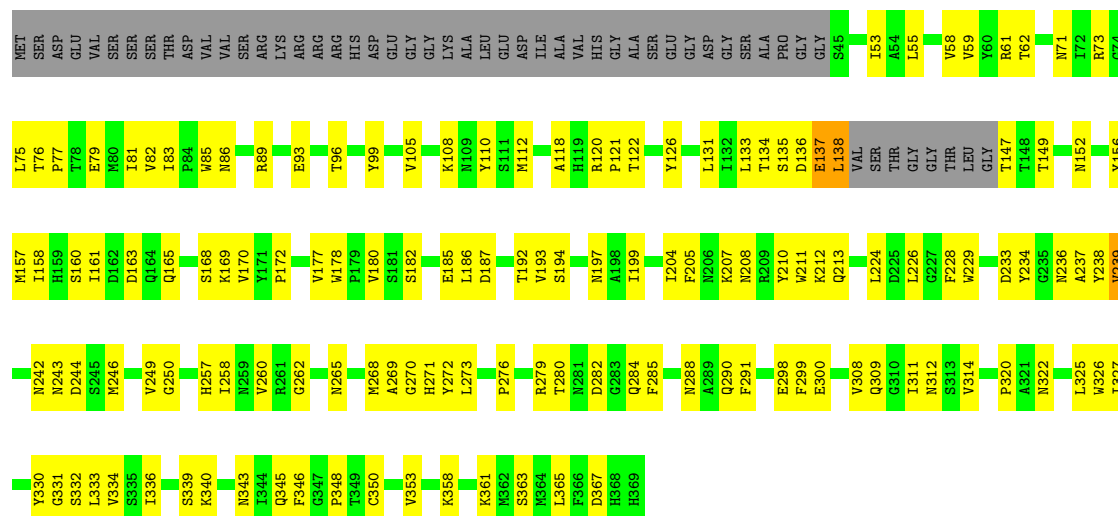
Chain o: 49% 37% 14%





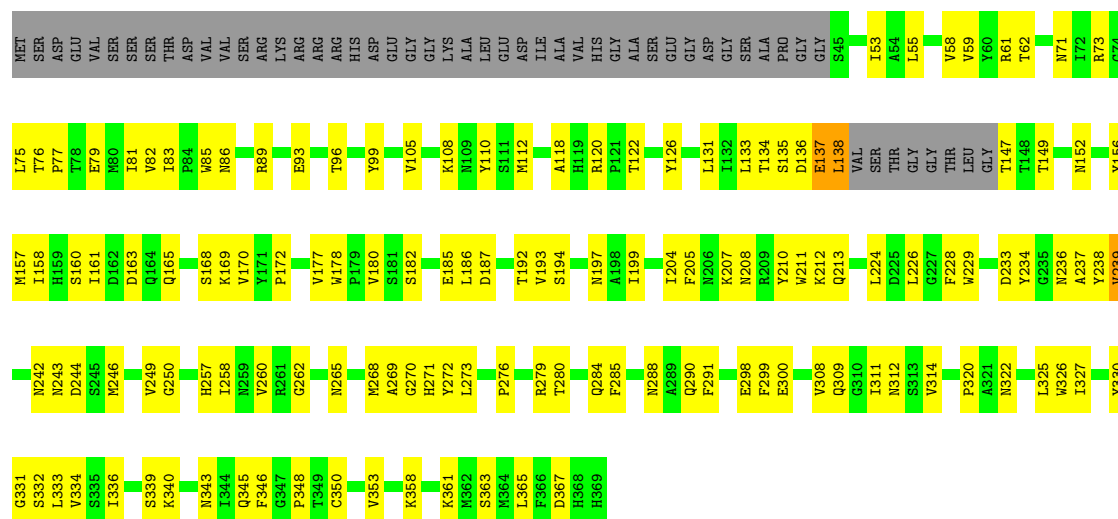
- Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

Chain p: 48% 37% 14%



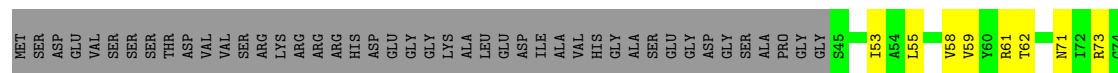
- Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

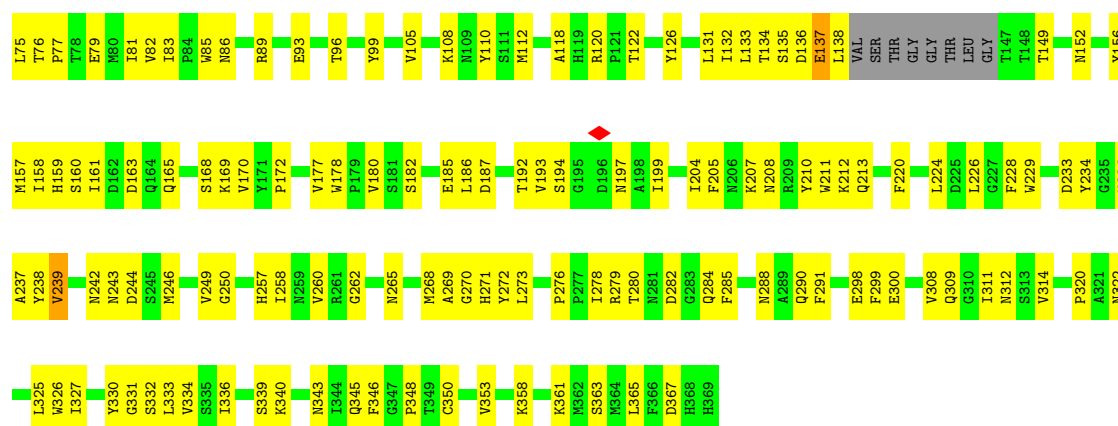
Chain q: 49% 36% 14%



- Molecule 1: *Penaeus monodon* metallodensovirus major capsid protein

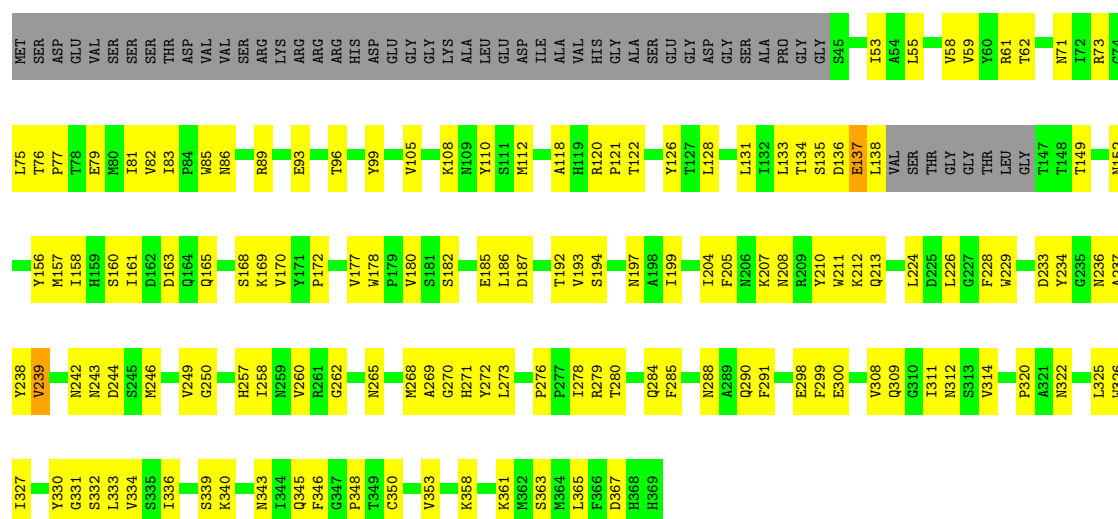
Chain r: 48% 38% 14%





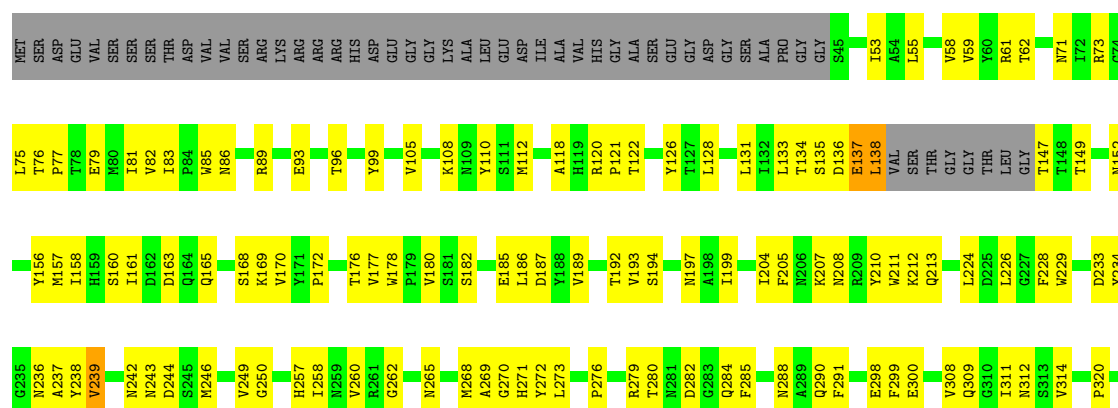
• Molecule 1: *Penaeus monodon* metallogenovirus major capsid protein

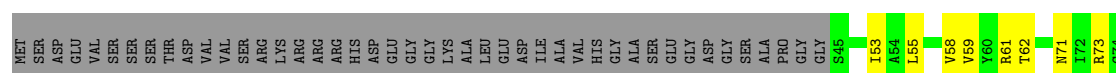
Chain s: 48% 37% 14%

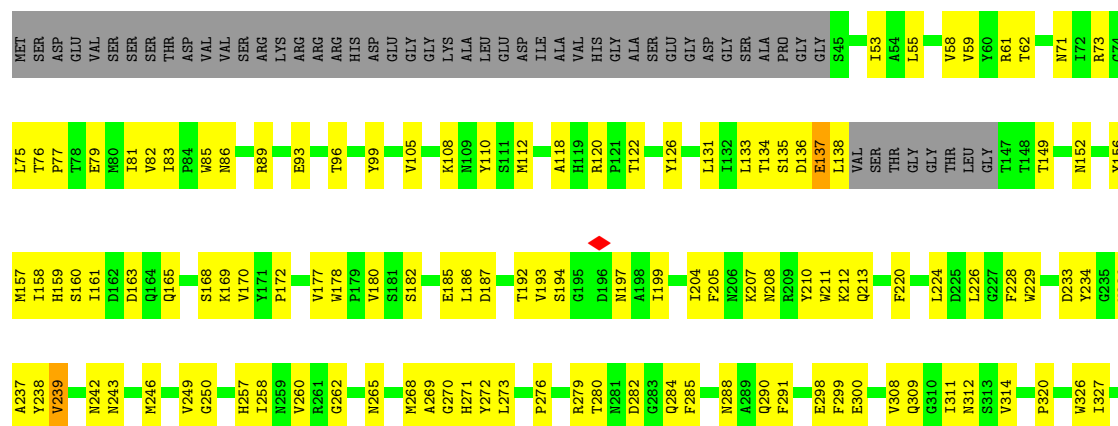


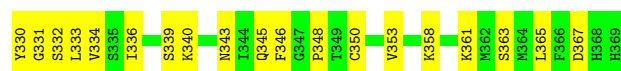
• Molecule 1: *Penaeus monodon* metallogenovirus major capsid protein

Chain t: 48% 37% 14%



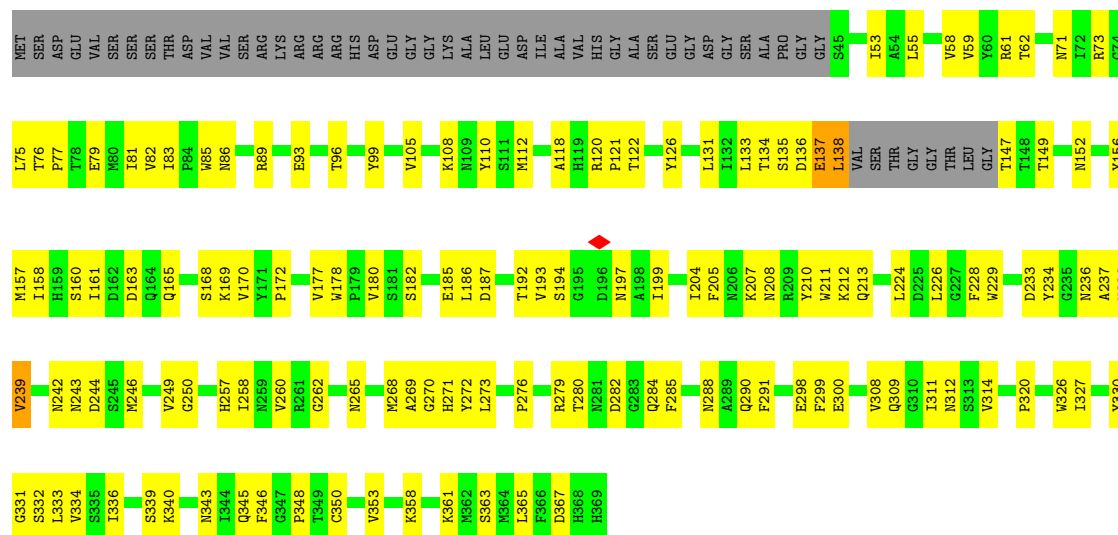






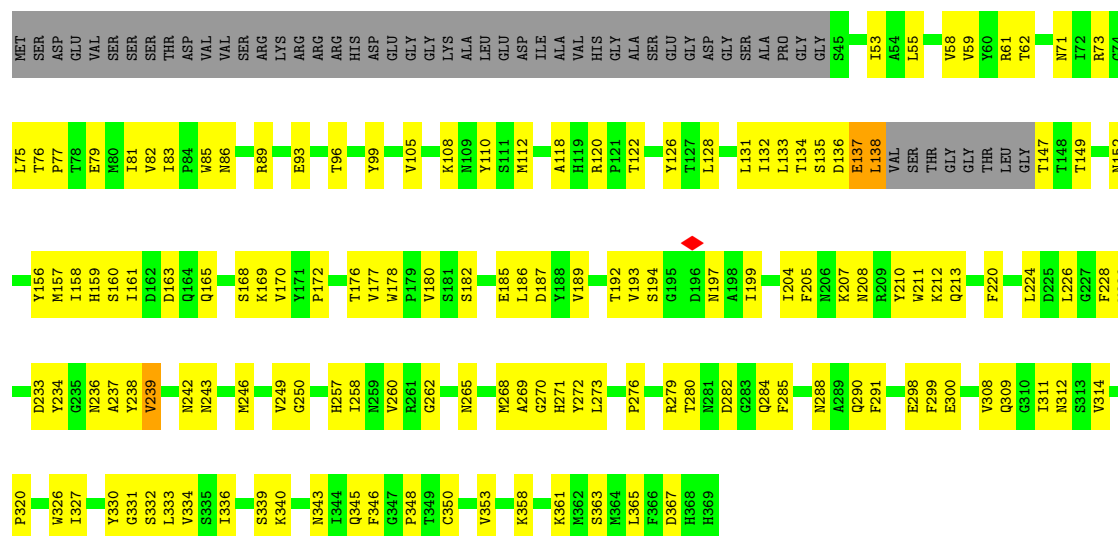
- Molecule 1: *Penaeus monodon* metalloidensovirus major capsid protein

Chain z: 49% 36% 14%



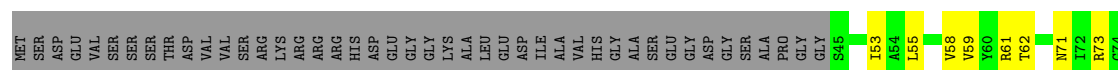
- Molecule 1: *Penaeus monodon* metalloidensovirus major capsid protein

Chain 7: 48% 37% 14%



- Molecule 1: *Penaeus monodon* metalloidensovirus major capsid protein

Chain 8: 49% 36% 14%





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	30977	Depositor
Resolution determination method	FSC 3 SIGMA CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	25.412	Depositor
Minimum map value	-13.197	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size ($\text{\AA}$)	424.659, 424.659, 424.659	wwPDB
Map dimensions	401, 401, 401	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.059, 1.059, 1.059	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.45	0/2596	0.53	0/3532
1	2	0.45	0/2596	0.53	0/3532
1	3	0.45	0/2596	0.53	0/3532
1	4	0.45	0/2596	0.53	0/3532
1	5	0.45	0/2596	0.53	0/3532
1	6	0.45	0/2596	0.53	0/3532
1	7	0.45	0/2596	0.53	0/3532
1	8	0.45	0/2596	0.53	0/3532
1	A	0.45	0/2596	0.53	0/3532
1	B	0.45	0/2596	0.53	0/3532
1	C	0.45	0/2596	0.53	0/3532
1	D	0.45	0/2596	0.53	0/3532
1	E	0.45	0/2596	0.53	0/3532
1	F	0.45	0/2596	0.53	0/3532
1	G	0.45	0/2596	0.53	0/3532
1	H	0.45	0/2596	0.53	0/3532
1	I	0.45	0/2596	0.53	0/3532
1	J	0.45	0/2596	0.53	0/3532
1	K	0.45	0/2596	0.53	0/3532
1	L	0.45	0/2596	0.53	0/3532
1	M	0.45	0/2596	0.53	0/3532
1	N	0.45	0/2596	0.53	0/3532
1	O	0.45	0/2596	0.53	0/3532
1	P	0.45	0/2596	0.53	0/3532
1	Q	0.45	0/2596	0.53	0/3532
1	R	0.45	0/2596	0.53	0/3532
1	S	0.45	0/2596	0.53	0/3532
1	T	0.45	0/2596	0.53	0/3532
1	U	0.45	0/2596	0.53	0/3532
1	V	0.45	0/2596	0.53	0/3532
1	W	0.45	0/2596	0.53	0/3532
1	X	0.45	0/2596	0.53	0/3532
1	Y	0.45	0/2596	0.53	0/3532
1	Z	0.45	0/2596	0.53	0/3532

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.45	0/2596	0.53	0/3532
1	b	0.45	0/2596	0.53	0/3532
1	c	0.45	0/2596	0.53	0/3532
1	d	0.45	0/2596	0.53	0/3532
1	e	0.45	0/2596	0.53	0/3532
1	f	0.45	0/2596	0.53	0/3532
1	g	0.45	0/2596	0.53	0/3532
1	h	0.45	0/2596	0.53	0/3532
1	i	0.45	0/2596	0.53	0/3532
1	j	0.45	0/2596	0.53	0/3532
1	k	0.45	0/2596	0.53	0/3532
1	l	0.45	0/2596	0.53	0/3532
1	m	0.45	0/2596	0.53	0/3532
1	n	0.45	0/2596	0.53	0/3532
1	o	0.45	0/2596	0.53	0/3532
1	p	0.45	0/2596	0.53	0/3532
1	q	0.45	0/2596	0.53	0/3532
1	r	0.45	0/2596	0.53	0/3532
1	s	0.45	0/2596	0.53	0/3532
1	t	0.45	0/2596	0.53	0/3532
1	u	0.45	0/2596	0.53	0/3532
1	v	0.45	0/2596	0.53	0/3532
1	w	0.45	0/2596	0.53	0/3532
1	x	0.45	0/2596	0.53	0/3532
1	y	0.45	0/2596	0.53	0/3532
1	z	0.45	0/2596	0.53	0/3532
All	All	0.45	0/155760	0.53	0/211920

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	2530	0	2439	120	0
1	2	2530	0	2439	120	0
1	3	2530	0	2439	120	0
1	4	2530	0	2439	120	0
1	5	2530	0	2439	117	0
1	6	2530	0	2439	118	0
1	7	2530	0	2439	120	0
1	8	2530	0	2439	118	0
1	A	2530	0	2439	120	0
1	B	2530	0	2439	118	0
1	C	2530	0	2439	120	0
1	D	2530	0	2439	118	0
1	E	2530	0	2439	119	0
1	F	2530	0	2439	117	0
1	G	2530	0	2439	121	0
1	H	2530	0	2439	119	0
1	I	2530	0	2439	123	0
1	J	2530	0	2439	122	0
1	K	2530	0	2439	118	0
1	L	2530	0	2439	117	0
1	M	2530	0	2439	121	0
1	N	2530	0	2439	119	0
1	O	2530	0	2439	118	0
1	P	2530	0	2439	115	0
1	Q	2530	0	2439	119	0
1	R	2530	0	2439	119	0
1	S	2530	0	2439	120	0
1	T	2530	0	2439	121	0
1	U	2530	0	2439	121	0
1	V	2530	0	2439	122	0
1	W	2530	0	2439	125	0
1	X	2530	0	2439	119	0
1	Y	2530	0	2439	119	0
1	Z	2530	0	2439	118	0
1	a	2530	0	2439	121	0
1	b	2530	0	2439	119	0
1	c	2530	0	2439	121	0
1	d	2530	0	2439	119	0
1	e	2530	0	2439	127	0
1	f	2530	0	2439	118	0
1	g	2530	0	2439	118	0
1	h	2530	0	2439	119	0
1	i	2530	0	2439	120	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	2530	0	2439	120	0
1	k	2530	0	2439	120	0
1	l	2530	0	2439	121	0
1	m	2530	0	2439	121	0
1	n	2530	0	2439	118	0
1	o	2530	0	2439	118	0
1	p	2530	0	2439	117	0
1	q	2530	0	2439	121	0
1	r	2530	0	2439	123	0
1	s	2530	0	2439	122	0
1	t	2530	0	2439	121	0
1	u	2530	0	2439	120	0
1	v	2530	0	2439	119	0
1	w	2530	0	2439	120	0
1	x	2530	0	2439	120	0
1	y	2530	0	2439	114	0
1	z	2530	0	2439	118	0
All	All	151800	0	146340	6213	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 21.

All (6213) 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:V:137:GLU:OE1	1:V:137:GLU:N	2.07	0.88
1:a:137:GLU:N	1:a:137:GLU:OE1	2.08	0.87
1:B:137:GLU:OE1	1:B:137:GLU:N	2.08	0.87
1:d:137:GLU:N	1:d:137:GLU:OE1	2.07	0.87
1:k:137:GLU:OE1	1:k:137:GLU:N	2.08	0.87
1:r:137:GLU:OE1	1:r:137:GLU:N	2.07	0.87
1:x:137:GLU:OE1	1:x:137:GLU:N	2.07	0.87
1:H:137:GLU:OE1	1:H:137:GLU:N	2.08	0.87
1:I:137:GLU:N	1:I:137:GLU:OE1	2.07	0.87
1:P:137:GLU:OE1	1:P:137:GLU:N	2.07	0.87
1:Z:137:GLU:OE1	1:Z:137:GLU:N	2.07	0.87
1:f:137:GLU:OE1	1:f:137:GLU:N	2.08	0.87
1:y:137:GLU:OE1	1:y:137:GLU:N	2.08	0.87
1:T:137:GLU:N	1:T:137:GLU:OE1	2.08	0.87
1:n:137:GLU:OE1	1:n:137:GLU:N	2.08	0.87
1:E:137:GLU:OE1	1:E:137:GLU:N	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:137:GLU:OE1	1:W:137:GLU:N	2.07	0.87
1:v:137:GLU:OE1	1:v:137:GLU:N	2.07	0.87
1:N:137:GLU:OE1	1:N:137:GLU:N	2.07	0.87
1:S:137:GLU:OE1	1:S:137:GLU:N	2.07	0.87
1:e:137:GLU:OE1	1:e:137:GLU:N	2.07	0.87
1:C:137:GLU:OE1	1:C:137:GLU:N	2.08	0.87
1:Q:137:GLU:N	1:Q:137:GLU:OE1	2.07	0.87
1:m:137:GLU:OE1	1:m:137:GLU:N	2.07	0.87
1:7:137:GLU:OE1	1:7:137:GLU:N	2.07	0.87
1:M:137:GLU:OE1	1:M:137:GLU:N	2.08	0.87
1:i:137:GLU:OE1	1:i:137:GLU:N	2.07	0.87
1:j:137:GLU:OE1	1:j:137:GLU:N	2.08	0.87
1:L:137:GLU:N	1:L:137:GLU:OE1	2.07	0.87
1:o:137:GLU:N	1:o:137:GLU:OE1	2.08	0.87
1:J:137:GLU:OE1	1:J:137:GLU:N	2.07	0.86
1:b:137:GLU:OE1	1:b:137:GLU:N	2.07	0.86
1:l:137:GLU:N	1:l:137:GLU:OE1	2.07	0.86
1:w:137:GLU:N	1:w:137:GLU:OE1	2.08	0.86
1:4:137:GLU:OE1	1:4:137:GLU:N	2.08	0.86
1:F:137:GLU:OE1	1:F:137:GLU:N	2.08	0.86
1:U:137:GLU:OE1	1:U:137:GLU:N	2.07	0.86
1:X:137:GLU:OE1	1:X:137:GLU:N	2.07	0.86
1:t:137:GLU:N	1:t:137:GLU:OE1	2.07	0.86
1:R:137:GLU:OE1	1:R:137:GLU:N	2.08	0.86
1:p:137:GLU:OE1	1:p:137:GLU:N	2.08	0.86
1:A:137:GLU:N	1:A:137:GLU:OE1	2.07	0.86
1:D:137:GLU:N	1:D:137:GLU:OE1	2.08	0.86
1:1:137:GLU:N	1:1:137:GLU:OE1	2.08	0.86
1:5:137:GLU:OE1	1:5:137:GLU:N	2.08	0.86
1:z:137:GLU:OE1	1:z:137:GLU:N	2.07	0.86
1:3:137:GLU:OE1	1:3:137:GLU:N	2.08	0.86
1:6:137:GLU:N	1:6:137:GLU:OE1	2.08	0.86
1:u:137:GLU:OE1	1:u:137:GLU:N	2.08	0.86
1:h:137:GLU:OE1	1:h:137:GLU:N	2.08	0.86
1:s:137:GLU:OE1	1:s:137:GLU:N	2.08	0.86
1:O:137:GLU:OE1	1:O:137:GLU:N	2.07	0.86
1:2:137:GLU:OE1	1:2:137:GLU:N	2.08	0.86
1:q:137:GLU:OE1	1:q:137:GLU:N	2.08	0.86
1:8:137:GLU:OE1	1:8:137:GLU:N	2.07	0.86
1:G:137:GLU:OE1	1:G:137:GLU:N	2.08	0.86
1:Y:137:GLU:N	1:Y:137:GLU:OE1	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:137:GLU:N	1:g:137:GLU:OE1	2.08	0.86
1:K:137:GLU:OE1	1:K:137:GLU:N	2.07	0.86
1:c:137:GLU:OE1	1:c:137:GLU:N	2.07	0.85
1:J:177:VAL:HG21	1:J:340:LYS:HD3	1.61	0.83
1:Z:177:VAL:HG21	1:Z:340:LYS:HD3	1.61	0.83
1:c:177:VAL:HG21	1:c:340:LYS:HD3	1.61	0.83
1:l:177:VAL:HG21	1:l:340:LYS:HD3	1.61	0.83
1:Y:177:VAL:HG21	1:Y:340:LYS:HD3	1.61	0.83
1:f:177:VAL:HG21	1:f:340:LYS:HD3	1.61	0.83
1:5:177:VAL:HG21	1:5:340:LYS:HD3	1.61	0.83
1:u:177:VAL:HG21	1:u:340:LYS:HD3	1.61	0.83
1:R:177:VAL:HG21	1:R:340:LYS:HD3	1.61	0.83
1:g:177:VAL:HG21	1:g:340:LYS:HD3	1.61	0.83
1:K:177:VAL:HG21	1:K:340:LYS:HD3	1.61	0.83
1:O:177:VAL:HG21	1:O:340:LYS:HD3	1.61	0.83
1:6:177:VAL:HG21	1:6:340:LYS:HD3	1.61	0.83
1:T:177:VAL:HG21	1:T:340:LYS:HD3	1.61	0.83
1:V:177:VAL:HG21	1:V:340:LYS:HD3	1.61	0.83
1:q:177:VAL:HG21	1:q:340:LYS:HD3	1.61	0.83
1:w:177:VAL:HG21	1:w:340:LYS:HD3	1.61	0.83
1:x:177:VAL:HG21	1:x:340:LYS:HD3	1.61	0.83
1:8:177:VAL:HG21	1:8:340:LYS:HD3	1.61	0.83
1:H:177:VAL:HG21	1:H:340:LYS:HD3	1.61	0.83
1:2:177:VAL:HG21	1:2:340:LYS:HD3	1.61	0.83
1:4:177:VAL:HG21	1:4:340:LYS:HD3	1.61	0.83
1:D:177:VAL:HG21	1:D:340:LYS:HD3	1.61	0.82
1:G:177:VAL:HG21	1:G:340:LYS:HD3	1.61	0.82
1:3:177:VAL:HG21	1:3:340:LYS:HD3	1.61	0.82
1:T:194:SER:HB3	1:T:197:ASN:HB2	1.61	0.82
1:W:194:SER:HB3	1:W:197:ASN:HB2	1.61	0.82
1:a:177:VAL:HG21	1:a:340:LYS:HD3	1.61	0.82
1:d:177:VAL:HG21	1:d:340:LYS:HD3	1.61	0.82
1:e:194:SER:HB3	1:e:197:ASN:HB2	1.62	0.82
1:x:194:SER:HB3	1:x:197:ASN:HB2	1.62	0.82
1:z:177:VAL:HG21	1:z:340:LYS:HD3	1.61	0.82
1:G:194:SER:HB3	1:G:197:ASN:HB2	1.62	0.82
1:6:194:SER:HB3	1:6:197:ASN:HB2	1.62	0.82
1:o:194:SER:HB3	1:o:197:ASN:HB2	1.61	0.82
1:Q:194:SER:HB3	1:Q:197:ASN:HB2	1.61	0.82
1:S:194:SER:HB3	1:S:197:ASN:HB2	1.61	0.82
1:5:194:SER:HB3	1:5:197:ASN:HB2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:194:SER:HB3	1:l:197:ASN:HB2	1.61	0.82
1:q:194:SER:HB3	1:q:197:ASN:HB2	1.62	0.82
1:J:194:SER:HB3	1:J:197:ASN:HB2	1.61	0.82
1:M:177:VAL:HG21	1:M:340:LYS:HD3	1.61	0.82
1:Y:194:SER:HB3	1:Y:197:ASN:HB2	1.62	0.82
1:i:177:VAL:HG21	1:i:340:LYS:HD3	1.61	0.82
1:v:194:SER:HB3	1:v:197:ASN:HB2	1.61	0.82
1:c:194:SER:HB3	1:c:197:ASN:HB2	1.62	0.82
1:D:133:LEU:H	1:D:213:GLN:HE21	1.28	0.82
1:W:177:VAL:HG21	1:W:340:LYS:HD3	1.61	0.82
1:z:133:LEU:H	1:z:213:GLN:HE21	1.28	0.82
1:e:177:VAL:HG21	1:e:340:LYS:HD3	1.61	0.82
1:H:194:SER:HB3	1:H:197:ASN:HB2	1.62	0.82
1:N:133:LEU:H	1:N:213:GLN:HE21	1.28	0.82
1:S:177:VAL:HG21	1:S:340:LYS:HD3	1.61	0.82
1:u:194:SER:HB3	1:u:197:ASN:HB2	1.61	0.82
1:7:177:VAL:HG21	1:7:340:LYS:HD3	1.61	0.82
1:B:194:SER:HB3	1:B:197:ASN:HB2	1.61	0.81
1:C:194:SER:HB3	1:C:197:ASN:HB2	1.62	0.81
1:N:177:VAL:HG21	1:N:340:LYS:HD3	1.61	0.81
1:R:194:SER:HB3	1:R:197:ASN:HB2	1.61	0.81
1:1:177:VAL:HG21	1:1:340:LYS:HD3	1.61	0.81
1:d:194:SER:HB3	1:d:197:ASN:HB2	1.62	0.81
1:h:177:VAL:HG21	1:h:340:LYS:HD3	1.61	0.81
1:k:194:SER:HB3	1:k:197:ASN:HB2	1.61	0.81
1:o:133:LEU:H	1:o:213:GLN:HE21	1.28	0.81
1:t:177:VAL:HG21	1:t:340:LYS:HD3	1.61	0.81
1:v:177:VAL:HG21	1:v:340:LYS:HD3	1.61	0.81
1:C:133:LEU:H	1:C:213:GLN:HE21	1.28	0.81
1:D:194:SER:HB3	1:D:197:ASN:HB2	1.61	0.81
1:L:133:LEU:H	1:L:213:GLN:HE21	1.28	0.81
1:Q:133:LEU:H	1:Q:213:GLN:HE21	1.28	0.81
1:3:133:LEU:H	1:3:213:GLN:HE21	1.28	0.81
1:j:194:SER:HB3	1:j:197:ASN:HB2	1.62	0.81
1:z:194:SER:HB3	1:z:197:ASN:HB2	1.62	0.81
1:7:133:LEU:H	1:7:213:GLN:HE21	1.28	0.81
1:A:177:VAL:HG21	1:A:340:LYS:HD3	1.61	0.81
1:I:194:SER:HB3	1:I:197:ASN:HB2	1.61	0.81
1:K:194:SER:HB3	1:K:197:ASN:HB2	1.62	0.81
1:N:194:SER:HB3	1:N:197:ASN:HB2	1.62	0.81
1:U:177:VAL:HG21	1:U:340:LYS:HD3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:133:LEU:H	1:Y:213:GLN:HE21	1.28	0.81
1:1:194:SER:HB3	1:1:197:ASN:HB2	1.61	0.81
1:2:133:LEU:H	1:2:213:GLN:HE21	1.28	0.81
1:c:133:LEU:H	1:c:213:GLN:HE21	1.28	0.81
1:g:194:SER:HB3	1:g:197:ASN:HB2	1.62	0.81
1:j:133:LEU:H	1:j:213:GLN:HE21	1.28	0.81
1:m:133:LEU:H	1:m:213:GLN:HE21	1.28	0.81
1:r:194:SER:HB3	1:r:197:ASN:HB2	1.62	0.81
1:s:177:VAL:HG21	1:s:340:LYS:HD3	1.61	0.81
1:7:194:SER:HB3	1:7:197:ASN:HB2	1.62	0.81
1:C:177:VAL:HG21	1:C:340:LYS:HD3	1.61	0.81
1:X:194:SER:HB3	1:X:197:ASN:HB2	1.62	0.81
1:3:194:SER:HB3	1:3:197:ASN:HB2	1.62	0.81
1:k:133:LEU:H	1:k:213:GLN:HE21	1.28	0.81
1:E:194:SER:HB3	1:E:197:ASN:HB2	1.62	0.81
1:O:133:LEU:H	1:O:213:GLN:HE21	1.28	0.81
1:Q:177:VAL:HG21	1:Q:340:LYS:HD3	1.61	0.81
1:2:194:SER:HB3	1:2:197:ASN:HB2	1.62	0.81
1:b:122:THR:OG1	1:b:298:GLU:O	1.99	0.81
1:j:177:VAL:HG21	1:j:340:LYS:HD3	1.61	0.81
1:n:194:SER:HB3	1:n:197:ASN:HB2	1.62	0.81
1:o:177:VAL:HG21	1:o:340:LYS:HD3	1.61	0.81
1:B:133:LEU:H	1:B:213:GLN:HE21	1.28	0.81
1:B:177:VAL:HG21	1:B:340:LYS:HD3	1.61	0.81
1:C:122:THR:OG1	1:C:298:GLU:O	1.99	0.81
1:M:133:LEU:H	1:M:213:GLN:HE21	1.28	0.81
1:X:122:THR:OG1	1:X:298:GLU:O	1.99	0.81
1:5:133:LEU:H	1:5:213:GLN:HE21	1.28	0.81
1:b:194:SER:HB3	1:b:197:ASN:HB2	1.61	0.81
1:j:122:THR:OG1	1:j:298:GLU:O	1.99	0.81
1:k:177:VAL:HG21	1:k:340:LYS:HD3	1.61	0.81
1:m:177:VAL:HG21	1:m:340:LYS:HD3	1.61	0.81
1:L:177:VAL:HG21	1:L:340:LYS:HD3	1.61	0.81
1:1:133:LEU:H	1:1:213:GLN:HE21	1.28	0.81
1:h:194:SER:HB3	1:h:197:ASN:HB2	1.62	0.81
1:i:133:LEU:H	1:i:213:GLN:HE21	1.28	0.81
1:p:177:VAL:HG21	1:p:340:LYS:HD3	1.61	0.81
1:D:122:THR:OG1	1:D:298:GLU:O	1.99	0.81
1:V:133:LEU:H	1:V:213:GLN:HE21	1.28	0.81
1:W:122:THR:OG1	1:W:298:GLU:O	1.99	0.81
1:W:133:LEU:H	1:W:213:GLN:HE21	1.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:133:LEU:H	1:6:213:GLN:HE21	1.28	0.81
1:z:122:THR:OG1	1:z:298:GLU:O	1.99	0.81
1:8:133:LEU:H	1:8:213:GLN:HE21	1.28	0.81
1:M:194:SER:HB3	1:M:197:ASN:HB2	1.62	0.81
1:X:177:VAL:HG21	1:X:340:LYS:HD3	1.61	0.81
1:Y:122:THR:OG1	1:Y:298:GLU:O	1.99	0.81
1:4:194:SER:HB3	1:4:197:ASN:HB2	1.61	0.81
1:c:122:THR:OG1	1:c:298:GLU:O	1.99	0.81
1:e:122:THR:OG1	1:e:298:GLU:O	1.99	0.81
1:h:133:LEU:H	1:h:213:GLN:HE21	1.28	0.81
1:F:177:VAL:HG21	1:F:340:LYS:HD3	1.61	0.81
1:H:122:THR:OG1	1:H:298:GLU:O	1.99	0.81
1:I:177:VAL:HG21	1:I:340:LYS:HD3	1.61	0.81
1:P:122:THR:OG1	1:P:298:GLU:O	1.99	0.81
1:R:122:THR:OG1	1:R:298:GLU:O	1.99	0.81
1:a:133:LEU:H	1:a:213:GLN:HE21	1.28	0.81
1:e:133:LEU:H	1:e:213:GLN:HE21	1.28	0.81
1:x:133:LEU:H	1:x:213:GLN:HE21	1.28	0.81
1:y:122:THR:OG1	1:y:298:GLU:O	1.99	0.81
1:B:122:THR:OG1	1:B:298:GLU:O	1.99	0.80
1:R:133:LEU:H	1:R:213:GLN:HE21	1.28	0.80
1:2:122:THR:OG1	1:2:298:GLU:O	1.99	0.80
1:d:122:THR:OG1	1:d:298:GLU:O	1.99	0.80
1:i:194:SER:HB3	1:i:197:ASN:HB2	1.62	0.80
1:n:122:THR:OG1	1:n:298:GLU:O	1.99	0.80
1:p:133:LEU:H	1:p:213:GLN:HE21	1.28	0.80
1:w:194:SER:HB3	1:w:197:ASN:HB2	1.61	0.80
1:A:122:THR:OG1	1:A:298:GLU:O	1.99	0.80
1:E:122:THR:OG1	1:E:298:GLU:O	1.99	0.80
1:F:133:LEU:H	1:F:213:GLN:HE21	1.28	0.80
1:1:122:THR:OG1	1:1:298:GLU:O	1.99	0.80
1:3:122:THR:OG1	1:3:298:GLU:O	1.99	0.80
1:b:177:VAL:HG21	1:b:340:LYS:HD3	1.61	0.80
1:f:122:THR:OG1	1:f:298:GLU:O	1.99	0.80
1:h:122:THR:OG1	1:h:298:GLU:O	1.99	0.80
1:k:122:THR:OG1	1:k:298:GLU:O	1.99	0.80
1:n:177:VAL:HG21	1:n:340:LYS:HD3	1.61	0.80
1:r:177:VAL:HG21	1:r:340:LYS:HD3	1.61	0.80
1:s:122:THR:OG1	1:s:298:GLU:O	1.99	0.80
1:u:122:THR:OG1	1:u:298:GLU:O	1.99	0.80
1:u:133:LEU:H	1:u:213:GLN:HE21	1.28	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:177:VAL:HG21	1:E:340:LYS:HD3	1.61	0.80
1:L:194:SER:HB3	1:L:197:ASN:HB2	1.62	0.80
1:T:133:LEU:H	1:T:213:GLN:HE21	1.28	0.80
1:Z:122:THR:OG1	1:Z:298:GLU:O	1.99	0.80
1:m:194:SER:HB3	1:m:197:ASN:HB2	1.62	0.80
1:g:122:THR:OG1	1:g:298:GLU:O	1.99	0.80
1:K:122:THR:OG1	1:K:298:GLU:O	1.99	0.80
1:P:177:VAL:HG21	1:P:340:LYS:HD3	1.61	0.80
1:o:122:THR:OG1	1:o:298:GLU:O	1.99	0.80
1:p:122:THR:OG1	1:p:298:GLU:O	1.99	0.80
1:F:122:THR:OG1	1:F:298:GLU:O	1.99	0.80
1:l:122:THR:OG1	1:l:298:GLU:O	1.99	0.80
1:Q:122:THR:OG1	1:Q:298:GLU:O	1.99	0.80
1:U:133:LEU:H	1:U:213:GLN:HE21	1.28	0.80
1:5:122:THR:OG1	1:5:298:GLU:O	1.99	0.80
1:6:122:THR:OG1	1:6:298:GLU:O	1.99	0.80
1:t:122:THR:OG1	1:t:298:GLU:O	1.99	0.80
1:y:177:VAL:HG21	1:y:340:LYS:HD3	1.61	0.80
1:y:194:SER:HB3	1:y:197:ASN:HB2	1.61	0.80
1:J:122:THR:OG1	1:J:298:GLU:O	1.99	0.80
1:4:122:THR:OG1	1:4:298:GLU:O	1.99	0.80
1:a:194:SER:HB3	1:a:197:ASN:HB2	1.61	0.80
1:s:133:LEU:H	1:s:213:GLN:HE21	1.28	0.80
1:t:133:LEU:H	1:t:213:GLN:HE21	1.28	0.80
1:w:122:THR:OG1	1:w:298:GLU:O	1.99	0.80
1:A:133:LEU:H	1:A:213:GLN:HE21	1.28	0.80
1:A:194:SER:HB3	1:A:197:ASN:HB2	1.62	0.80
1:M:122:THR:OG1	1:M:298:GLU:O	1.99	0.80
1:O:194:SER:HB3	1:O:197:ASN:HB2	1.62	0.80
1:P:194:SER:HB3	1:P:197:ASN:HB2	1.62	0.80
1:U:122:THR:OG1	1:U:298:GLU:O	1.99	0.80
1:V:122:THR:OG1	1:V:298:GLU:O	1.99	0.80
1:a:122:THR:OG1	1:a:298:GLU:O	1.99	0.80
1:i:122:THR:OG1	1:i:298:GLU:O	1.99	0.80
1:r:122:THR:OG1	1:r:298:GLU:O	1.99	0.80
1:t:194:SER:HB3	1:t:197:ASN:HB2	1.62	0.80
1:U:194:SER:HB3	1:U:197:ASN:HB2	1.62	0.80
1:V:194:SER:HB3	1:V:197:ASN:HB2	1.62	0.80
1:s:194:SER:HB3	1:s:197:ASN:HB2	1.62	0.80
1:G:133:LEU:H	1:G:213:GLN:HE21	1.28	0.79
1:I:122:THR:OG1	1:I:298:GLU:O	1.99	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:122:THR:OG1	1:x:298:GLU:O	1.99	0.79
1:8:194:SER:HB3	1:8:197:ASN:HB2	1.62	0.79
1:G:122:THR:OG1	1:G:298:GLU:O	1.99	0.79
1:P:133:LEU:H	1:P:213:GLN:HE21	1.28	0.79
1:T:122:THR:OG1	1:T:298:GLU:O	1.99	0.79
1:q:122:THR:OG1	1:q:298:GLU:O	1.99	0.79
1:S:133:LEU:H	1:S:213:GLN:HE21	1.28	0.79
1:m:122:THR:OG1	1:m:298:GLU:O	1.99	0.79
1:q:133:LEU:H	1:q:213:GLN:HE21	1.28	0.79
1:v:133:LEU:H	1:v:213:GLN:HE21	1.28	0.79
1:y:133:LEU:H	1:y:213:GLN:HE21	1.28	0.79
1:J:133:LEU:H	1:J:213:GLN:HE21	1.28	0.79
1:O:122:THR:OG1	1:O:298:GLU:O	1.99	0.79
1:7:122:THR:OG1	1:7:298:GLU:O	1.99	0.79
1:8:122:THR:OG1	1:8:298:GLU:O	1.99	0.79
1:E:133:LEU:H	1:E:213:GLN:HE21	1.28	0.79
1:N:122:THR:OG1	1:N:298:GLU:O	1.99	0.79
1:n:133:LEU:H	1:n:213:GLN:HE21	1.28	0.79
1:L:122:THR:OG1	1:L:298:GLU:O	1.99	0.79
1:T:258:ILE:HD12	1:T:365:LEU:HG	1.65	0.79
1:l:133:LEU:H	1:l:213:GLN:HE21	1.28	0.79
1:F:194:SER:HB3	1:F:197:ASN:HB2	1.62	0.79
1:X:133:LEU:H	1:X:213:GLN:HE21	1.28	0.79
1:d:258:ILE:HD12	1:d:365:LEU:HG	1.65	0.79
1:f:194:SER:HB3	1:f:197:ASN:HB2	1.62	0.79
1:p:194:SER:HB3	1:p:197:ASN:HB2	1.62	0.79
1:x:258:ILE:HD12	1:x:365:LEU:HG	1.65	0.79
1:H:258:ILE:HD12	1:H:365:LEU:HG	1.65	0.79
1:R:258:ILE:HD12	1:R:365:LEU:HG	1.65	0.79
1:Z:194:SER:HB3	1:Z:197:ASN:HB2	1.62	0.79
1:b:133:LEU:H	1:b:213:GLN:HE21	1.28	0.79
1:u:258:ILE:HD12	1:u:365:LEU:HG	1.65	0.79
1:5:258:ILE:HD12	1:5:365:LEU:HG	1.65	0.79
1:6:258:ILE:HD12	1:6:365:LEU:HG	1.65	0.79
1:r:133:LEU:H	1:r:213:GLN:HE21	1.28	0.79
1:v:122:THR:OG1	1:v:298:GLU:O	1.99	0.79
1:M:258:ILE:HD12	1:M:365:LEU:HG	1.65	0.78
1:S:122:THR:OG1	1:S:298:GLU:O	1.99	0.78
1:f:133:LEU:H	1:f:213:GLN:HE21	1.28	0.78
1:7:258:ILE:HD12	1:7:365:LEU:HG	1.65	0.78
1:I:133:LEU:H	1:I:213:GLN:HE21	1.28	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:258:ILE:HD12	1:N:365:LEU:HG	1.65	0.78
1:Z:133:LEU:H	1:Z:213:GLN:HE21	1.28	0.78
1:g:133:LEU:H	1:g:213:GLN:HE21	1.28	0.78
1:I:258:ILE:HD12	1:I:365:LEU:HG	1.65	0.78
1:i:258:ILE:HD12	1:i:365:LEU:HG	1.65	0.78
1:j:258:ILE:HD12	1:j:365:LEU:HG	1.65	0.78
1:r:258:ILE:HD12	1:r:365:LEU:HG	1.65	0.78
1:C:258:ILE:HD12	1:C:365:LEU:HG	1.65	0.78
1:K:133:LEU:H	1:K:213:GLN:HE21	1.28	0.78
1:D:258:ILE:HD12	1:D:365:LEU:HG	1.65	0.78
1:W:258:ILE:HD12	1:W:365:LEU:HG	1.65	0.78
1:4:133:LEU:H	1:4:213:GLN:HE21	1.28	0.78
1:e:258:ILE:HD12	1:e:365:LEU:HG	1.65	0.78
1:z:258:ILE:HD12	1:z:365:LEU:HG	1.65	0.78
1:w:133:LEU:H	1:w:213:GLN:HE21	1.28	0.78
1:E:258:ILE:HD12	1:E:365:LEU:HG	1.65	0.78
1:P:258:ILE:HD12	1:P:365:LEU:HG	1.65	0.78
1:X:258:ILE:HD12	1:X:365:LEU:HG	1.65	0.78
1:H:133:LEU:H	1:H:213:GLN:HE21	1.28	0.78
1:J:258:ILE:HD12	1:J:365:LEU:HG	1.65	0.78
1:K:258:ILE:HD12	1:K:365:LEU:HG	1.65	0.78
1:b:258:ILE:HD12	1:b:365:LEU:HG	1.65	0.78
1:g:258:ILE:HD12	1:g:365:LEU:HG	1.65	0.78
1:n:258:ILE:HD12	1:n:365:LEU:HG	1.65	0.78
1:o:258:ILE:HD12	1:o:365:LEU:HG	1.65	0.78
1:y:258:ILE:HD12	1:y:365:LEU:HG	1.65	0.78
1:G:258:ILE:HD12	1:G:365:LEU:HG	1.65	0.78
1:Q:258:ILE:HD12	1:Q:365:LEU:HG	1.65	0.78
1:l:258:ILE:HD12	1:l:365:LEU:HG	1.65	0.78
1:d:133:LEU:H	1:d:213:GLN:HE21	1.28	0.77
1:A:258:ILE:HD12	1:A:365:LEU:HG	1.65	0.77
1:q:258:ILE:HD12	1:q:365:LEU:HG	1.65	0.77
1:s:258:ILE:HD12	1:s:365:LEU:HG	1.65	0.77
1:L:258:ILE:HD12	1:L:365:LEU:HG	1.65	0.77
1:B:258:ILE:HD12	1:B:365:LEU:HG	1.65	0.77
1:1:258:ILE:HD12	1:1:365:LEU:HG	1.65	0.77
1:2:258:ILE:HD12	1:2:365:LEU:HG	1.65	0.77
1:f:258:ILE:HD12	1:f:365:LEU:HG	1.65	0.77
1:k:258:ILE:HD12	1:k:365:LEU:HG	1.65	0.77
1:m:258:ILE:HD12	1:m:365:LEU:HG	1.65	0.77
1:S:258:ILE:HD12	1:S:365:LEU:HG	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:258:ILE:HD12	1:Z:365:LEU:HG	1.65	0.77
1:3:258:ILE:HD12	1:3:365:LEU:HG	1.65	0.77
1:h:258:ILE:HD12	1:h:365:LEU:HG	1.65	0.77
1:O:258:ILE:HD12	1:O:365:LEU:HG	1.65	0.77
1:v:258:ILE:HD12	1:v:365:LEU:HG	1.65	0.77
1:8:258:ILE:HD12	1:8:365:LEU:HG	1.65	0.77
1:V:258:ILE:HD12	1:V:365:LEU:HG	1.65	0.77
1:F:258:ILE:HD12	1:F:365:LEU:HG	1.65	0.76
1:a:258:ILE:HD12	1:a:365:LEU:HG	1.65	0.76
1:p:258:ILE:HD12	1:p:365:LEU:HG	1.65	0.76
1:Y:258:ILE:HD12	1:Y:365:LEU:HG	1.65	0.76
1:c:258:ILE:HD12	1:c:365:LEU:HG	1.65	0.76
1:4:258:ILE:HD12	1:4:365:LEU:HG	1.65	0.76
1:U:258:ILE:HD12	1:U:365:LEU:HG	1.65	0.76
1:l:136:ASP:O	1:l:137:GLU:O	2.05	0.75
1:t:258:ILE:HD12	1:t:365:LEU:HG	1.65	0.75
1:w:258:ILE:HD12	1:w:365:LEU:HG	1.65	0.75
1:X:136:ASP:O	1:X:137:GLU:O	2.05	0.75
1:b:136:ASP:O	1:b:137:GLU:O	2.05	0.75
1:h:136:ASP:O	1:h:137:GLU:O	2.05	0.75
1:Z:136:ASP:O	1:Z:137:GLU:O	2.05	0.75
1:f:136:ASP:O	1:f:137:GLU:O	2.05	0.75
1:C:136:ASP:O	1:C:137:GLU:O	2.05	0.75
1:j:136:ASP:O	1:j:137:GLU:O	2.05	0.75
1:F:136:ASP:O	1:F:137:GLU:O	2.05	0.75
1:M:136:ASP:O	1:M:137:GLU:O	2.05	0.75
1:i:136:ASP:O	1:i:137:GLU:O	2.05	0.75
1:p:136:ASP:O	1:p:137:GLU:O	2.05	0.75
1:q:136:ASP:O	1:q:137:GLU:O	2.05	0.75
1:G:136:ASP:O	1:G:137:GLU:O	2.05	0.75
1:T:136:ASP:O	1:T:137:GLU:O	2.05	0.75
1:H:136:ASP:O	1:H:137:GLU:O	2.05	0.75
1:e:136:ASP:O	1:e:137:GLU:O	2.05	0.75
1:x:136:ASP:O	1:x:137:GLU:O	2.05	0.75
1:O:136:ASP:O	1:O:137:GLU:O	2.05	0.75
1:5:136:ASP:O	1:5:137:GLU:O	2.05	0.75
1:6:136:ASP:O	1:6:137:GLU:O	2.05	0.75
1:d:136:ASP:O	1:d:137:GLU:O	2.05	0.75
1:t:136:ASP:O	1:t:137:GLU:O	2.05	0.75
1:7:136:ASP:O	1:7:137:GLU:O	2.05	0.75
1:N:136:ASP:O	1:N:137:GLU:O	2.05	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:136:ASP:O	1:R:137:GLU:O	2.05	0.75
1:U:136:ASP:O	1:U:137:GLU:O	2.05	0.75
1:u:136:ASP:O	1:u:137:GLU:O	2.05	0.75
1:8:136:ASP:O	1:8:137:GLU:O	2.05	0.75
1:A:136:ASP:O	1:A:137:GLU:O	2.05	0.74
1:I:136:ASP:O	1:I:137:GLU:O	2.05	0.74
1:J:136:ASP:O	1:J:137:GLU:O	2.05	0.74
1:W:136:ASP:O	1:W:137:GLU:O	2.05	0.74
1:s:136:ASP:O	1:s:137:GLU:O	2.05	0.74
1:w:136:ASP:O	1:w:137:GLU:O	2.05	0.74
1:4:136:ASP:O	1:4:137:GLU:O	2.05	0.74
1:l:136:ASP:O	1:l:137:GLU:O	2.05	0.74
1:r:136:ASP:O	1:r:137:GLU:O	2.05	0.74
1:Y:136:ASP:O	1:Y:137:GLU:O	2.05	0.74
1:B:136:ASP:O	1:B:137:GLU:O	2.05	0.74
1:3:136:ASP:O	1:3:137:GLU:O	2.05	0.74
1:Q:136:ASP:O	1:Q:137:GLU:O	2.05	0.74
1:2:136:ASP:O	1:2:137:GLU:O	2.05	0.74
1:c:136:ASP:O	1:c:137:GLU:O	2.05	0.74
1:k:136:ASP:O	1:k:137:GLU:O	2.05	0.74
1:o:136:ASP:O	1:o:137:GLU:O	2.05	0.74
1:K:136:ASP:O	1:K:137:GLU:O	2.05	0.74
1:g:136:ASP:O	1:g:137:GLU:O	2.05	0.74
1:a:136:ASP:O	1:a:137:GLU:O	2.05	0.74
1:V:136:ASP:O	1:V:137:GLU:O	2.05	0.73
1:P:136:ASP:O	1:P:137:GLU:O	2.05	0.73
1:m:136:ASP:O	1:m:137:GLU:O	2.05	0.73
1:L:136:ASP:O	1:L:137:GLU:O	2.05	0.73
1:y:136:ASP:O	1:y:137:GLU:O	2.05	0.73
1:D:136:ASP:O	1:D:137:GLU:O	2.05	0.73
1:z:136:ASP:O	1:z:137:GLU:O	2.05	0.73
1:v:136:ASP:O	1:v:137:GLU:O	2.05	0.73
1:S:136:ASP:O	1:S:137:GLU:O	2.05	0.73
1:E:136:ASP:O	1:E:137:GLU:O	2.05	0.72
1:n:136:ASP:O	1:n:137:GLU:O	2.05	0.72
1:F:353:VAL:O	1:F:358:LYS:NZ	2.24	0.71
1:Y:353:VAL:O	1:Y:358:LYS:NZ	2.24	0.71
1:H:353:VAL:O	1:H:358:LYS:NZ	2.24	0.71
1:J:353:VAL:O	1:J:358:LYS:NZ	2.24	0.71
1:P:353:VAL:O	1:P:358:LYS:NZ	2.24	0.71
1:5:353:VAL:O	1:5:358:LYS:NZ	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:353:VAL:O	1:6:358:LYS:NZ	2.24	0.71
1:c:353:VAL:O	1:c:358:LYS:NZ	2.24	0.71
1:d:353:VAL:O	1:d:358:LYS:NZ	2.24	0.71
1:l:353:VAL:O	1:l:358:LYS:NZ	2.24	0.71
1:p:353:VAL:O	1:p:358:LYS:NZ	2.24	0.71
1:y:353:VAL:O	1:y:358:LYS:NZ	2.24	0.71
1:z:353:VAL:O	1:z:358:LYS:NZ	2.24	0.71
1:D:353:VAL:O	1:D:358:LYS:NZ	2.24	0.70
1:L:353:VAL:O	1:L:358:LYS:NZ	2.24	0.70
1:O:353:VAL:O	1:O:358:LYS:NZ	2.24	0.70
1:m:353:VAL:O	1:m:358:LYS:NZ	2.24	0.70
1:x:353:VAL:O	1:x:358:LYS:NZ	2.24	0.70
1:T:353:VAL:O	1:T:358:LYS:NZ	2.24	0.70
1:n:353:VAL:O	1:n:358:LYS:NZ	2.24	0.70
1:8:353:VAL:O	1:8:358:LYS:NZ	2.24	0.70
1:E:353:VAL:O	1:E:358:LYS:NZ	2.24	0.70
1:M:353:VAL:O	1:M:358:LYS:NZ	2.24	0.70
1:t:353:VAL:O	1:t:358:LYS:NZ	2.24	0.70
1:Q:353:VAL:O	1:Q:358:LYS:NZ	2.24	0.70
1:U:353:VAL:O	1:U:358:LYS:NZ	2.24	0.70
1:i:353:VAL:O	1:i:358:LYS:NZ	2.24	0.70
1:V:353:VAL:O	1:V:358:LYS:NZ	2.24	0.70
1:o:353:VAL:O	1:o:358:LYS:NZ	2.24	0.70
1:q:353:VAL:O	1:q:358:LYS:NZ	2.24	0.70
1:w:353:VAL:O	1:w:358:LYS:NZ	2.24	0.70
1:G:353:VAL:O	1:G:358:LYS:NZ	2.24	0.70
1:N:353:VAL:O	1:N:358:LYS:NZ	2.24	0.70
1:W:353:VAL:O	1:W:358:LYS:NZ	2.24	0.70
1:X:353:VAL:O	1:X:358:LYS:NZ	2.24	0.70
1:2:353:VAL:O	1:2:358:LYS:NZ	2.24	0.70
1:4:353:VAL:O	1:4:358:LYS:NZ	2.24	0.70
1:b:353:VAL:O	1:b:358:LYS:NZ	2.24	0.70
1:e:353:VAL:O	1:e:358:LYS:NZ	2.24	0.70
1:7:353:VAL:O	1:7:358:LYS:NZ	2.24	0.70
1:3:353:VAL:O	1:3:358:LYS:NZ	2.24	0.70
1:a:353:VAL:O	1:a:358:LYS:NZ	2.24	0.70
1:v:353:VAL:O	1:v:358:LYS:NZ	2.24	0.70
1:S:353:VAL:O	1:S:358:LYS:NZ	2.24	0.70
1:Z:353:VAL:O	1:Z:358:LYS:NZ	2.24	0.70
1:A:353:VAL:O	1:A:358:LYS:NZ	2.24	0.70
1:K:353:VAL:O	1:K:358:LYS:NZ	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:353:VAL:O	1:f:358:LYS:NZ	2.24	0.70
1:B:353:VAL:O	1:B:358:LYS:NZ	2.24	0.70
1:k:353:VAL:O	1:k:358:LYS:NZ	2.24	0.70
1:s:353:VAL:O	1:s:358:LYS:NZ	2.24	0.70
1:I:353:VAL:O	1:I:358:LYS:NZ	2.24	0.69
1:g:353:VAL:O	1:g:358:LYS:NZ	2.24	0.69
1:r:353:VAL:O	1:r:358:LYS:NZ	2.24	0.69
1:u:353:VAL:O	1:u:358:LYS:NZ	2.24	0.69
1:l:353:VAL:O	1:l:358:LYS:NZ	2.24	0.69
1:R:353:VAL:O	1:R:358:LYS:NZ	2.24	0.69
1:h:353:VAL:O	1:h:358:LYS:NZ	2.24	0.69
1:C:353:VAL:O	1:C:358:LYS:NZ	2.24	0.69
1:j:353:VAL:O	1:j:358:LYS:NZ	2.24	0.69
1:S:258:ILE:HA	1:S:367:ASP:HA	1.75	0.69
1:X:258:ILE:HA	1:X:367:ASP:HA	1.75	0.69
1:Y:258:ILE:HA	1:Y:367:ASP:HA	1.75	0.69
1:b:258:ILE:HA	1:b:367:ASP:HA	1.75	0.69
1:c:258:ILE:HA	1:c:367:ASP:HA	1.75	0.69
1:e:280:THR:HA	1:q:149:THR:HG21	1.75	0.69
1:v:258:ILE:HA	1:v:367:ASP:HA	1.75	0.69
1:t:258:ILE:HA	1:t:367:ASP:HA	1.75	0.69
1:A:258:ILE:HA	1:A:367:ASP:HA	1.75	0.68
1:U:258:ILE:HA	1:U:367:ASP:HA	1.75	0.68
1:i:149:THR:HG21	1:7:280:THR:HA	1.75	0.68
1:O:258:ILE:HA	1:O:367:ASP:HA	1.75	0.68
1:4:258:ILE:HA	1:4:367:ASP:HA	1.75	0.68
1:h:258:ILE:HA	1:h:367:ASP:HA	1.75	0.68
1:s:258:ILE:HA	1:s:367:ASP:HA	1.75	0.68
1:8:258:ILE:HA	1:8:367:ASP:HA	1.75	0.68
1:Z:258:ILE:HA	1:Z:367:ASP:HA	1.75	0.68
1:1:258:ILE:HA	1:1:367:ASP:HA	1.75	0.68
1:f:258:ILE:HA	1:f:367:ASP:HA	1.75	0.68
1:w:258:ILE:HA	1:w:367:ASP:HA	1.75	0.68
1:5:258:ILE:HA	1:5:367:ASP:HA	1.75	0.68
1:6:258:ILE:HA	1:6:367:ASP:HA	1.75	0.68
1:D:258:ILE:HA	1:D:367:ASP:HA	1.75	0.68
1:P:258:ILE:HA	1:P:367:ASP:HA	1.75	0.68
1:J:258:ILE:HA	1:J:367:ASP:HA	1.75	0.68
1:2:258:ILE:HA	1:2:367:ASP:HA	1.75	0.68
1:y:258:ILE:HA	1:y:367:ASP:HA	1.75	0.68
1:N:258:ILE:HA	1:N:367:ASP:HA	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:280:THR:HA	1:c:149:THR:HG21	1.76	0.68
1:3:258:ILE:HA	1:3:367:ASP:HA	1.75	0.68
1:l:258:ILE:HA	1:l:367:ASP:HA	1.75	0.68
1:z:258:ILE:HA	1:z:367:ASP:HA	1.75	0.68
1:i:258:ILE:HA	1:i:367:ASP:HA	1.75	0.68
1:l:280:THR:HA	1:r:149:THR:HG21	1.76	0.68
1:7:258:ILE:HA	1:7:367:ASP:HA	1.75	0.68
1:I:149:THR:HG21	1:J:280:THR:HA	1.76	0.68
1:M:258:ILE:HA	1:M:367:ASP:HA	1.75	0.68
1:B:280:THR:HA	1:C:149:THR:HG21	1.76	0.67
1:L:258:ILE:HA	1:L:367:ASP:HA	1.75	0.67
1:W:258:ILE:HA	1:W:367:ASP:HA	1.75	0.67
1:e:258:ILE:HA	1:e:367:ASP:HA	1.75	0.67
1:m:258:ILE:HA	1:m:367:ASP:HA	1.75	0.67
1:o:258:ILE:HA	1:o:367:ASP:HA	1.75	0.67
1:C:258:ILE:HA	1:C:367:ASP:HA	1.75	0.67
1:X:149:THR:HG21	1:Y:280:THR:HA	1.75	0.67
1:j:149:THR:HG21	1:k:280:THR:HA	1.76	0.67
1:G:149:THR:HG21	1:W:280:THR:HA	1.76	0.67
1:T:149:THR:HG21	1:U:280:THR:HA	1.76	0.67
1:H:280:THR:HA	1:Z:149:THR:HG21	1.77	0.67
1:Q:258:ILE:HA	1:Q:367:ASP:HA	1.75	0.67
1:S:149:THR:HG21	1:4:280:THR:HA	1.77	0.67
1:Y:149:THR:HG21	1:x:280:THR:HA	1.77	0.67
1:b:149:THR:HG21	1:c:280:THR:HA	1.75	0.67
1:j:258:ILE:HA	1:j:367:ASP:HA	1.75	0.67
1:t:280:THR:HA	1:x:149:THR:HG21	1.77	0.67
1:v:149:THR:HG21	1:w:280:THR:HA	1.77	0.67
1:P:149:THR:HG21	1:Q:280:THR:HA	1.77	0.67
1:Q:149:THR:HG21	1:S:280:THR:HA	1.76	0.67
1:T:258:ILE:HA	1:T:367:ASP:HA	1.75	0.67
1:h:280:THR:HA	1:l:149:THR:HG21	1.77	0.67
1:o:149:THR:HG21	1:v:280:THR:HA	1.76	0.67
1:o:280:THR:HA	1:y:149:THR:HG21	1.77	0.67
1:A:280:THR:HA	1:B:149:THR:HG21	1.77	0.67
1:I:258:ILE:HA	1:I:367:ASP:HA	1.75	0.67
1:X:280:THR:HA	1:6:149:THR:HG21	1.77	0.67
1:d:258:ILE:HA	1:d:367:ASP:HA	1.75	0.67
1:g:258:ILE:HA	1:g:367:ASP:HA	1.75	0.67
1:y:280:THR:HA	1:8:149:THR:HG21	1.77	0.67
1:E:258:ILE:HA	1:E:367:ASP:HA	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:258:ILE:HA	1:H:367:ASP:HA	1.75	0.67
1:J:149:THR:HG21	1:1:280:THR:HA	1.77	0.67
1:M:149:THR:HG21	1:N:280:THR:HA	1.77	0.67
1:V:258:ILE:HA	1:V:367:ASP:HA	1.75	0.67
1:k:149:THR:HG21	1:s:280:THR:HA	1.77	0.67
1:n:258:ILE:HA	1:n:367:ASP:HA	1.75	0.67
1:x:258:ILE:HA	1:x:367:ASP:HA	1.75	0.67
1:B:258:ILE:HA	1:B:367:ASP:HA	1.75	0.67
1:5:149:THR:HG21	1:b:280:THR:HA	1.77	0.67
1:i:81:ILE:HB	1:i:273:LEU:HB2	1.77	0.67
1:K:258:ILE:HA	1:K:367:ASP:HA	1.75	0.67
1:M:81:ILE:HB	1:M:273:LEU:HB2	1.77	0.67
1:O:149:THR:HG21	1:P:280:THR:HA	1.77	0.67
1:d:280:THR:HA	1:f:149:THR:HG21	1.77	0.67
1:k:258:ILE:HA	1:k:367:ASP:HA	1.75	0.67
1:r:258:ILE:HA	1:r:367:ASP:HA	1.75	0.67
1:H:81:ILE:HB	1:H:273:LEU:HB2	1.77	0.67
1:a:258:ILE:HA	1:a:367:ASP:HA	1.75	0.67
1:n:280:THR:HA	1:s:149:THR:HG21	1.77	0.67
1:A:149:THR:HG21	1:E:280:THR:HA	1.77	0.66
1:F:258:ILE:HA	1:F:367:ASP:HA	1.75	0.66
1:G:258:ILE:HA	1:G:367:ASP:HA	1.75	0.66
1:d:81:ILE:HB	1:d:273:LEU:HB2	1.77	0.66
1:e:81:ILE:HB	1:e:273:LEU:HB2	1.77	0.66
1:R:81:ILE:HB	1:R:273:LEU:HB2	1.77	0.66
1:T:81:ILE:HB	1:T:273:LEU:HB2	1.77	0.66
1:U:149:THR:HG21	1:5:280:THR:HA	1.77	0.66
1:W:81:ILE:HB	1:W:273:LEU:HB2	1.77	0.66
1:1:81:ILE:HB	1:1:273:LEU:HB2	1.77	0.66
1:l:81:ILE:HB	1:l:273:LEU:HB2	1.77	0.66
1:x:81:ILE:HB	1:x:273:LEU:HB2	1.77	0.66
1:A:265:ASN:HD21	1:A:350:CYS:H	1.44	0.66
1:I:81:ILE:HB	1:I:273:LEU:HB2	1.77	0.66
1:J:81:ILE:HB	1:J:273:LEU:HB2	1.77	0.66
1:J:265:ASN:HD21	1:J:350:CYS:H	1.44	0.66
1:R:258:ILE:HA	1:R:367:ASP:HA	1.75	0.66
1:S:265:ASN:HD21	1:S:350:CYS:H	1.44	0.66
1:6:280:THR:HA	1:t:149:THR:HG21	1.77	0.66
1:b:81:ILE:HB	1:b:273:LEU:HB2	1.77	0.66
1:h:81:ILE:HB	1:h:273:LEU:HB2	1.77	0.66
1:p:258:ILE:HA	1:p:367:ASP:HA	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:258:ILE:HA	1:q:367:ASP:HA	1.75	0.66
1:r:81:ILE:HB	1:r:273:LEU:HB2	1.77	0.66
1:s:265:ASN:HD21	1:s:350:CYS:H	1.44	0.66
1:u:81:ILE:HB	1:u:273:LEU:HB2	1.77	0.66
1:u:258:ILE:HA	1:u:367:ASP:HA	1.75	0.66
1:8:81:ILE:HB	1:8:273:LEU:HB2	1.77	0.66
1:G:81:ILE:HB	1:G:273:LEU:HB2	1.77	0.66
1:K:81:ILE:HB	1:K:273:LEU:HB2	1.77	0.66
1:N:265:ASN:HD21	1:N:350:CYS:H	1.44	0.66
1:O:265:ASN:HD21	1:O:350:CYS:H	1.44	0.66
1:X:81:ILE:HB	1:X:273:LEU:HB2	1.77	0.66
1:g:81:ILE:HB	1:g:273:LEU:HB2	1.77	0.66
1:l:265:ASN:HD21	1:l:350:CYS:H	1.44	0.66
1:v:265:ASN:HD21	1:v:350:CYS:H	1.44	0.66
1:8:265:ASN:HD21	1:8:350:CYS:H	1.44	0.66
1:E:265:ASN:HD21	1:E:350:CYS:H	1.44	0.66
1:K:265:ASN:HD21	1:K:350:CYS:H	1.44	0.66
1:L:265:ASN:HD21	1:L:350:CYS:H	1.44	0.66
1:O:81:ILE:HB	1:O:273:LEU:HB2	1.78	0.66
1:g:265:ASN:HD21	1:g:350:CYS:H	1.44	0.66
1:q:81:ILE:HB	1:q:273:LEU:HB2	1.77	0.66
1:7:265:ASN:HD21	1:7:350:CYS:H	1.44	0.66
1:C:280:THR:HA	1:D:149:THR:HG21	1.77	0.66
1:F:81:ILE:HB	1:F:273:LEU:HB2	1.77	0.66
1:F:265:ASN:HD21	1:F:350:CYS:H	1.44	0.66
1:Z:265:ASN:HD21	1:Z:350:CYS:H	1.44	0.66
1:1:265:ASN:HD21	1:1:350:CYS:H	1.44	0.66
1:3:81:ILE:HB	1:3:273:LEU:HB2	1.78	0.66
1:h:265:ASN:HD21	1:h:350:CYS:H	1.44	0.66
1:j:280:THR:HA	1:z:149:THR:HG21	1.77	0.66
1:m:265:ASN:HD21	1:m:350:CYS:H	1.44	0.66
1:n:265:ASN:HD21	1:n:350:CYS:H	1.44	0.66
1:f:265:ASN:HD21	1:f:350:CYS:H	1.44	0.66
1:p:265:ASN:HD21	1:p:350:CYS:H	1.44	0.66
1:G:265:ASN:HD21	1:G:350:CYS:H	1.44	0.66
1:H:149:THR:HG21	1:I:280:THR:HA	1.77	0.66
1:S:81:ILE:HB	1:S:273:LEU:HB2	1.77	0.66
1:2:81:ILE:HB	1:2:273:LEU:HB2	1.78	0.66
1:d:149:THR:HG21	1:r:280:THR:HA	1.77	0.66
1:p:81:ILE:HB	1:p:273:LEU:HB2	1.77	0.66
1:m:81:ILE:HB	1:m:273:LEU:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:81:ILE:HB	1:v:273:LEU:HB2	1.77	0.66
1:D:280:THR:HA	1:E:149:THR:HG21	1.76	0.66
1:L:149:THR:HG21	1:2:280:THR:HA	1.77	0.66
1:T:265:ASN:HD21	1:T:350:CYS:H	1.44	0.66
1:Y:81:ILE:HB	1:Y:273:LEU:HB2	1.78	0.66
1:o:265:ASN:HD21	1:o:350:CYS:H	1.44	0.66
1:q:265:ASN:HD21	1:q:350:CYS:H	1.44	0.66
1:B:265:ASN:HD21	1:B:350:CYS:H	1.44	0.65
1:E:81:ILE:HB	1:E:273:LEU:HB2	1.77	0.65
1:H:265:ASN:HD21	1:H:350:CYS:H	1.44	0.65
1:L:81:ILE:HB	1:L:273:LEU:HB2	1.78	0.65
1:M:280:THR:HA	1:3:149:THR:HG21	1.77	0.65
1:Q:265:ASN:HD21	1:Q:350:CYS:H	1.44	0.65
1:3:280:THR:HA	1:m:149:THR:HG21	1.77	0.65
1:d:265:ASN:HD21	1:d:350:CYS:H	1.44	0.65
1:n:81:ILE:HB	1:n:273:LEU:HB2	1.77	0.65
1:x:265:ASN:HD21	1:x:350:CYS:H	1.44	0.65
1:z:265:ASN:HD21	1:z:350:CYS:H	1.44	0.65
1:D:265:ASN:HD21	1:D:350:CYS:H	1.44	0.65
1:R:280:THR:HA	1:V:149:THR:HG21	1.76	0.65
1:2:149:THR:HG21	1:i:280:THR:HA	1.77	0.65
1:6:81:ILE:HB	1:6:273:LEU:HB2	1.77	0.65
1:c:81:ILE:HB	1:c:273:LEU:HB2	1.78	0.65
1:n:149:THR:HG21	1:z:280:THR:HA	1.77	0.65
1:P:81:ILE:HB	1:P:273:LEU:HB2	1.77	0.65
1:R:265:ASN:HD21	1:R:350:CYS:H	1.44	0.65
1:k:265:ASN:HD21	1:k:350:CYS:H	1.44	0.65
1:w:149:THR:HG21	1:8:280:THR:HA	1.77	0.65
1:D:81:ILE:HB	1:D:273:LEU:HB2	1.78	0.65
1:O:280:THR:HA	1:4:149:THR:HG21	1.77	0.65
1:V:280:THR:HA	1:W:149:THR:HG21	1.77	0.65
1:Y:265:ASN:HD21	1:Y:350:CYS:H	1.44	0.65
1:5:81:ILE:HB	1:5:273:LEU:HB2	1.77	0.65
1:f:280:THR:HA	1:h:149:THR:HG21	1.77	0.65
1:p:149:THR:HG21	1:q:280:THR:HA	1.76	0.65
1:z:81:ILE:HB	1:z:273:LEU:HB2	1.77	0.65
1:C:265:ASN:HD21	1:C:350:CYS:H	1.44	0.65
1:K:149:THR:HG21	1:L:280:THR:HA	1.76	0.65
1:X:265:ASN:HD21	1:X:350:CYS:H	1.44	0.65
1:Z:280:THR:HA	1:1:149:THR:HG21	1.77	0.65
1:4:81:ILE:HB	1:4:273:LEU:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:265:ASN:HD21	1:b:350:CYS:H	1.44	0.65
1:c:265:ASN:HD21	1:c:350:CYS:H	1.44	0.65
1:j:265:ASN:HD21	1:j:350:CYS:H	1.44	0.65
1:u:265:ASN:HD21	1:u:350:CYS:H	1.44	0.65
1:y:81:ILE:HB	1:y:273:LEU:HB2	1.77	0.65
1:F:149:THR:HG21	1:G:280:THR:HA	1.77	0.65
1:a:149:THR:HG21	1:u:280:THR:HA	1.76	0.65
1:s:81:ILE:HB	1:s:273:LEU:HB2	1.77	0.65
1:w:81:ILE:HB	1:w:273:LEU:HB2	1.77	0.65
1:A:81:ILE:HB	1:A:273:LEU:HB2	1.77	0.65
1:F:280:THR:HA	1:R:149:THR:HG21	1.77	0.65
1:K:280:THR:HA	1:7:149:THR:HG21	1.77	0.65
1:N:81:ILE:HB	1:N:273:LEU:HB2	1.77	0.65
1:f:81:ILE:HB	1:f:273:LEU:HB2	1.77	0.65
1:U:81:ILE:HB	1:U:273:LEU:HB2	1.78	0.65
1:Z:81:ILE:HB	1:Z:273:LEU:HB2	1.77	0.65
1:p:280:THR:HA	1:u:149:THR:HG21	1.77	0.65
1:7:81:ILE:HB	1:7:273:LEU:HB2	1.78	0.65
1:V:81:ILE:HB	1:V:273:LEU:HB2	1.77	0.65
1:g:149:THR:HG21	1:m:280:THR:HA	1.77	0.65
1:W:265:ASN:HD21	1:W:350:CYS:H	1.44	0.65
1:e:265:ASN:HD21	1:e:350:CYS:H	1.44	0.65
1:j:81:ILE:HB	1:j:273:LEU:HB2	1.77	0.65
1:o:81:ILE:HB	1:o:273:LEU:HB2	1.77	0.65
1:t:81:ILE:HB	1:t:273:LEU:HB2	1.78	0.65
1:y:265:ASN:HD21	1:y:350:CYS:H	1.44	0.65
1:P:265:ASN:HD21	1:P:350:CYS:H	1.44	0.64
1:Q:81:ILE:HB	1:Q:273:LEU:HB2	1.77	0.64
1:a:81:ILE:HB	1:a:273:LEU:HB2	1.77	0.64
1:N:149:THR:HG21	1:g:280:THR:HA	1.77	0.64
1:C:81:ILE:HB	1:C:273:LEU:HB2	1.77	0.64
1:4:265:ASN:HD21	1:4:350:CYS:H	1.44	0.64
1:V:265:ASN:HD21	1:V:350:CYS:H	1.44	0.64
1:k:81:ILE:HB	1:k:273:LEU:HB2	1.77	0.64
1:6:265:ASN:HD21	1:6:350:CYS:H	1.44	0.64
1:a:265:ASN:HD21	1:a:350:CYS:H	1.44	0.64
1:w:265:ASN:HD21	1:w:350:CYS:H	1.44	0.64
1:B:81:ILE:HB	1:B:273:LEU:HB2	1.77	0.64
1:3:265:ASN:HD21	1:3:350:CYS:H	1.44	0.64
1:5:265:ASN:HD21	1:5:350:CYS:H	1.44	0.64
1:U:265:ASN:HD21	1:U:350:CYS:H	1.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:265:ASN:HD21	1:2:350:CYS:H	1.44	0.64
1:t:265:ASN:HD21	1:t:350:CYS:H	1.44	0.63
1:I:265:ASN:HD21	1:I:350:CYS:H	1.44	0.63
1:r:265:ASN:HD21	1:r:350:CYS:H	1.44	0.63
1:V:77:PRO:HG3	1:V:284:GLN:HE21	1.64	0.63
1:W:77:PRO:HG3	1:W:284:GLN:HE21	1.64	0.63
1:a:280:THR:HA	1:e:149:THR:HG21	1.80	0.63
1:e:77:PRO:HG3	1:e:284:GLN:HE21	1.64	0.63
1:F:77:PRO:HG3	1:F:284:GLN:HE21	1.64	0.63
1:H:89:ARG:HH21	1:H:236:ASN:HB3	1.64	0.63
1:2:77:PRO:HG3	1:2:284:GLN:HE21	1.64	0.63
1:3:77:PRO:HG3	1:3:284:GLN:HE21	1.64	0.63
1:a:77:PRO:HG3	1:a:284:GLN:HE21	1.64	0.63
1:m:89:ARG:HH21	1:m:236:ASN:HB3	1.64	0.63
1:p:77:PRO:HG3	1:p:284:GLN:HE21	1.64	0.63
1:y:77:PRO:HG3	1:y:284:GLN:HE21	1.64	0.63
1:G:77:PRO:HG3	1:G:284:GLN:HE21	1.64	0.63
1:P:77:PRO:HG3	1:P:284:GLN:HE21	1.64	0.63
1:T:77:PRO:HG3	1:T:284:GLN:HE21	1.64	0.63
1:U:77:PRO:HG3	1:U:284:GLN:HE21	1.64	0.63
1:W:89:ARG:HH21	1:W:236:ASN:HB3	1.64	0.63
1:h:77:PRO:HG3	1:h:284:GLN:HE21	1.64	0.63
1:q:77:PRO:HG3	1:q:284:GLN:HE21	1.64	0.63
1:t:77:PRO:HG3	1:t:284:GLN:HE21	1.64	0.63
1:x:77:PRO:HG3	1:x:284:GLN:HE21	1.64	0.63
1:7:89:ARG:HH21	1:7:236:ASN:HB3	1.64	0.63
1:M:77:PRO:HG3	1:M:284:GLN:HE21	1.64	0.62
1:1:77:PRO:HG3	1:1:284:GLN:HE21	1.64	0.62
1:e:89:ARG:HH21	1:e:236:ASN:HB3	1.64	0.62
1:L:89:ARG:HH21	1:L:236:ASN:HB3	1.65	0.62
1:M:89:ARG:HH21	1:M:236:ASN:HB3	1.64	0.62
1:N:89:ARG:HH21	1:N:236:ASN:HB3	1.65	0.62
1:i:89:ARG:HH21	1:i:236:ASN:HB3	1.64	0.62
1:k:77:PRO:HG3	1:k:284:GLN:HE21	1.64	0.62
1:m:77:PRO:HG3	1:m:284:GLN:HE21	1.64	0.62
1:B:77:PRO:HG3	1:B:284:GLN:HE21	1.64	0.62
1:M:265:ASN:HD21	1:M:350:CYS:H	1.44	0.62
1:Y:77:PRO:HG3	1:Y:284:GLN:HE21	1.64	0.62
1:b:77:PRO:HG3	1:b:284:GLN:HE21	1.64	0.62
1:d:89:ARG:HH21	1:d:236:ASN:HB3	1.65	0.62
1:f:89:ARG:HH21	1:f:236:ASN:HB3	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:77:PRO:HG3	1:i:284:GLN:HE21	1.64	0.62
1:s:77:PRO:HG3	1:s:284:GLN:HE21	1.64	0.62
1:A:77:PRO:HG3	1:A:284:GLN:HE21	1.64	0.62
1:X:77:PRO:HG3	1:X:284:GLN:HE21	1.64	0.62
1:Z:89:ARG:HH21	1:Z:236:ASN:HB3	1.64	0.62
1:c:77:PRO:HG3	1:c:284:GLN:HE21	1.64	0.62
1:D:77:PRO:HG3	1:D:284:GLN:HE21	1.64	0.62
1:L:77:PRO:HG3	1:L:284:GLN:HE21	1.64	0.62
1:F:89:ARG:HH21	1:F:236:ASN:HB3	1.64	0.62
1:K:77:PRO:HG3	1:K:284:GLN:HE21	1.64	0.62
1:X:89:ARG:HH21	1:X:236:ASN:HB3	1.64	0.62
1:g:77:PRO:HG3	1:g:284:GLN:HE21	1.64	0.62
1:p:89:ARG:HH21	1:p:236:ASN:HB3	1.64	0.62
1:z:77:PRO:HG3	1:z:284:GLN:HE21	1.64	0.62
1:8:77:PRO:HG3	1:8:284:GLN:HE21	1.64	0.62
1:C:77:PRO:HG3	1:C:284:GLN:HE21	1.64	0.62
1:O:77:PRO:HG3	1:O:284:GLN:HE21	1.64	0.62
1:b:89:ARG:HH21	1:b:236:ASN:HB3	1.64	0.62
1:f:77:PRO:HG3	1:f:284:GLN:HE21	1.64	0.62
1:i:265:ASN:HD21	1:i:350:CYS:H	1.44	0.62
1:j:77:PRO:HG3	1:j:284:GLN:HE21	1.64	0.62
1:Z:77:PRO:HG3	1:Z:284:GLN:HE21	1.64	0.62
1:a:89:ARG:HH21	1:a:236:ASN:HB3	1.64	0.62
1:V:89:ARG:HH21	1:V:236:ASN:HB3	1.64	0.62
1:o:89:ARG:HH21	1:o:236:ASN:HB3	1.64	0.62
1:A:89:ARG:HH21	1:A:236:ASN:HB3	1.64	0.62
1:P:89:ARG:HH21	1:P:236:ASN:HB3	1.64	0.62
1:Q:89:ARG:HH21	1:Q:236:ASN:HB3	1.64	0.62
1:v:89:ARG:HH21	1:v:236:ASN:HB3	1.64	0.62
1:y:89:ARG:HH21	1:y:236:ASN:HB3	1.64	0.62
1:O:89:ARG:HH21	1:O:236:ASN:HB3	1.64	0.61
1:R:77:PRO:HG3	1:R:284:GLN:HE21	1.64	0.61
1:4:77:PRO:HG3	1:4:284:GLN:HE21	1.64	0.61
1:j:89:ARG:HH21	1:j:236:ASN:HB3	1.64	0.61
1:w:77:PRO:HG3	1:w:284:GLN:HE21	1.64	0.61
1:C:89:ARG:HH21	1:C:236:ASN:HB3	1.64	0.61
1:I:77:PRO:HG3	1:I:284:GLN:HE21	1.64	0.61
1:S:77:PRO:HG3	1:S:284:GLN:HE21	1.64	0.61
1:S:89:ARG:HH21	1:S:236:ASN:HB3	1.64	0.61
1:2:89:ARG:HH21	1:2:236:ASN:HB3	1.64	0.61
1:v:77:PRO:HG3	1:v:284:GLN:HE21	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:89:ARG:HH21	1:8:236:ASN:HB3	1.64	0.61
1:B:89:ARG:HH21	1:B:236:ASN:HB3	1.64	0.61
1:3:89:ARG:HH21	1:3:236:ASN:HB3	1.64	0.61
1:k:89:ARG:HH21	1:k:236:ASN:HB3	1.64	0.61
1:s:89:ARG:HH21	1:s:236:ASN:HB3	1.64	0.61
1:u:77:PRO:HG3	1:u:284:GLN:HE21	1.64	0.61
1:Y:149:THR:HG23	1:x:285:PHE:HE1	1.66	0.61
1:h:89:ARG:HH21	1:h:236:ASN:HB3	1.64	0.61
1:G:89:ARG:HH21	1:G:236:ASN:HB3	1.64	0.61
1:q:89:ARG:HH21	1:q:236:ASN:HB3	1.64	0.61
1:r:77:PRO:HG3	1:r:284:GLN:HE21	1.64	0.61
1:1:89:ARG:HH21	1:1:236:ASN:HB3	1.64	0.61
1:5:89:ARG:HH21	1:5:236:ASN:HB3	1.64	0.61
1:u:89:ARG:HH21	1:u:236:ASN:HB3	1.64	0.61
1:Q:77:PRO:HG3	1:Q:284:GLN:HE21	1.64	0.61
1:R:89:ARG:HH21	1:R:236:ASN:HB3	1.64	0.61
1:T:285:PHE:HE1	1:c:149:THR:HG23	1.66	0.61
1:K:89:ARG:HH21	1:K:236:ASN:HB3	1.64	0.61
1:N:77:PRO:HG3	1:N:284:GLN:HE21	1.64	0.61
1:6:89:ARG:HH21	1:6:236:ASN:HB3	1.64	0.61
1:l:89:ARG:HH21	1:l:236:ASN:HB3	1.64	0.61
1:o:77:PRO:HG3	1:o:284:GLN:HE21	1.64	0.61
1:E:77:PRO:HG3	1:E:284:GLN:HE21	1.64	0.61
1:D:89:ARG:HH21	1:D:236:ASN:HB3	1.65	0.61
1:J:89:ARG:HH21	1:J:236:ASN:HB3	1.64	0.61
1:n:77:PRO:HG3	1:n:284:GLN:HE21	1.64	0.61
1:z:89:ARG:HH21	1:z:236:ASN:HB3	1.64	0.61
1:I:89:ARG:HH21	1:I:236:ASN:HB3	1.64	0.60
1:7:77:PRO:HG3	1:7:284:GLN:HE21	1.64	0.60
1:H:77:PRO:HG3	1:H:284:GLN:HE21	1.64	0.60
1:T:89:ARG:HH21	1:T:236:ASN:HB3	1.64	0.60
1:r:89:ARG:HH21	1:r:236:ASN:HB3	1.64	0.60
1:t:89:ARG:HH21	1:t:236:ASN:HB3	1.64	0.60
1:g:89:ARG:HH21	1:g:236:ASN:HB3	1.64	0.60
1:x:89:ARG:HH21	1:x:236:ASN:HB3	1.64	0.60
1:U:89:ARG:HH21	1:U:236:ASN:HB3	1.65	0.60
1:d:77:PRO:HG3	1:d:284:GLN:HE21	1.64	0.60
1:n:89:ARG:HH21	1:n:236:ASN:HB3	1.64	0.60
1:E:89:ARG:HH21	1:E:236:ASN:HB3	1.64	0.60
1:I:83:ILE:HD12	1:I:186:LEU:HD13	1.84	0.60
1:Y:89:ARG:HH21	1:Y:236:ASN:HB3	1.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:77:PRO:HG3	1:5:284:GLN:HE21	1.64	0.60
1:w:89:ARG:HH21	1:w:236:ASN:HB3	1.64	0.60
1:R:249:VAL:HG11	1:R:260:VAL:HG12	1.84	0.60
1:W:83:ILE:HD12	1:W:186:LEU:HD13	1.84	0.60
1:c:89:ARG:HH21	1:c:236:ASN:HB3	1.64	0.60
1:e:83:ILE:HD12	1:e:186:LEU:HD13	1.84	0.60
1:u:249:VAL:HG11	1:u:260:VAL:HG12	1.84	0.60
1:C:249:VAL:HG11	1:C:260:VAL:HG12	1.84	0.60
1:K:249:VAL:HG11	1:K:260:VAL:HG12	1.84	0.60
1:M:83:ILE:HD12	1:M:186:LEU:HD13	1.84	0.60
1:6:77:PRO:HG3	1:6:284:GLN:HE21	1.64	0.60
1:c:83:ILE:HD12	1:c:186:LEU:HD13	1.84	0.60
1:r:83:ILE:HD12	1:r:186:LEU:HD13	1.84	0.60
1:A:249:VAL:HG11	1:A:260:VAL:HG12	1.84	0.60
1:B:285:PHE:HE1	1:C:149:THR:HG23	1.67	0.60
1:K:285:PHE:HE1	1:7:149:THR:HG23	1.65	0.60
1:M:249:VAL:HG11	1:M:260:VAL:HG12	1.84	0.60
1:O:249:VAL:HG11	1:O:260:VAL:HG12	1.84	0.60
1:S:83:ILE:HD12	1:S:186:LEU:HD13	1.84	0.60
1:Y:83:ILE:HD12	1:Y:186:LEU:HD13	1.84	0.60
1:4:89:ARG:HH21	1:4:236:ASN:HB3	1.64	0.60
1:g:249:VAL:HG11	1:g:260:VAL:HG12	1.84	0.60
1:i:83:ILE:HD12	1:i:186:LEU:HD13	1.84	0.60
1:j:149:THR:HG23	1:k:285:PHE:HE1	1.67	0.60
1:j:249:VAL:HG11	1:j:260:VAL:HG12	1.84	0.60
1:o:249:VAL:HG11	1:o:260:VAL:HG12	1.84	0.60
1:p:83:ILE:HD12	1:p:186:LEU:HD13	1.84	0.60
1:s:249:VAL:HG11	1:s:260:VAL:HG12	1.84	0.60
1:y:249:VAL:HG11	1:y:260:VAL:HG12	1.84	0.60
1:z:249:VAL:HG11	1:z:260:VAL:HG12	1.84	0.60
1:8:249:VAL:HG11	1:8:260:VAL:HG12	1.84	0.60
1:D:249:VAL:HG11	1:D:260:VAL:HG12	1.84	0.60
1:F:83:ILE:HD12	1:F:186:LEU:HD13	1.84	0.60
1:P:249:VAL:HG11	1:P:260:VAL:HG12	1.84	0.60
1:Q:249:VAL:HG11	1:Q:260:VAL:HG12	1.84	0.60
1:2:149:THR:HG23	1:i:285:PHE:HE1	1.67	0.60
1:j:83:ILE:HD12	1:j:186:LEU:HD13	1.84	0.60
1:v:83:ILE:HD12	1:v:186:LEU:HD13	1.84	0.60
1:z:83:ILE:HD12	1:z:186:LEU:HD13	1.84	0.60
1:B:249:VAL:HG11	1:B:260:VAL:HG12	1.84	0.59
1:D:83:ILE:HD12	1:D:186:LEU:HD13	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:285:PHE:HE1	1:E:149:THR:HG23	1.67	0.59
1:Q:149:THR:HG23	1:S:285:PHE:HE1	1.67	0.59
1:T:249:VAL:HG11	1:T:260:VAL:HG12	1.84	0.59
1:i:249:VAL:HG11	1:i:260:VAL:HG12	1.84	0.59
1:n:149:THR:HG23	1:z:285:PHE:HE1	1.67	0.59
1:o:149:THR:HG23	1:v:285:PHE:HE1	1.67	0.59
1:y:285:PHE:HE1	1:8:149:THR:HG23	1.67	0.59
1:7:83:ILE:HD12	1:7:186:LEU:HD13	1.84	0.59
1:C:83:ILE:HD12	1:C:186:LEU:HD13	1.84	0.59
1:F:149:THR:HG23	1:G:285:PHE:HE1	1.67	0.59
1:F:249:VAL:HG11	1:F:260:VAL:HG12	1.84	0.59
1:J:77:PRO:HG3	1:J:284:GLN:HE21	1.64	0.59
1:M:285:PHE:HE1	1:3:149:THR:HG23	1.67	0.59
1:N:83:ILE:HD12	1:N:186:LEU:HD13	1.84	0.59
1:X:83:ILE:HD12	1:X:186:LEU:HD13	1.84	0.59
1:b:83:ILE:HD12	1:b:186:LEU:HD13	1.84	0.59
1:d:285:PHE:HE1	1:f:149:THR:HG23	1.67	0.59
1:k:249:VAL:HG11	1:k:260:VAL:HG12	1.84	0.59
1:t:285:PHE:HE1	1:x:149:THR:HG23	1.67	0.59
1:w:249:VAL:HG11	1:w:260:VAL:HG12	1.84	0.59
1:x:249:VAL:HG11	1:x:260:VAL:HG12	1.84	0.59
1:I:149:THR:HG23	1:J:285:PHE:HE1	1.67	0.59
1:K:149:THR:HG23	1:L:285:PHE:HE1	1.67	0.59
1:L:149:THR:HG23	1:2:285:PHE:HE1	1.68	0.59
1:O:149:THR:HG23	1:P:285:PHE:HE1	1.68	0.59
1:T:149:THR:HG23	1:U:285:PHE:HE1	1.67	0.59
1:U:249:VAL:HG11	1:U:260:VAL:HG12	1.84	0.59
1:V:83:ILE:HD12	1:V:186:LEU:HD13	1.84	0.59
1:4:249:VAL:HG11	1:4:260:VAL:HG12	1.84	0.59
1:a:83:ILE:HD12	1:a:186:LEU:HD13	1.84	0.59
1:H:285:PHE:HE1	1:Z:149:THR:HG23	1.67	0.59
1:Z:285:PHE:HE1	1:1:149:THR:HG23	1.68	0.59
1:2:249:VAL:HG11	1:2:260:VAL:HG12	1.84	0.59
1:3:249:VAL:HG11	1:3:260:VAL:HG12	1.84	0.59
1:3:285:PHE:HE1	1:m:149:THR:HG23	1.68	0.59
1:d:86:ASN:HA	1:d:268:MET:CE	2.33	0.59
1:l:77:PRO:HG3	1:l:284:GLN:HE21	1.64	0.59
1:l:285:PHE:HE1	1:r:149:THR:HG23	1.67	0.59
1:p:249:VAL:HG11	1:p:260:VAL:HG12	1.84	0.59
1:t:249:VAL:HG11	1:t:260:VAL:HG12	1.84	0.59
1:v:149:THR:HG23	1:w:285:PHE:HE1	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:ASN:HA	1:B:268:MET:CE	2.33	0.59
1:Q:83:ILE:HD12	1:Q:186:LEU:HD13	1.84	0.59
1:S:149:THR:HG23	1:4:285:PHE:HE1	1.67	0.59
1:V:86:ASN:HA	1:V:268:MET:CE	2.33	0.59
1:1:86:ASN:HA	1:1:268:MET:CE	2.33	0.59
1:a:86:ASN:HA	1:a:268:MET:CE	2.33	0.59
1:f:86:ASN:HA	1:f:268:MET:CE	2.33	0.59
1:f:285:PHE:HE1	1:h:149:THR:HG23	1.68	0.59
1:k:86:ASN:HA	1:k:268:MET:CE	2.33	0.59
1:o:83:ILE:HD12	1:o:186:LEU:HD13	1.84	0.59
1:p:149:THR:HG23	1:q:285:PHE:HE1	1.68	0.59
1:7:86:ASN:HA	1:7:268:MET:CE	2.33	0.59
1:H:86:ASN:HA	1:H:268:MET:CE	2.33	0.59
1:I:86:ASN:HA	1:I:268:MET:CE	2.33	0.59
1:J:149:THR:HG23	1:1:285:PHE:HE1	1.67	0.59
1:X:149:THR:HG23	1:Y:285:PHE:HE1	1.68	0.59
1:Z:86:ASN:HA	1:Z:268:MET:CE	2.33	0.59
1:a:285:PHE:HE1	1:e:149:THR:HG23	1.66	0.59
1:h:86:ASN:HA	1:h:268:MET:CE	2.33	0.59
1:G:149:THR:HG23	1:W:285:PHE:HE1	1.67	0.59
1:N:86:ASN:HA	1:N:268:MET:CE	2.33	0.59
1:S:86:ASN:HA	1:S:268:MET:CE	2.33	0.59
1:X:86:ASN:HA	1:X:268:MET:CE	2.33	0.59
1:b:86:ASN:HA	1:b:268:MET:CE	2.33	0.59
1:h:285:PHE:HE1	1:l:149:THR:HG23	1.67	0.59
1:k:83:ILE:HD12	1:k:186:LEU:HD13	1.84	0.59
1:r:86:ASN:HA	1:r:268:MET:CE	2.33	0.59
1:B:83:ILE:HD12	1:B:186:LEU:HD13	1.84	0.59
1:E:83:ILE:HD12	1:E:186:LEU:HD13	1.84	0.59
1:H:249:VAL:HG11	1:H:260:VAL:HG12	1.84	0.59
1:L:83:ILE:HD12	1:L:186:LEU:HD13	1.84	0.59
1:X:285:PHE:HE1	1:6:149:THR:HG23	1.67	0.59
1:5:149:THR:HG23	1:b:285:PHE:HE1	1.67	0.59
1:d:249:VAL:HG11	1:d:260:VAL:HG12	1.84	0.59
1:g:149:THR:HG23	1:m:285:PHE:HE1	1.68	0.59
1:n:83:ILE:HD12	1:n:186:LEU:HD13	1.84	0.59
1:v:86:ASN:HA	1:v:268:MET:CE	2.33	0.59
1:P:83:ILE:HD12	1:P:186:LEU:HD13	1.84	0.59
1:P:149:THR:HG23	1:Q:285:PHE:HE1	1.67	0.59
1:Q:86:ASN:HA	1:Q:268:MET:CE	2.33	0.59
1:Y:86:ASN:HA	1:Y:268:MET:CE	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:83:ILE:HD12	1:1:186:LEU:HD13	1.84	0.59
1:5:86:ASN:HA	1:5:268:MET:CE	2.33	0.59
1:6:86:ASN:HA	1:6:268:MET:CE	2.33	0.59
1:c:86:ASN:HA	1:c:268:MET:CE	2.33	0.59
1:h:83:ILE:HD12	1:h:186:LEU:HD13	1.84	0.59
1:m:83:ILE:HD12	1:m:186:LEU:HD13	1.84	0.59
1:o:285:PHE:HE1	1:y:149:THR:HG23	1.67	0.59
1:C:285:PHE:HE1	1:D:149:THR:HG23	1.68	0.59
1:E:86:ASN:HA	1:E:268:MET:CE	2.33	0.59
1:M:149:THR:HG23	1:N:285:PHE:HE1	1.67	0.59
1:2:86:ASN:HA	1:2:268:MET:CE	2.33	0.59
1:b:149:THR:HG23	1:c:285:PHE:HE1	1.68	0.59
1:g:83:ILE:HD12	1:g:186:LEU:HD13	1.84	0.59
1:n:249:VAL:HG11	1:n:260:VAL:HG12	1.84	0.59
1:o:86:ASN:HA	1:o:268:MET:CE	2.33	0.59
1:p:86:ASN:HA	1:p:268:MET:CE	2.33	0.59
1:y:83:ILE:HD12	1:y:186:LEU:HD13	1.84	0.59
1:y:86:ASN:HA	1:y:268:MET:CE	2.33	0.59
1:z:86:ASN:HA	1:z:268:MET:CE	2.33	0.59
1:C:86:ASN:HA	1:C:268:MET:CE	2.33	0.58
1:D:86:ASN:HA	1:D:268:MET:CE	2.33	0.58
1:E:249:VAL:HG11	1:E:260:VAL:HG12	1.84	0.58
1:K:83:ILE:HD12	1:K:186:LEU:HD13	1.84	0.58
1:P:86:ASN:HA	1:P:268:MET:CE	2.33	0.58
1:j:86:ASN:HA	1:j:268:MET:CE	2.33	0.58
1:j:285:PHE:HE1	1:z:149:THR:HG23	1.67	0.58
1:n:86:ASN:HA	1:n:268:MET:CE	2.33	0.58
1:u:86:ASN:HA	1:u:268:MET:CE	2.33	0.58
1:F:86:ASN:HA	1:F:268:MET:CE	2.33	0.58
1:L:86:ASN:HA	1:L:268:MET:CE	2.33	0.58
1:O:83:ILE:HD12	1:O:186:LEU:HD13	1.84	0.58
1:W:86:ASN:HA	1:W:268:MET:CE	2.33	0.58
1:3:86:ASN:HA	1:3:268:MET:CE	2.33	0.58
1:5:83:ILE:HD12	1:5:186:LEU:HD13	1.84	0.58
1:h:249:VAL:HG11	1:h:260:VAL:HG12	1.84	0.58
1:i:86:ASN:HA	1:i:268:MET:CE	2.33	0.58
1:m:86:ASN:HA	1:m:268:MET:CE	2.33	0.58
1:t:86:ASN:HA	1:t:268:MET:CE	2.33	0.58
1:A:86:ASN:HA	1:A:268:MET:CE	2.33	0.58
1:K:86:ASN:HA	1:K:268:MET:CE	2.33	0.58
1:O:285:PHE:HE1	1:4:149:THR:HG23	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:86:ASN:HA	1:R:268:MET:CE	2.33	0.58
1:U:86:ASN:HA	1:U:268:MET:CE	2.33	0.58
1:1:249:VAL:HG11	1:1:260:VAL:HG12	1.84	0.58
1:2:83:ILE:HD12	1:2:186:LEU:HD13	1.84	0.58
1:4:83:ILE:HD12	1:4:186:LEU:HD13	1.84	0.58
1:q:249:VAL:HG11	1:q:260:VAL:HG12	1.84	0.58
1:8:83:ILE:HD12	1:8:186:LEU:HD13	1.84	0.58
1:A:83:ILE:HD12	1:A:186:LEU:HD13	1.84	0.58
1:J:83:ILE:HD12	1:J:186:LEU:HD13	1.84	0.58
1:J:249:VAL:HG11	1:J:260:VAL:HG12	1.84	0.58
1:M:86:ASN:HA	1:M:268:MET:CE	2.33	0.58
1:3:83:ILE:HD12	1:3:186:LEU:HD13	1.84	0.58
1:6:83:ILE:HD12	1:6:186:LEU:HD13	1.84	0.58
1:d:149:THR:HG23	1:r:285:PHE:HE1	1.68	0.58
1:e:86:ASN:HA	1:e:268:MET:CE	2.33	0.58
1:g:86:ASN:HA	1:g:268:MET:CE	2.33	0.58
1:l:83:ILE:HD12	1:l:186:LEU:HD13	1.84	0.58
1:s:83:ILE:HD12	1:s:186:LEU:HD13	1.84	0.58
1:s:86:ASN:HA	1:s:268:MET:CE	2.33	0.58
1:w:83:ILE:HD12	1:w:186:LEU:HD13	1.84	0.58
1:w:86:ASN:HA	1:w:268:MET:CE	2.33	0.58
1:w:149:THR:HG23	1:8:285:PHE:HE1	1.68	0.58
1:G:249:VAL:HG11	1:G:260:VAL:HG12	1.84	0.58
1:H:149:THR:HG23	1:I:285:PHE:HE1	1.67	0.58
1:O:86:ASN:HA	1:O:268:MET:CE	2.33	0.58
1:X:249:VAL:HG11	1:X:260:VAL:HG12	1.84	0.58
1:4:86:ASN:HA	1:4:268:MET:CE	2.33	0.58
1:f:83:ILE:HD12	1:f:186:LEU:HD13	1.84	0.58
1:q:83:ILE:HD12	1:q:186:LEU:HD13	1.84	0.58
1:t:83:ILE:HD12	1:t:186:LEU:HD13	1.84	0.58
1:G:83:ILE:HD12	1:G:186:LEU:HD13	1.84	0.58
1:G:86:ASN:HA	1:G:268:MET:CE	2.33	0.58
1:N:149:THR:HG23	1:g:285:PHE:HE1	1.67	0.58
1:U:83:ILE:HD12	1:U:186:LEU:HD13	1.84	0.58
1:V:249:VAL:HG11	1:V:260:VAL:HG12	1.84	0.58
1:Z:83:ILE:HD12	1:Z:186:LEU:HD13	1.84	0.58
1:Z:249:VAL:HG11	1:Z:260:VAL:HG12	1.84	0.58
1:6:285:PHE:HE1	1:t:149:THR:HG23	1.68	0.58
1:a:249:VAL:HG11	1:a:260:VAL:HG12	1.84	0.58
1:b:249:VAL:HG11	1:b:260:VAL:HG12	1.84	0.58
1:f:249:VAL:HG11	1:f:260:VAL:HG12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:249:VAL:HG11	1:l:260:VAL:HG12	1.84	0.58
1:8:86:ASN:HA	1:8:268:MET:CE	2.33	0.58
1:G:93:GLU:HG3	1:G:105:VAL:HG23	1.86	0.58
1:H:182:SER:OG	1:H:187:ASP:OD2	2.19	0.58
1:O:93:GLU:HG3	1:O:105:VAL:HG23	1.86	0.58
1:R:83:ILE:HD12	1:R:186:LEU:HD13	1.84	0.58
1:T:83:ILE:HD12	1:T:186:LEU:HD13	1.84	0.58
1:T:86:ASN:HA	1:T:268:MET:CE	2.33	0.58
1:U:149:THR:HG23	1:5:285:PHE:HE1	1.68	0.58
1:V:285:PHE:HE1	1:W:149:THR:HG23	1.67	0.58
1:W:249:VAL:HG11	1:W:260:VAL:HG12	1.84	0.58
1:Y:249:VAL:HG11	1:Y:260:VAL:HG12	1.84	0.58
1:a:149:THR:HG23	1:u:285:PHE:HE1	1.67	0.58
1:c:249:VAL:HG11	1:c:260:VAL:HG12	1.84	0.58
1:e:249:VAL:HG11	1:e:260:VAL:HG12	1.84	0.58
1:i:149:THR:HG23	1:7:285:PHE:HE1	1.67	0.58
1:x:83:ILE:HD12	1:x:186:LEU:HD13	1.84	0.58
1:8:93:GLU:HG3	1:8:105:VAL:HG23	1.86	0.58
1:F:93:GLU:HG3	1:F:105:VAL:HG23	1.86	0.58
1:H:93:GLU:HG3	1:H:105:VAL:HG23	1.86	0.58
1:R:93:GLU:HG3	1:R:105:VAL:HG23	1.86	0.58
1:V:93:GLU:HG3	1:V:105:VAL:HG23	1.86	0.58
1:d:182:SER:OG	1:d:187:ASP:OD2	2.19	0.58
1:p:93:GLU:HG3	1:p:105:VAL:HG23	1.86	0.58
1:q:86:ASN:HA	1:q:268:MET:CE	2.33	0.58
1:q:93:GLU:HG3	1:q:105:VAL:HG23	1.86	0.58
1:u:83:ILE:HD12	1:u:186:LEU:HD13	1.84	0.58
1:u:93:GLU:HG3	1:u:105:VAL:HG23	1.86	0.58
1:A:149:THR:HG23	1:E:285:PHE:HE1	1.67	0.58
1:S:249:VAL:HG11	1:S:260:VAL:HG12	1.84	0.58
1:2:93:GLU:HG3	1:2:105:VAL:HG23	1.86	0.58
1:6:93:GLU:HG3	1:6:105:VAL:HG23	1.86	0.58
1:a:93:GLU:HG3	1:a:105:VAL:HG23	1.86	0.58
1:d:93:GLU:HG3	1:d:105:VAL:HG23	1.86	0.58
1:g:93:GLU:HG3	1:g:105:VAL:HG23	1.86	0.58
1:v:249:VAL:HG11	1:v:260:VAL:HG12	1.84	0.58
1:x:86:ASN:HA	1:x:268:MET:CE	2.33	0.58
1:7:249:VAL:HG11	1:7:260:VAL:HG12	1.84	0.58
1:A:285:PHE:HE1	1:B:149:THR:HG23	1.67	0.58
1:K:93:GLU:HG3	1:K:105:VAL:HG23	1.86	0.58
1:S:182:SER:OG	1:S:187:ASP:OD2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:182:SER:OG	1:1:187:ASP:OD2	2.19	0.58
1:3:93:GLU:HG3	1:3:105:VAL:HG23	1.86	0.58
1:5:93:GLU:HG3	1:5:105:VAL:HG23	1.86	0.58
1:6:249:VAL:HG11	1:6:260:VAL:HG12	1.84	0.58
1:e:285:PHE:HE1	1:q:149:THR:HG23	1.69	0.58
1:D:93:GLU:HG3	1:D:105:VAL:HG23	1.86	0.57
1:N:249:VAL:HG11	1:N:260:VAL:HG12	1.84	0.57
1:U:93:GLU:HG3	1:U:105:VAL:HG23	1.86	0.57
1:W:93:GLU:HG3	1:W:105:VAL:HG23	1.86	0.57
1:5:249:VAL:HG11	1:5:260:VAL:HG12	1.84	0.57
1:k:149:THR:HG23	1:s:285:PHE:HE1	1.68	0.57
1:l:93:GLU:HG3	1:l:105:VAL:HG23	1.86	0.57
1:n:285:PHE:HE1	1:s:149:THR:HG23	1.67	0.57
1:r:249:VAL:HG11	1:r:260:VAL:HG12	1.84	0.57
1:H:83:ILE:HD12	1:H:186:LEU:HD13	1.84	0.57
1:I:249:VAL:HG11	1:I:260:VAL:HG12	1.84	0.57
1:J:86:ASN:HA	1:J:268:MET:CE	2.33	0.57
1:J:93:GLU:HG3	1:J:105:VAL:HG23	1.86	0.57
1:L:249:VAL:HG11	1:L:260:VAL:HG12	1.84	0.57
1:e:93:GLU:HG3	1:e:105:VAL:HG23	1.86	0.57
1:m:249:VAL:HG11	1:m:260:VAL:HG12	1.84	0.57
1:n:93:GLU:HG3	1:n:105:VAL:HG23	1.86	0.57
1:t:93:GLU:HG3	1:t:105:VAL:HG23	1.86	0.57
1:z:93:GLU:HG3	1:z:105:VAL:HG23	1.86	0.57
1:E:93:GLU:HG3	1:E:105:VAL:HG23	1.86	0.57
1:L:93:GLU:HG3	1:L:105:VAL:HG23	1.86	0.57
1:l:86:ASN:HA	1:l:268:MET:CE	2.33	0.57
1:m:93:GLU:HG3	1:m:105:VAL:HG23	1.86	0.57
1:I:93:GLU:HG3	1:I:105:VAL:HG23	1.86	0.57
1:R:285:PHE:HE1	1:V:149:THR:HG23	1.67	0.57
1:T:93:GLU:HG3	1:T:105:VAL:HG23	1.86	0.57
1:d:83:ILE:HD12	1:d:186:LEU:HD13	1.84	0.57
1:p:285:PHE:HE1	1:u:149:THR:HG23	1.68	0.57
1:K:182:SER:OG	1:K:187:ASP:OD2	2.19	0.57
1:T:276:PRO:HB2	1:c:290:GLN:HE22	1.70	0.57
1:Y:290:GLN:HE22	1:x:276:PRO:HB2	1.70	0.57
1:4:133:LEU:H	1:4:213:GLN:NE2	2.02	0.57
1:r:93:GLU:HG3	1:r:105:VAL:HG23	1.86	0.57
1:x:93:GLU:HG3	1:x:105:VAL:HG23	1.86	0.57
1:F:285:PHE:HE1	1:R:149:THR:HG23	1.68	0.57
1:S:93:GLU:HG3	1:S:105:VAL:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:93:GLU:HG3	1:v:105:VAL:HG23	1.86	0.57
1:w:133:LEU:H	1:w:213:GLN:NE2	2.02	0.57
1:H:133:LEU:H	1:H:213:GLN:NE2	2.01	0.57
1:Y:93:GLU:HG3	1:Y:105:VAL:HG23	1.86	0.57
1:b:93:GLU:HG3	1:b:105:VAL:HG23	1.86	0.57
1:m:182:SER:OG	1:m:187:ASP:OD2	2.19	0.57
1:X:276:PRO:HB2	1:6:290:GLN:HE22	1.70	0.57
1:2:290:GLN:HE22	1:i:276:PRO:HB2	1.70	0.57
1:i:133:LEU:H	1:i:213:GLN:NE2	2.02	0.57
1:l:182:SER:OG	1:l:187:ASP:OD2	2.19	0.57
1:A:93:GLU:HG3	1:A:105:VAL:HG23	1.86	0.57
1:L:182:SER:OG	1:L:187:ASP:OD2	2.19	0.57
1:U:290:GLN:HE22	1:5:276:PRO:HB2	1.70	0.57
1:Z:93:GLU:HG3	1:Z:105:VAL:HG23	1.86	0.57
1:5:86:ASN:HA	1:5:268:MET:HE3	1.87	0.57
1:5:290:GLN:HE22	1:b:276:PRO:HB2	1.70	0.57
1:6:86:ASN:HA	1:6:268:MET:HE3	1.87	0.57
1:c:93:GLU:HG3	1:c:105:VAL:HG23	1.86	0.57
1:f:93:GLU:HG3	1:f:105:VAL:HG23	1.86	0.57
1:A:86:ASN:HA	1:A:268:MET:HE3	1.87	0.56
1:A:133:LEU:H	1:A:213:GLN:NE2	2.02	0.56
1:O:133:LEU:H	1:O:213:GLN:NE2	2.02	0.56
1:6:276:PRO:HB2	1:t:290:GLN:HE22	1.70	0.56
1:d:133:LEU:H	1:d:213:GLN:NE2	2.02	0.56
1:o:290:GLN:HE22	1:v:276:PRO:HB2	1.70	0.56
1:s:93:GLU:HG3	1:s:105:VAL:HG23	1.86	0.56
1:7:86:ASN:HA	1:7:268:MET:HE3	1.87	0.56
1:B:86:ASN:HA	1:B:268:MET:HE3	1.87	0.56
1:C:133:LEU:H	1:C:213:GLN:NE2	2.01	0.56
1:E:86:ASN:HA	1:E:268:MET:HE3	1.87	0.56
1:E:133:LEU:H	1:E:213:GLN:NE2	2.02	0.56
1:G:290:GLN:HE22	1:W:276:PRO:HB2	1.70	0.56
1:J:182:SER:OG	1:J:187:ASP:OD2	2.19	0.56
1:Q:93:GLU:HG3	1:Q:105:VAL:HG23	1.86	0.56
1:Q:290:GLN:HE22	1:S:276:PRO:HB2	1.70	0.56
1:T:86:ASN:HA	1:T:268:MET:HE3	1.87	0.56
1:W:182:SER:OG	1:W:187:ASP:OD2	2.19	0.56
1:X:93:GLU:HG3	1:X:105:VAL:HG23	1.86	0.56
1:Z:86:ASN:HA	1:Z:268:MET:HE3	1.87	0.56
1:f:86:ASN:HA	1:f:268:MET:HE3	1.87	0.56
1:k:86:ASN:HA	1:k:268:MET:HE3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:133:LEU:H	1:l:213:GLN:NE2	2.02	0.56
1:n:86:ASN:HA	1:n:268:MET:HE3	1.87	0.56
1:s:86:ASN:HA	1:s:268:MET:HE3	1.87	0.56
1:B:276:PRO:HB2	1:C:290:GLN:HE22	1.71	0.56
1:D:86:ASN:HA	1:D:268:MET:HE3	1.87	0.56
1:J:133:LEU:H	1:J:213:GLN:NE2	2.02	0.56
1:L:86:ASN:HA	1:L:268:MET:HE3	1.87	0.56
1:M:276:PRO:HB2	1:3:290:GLN:HE22	1.70	0.56
1:N:93:GLU:HG3	1:N:105:VAL:HG23	1.86	0.56
1:P:86:ASN:HA	1:P:268:MET:HE3	1.88	0.56
1:P:290:GLN:HE22	1:Q:276:PRO:HB2	1.71	0.56
1:S:86:ASN:HA	1:S:268:MET:HE3	1.88	0.56
1:T:290:GLN:HE22	1:U:276:PRO:HB2	1.70	0.56
1:U:86:ASN:HA	1:U:268:MET:HE3	1.88	0.56
1:Z:276:PRO:HB2	1:1:290:GLN:HE22	1.71	0.56
1:2:86:ASN:HA	1:2:268:MET:HE3	1.87	0.56
1:3:86:ASN:HA	1:3:268:MET:HE3	1.87	0.56
1:4:93:GLU:HG3	1:4:105:VAL:HG23	1.86	0.56
1:d:276:PRO:HB2	1:f:290:GLN:HE22	1.70	0.56
1:e:276:PRO:HB2	1:q:290:GLN:HE22	1.71	0.56
1:f:276:PRO:HB2	1:h:290:GLN:HE22	1.71	0.56
1:j:86:ASN:HA	1:j:268:MET:HE3	1.87	0.56
1:j:133:LEU:H	1:j:213:GLN:NE2	2.02	0.56
1:j:290:GLN:HE22	1:k:276:PRO:HB2	1.71	0.56
1:n:133:LEU:H	1:n:213:GLN:NE2	2.02	0.56
1:o:93:GLU:HG3	1:o:105:VAL:HG23	1.86	0.56
1:p:290:GLN:HE22	1:q:276:PRO:HB2	1.70	0.56
1:s:133:LEU:H	1:s:213:GLN:NE2	2.02	0.56
1:t:86:ASN:HA	1:t:268:MET:HE3	1.87	0.56
1:t:276:PRO:HB2	1:x:290:GLN:HE22	1.70	0.56
1:v:86:ASN:HA	1:v:268:MET:HE3	1.88	0.56
1:x:86:ASN:HA	1:x:268:MET:HE3	1.87	0.56
1:y:86:ASN:HA	1:y:268:MET:HE3	1.87	0.56
1:z:86:ASN:HA	1:z:268:MET:HE3	1.87	0.56
1:8:133:LEU:H	1:8:213:GLN:NE2	2.02	0.56
1:B:93:GLU:HG3	1:B:105:VAL:HG23	1.86	0.56
1:C:86:ASN:HA	1:C:268:MET:HE3	1.87	0.56
1:G:86:ASN:HA	1:G:268:MET:HE3	1.87	0.56
1:H:290:GLN:HE22	1:I:276:PRO:HB2	1.70	0.56
1:L:290:GLN:HE22	1:2:276:PRO:HB2	1.70	0.56
1:N:86:ASN:HA	1:N:268:MET:HE3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:133:LEU:H	1:V:213:GLN:NE2	2.01	0.56
1:3:276:PRO:HB2	1:m:290:GLN:HE22	1.70	0.56
1:c:243:ASN:O	1:e:258:ILE:HG12	2.05	0.56
1:d:290:GLN:HE22	1:r:276:PRO:HB2	1.70	0.56
1:k:93:GLU:HG3	1:k:105:VAL:HG23	1.86	0.56
1:o:86:ASN:HA	1:o:268:MET:HE3	1.87	0.56
1:o:276:PRO:HB2	1:y:290:GLN:HE22	1.71	0.56
1:w:93:GLU:HG3	1:w:105:VAL:HG23	1.86	0.56
1:7:133:LEU:H	1:7:213:GLN:NE2	2.02	0.56
1:C:93:GLU:HG3	1:C:105:VAL:HG23	1.86	0.56
1:H:276:PRO:HB2	1:Z:290:GLN:HE22	1.70	0.56
1:O:276:PRO:HB2	1:4:290:GLN:HE22	1.70	0.56
1:Q:86:ASN:HA	1:Q:268:MET:HE3	1.87	0.56
1:e:182:SER:OG	1:e:187:ASP:OD2	2.19	0.56
1:j:93:GLU:HG3	1:j:105:VAL:HG23	1.86	0.56
1:m:86:ASN:HA	1:m:268:MET:HE3	1.88	0.56
1:q:86:ASN:HA	1:q:268:MET:HE3	1.87	0.56
1:y:93:GLU:HG3	1:y:105:VAL:HG23	1.86	0.56
1:7:93:GLU:HG3	1:7:105:VAL:HG23	1.86	0.56
1:F:290:GLN:HE22	1:G:276:PRO:HB2	1.71	0.56
1:J:290:GLN:HE22	1:1:276:PRO:HB2	1.70	0.56
1:M:290:GLN:HE22	1:N:276:PRO:HB2	1.70	0.56
1:O:290:GLN:HE22	1:P:276:PRO:HB2	1.70	0.56
1:P:93:GLU:HG3	1:P:105:VAL:HG23	1.86	0.56
1:V:276:PRO:HB2	1:W:290:GLN:HE22	1.70	0.56
1:a:133:LEU:H	1:a:213:GLN:NE2	2.02	0.56
1:q:182:SER:OG	1:q:187:ASP:OD2	2.19	0.56
1:w:290:GLN:HE22	1:8:276:PRO:HB2	1.71	0.56
1:y:276:PRO:HB2	1:8:290:GLN:HE22	1.70	0.56
1:G:182:SER:OG	1:G:187:ASP:OD2	2.19	0.56
1:K:133:LEU:H	1:K:213:GLN:NE2	2.02	0.56
1:N:133:LEU:H	1:N:213:GLN:NE2	2.02	0.56
1:P:133:LEU:H	1:P:213:GLN:NE2	2.02	0.56
1:S:133:LEU:H	1:S:213:GLN:NE2	2.02	0.56
1:F:135:SER:OG	1:F:152:ASN:ND2	2.37	0.56
1:F:276:PRO:HB2	1:R:290:GLN:HE22	1.71	0.56
1:K:86:ASN:HA	1:K:268:MET:HE3	1.87	0.56
1:K:276:PRO:HB2	1:7:290:GLN:HE22	1.70	0.56
1:a:276:PRO:HB2	1:e:290:GLN:HE22	1.70	0.56
1:g:133:LEU:H	1:g:213:GLN:NE2	2.02	0.56
1:p:276:PRO:HB2	1:u:290:GLN:HE22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:133:LEU:H	1:v:213:GLN:NE2	2.02	0.56
1:y:133:LEU:H	1:y:213:GLN:NE2	2.01	0.56
1:Q:133:LEU:H	1:Q:213:GLN:NE2	2.01	0.56
1:X:290:GLN:HE22	1:Y:276:PRO:HB2	1.71	0.56
1:g:86:ASN:HA	1:g:268:MET:HE3	1.87	0.56
1:h:276:PRO:HB2	1:l:290:GLN:HE22	1.70	0.56
1:n:290:GLN:HE22	1:z:276:PRO:HB2	1.70	0.56
1:t:133:LEU:H	1:t:213:GLN:NE2	2.02	0.56
1:v:290:GLN:HE22	1:w:276:PRO:HB2	1.70	0.56
1:D:276:PRO:HB2	1:E:290:GLN:HE22	1.70	0.56
1:S:290:GLN:HE22	1:4:276:PRO:HB2	1.70	0.56
1:l:93:GLU:HG3	1:l:105:VAL:HG23	1.86	0.56
1:a:290:GLN:HE22	1:u:276:PRO:HB2	1.70	0.56
1:h:93:GLU:HG3	1:h:105:VAL:HG23	1.86	0.56
1:i:93:GLU:HG3	1:i:105:VAL:HG23	1.86	0.56
1:j:276:PRO:HB2	1:z:290:GLN:HE22	1.70	0.56
1:n:276:PRO:HB2	1:s:290:GLN:HE22	1.71	0.56
1:p:86:ASN:HA	1:p:268:MET:HE3	1.87	0.56
1:p:135:SER:OG	1:p:152:ASN:ND2	2.37	0.56
1:A:290:GLN:HE22	1:E:276:PRO:HB2	1.70	0.55
1:C:276:PRO:HB2	1:D:290:GLN:HE22	1.70	0.55
1:F:86:ASN:HA	1:F:268:MET:HE3	1.87	0.55
1:M:93:GLU:HG3	1:M:105:VAL:HG23	1.86	0.55
1:U:133:LEU:H	1:U:213:GLN:NE2	2.02	0.55
1:W:86:ASN:HA	1:W:268:MET:HE3	1.87	0.55
1:c:86:ASN:HA	1:c:268:MET:HE3	1.87	0.55
1:e:86:ASN:HA	1:e:268:MET:HE3	1.87	0.55
1:o:133:LEU:H	1:o:213:GLN:NE2	2.01	0.55
1:I:133:LEU:H	1:I:213:GLN:NE2	2.01	0.55
1:O:86:ASN:HA	1:O:268:MET:HE3	1.87	0.55
1:r:86:ASN:HA	1:r:268:MET:HE3	1.87	0.55
1:8:86:ASN:HA	1:8:268:MET:HE3	1.87	0.55
1:F:133:LEU:H	1:F:213:GLN:NE2	2.02	0.55
1:I:86:ASN:HA	1:I:268:MET:HE3	1.87	0.55
1:R:133:LEU:H	1:R:213:GLN:NE2	2.01	0.55
1:R:276:PRO:HB2	1:V:290:GLN:HE22	1.70	0.55
1:Y:86:ASN:HA	1:Y:268:MET:HE3	1.87	0.55
1:K:290:GLN:HE22	1:L:276:PRO:HB2	1.70	0.55
1:N:290:GLN:HE22	1:g:276:PRO:HB2	1.70	0.55
1:J:86:ASN:HA	1:J:268:MET:HE3	1.88	0.55
1:R:86:ASN:HA	1:R:268:MET:HE3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:133:LEU:H	1:W:213:GLN:NE2	2.02	0.55
1:b:86:ASN:HA	1:b:268:MET:HE3	1.87	0.55
1:d:86:ASN:HA	1:d:268:MET:HE3	1.87	0.55
1:h:86:ASN:HA	1:h:268:MET:HE3	1.87	0.55
1:p:133:LEU:H	1:p:213:GLN:NE2	2.02	0.55
1:H:86:ASN:HA	1:H:268:MET:HE3	1.88	0.55
1:H:135:SER:OG	1:H:152:ASN:ND2	2.37	0.55
1:X:86:ASN:HA	1:X:268:MET:HE3	1.87	0.55
1:Z:134:THR:OG1	1:Z:288:ASN:HB2	2.07	0.55
1:4:135:SER:OG	1:4:152:ASN:ND2	2.37	0.55
1:i:290:GLN:HE22	1:7:276:PRO:HB2	1.71	0.55
1:l:86:ASN:HA	1:l:268:MET:HE3	1.88	0.55
1:q:134:THR:OG1	1:q:288:ASN:HB2	2.07	0.55
1:r:133:LEU:H	1:r:213:GLN:NE2	2.02	0.55
1:u:86:ASN:HA	1:u:268:MET:HE3	1.87	0.55
1:u:133:LEU:H	1:u:213:GLN:NE2	2.02	0.55
1:w:135:SER:OG	1:w:152:ASN:ND2	2.37	0.55
1:E:182:SER:OG	1:E:187:ASP:OD2	2.19	0.55
1:F:134:THR:OG1	1:F:288:ASN:HB2	2.07	0.55
1:F:182:SER:OG	1:F:187:ASP:OD2	2.19	0.55
1:R:134:THR:OG1	1:R:288:ASN:HB2	2.07	0.55
1:1:237:ALA:HA	1:1:333:LEU:HA	1.89	0.55
1:b:290:GLN:HE22	1:c:276:PRO:HB2	1.72	0.55
1:d:237:ALA:HA	1:d:333:LEU:HA	1.89	0.55
1:f:134:THR:OG1	1:f:288:ASN:HB2	2.07	0.55
1:g:290:GLN:HE22	1:m:276:PRO:HB2	1.70	0.55
1:h:237:ALA:HA	1:h:333:LEU:HA	1.89	0.55
1:i:86:ASN:HA	1:i:268:MET:HE3	1.87	0.55
1:u:134:THR:OG1	1:u:288:ASN:HB2	2.07	0.55
1:A:276:PRO:HB2	1:B:290:GLN:HE22	1.71	0.55
1:E:134:THR:OG1	1:E:288:ASN:HB2	2.07	0.55
1:G:134:THR:OG1	1:G:288:ASN:HB2	2.07	0.55
1:H:237:ALA:HA	1:H:333:LEU:HA	1.89	0.55
1:I:290:GLN:HE22	1:J:276:PRO:HB2	1.70	0.55
1:N:237:ALA:HA	1:N:333:LEU:HA	1.89	0.55
1:Q:134:THR:OG1	1:Q:288:ASN:HB2	2.07	0.55
1:S:237:ALA:HA	1:S:333:LEU:HA	1.89	0.55
1:Z:182:SER:OG	1:Z:187:ASP:OD2	2.19	0.55
1:1:86:ASN:HA	1:1:268:MET:HE3	1.87	0.55
1:g:134:THR:OG1	1:g:288:ASN:HB2	2.07	0.55
1:h:133:LEU:H	1:h:213:GLN:NE2	2.02	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:134:THR:OG1	1:i:288:ASN:HB2	2.07	0.55
1:l:276:PRO:HB2	1:r:290:GLN:HE22	1.70	0.55
1:n:134:THR:OG1	1:n:288:ASN:HB2	2.07	0.55
1:o:134:THR:OG1	1:o:288:ASN:HB2	2.07	0.55
1:p:134:THR:OG1	1:p:288:ASN:HB2	2.07	0.55
1:7:237:ALA:HA	1:7:333:LEU:HA	1.89	0.55
1:K:134:THR:OG1	1:K:288:ASN:HB2	2.07	0.55
1:M:134:THR:OG1	1:M:288:ASN:HB2	2.07	0.55
1:M:237:ALA:HA	1:M:333:LEU:HA	1.89	0.55
1:R:237:ALA:HA	1:R:333:LEU:HA	1.89	0.55
1:Z:237:ALA:HA	1:Z:333:LEU:HA	1.89	0.55
1:1:133:LEU:H	1:1:213:GLN:NE2	2.02	0.55
1:3:134:THR:OG1	1:3:288:ASN:HB2	2.07	0.55
1:3:135:SER:OG	1:3:152:ASN:ND2	2.37	0.55
1:c:237:ALA:HA	1:c:333:LEU:HA	1.89	0.55
1:d:135:SER:OG	1:d:152:ASN:ND2	2.37	0.55
1:f:237:ALA:HA	1:f:333:LEU:HA	1.89	0.55
1:i:237:ALA:HA	1:i:333:LEU:HA	1.89	0.55
1:k:290:GLN:HE22	1:s:276:PRO:HB2	1.70	0.55
1:p:182:SER:OG	1:p:187:ASP:OD2	2.19	0.55
1:q:133:LEU:H	1:q:213:GLN:NE2	2.02	0.55
1:t:135:SER:OG	1:t:152:ASN:ND2	2.37	0.55
1:u:237:ALA:HA	1:u:333:LEU:HA	1.89	0.55
1:v:237:ALA:HA	1:v:333:LEU:HA	1.89	0.55
1:w:86:ASN:HA	1:w:268:MET:HE3	1.87	0.55
1:w:237:ALA:HA	1:w:333:LEU:HA	1.89	0.55
1:z:134:THR:OG1	1:z:288:ASN:HB2	2.07	0.55
1:A:237:ALA:HA	1:A:333:LEU:HA	1.89	0.55
1:C:134:THR:OG1	1:C:288:ASN:HB2	2.07	0.55
1:D:134:THR:OG1	1:D:288:ASN:HB2	2.07	0.55
1:G:133:LEU:H	1:G:213:GLN:NE2	2.02	0.55
1:L:134:THR:OG1	1:L:288:ASN:HB2	2.07	0.55
1:M:86:ASN:HA	1:M:268:MET:HE3	1.87	0.55
1:M:135:SER:OG	1:M:152:ASN:ND2	2.37	0.55
1:U:112:MET:HE3	1:V:112:MET:HE3	1.89	0.55
1:U:135:SER:OG	1:U:152:ASN:ND2	2.37	0.55
1:2:112:MET:HE3	1:3:112:MET:HE3	1.89	0.55
1:2:134:THR:OG1	1:2:288:ASN:HB2	2.07	0.55
1:4:86:ASN:HA	1:4:268:MET:HE3	1.87	0.55
1:5:134:THR:OG1	1:5:288:ASN:HB2	2.07	0.55
1:e:133:LEU:H	1:e:213:GLN:NE2	2.02	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:279:ARG:HG3	1:q:71:ASN:ND2	2.21	0.55
1:i:135:SER:OG	1:i:152:ASN:ND2	2.37	0.55
1:j:134:THR:OG1	1:j:288:ASN:HB2	2.07	0.55
1:m:134:THR:OG1	1:m:288:ASN:HB2	2.07	0.55
1:q:237:ALA:HA	1:q:333:LEU:HA	1.89	0.55
1:v:134:THR:OG1	1:v:288:ASN:HB2	2.07	0.55
1:G:237:ALA:HA	1:G:333:LEU:HA	1.89	0.54
1:L:237:ALA:HA	1:L:333:LEU:HA	1.89	0.54
1:S:134:THR:OG1	1:S:288:ASN:HB2	2.07	0.54
1:Y:237:ALA:HA	1:Y:333:LEU:HA	1.89	0.54
1:Z:133:LEU:H	1:Z:213:GLN:NE2	2.01	0.54
1:2:135:SER:OG	1:2:152:ASN:ND2	2.37	0.54
1:4:237:ALA:HA	1:4:333:LEU:HA	1.89	0.54
1:6:134:THR:OG1	1:6:288:ASN:HB2	2.07	0.54
1:6:182:SER:OG	1:6:187:ASP:OD2	2.19	0.54
1:a:112:MET:HE3	1:t:112:MET:HE3	1.89	0.54
1:c:112:MET:HE3	1:f:112:MET:HE3	1.89	0.54
1:c:133:LEU:H	1:c:213:GLN:NE2	2.02	0.54
1:m:237:ALA:HA	1:m:333:LEU:HA	1.89	0.54
1:n:237:ALA:HA	1:n:333:LEU:HA	1.89	0.54
1:p:112:MET:HE3	1:s:112:MET:HE3	1.89	0.54
1:s:134:THR:OG1	1:s:288:ASN:HB2	2.07	0.54
1:A:112:MET:HE3	1:F:112:MET:HE3	1.89	0.54
1:A:134:THR:OG1	1:A:288:ASN:HB2	2.07	0.54
1:E:237:ALA:HA	1:E:333:LEU:HA	1.89	0.54
1:G:135:SER:OG	1:G:152:ASN:ND2	2.37	0.54
1:J:112:MET:HE3	1:K:112:MET:HE3	1.89	0.54
1:P:237:ALA:HA	1:P:333:LEU:HA	1.89	0.54
1:Y:112:MET:HE3	1:Z:112:MET:HE3	1.89	0.54
1:Y:133:LEU:H	1:Y:213:GLN:NE2	2.02	0.54
1:q:135:SER:OG	1:q:152:ASN:ND2	2.37	0.54
1:s:237:ALA:HA	1:s:333:LEU:HA	1.89	0.54
1:8:134:THR:OG1	1:8:288:ASN:HB2	2.07	0.54
1:B:112:MET:HE3	1:I:112:MET:HE3	1.89	0.54
1:I:237:ALA:HA	1:I:333:LEU:HA	1.89	0.54
1:O:134:THR:OG1	1:O:288:ASN:HB2	2.07	0.54
1:R:135:SER:OG	1:R:152:ASN:ND2	2.37	0.54
1:V:237:ALA:HA	1:V:333:LEU:HA	1.89	0.54
1:X:237:ALA:HA	1:X:333:LEU:HA	1.89	0.54
1:1:134:THR:OG1	1:1:288:ASN:HB2	2.07	0.54
1:a:237:ALA:HA	1:a:333:LEU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:237:ALA:HA	1:b:333:LEU:HA	1.89	0.54
1:f:182:SER:OG	1:f:187:ASP:OD2	2.19	0.54
1:h:134:THR:OG1	1:h:288:ASN:HB2	2.07	0.54
1:h:182:SER:OG	1:h:187:ASP:OD2	2.19	0.54
1:r:134:THR:OG1	1:r:288:ASN:HB2	2.07	0.54
1:r:237:ALA:HA	1:r:333:LEU:HA	1.89	0.54
1:y:237:ALA:HA	1:y:333:LEU:HA	1.89	0.54
1:D:237:ALA:HA	1:D:333:LEU:HA	1.89	0.54
1:I:134:THR:OG1	1:I:288:ASN:HB2	2.07	0.54
1:N:134:THR:OG1	1:N:288:ASN:HB2	2.07	0.54
1:O:75:LEU:HD12	1:O:79:GLU:HG3	1.90	0.54
1:3:237:ALA:HA	1:3:333:LEU:HA	1.89	0.54
1:f:133:LEU:H	1:f:213:GLN:NE2	2.02	0.54
1:g:112:MET:HE3	1:l:112:MET:HE3	1.89	0.54
1:k:112:MET:HE3	1:r:112:MET:HE3	1.89	0.54
1:z:237:ALA:HA	1:z:333:LEU:HA	1.89	0.54
1:B:237:ALA:HA	1:B:333:LEU:HA	1.89	0.54
1:G:75:LEU:HD12	1:G:79:GLU:HG3	1.90	0.54
1:Q:112:MET:HE3	1:R:112:MET:HE3	1.89	0.54
1:U:134:THR:OG1	1:U:288:ASN:HB2	2.07	0.54
1:V:86:ASN:HA	1:V:268:MET:HE3	1.87	0.54
1:V:134:THR:OG1	1:V:288:ASN:HB2	2.07	0.54
1:1:75:LEU:HD12	1:1:79:GLU:HG3	1.90	0.54
1:a:86:ASN:HA	1:a:268:MET:HE3	1.87	0.54
1:a:134:THR:OG1	1:a:288:ASN:HB2	2.07	0.54
1:k:237:ALA:HA	1:k:333:LEU:HA	1.89	0.54
1:l:75:LEU:HD12	1:l:79:GLU:HG3	1.90	0.54
1:u:75:LEU:HD12	1:u:79:GLU:HG3	1.90	0.54
1:u:135:SER:OG	1:u:152:ASN:ND2	2.37	0.54
1:7:112:MET:HE3	1:8:112:MET:HE3	1.88	0.54
1:7:134:THR:OG1	1:7:288:ASN:HB2	2.07	0.54
1:D:112:MET:HE3	1:M:112:MET:HE3	1.89	0.54
1:G:112:MET:HE3	1:H:112:MET:HE3	1.89	0.54
1:J:75:LEU:HD12	1:J:79:GLU:HG3	1.90	0.54
1:M:120:ARG:HD2	1:M:226:LEU:HB2	1.90	0.54
1:Q:135:SER:OG	1:Q:152:ASN:ND2	2.37	0.54
1:R:75:LEU:HD12	1:R:79:GLU:HG3	1.90	0.54
1:T:75:LEU:HD12	1:T:79:GLU:HG3	1.90	0.54
1:T:133:LEU:H	1:T:213:GLN:NE2	2.02	0.54
1:W:75:LEU:HD12	1:W:79:GLU:HG3	1.90	0.54
1:2:237:ALA:HA	1:2:333:LEU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:75:LEU:HD12	1:4:79:GLU:HG3	1.90	0.54
1:5:182:SER:OG	1:5:187:ASP:OD2	2.19	0.54
1:e:75:LEU:HD12	1:e:79:GLU:HG3	1.90	0.54
1:e:237:ALA:HA	1:e:333:LEU:HA	1.89	0.54
1:h:75:LEU:HD12	1:h:79:GLU:HG3	1.90	0.54
1:i:120:ARG:HD2	1:i:226:LEU:HB2	1.90	0.54
1:q:75:LEU:HD12	1:q:79:GLU:HG3	1.90	0.54
1:x:75:LEU:HD12	1:x:79:GLU:HG3	1.90	0.54
1:x:237:ALA:HA	1:x:333:LEU:HA	1.89	0.54
1:8:75:LEU:HD12	1:8:79:GLU:HG3	1.90	0.54
1:B:134:THR:OG1	1:B:288:ASN:HB2	2.07	0.54
1:P:134:THR:OG1	1:P:288:ASN:HB2	2.07	0.54
1:T:120:ARG:HD2	1:T:226:LEU:HB2	1.90	0.54
1:W:237:ALA:HA	1:W:333:LEU:HA	1.89	0.54
1:c:134:THR:OG1	1:c:288:ASN:HB2	2.07	0.54
1:d:112:MET:HE3	1:q:112:MET:HE3	1.89	0.54
1:i:112:MET:HE3	1:z:112:MET:HE3	1.89	0.54
1:i:182:SER:OG	1:i:187:ASP:OD2	2.19	0.54
1:o:112:MET:HE3	1:u:112:MET:HE3	1.89	0.54
1:t:134:THR:OG1	1:t:288:ASN:HB2	2.07	0.54
1:w:75:LEU:HD12	1:w:79:GLU:HG3	1.90	0.54
1:H:120:ARG:HD2	1:H:226:LEU:HB2	1.90	0.54
1:T:237:ALA:HA	1:T:333:LEU:HA	1.89	0.54
1:W:112:MET:HE3	1:X:112:MET:HE3	1.90	0.54
1:W:134:THR:OG1	1:W:288:ASN:HB2	2.07	0.54
1:Y:134:THR:OG1	1:Y:288:ASN:HB2	2.07	0.54
1:5:112:MET:HE3	1:6:112:MET:HE3	1.89	0.54
1:k:134:THR:OG1	1:k:288:ASN:HB2	2.07	0.54
1:m:120:ARG:HD2	1:m:226:LEU:HB2	1.90	0.54
1:o:237:ALA:HA	1:o:333:LEU:HA	1.89	0.54
1:x:120:ARG:HD2	1:x:226:LEU:HB2	1.90	0.54
1:y:134:THR:OG1	1:y:288:ASN:HB2	2.07	0.54
1:A:120:ARG:HD2	1:A:226:LEU:HB2	1.90	0.54
1:F:75:LEU:HD12	1:F:79:GLU:HG3	1.90	0.54
1:L:75:LEU:HD12	1:L:79:GLU:HG3	1.90	0.54
1:M:182:SER:OG	1:M:187:ASP:OD2	2.19	0.54
1:O:182:SER:OG	1:O:187:ASP:OD2	2.19	0.54
1:P:120:ARG:HD2	1:P:226:LEU:HB2	1.90	0.54
1:Q:237:ALA:HA	1:Q:333:LEU:HA	1.89	0.54
1:T:134:THR:OG1	1:T:288:ASN:HB2	2.07	0.54
1:4:112:MET:HE3	1:h:112:MET:HE3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:134:THR:OG1	1:e:288:ASN:HB2	2.07	0.54
1:f:120:ARG:HD2	1:f:226:LEU:HB2	1.90	0.54
1:k:75:LEU:HD12	1:k:79:GLU:HG3	1.90	0.54
1:m:75:LEU:HD12	1:m:79:GLU:HG3	1.90	0.54
1:o:135:SER:OG	1:o:152:ASN:ND2	2.37	0.54
1:s:120:ARG:HD2	1:s:226:LEU:HB2	1.90	0.54
1:u:120:ARG:HD2	1:u:226:LEU:HB2	1.90	0.54
1:x:133:LEU:H	1:x:213:GLN:NE2	2.02	0.54
1:y:120:ARG:HD2	1:y:226:LEU:HB2	1.90	0.54
1:B:75:LEU:HD12	1:B:79:GLU:HG3	1.90	0.54
1:C:75:LEU:HD12	1:C:79:GLU:HG3	1.90	0.54
1:C:112:MET:HE3	1:L:112:MET:HE3	1.89	0.54
1:K:285:PHE:CE1	1:7:149:THR:HG23	2.43	0.54
1:L:120:ARG:HD2	1:L:226:LEU:HB2	1.90	0.54
1:N:75:LEU:HD12	1:N:79:GLU:HG3	1.90	0.54
1:O:135:SER:OG	1:O:152:ASN:ND2	2.37	0.54
1:O:237:ALA:HA	1:O:333:LEU:HA	1.89	0.54
1:R:120:ARG:HD2	1:R:226:LEU:HB2	1.90	0.54
1:V:182:SER:OG	1:V:187:ASP:OD2	2.19	0.54
1:X:182:SER:OG	1:X:187:ASP:OD2	2.19	0.54
1:Z:120:ARG:HD2	1:Z:226:LEU:HB2	1.90	0.54
1:1:112:MET:HE3	1:w:112:MET:HE3	1.89	0.54
1:5:75:LEU:HD12	1:5:79:GLU:HG3	1.90	0.54
1:6:75:LEU:HD12	1:6:79:GLU:HG3	1.90	0.54
1:b:112:MET:HE3	1:e:112:MET:HE3	1.90	0.54
1:d:120:ARG:HD2	1:d:226:LEU:HB2	1.90	0.54
1:d:258:ILE:HG12	1:e:243:ASN:O	2.08	0.54
1:j:112:MET:HE3	1:m:112:MET:HE3	1.89	0.54
1:n:112:MET:HE3	1:y:112:MET:HE3	1.89	0.54
1:p:75:LEU:HD12	1:p:79:GLU:HG3	1.90	0.54
1:w:134:THR:OG1	1:w:288:ASN:HB2	2.07	0.54
1:x:134:THR:OG1	1:x:288:ASN:HB2	2.07	0.54
1:E:112:MET:HE3	1:P:112:MET:HE3	1.89	0.53
1:V:75:LEU:HD12	1:V:79:GLU:HG3	1.90	0.53
1:W:120:ARG:HD2	1:W:226:LEU:HB2	1.90	0.53
1:4:182:SER:OG	1:4:187:ASP:OD2	2.19	0.53
1:b:182:SER:OG	1:b:187:ASP:OD2	2.19	0.53
1:e:120:ARG:HD2	1:e:226:LEU:HB2	1.90	0.53
1:j:75:LEU:HD12	1:j:79:GLU:HG3	1.90	0.53
1:7:75:LEU:HD12	1:7:79:GLU:HG3	1.90	0.53
1:8:237:ALA:HA	1:8:333:LEU:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:237:ALA:HA	1:J:333:LEU:HA	1.89	0.53
1:U:237:ALA:HA	1:U:333:LEU:HA	1.89	0.53
1:V:120:ARG:HD2	1:V:226:LEU:HB2	1.90	0.53
1:4:134:THR:OG1	1:4:288:ASN:HB2	2.07	0.53
1:a:75:LEU:HD12	1:a:79:GLU:HG3	1.90	0.53
1:a:120:ARG:HD2	1:a:226:LEU:HB2	1.90	0.53
1:l:134:THR:OG1	1:l:288:ASN:HB2	2.07	0.53
1:t:237:ALA:HA	1:t:333:LEU:HA	1.89	0.53
1:8:135:SER:OG	1:8:152:ASN:ND2	2.37	0.53
1:8:182:SER:OG	1:8:187:ASP:OD2	2.19	0.53
1:X:134:THR:OG1	1:X:288:ASN:HB2	2.07	0.53
1:a:182:SER:OG	1:a:187:ASP:OD2	2.19	0.53
1:b:134:THR:OG1	1:b:288:ASN:HB2	2.07	0.53
1:k:120:ARG:HD2	1:k:226:LEU:HB2	1.90	0.53
1:z:75:LEU:HD12	1:z:79:GLU:HG3	1.90	0.53
1:D:75:LEU:HD12	1:D:79:GLU:HG3	1.90	0.53
1:J:134:THR:OG1	1:J:288:ASN:HB2	2.07	0.53
1:K:120:ARG:HD2	1:K:226:LEU:HB2	1.90	0.53
1:X:133:LEU:H	1:X:213:GLN:NE2	2.02	0.53
1:Z:75:LEU:HD12	1:Z:79:GLU:HG3	1.90	0.53
1:f:75:LEU:HD12	1:f:79:GLU:HG3	1.90	0.53
1:h:120:ARG:HD2	1:h:226:LEU:HB2	1.90	0.53
1:l:237:ALA:HA	1:l:333:LEU:HA	1.89	0.53
1:m:133:LEU:H	1:m:213:GLN:NE2	2.02	0.53
1:w:182:SER:OG	1:w:187:ASP:OD2	2.19	0.53
1:B:120:ARG:HD2	1:B:226:LEU:HB2	1.90	0.53
1:P:75:LEU:HD12	1:P:79:GLU:HG3	1.90	0.53
1:S:75:LEU:HD12	1:S:79:GLU:HG3	1.90	0.53
1:S:112:MET:HE3	1:T:112:MET:HE3	1.89	0.53
1:X:120:ARG:HD2	1:X:226:LEU:HB2	1.90	0.53
1:1:120:ARG:HD2	1:1:226:LEU:HB2	1.90	0.53
1:b:120:ARG:HD2	1:b:226:LEU:HB2	1.90	0.53
1:g:75:LEU:HD12	1:g:79:GLU:HG3	1.90	0.53
1:g:120:ARG:HD2	1:g:226:LEU:HB2	1.90	0.53
1:p:120:ARG:HD2	1:p:226:LEU:HB2	1.90	0.53
1:v:75:LEU:HD12	1:v:79:GLU:HG3	1.90	0.53
1:C:237:ALA:HA	1:C:333:LEU:HA	1.89	0.53
1:E:75:LEU:HD12	1:E:79:GLU:HG3	1.90	0.53
1:F:120:ARG:HD2	1:F:226:LEU:HB2	1.90	0.53
1:M:75:LEU:HD12	1:M:79:GLU:HG3	1.90	0.53
1:d:134:THR:OG1	1:d:288:ASN:HB2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:75:LEU:HD12	1:n:79:GLU:HG3	1.90	0.53
1:v:112:MET:HE3	1:x:112:MET:HE3	1.89	0.53
1:A:75:LEU:HD12	1:A:79:GLU:HG3	1.90	0.53
1:D:133:LEU:H	1:D:213:GLN:NE2	2.02	0.53
1:I:120:ARG:HD2	1:I:226:LEU:HB2	1.90	0.53
1:L:133:LEU:H	1:L:213:GLN:NE2	2.02	0.53
1:N:112:MET:HE3	1:O:112:MET:HE3	1.89	0.53
1:5:120:ARG:HD2	1:5:226:LEU:HB2	1.90	0.53
1:b:133:LEU:H	1:b:213:GLN:NE2	2.02	0.53
1:j:237:ALA:HA	1:j:333:LEU:HA	1.89	0.53
1:r:120:ARG:HD2	1:r:226:LEU:HB2	1.90	0.53
1:y:75:LEU:HD12	1:y:79:GLU:HG3	1.90	0.53
1:z:133:LEU:H	1:z:213:GLN:NE2	2.02	0.53
1:D:118:ALA:HB1	1:D:229:TRP:HB3	1.91	0.53
1:E:118:ALA:HB1	1:E:229:TRP:HB3	1.91	0.53
1:E:136:ASP:O	1:E:137:GLU:C	2.52	0.53
1:F:237:ALA:HA	1:F:333:LEU:HA	1.89	0.53
1:H:134:THR:OG1	1:H:288:ASN:HB2	2.07	0.53
1:K:75:LEU:HD12	1:K:79:GLU:HG3	1.90	0.53
1:T:182:SER:OG	1:T:187:ASP:OD2	2.19	0.53
1:5:237:ALA:HA	1:5:333:LEU:HA	1.89	0.53
1:i:75:LEU:HD12	1:i:79:GLU:HG3	1.90	0.53
1:n:118:ALA:HB1	1:n:229:TRP:HB3	1.91	0.53
1:n:136:ASP:O	1:n:137:GLU:C	2.52	0.53
1:r:136:ASP:O	1:r:137:GLU:C	2.52	0.53
1:s:75:LEU:HD12	1:s:79:GLU:HG3	1.90	0.53
1:z:118:ALA:HB1	1:z:229:TRP:HB3	1.91	0.53
1:7:120:ARG:HD2	1:7:226:LEU:HB2	1.90	0.53
1:A:169:LYS:HE2	1:A:345:GLN:HE21	1.74	0.53
1:I:136:ASP:O	1:I:137:GLU:C	2.52	0.53
1:N:120:ARG:HD2	1:N:226:LEU:HB2	1.90	0.53
1:N:136:ASP:O	1:N:137:GLU:C	2.52	0.53
1:Q:118:ALA:HB1	1:Q:229:TRP:HB3	1.91	0.53
1:R:169:LYS:HE2	1:R:345:GLN:HE21	1.74	0.53
1:3:75:LEU:HD12	1:3:79:GLU:HG3	1.90	0.53
1:6:120:ARG:HD2	1:6:226:LEU:HB2	1.90	0.53
1:a:285:PHE:CE1	1:e:149:THR:HG23	2.42	0.53
1:d:136:ASP:O	1:d:137:GLU:C	2.52	0.53
1:l:120:ARG:HD2	1:l:226:LEU:HB2	1.90	0.53
1:p:237:ALA:HA	1:p:333:LEU:HA	1.89	0.53
1:s:118:ALA:HB1	1:s:229:TRP:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:169:LYS:HE2	1:s:345:GLN:HE21	1.74	0.53
1:u:169:LYS:HE2	1:u:345:GLN:HE21	1.74	0.53
1:x:136:ASP:O	1:x:137:GLU:C	2.52	0.53
1:A:118:ALA:HB1	1:A:229:TRP:HB3	1.91	0.53
1:C:182:SER:OG	1:C:187:ASP:OD2	2.19	0.53
1:H:136:ASP:O	1:H:137:GLU:C	2.52	0.53
1:J:120:ARG:HD2	1:J:226:LEU:HB2	1.90	0.53
1:O:96:THR:HA	1:O:185:GLU:OE1	2.10	0.53
1:Q:120:ARG:HD2	1:Q:226:LEU:HB2	1.90	0.53
1:R:118:ALA:HB1	1:R:229:TRP:HB3	1.91	0.53
1:R:182:SER:OG	1:R:187:ASP:OD2	2.19	0.53
1:S:120:ARG:HD2	1:S:226:LEU:HB2	1.90	0.53
1:T:136:ASP:O	1:T:137:GLU:C	2.52	0.53
1:W:118:ALA:HB1	1:W:229:TRP:HB3	1.91	0.53
1:X:169:LYS:HE2	1:X:345:GLN:HE21	1.74	0.53
1:Y:149:THR:HG23	1:x:285:PHE:CE1	2.43	0.53
1:Y:169:LYS:HE2	1:Y:345:GLN:HE21	1.74	0.53
1:2:75:LEU:HD12	1:2:79:GLU:HG3	1.90	0.53
1:6:237:ALA:HA	1:6:333:LEU:HA	1.89	0.53
1:b:169:LYS:HE2	1:b:345:GLN:HE21	1.74	0.53
1:c:169:LYS:HE2	1:c:345:GLN:HE21	1.74	0.53
1:k:118:ALA:HB1	1:k:229:TRP:HB3	1.91	0.53
1:n:258:ILE:HG12	1:o:243:ASN:O	2.09	0.53
1:q:120:ARG:HD2	1:q:226:LEU:HB2	1.90	0.53
1:w:120:ARG:HD2	1:w:226:LEU:HB2	1.90	0.53
1:8:96:THR:HA	1:8:185:GLU:OE1	2.10	0.53
1:B:118:ALA:HB1	1:B:229:TRP:HB3	1.91	0.52
1:C:169:LYS:HE2	1:C:345:GLN:HE21	1.74	0.52
1:D:96:THR:HA	1:D:185:GLU:OE1	2.10	0.52
1:D:120:ARG:HD2	1:D:226:LEU:HB2	1.90	0.52
1:E:258:ILE:HG12	1:Q:243:ASN:O	2.09	0.52
1:F:243:ASN:O	1:Q:258:ILE:HG12	2.09	0.52
1:L:169:LYS:HE2	1:L:345:GLN:HE21	1.74	0.52
1:O:243:ASN:O	1:h:258:ILE:HG12	2.09	0.52
1:T:169:LYS:HE2	1:T:345:GLN:HE21	1.74	0.52
1:T:258:ILE:HG12	1:4:243:ASN:O	2.09	0.52
1:T:285:PHE:CE1	1:c:149:THR:HG23	2.43	0.52
1:V:118:ALA:HB1	1:V:229:TRP:HB3	1.91	0.52
1:X:135:SER:OG	1:X:152:ASN:ND2	2.37	0.52
1:Z:243:ASN:O	1:w:258:ILE:HG12	2.09	0.52
1:1:136:ASP:O	1:1:137:GLU:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:258:ILE:HG12	1:8:243:ASN:O	2.09	0.52
1:3:169:LYS:HE2	1:3:345:GLN:HE21	1.74	0.52
1:a:118:ALA:HB1	1:a:229:TRP:HB3	1.91	0.52
1:d:118:ALA:HB1	1:d:229:TRP:HB3	1.91	0.52
1:e:118:ALA:HB1	1:e:229:TRP:HB3	1.91	0.52
1:h:136:ASP:O	1:h:137:GLU:C	2.52	0.52
1:i:258:ILE:HG12	1:j:243:ASN:O	2.09	0.52
1:j:169:LYS:HE2	1:j:345:GLN:HE21	1.74	0.52
1:n:120:ARG:HD2	1:n:226:LEU:HB2	1.90	0.52
1:o:118:ALA:HB1	1:o:229:TRP:HB3	1.91	0.52
1:p:169:LYS:HE2	1:p:345:GLN:HE21	1.74	0.52
1:t:120:ARG:HD2	1:t:226:LEU:HB2	1.90	0.52
1:u:96:THR:HA	1:u:185:GLU:OE1	2.10	0.52
1:u:118:ALA:HB1	1:u:229:TRP:HB3	1.91	0.52
1:v:120:ARG:HD2	1:v:226:LEU:HB2	1.90	0.52
1:w:243:ASN:O	1:x:258:ILE:HG12	2.09	0.52
1:x:169:LYS:HE2	1:x:345:GLN:HE21	1.74	0.52
1:z:120:ARG:HD2	1:z:226:LEU:HB2	1.90	0.52
1:7:169:LYS:HE2	1:7:345:GLN:HE21	1.74	0.52
1:A:135:SER:OG	1:A:152:ASN:ND2	2.37	0.52
1:C:120:ARG:HD2	1:C:226:LEU:HB2	1.90	0.52
1:C:243:ASN:O	1:M:258:ILE:HG12	2.09	0.52
1:F:169:LYS:HE2	1:F:345:GLN:HE21	1.74	0.52
1:G:96:THR:HA	1:G:185:GLU:OE1	2.10	0.52
1:G:120:ARG:HD2	1:G:226:LEU:HB2	1.90	0.52
1:I:118:ALA:HB1	1:I:229:TRP:HB3	1.91	0.52
1:K:169:LYS:HE2	1:K:345:GLN:HE21	1.74	0.52
1:K:237:ALA:HA	1:K:333:LEU:HA	1.89	0.52
1:K:243:ASN:O	1:8:258:ILE:HG12	2.09	0.52
1:O:120:ARG:HD2	1:O:226:LEU:HB2	1.90	0.52
1:P:182:SER:OG	1:P:187:ASP:OD2	2.19	0.52
1:R:96:THR:HA	1:R:185:GLU:OE1	2.10	0.52
1:S:118:ALA:HB1	1:S:229:TRP:HB3	1.91	0.52
1:U:120:ARG:HD2	1:U:226:LEU:HB2	1.90	0.52
1:Y:136:ASP:O	1:Y:137:GLU:C	2.52	0.52
1:Z:258:ILE:HG12	1:x:243:ASN:O	2.09	0.52
1:2:169:LYS:HE2	1:2:345:GLN:HE21	1.74	0.52
1:4:120:ARG:HD2	1:4:226:LEU:HB2	1.90	0.52
1:4:258:ILE:HG12	1:f:243:ASN:O	2.09	0.52
1:b:96:THR:HA	1:b:185:GLU:OE1	2.10	0.52
1:g:169:LYS:HE2	1:g:345:GLN:HE21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:237:ALA:HA	1:g:333:LEU:HA	1.89	0.52
1:m:169:LYS:HE2	1:m:345:GLN:HE21	1.74	0.52
1:o:120:ARG:HD2	1:o:226:LEU:HB2	1.90	0.52
1:o:136:ASP:O	1:o:137:GLU:C	2.52	0.52
1:o:258:ILE:HG12	1:p:243:ASN:O	2.09	0.52
1:q:96:THR:HA	1:q:185:GLU:OE1	2.10	0.52
1:r:118:ALA:HB1	1:r:229:TRP:HB3	1.91	0.52
1:r:258:ILE:HG12	1:s:243:ASN:O	2.09	0.52
1:u:182:SER:OG	1:u:187:ASP:OD2	2.19	0.52
1:x:182:SER:OG	1:x:187:ASP:OD2	2.19	0.52
1:y:182:SER:OG	1:y:187:ASP:OD2	2.19	0.52
1:y:258:ILE:HG12	1:z:243:ASN:O	2.10	0.52
1:z:96:THR:HA	1:z:185:GLU:OE1	2.10	0.52
1:A:136:ASP:O	1:A:137:GLU:C	2.52	0.52
1:B:243:ASN:O	1:L:258:ILE:HG12	2.09	0.52
1:D:243:ASN:O	1:P:258:ILE:HG12	2.10	0.52
1:H:118:ALA:HB1	1:H:229:TRP:HB3	1.91	0.52
1:H:243:ASN:O	1:Y:258:ILE:HG12	2.09	0.52
1:M:149:THR:HG23	1:N:285:PHE:CE1	2.45	0.52
1:M:243:ASN:O	1:2:258:ILE:HG12	2.10	0.52
1:O:169:LYS:HE2	1:O:345:GLN:HE21	1.74	0.52
1:O:258:ILE:HG12	1:g:243:ASN:O	2.09	0.52
1:Q:136:ASP:O	1:Q:137:GLU:C	2.52	0.52
1:T:96:THR:HA	1:T:185:GLU:OE1	2.10	0.52
1:T:243:ASN:O	1:f:258:ILE:HG12	2.09	0.52
1:V:135:SER:OG	1:V:152:ASN:ND2	2.37	0.52
1:W:169:LYS:HE2	1:W:345:GLN:HE21	1.74	0.52
1:X:96:THR:HA	1:X:185:GLU:OE1	2.10	0.52
1:2:161:ILE:HG12	1:2:271:HIS:CD2	2.45	0.52
1:3:161:ILE:HG12	1:3:271:HIS:CD2	2.45	0.52
1:4:169:LYS:HE2	1:4:345:GLN:HE21	1.74	0.52
1:6:96:THR:HA	1:6:185:GLU:OE1	2.10	0.52
1:b:135:SER:OG	1:b:152:ASN:ND2	2.37	0.52
1:c:96:THR:HA	1:c:185:GLU:OE1	2.09	0.52
1:c:136:ASP:O	1:c:137:GLU:C	2.52	0.52
1:e:169:LYS:HE2	1:e:345:GLN:HE21	1.74	0.52
1:j:120:ARG:HD2	1:j:226:LEU:HB2	1.90	0.52
1:k:243:ASN:O	1:m:258:ILE:HG12	2.09	0.52
1:v:118:ALA:HB1	1:v:229:TRP:HB3	1.91	0.52
1:8:120:ARG:HD2	1:8:226:LEU:HB2	1.90	0.52
1:8:169:LYS:HE2	1:8:345:GLN:HE21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:120:ARG:HD2	1:E:226:LEU:HB2	1.90	0.52
1:E:161:ILE:HG12	1:E:271:HIS:CD2	2.45	0.52
1:G:149:THR:HG23	1:W:285:PHE:CE1	2.45	0.52
1:M:161:ILE:HG12	1:M:271:HIS:CD2	2.45	0.52
1:N:169:LYS:HE2	1:N:345:GLN:HE21	1.74	0.52
1:W:161:ILE:HG12	1:W:271:HIS:CD2	2.45	0.52
1:Y:96:THR:HA	1:Y:185:GLU:OE1	2.09	0.52
1:1:118:ALA:HB1	1:1:229:TRP:HB3	1.91	0.52
1:2:96:THR:HA	1:2:185:GLU:OE1	2.10	0.52
1:3:96:THR:HA	1:3:185:GLU:OE1	2.10	0.52
1:3:258:ILE:HG12	1:i:243:ASN:O	2.10	0.52
1:5:96:THR:HA	1:5:185:GLU:OE1	2.10	0.52
1:g:118:ALA:HB1	1:g:229:TRP:HB3	1.91	0.52
1:j:182:SER:OG	1:j:187:ASP:OD2	2.19	0.52
1:n:161:ILE:HG12	1:n:271:HIS:CD2	2.45	0.52
1:s:136:ASP:O	1:s:137:GLU:C	2.52	0.52
1:t:169:LYS:HE2	1:t:345:GLN:HE21	1.74	0.52
1:w:169:LYS:HE2	1:w:345:GLN:HE21	1.74	0.52
1:x:96:THR:HA	1:x:185:GLU:OE1	2.10	0.52
1:y:96:THR:HA	1:y:185:GLU:OE1	2.10	0.52
1:7:182:SER:OG	1:7:187:ASP:OD2	2.19	0.52
1:A:161:ILE:HG12	1:A:271:HIS:CD2	2.45	0.52
1:A:243:ASN:O	1:I:258:ILE:HG12	2.09	0.52
1:F:149:THR:HG23	1:G:285:PHE:CE1	2.45	0.52
1:H:258:ILE:HG12	1:W:243:ASN:O	2.10	0.52
1:P:96:THR:HA	1:P:185:GLU:OE1	2.09	0.52
1:S:161:ILE:HG12	1:S:271:HIS:CD2	2.45	0.52
1:T:118:ALA:HB1	1:T:229:TRP:HB3	1.91	0.52
1:U:169:LYS:HE2	1:U:345:GLN:HE21	1.74	0.52
1:V:136:ASP:O	1:V:137:GLU:C	2.52	0.52
1:a:136:ASP:O	1:a:137:GLU:C	2.52	0.52
1:b:75:LEU:HD12	1:b:79:GLU:HG3	1.90	0.52
1:b:161:ILE:HG12	1:b:271:HIS:CD2	2.45	0.52
1:c:258:ILE:HG12	1:d:243:ASN:O	2.10	0.52
1:d:96:THR:HA	1:d:185:GLU:OE1	2.10	0.52
1:e:161:ILE:HG12	1:e:271:HIS:CD2	2.45	0.52
1:g:258:ILE:HG12	1:h:243:ASN:O	2.09	0.52
1:h:118:ALA:HB1	1:h:229:TRP:HB3	1.91	0.52
1:i:161:ILE:HG12	1:i:271:HIS:CD2	2.45	0.52
1:l:96:THR:HA	1:l:185:GLU:OE1	2.10	0.52
1:l:285:PHE:CE1	1:r:149:THR:HG23	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:161:ILE:HG12	1:p:271:HIS:CD2	2.45	0.52
1:s:161:ILE:HG12	1:s:271:HIS:CD2	2.45	0.52
1:t:258:ILE:HG12	1:u:243:ASN:O	2.09	0.52
1:A:96:THR:HA	1:A:185:GLU:OE1	2.10	0.52
1:B:96:THR:HA	1:B:185:GLU:OE1	2.10	0.52
1:C:136:ASP:O	1:C:137:GLU:C	2.52	0.52
1:F:161:ILE:HG12	1:F:271:HIS:CD2	2.45	0.52
1:H:96:THR:HA	1:H:185:GLU:OE1	2.10	0.52
1:I:149:THR:HG23	1:J:285:PHE:CE1	2.45	0.52
1:J:96:THR:HA	1:J:185:GLU:OE1	2.10	0.52
1:K:136:ASP:O	1:K:137:GLU:C	2.52	0.52
1:K:161:ILE:HG12	1:K:271:HIS:CD2	2.45	0.52
1:K:258:ILE:HG12	1:l:243:ASN:O	2.09	0.52
1:N:182:SER:OG	1:N:187:ASP:OD2	2.19	0.52
1:Q:75:LEU:HD12	1:Q:79:GLU:HG3	1.90	0.52
1:Q:149:THR:HG23	1:S:285:PHE:CE1	2.45	0.52
1:R:243:ASN:O	1:U:258:ILE:HG12	2.09	0.52
1:R:258:ILE:HG12	1:S:243:ASN:O	2.10	0.52
1:S:96:THR:HA	1:S:185:GLU:OE1	2.10	0.52
1:U:118:ALA:HB1	1:U:229:TRP:HB3	1.91	0.52
1:V:169:LYS:HE2	1:V:345:GLN:HE21	1.74	0.52
1:4:161:ILE:HG12	1:4:271:HIS:CD2	2.45	0.52
1:6:258:ILE:HG12	1:b:243:ASN:O	2.09	0.52
1:a:135:SER:OG	1:a:152:ASN:ND2	2.37	0.52
1:a:169:LYS:HE2	1:a:345:GLN:HE21	1.74	0.52
1:g:161:ILE:HG12	1:g:271:HIS:CD2	2.45	0.52
1:i:149:THR:HG23	1:7:285:PHE:CE1	2.45	0.52
1:j:285:PHE:CE1	1:z:149:THR:HG23	2.45	0.52
1:k:258:ILE:HG12	1:l:243:ASN:O	2.10	0.52
1:l:136:ASP:O	1:l:137:GLU:C	2.52	0.52
1:s:135:SER:OG	1:s:152:ASN:ND2	2.37	0.52
1:t:118:ALA:HB1	1:t:229:TRP:HB3	1.91	0.52
1:u:258:ILE:HG12	1:v:243:ASN:O	2.10	0.52
1:v:135:SER:OG	1:v:152:ASN:ND2	2.37	0.52
1:v:161:ILE:HG12	1:v:271:HIS:CD2	2.45	0.52
1:w:96:THR:HA	1:w:185:GLU:OE1	2.10	0.52
1:8:118:ALA:HB1	1:8:229:TRP:HB3	1.91	0.52
1:B:161:ILE:HG12	1:B:271:HIS:CD2	2.45	0.52
1:C:135:SER:OG	1:C:152:ASN:ND2	2.37	0.52
1:C:285:PHE:CE1	1:D:149:THR:HG23	2.45	0.52
1:J:136:ASP:O	1:J:137:GLU:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:149:THR:HG23	1:I:285:PHE:CE1	2.45	0.52
1:K:96:THR:HA	1:K:185:GLU:OE1	2.10	0.52
1:K:118:ALA:HB1	1:K:229:TRP:HB3	1.91	0.52
1:L:96:THR:HA	1:L:185:GLU:OE1	2.09	0.52
1:M:96:THR:HA	1:M:185:GLU:OE1	2.10	0.52
1:M:118:ALA:HB1	1:M:229:TRP:HB3	1.91	0.52
1:O:118:ALA:HB1	1:O:229:TRP:HB3	1.91	0.52
1:P:149:THR:HG23	1:Q:285:PHE:CE1	2.45	0.52
1:V:243:ASN:O	1:X:258:ILE:HG12	2.09	0.52
1:X:75:LEU:HD12	1:X:79:GLU:HG3	1.90	0.52
1:X:118:ALA:HB1	1:X:229:TRP:HB3	1.91	0.52
1:X:149:THR:HG23	1:Y:285:PHE:CE1	2.45	0.52
1:X:161:ILE:HG12	1:X:271:HIS:CD2	2.45	0.52
1:X:243:ASN:O	1:5:258:ILE:HG12	2.10	0.52
1:Y:120:ARG:HD2	1:Y:226:LEU:HB2	1.90	0.52
1:3:243:ASN:O	1:j:258:ILE:HG12	2.09	0.52
1:4:96:THR:HA	1:4:185:GLU:OE1	2.10	0.52
1:a:96:THR:HA	1:a:185:GLU:OE1	2.10	0.52
1:b:118:ALA:HB1	1:b:229:TRP:HB3	1.91	0.52
1:c:120:ARG:HD2	1:c:226:LEU:HB2	1.90	0.52
1:c:161:ILE:HG12	1:c:271:HIS:CD2	2.45	0.52
1:d:285:PHE:CE1	1:f:149:THR:HG23	2.45	0.52
1:g:96:THR:HA	1:g:185:GLU:OE1	2.10	0.52
1:j:136:ASP:O	1:j:137:GLU:C	2.52	0.52
1:k:96:THR:HA	1:k:185:GLU:OE1	2.10	0.52
1:l:169:LYS:HE2	1:l:345:GLN:HE21	1.74	0.52
1:l:258:ILE:HG12	1:m:243:ASN:O	2.10	0.52
1:m:96:THR:HA	1:m:185:GLU:OE1	2.10	0.52
1:o:75:LEU:HD12	1:o:79:GLU:HG3	1.90	0.52
1:o:149:THR:HG23	1:v:285:PHE:CE1	2.45	0.52
1:o:285:PHE:CE1	1:y:149:THR:HG23	2.45	0.52
1:p:96:THR:HA	1:p:185:GLU:OE1	2.10	0.52
1:s:96:THR:HA	1:s:185:GLU:OE1	2.10	0.52
1:v:96:THR:HA	1:v:185:GLU:OE1	2.10	0.52
1:w:161:ILE:HG12	1:w:271:HIS:CD2	2.45	0.52
1:x:118:ALA:HB1	1:x:229:TRP:HB3	1.91	0.52
1:B:258:ILE:HG12	1:J:243:ASN:O	2.10	0.52
1:C:161:ILE:HG12	1:C:271:HIS:CD2	2.45	0.52
1:C:258:ILE:HG12	1:2:243:ASN:O	2.09	0.52
1:D:136:ASP:O	1:D:137:GLU:C	2.52	0.52
1:E:243:ASN:O	1:F:258:ILE:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:96:THR:HA	1:F:185:GLU:OE1	2.10	0.52
1:I:169:LYS:HE2	1:I:345:GLN:HE21	1.74	0.52
1:J:169:LYS:HE2	1:J:345:GLN:HE21	1.74	0.52
1:J:258:ILE:HG12	1:L:243:ASN:O	2.10	0.52
1:N:149:THR:HG23	1:g:285:PHE:CE1	2.45	0.52
1:Q:205:PHE:O	1:Q:208:ASN:ND2	2.43	0.52
1:U:136:ASP:O	1:U:137:GLU:C	2.52	0.52
1:V:96:THR:HA	1:V:185:GLU:OE1	2.10	0.52
1:Y:161:ILE:HG12	1:Y:271:HIS:CD2	2.45	0.52
1:Y:205:PHE:O	1:Y:208:ASN:ND2	2.43	0.52
1:Z:285:PHE:CE1	1:1:149:THR:HG23	2.45	0.52
1:2:118:ALA:HB1	1:2:229:TRP:HB3	1.91	0.52
1:b:149:THR:HG23	1:c:285:PHE:CE1	2.45	0.52
1:g:136:ASP:O	1:g:137:GLU:C	2.52	0.52
1:h:285:PHE:CE1	1:l:149:THR:HG23	2.45	0.52
1:i:118:ALA:HB1	1:i:229:TRP:HB3	1.91	0.52
1:j:161:ILE:HG12	1:j:271:HIS:CD2	2.45	0.52
1:k:161:ILE:HG12	1:k:271:HIS:CD2	2.45	0.52
1:p:149:THR:HG23	1:q:285:PHE:CE1	2.45	0.52
1:r:169:LYS:HE2	1:r:345:GLN:HE21	1.74	0.52
1:t:136:ASP:O	1:t:137:GLU:C	2.52	0.52
1:E:169:LYS:HE2	1:E:345:GLN:HE21	1.75	0.52
1:G:161:ILE:HG12	1:G:271:HIS:CD2	2.45	0.52
1:N:258:ILE:HG12	1:P:243:ASN:O	2.10	0.52
1:S:135:SER:OG	1:S:152:ASN:ND2	2.37	0.52
1:Y:118:ALA:HB1	1:Y:229:TRP:HB3	1.91	0.52
1:3:118:ALA:HB1	1:3:229:TRP:HB3	1.91	0.52
1:5:136:ASP:O	1:5:137:GLU:C	2.52	0.52
1:6:136:ASP:O	1:6:137:GLU:C	2.52	0.52
1:c:118:ALA:HB1	1:c:229:TRP:HB3	1.91	0.52
1:c:205:PHE:O	1:c:208:ASN:ND2	2.43	0.52
1:f:285:PHE:CE1	1:h:149:THR:HG23	2.45	0.52
1:i:96:THR:HA	1:i:185:GLU:OE1	2.10	0.52
1:n:169:LYS:HE2	1:n:345:GLN:HE21	1.74	0.52
1:o:161:ILE:HG12	1:o:271:HIS:CD2	2.45	0.52
1:o:205:PHE:O	1:o:208:ASN:ND2	2.43	0.52
1:q:169:LYS:HE2	1:q:345:GLN:HE21	1.74	0.52
1:q:258:ILE:HG12	1:r:243:ASN:O	2.09	0.52
1:t:96:THR:HA	1:t:185:GLU:OE1	2.09	0.52
1:z:136:ASP:O	1:z:137:GLU:C	2.52	0.52
1:7:96:THR:HA	1:7:185:GLU:OE1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:161:ILE:HG12	1:7:271:HIS:CD2	2.45	0.52
1:D:285:PHE:CE1	1:E:149:THR:HG23	2.45	0.52
1:F:118:ALA:HB1	1:F:229:TRP:HB3	1.91	0.52
1:H:285:PHE:CE1	1:Z:149:THR:HG23	2.45	0.52
1:I:75:LEU:HD12	1:I:79:GLU:HG3	1.90	0.52
1:N:161:ILE:HG12	1:N:271:HIS:CD2	2.45	0.52
1:P:169:LYS:HE2	1:P:345:GLN:HE21	1.74	0.52
1:Q:161:ILE:HG12	1:Q:271:HIS:CD2	2.45	0.52
1:3:120:ARG:HD2	1:3:226:LEU:HB2	1.90	0.52
1:6:133:LEU:H	1:6:213:GLN:NE2	2.02	0.52
1:a:149:THR:HG23	1:u:285:PHE:CE1	2.45	0.52
1:a:243:ASN:O	1:b:258:ILE:HG12	2.09	0.52
1:n:243:ASN:O	1:p:258:ILE:HG12	2.10	0.52
1:o:169:LYS:HE2	1:o:345:GLN:HE21	1.74	0.52
1:p:118:ALA:HB1	1:p:229:TRP:HB3	1.91	0.52
1:q:161:ILE:HG12	1:q:271:HIS:CD2	2.45	0.52
1:r:75:LEU:HD12	1:r:79:GLU:HG3	1.90	0.52
1:y:243:ASN:O	1:7:258:ILE:HG12	2.09	0.52
1:D:161:ILE:HG12	1:D:271:HIS:CD2	2.45	0.51
1:D:258:ILE:HG12	1:N:243:ASN:O	2.10	0.51
1:G:118:ALA:HB1	1:G:229:TRP:HB3	1.91	0.51
1:G:258:ILE:HG12	1:I:243:ASN:O	2.09	0.51
1:N:96:THR:HA	1:N:185:GLU:OE1	2.10	0.51
1:Q:169:LYS:HE2	1:Q:345:GLN:HE21	1.74	0.51
1:U:75:LEU:HD12	1:U:79:GLU:HG3	1.90	0.51
1:U:96:THR:HA	1:U:185:GLU:OE1	2.09	0.51
1:Z:96:THR:HA	1:Z:185:GLU:OE1	2.10	0.51
1:3:136:ASP:O	1:3:137:GLU:C	2.52	0.51
1:d:75:LEU:HD12	1:d:79:GLU:HG3	1.90	0.51
1:e:96:THR:HA	1:e:185:GLU:OE1	2.10	0.51
1:i:136:ASP:O	1:i:137:GLU:C	2.52	0.51
1:j:135:SER:OG	1:j:152:ASN:ND2	2.37	0.51
1:l:161:ILE:HG12	1:l:271:HIS:CD2	2.45	0.51
1:n:149:THR:HG23	1:z:285:PHE:CE1	2.45	0.51
1:t:135:SER:HG	1:t:152:ASN:HD21	1.58	0.51
1:y:118:ALA:HB1	1:y:229:TRP:HB3	1.91	0.51
1:8:161:ILE:HG12	1:8:271:HIS:CD2	2.45	0.51
1:G:169:LYS:HE2	1:G:345:GLN:HE21	1.75	0.51
1:J:118:ALA:HB1	1:J:229:TRP:HB3	1.91	0.51
1:J:161:ILE:HG12	1:J:271:HIS:CD2	2.45	0.51
1:L:205:PHE:O	1:L:208:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:136:ASP:O	1:M:137:GLU:C	2.52	0.51
1:P:118:ALA:HB1	1:P:229:TRP:HB3	1.91	0.51
1:S:149:THR:HG23	1:4:285:PHE:CE1	2.45	0.51
1:V:205:PHE:O	1:V:208:ASN:ND2	2.43	0.51
1:Y:75:LEU:HD12	1:Y:79:GLU:HG3	1.90	0.51
1:2:120:ARG:HD2	1:2:226:LEU:HB2	1.90	0.51
1:a:165:GLN:HE21	1:a:168:SER:HA	1.76	0.51
1:c:75:LEU:HD12	1:c:79:GLU:HG3	1.90	0.51
1:f:96:THR:HA	1:f:185:GLU:OE1	2.10	0.51
1:l:118:ALA:HB1	1:l:229:TRP:HB3	1.91	0.51
1:m:205:PHE:O	1:m:208:ASN:ND2	2.43	0.51
1:p:136:ASP:O	1:p:137:GLU:C	2.52	0.51
1:t:75:LEU:HD12	1:t:79:GLU:HG3	1.90	0.51
1:t:243:ASN:O	1:v:258:ILE:HG12	2.10	0.51
1:u:136:ASP:O	1:u:137:GLU:C	2.52	0.51
1:u:161:ILE:HG12	1:u:271:HIS:CD2	2.45	0.51
1:v:149:THR:HG23	1:w:285:PHE:CE1	2.45	0.51
1:v:169:LYS:HE2	1:v:345:GLN:HE21	1.74	0.51
1:x:161:ILE:HG12	1:x:271:HIS:CD2	2.45	0.51
1:y:169:LYS:HE2	1:y:345:GLN:HE21	1.74	0.51
1:B:165:GLN:HE21	1:B:168:SER:HA	1.76	0.51
1:F:136:ASP:O	1:F:137:GLU:C	2.52	0.51
1:H:75:LEU:HD12	1:H:79:GLU:HG3	1.90	0.51
1:H:161:ILE:HG12	1:H:271:HIS:CD2	2.45	0.51
1:I:135:SER:OG	1:I:152:ASN:ND2	2.37	0.51
1:O:161:ILE:HG12	1:O:271:HIS:CD2	2.45	0.51
1:O:165:GLN:HE21	1:O:168:SER:HA	1.76	0.51
1:R:161:ILE:HG12	1:R:271:HIS:CD2	2.45	0.51
1:S:258:ILE:HG12	1:U:243:ASN:O	2.10	0.51
1:T:161:ILE:HG12	1:T:271:HIS:CD2	2.45	0.51
1:U:135:SER:HG	1:U:152:ASN:HD21	1.58	0.51
1:V:165:GLN:HE21	1:V:168:SER:HA	1.76	0.51
1:W:96:THR:HA	1:W:185:GLU:OE1	2.10	0.51
1:Z:135:SER:OG	1:Z:152:ASN:ND2	2.37	0.51
1:2:136:ASP:O	1:2:137:GLU:C	2.52	0.51
1:2:270:GLY:HA2	1:2:346:PHE:CD1	2.46	0.51
1:3:270:GLY:HA2	1:3:346:PHE:CD1	2.46	0.51
1:5:270:GLY:HA2	1:5:346:PHE:CD1	2.46	0.51
1:6:243:ASN:O	1:a:258:ILE:HG12	2.09	0.51
1:6:270:GLY:HA2	1:6:346:PHE:CD1	2.46	0.51
1:a:205:PHE:O	1:a:208:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:161:ILE:HG12	1:d:271:HIS:CD2	2.45	0.51
1:f:135:SER:OG	1:f:152:ASN:ND2	2.37	0.51
1:q:118:ALA:HB1	1:q:229:TRP:HB3	1.91	0.51
1:r:135:SER:OG	1:r:152:ASN:ND2	2.37	0.51
1:v:165:GLN:HE21	1:v:168:SER:HA	1.76	0.51
1:C:96:THR:HA	1:C:185:GLU:OE1	2.10	0.51
1:E:120:ARG:HG3	1:E:226:LEU:HD12	1.93	0.51
1:L:149:THR:HG23	1:2:285:PHE:CE1	2.45	0.51
1:Q:96:THR:HA	1:Q:185:GLU:OE1	2.10	0.51
1:R:136:ASP:O	1:R:137:GLU:C	2.52	0.51
1:R:270:GLY:HA2	1:R:346:PHE:CD1	2.46	0.51
1:R:285:PHE:CE1	1:V:149:THR:HG23	2.45	0.51
1:S:165:GLN:HE21	1:S:168:SER:HA	1.76	0.51
1:S:169:LYS:HE2	1:S:345:GLN:HE21	1.74	0.51
1:V:258:ILE:HG12	1:5:243:ASN:O	2.09	0.51
1:Y:270:GLY:HA2	1:Y:346:PHE:CD1	2.46	0.51
1:2:133:LEU:H	1:2:213:GLN:NE2	2.02	0.51
1:5:133:LEU:H	1:5:213:GLN:NE2	2.02	0.51
1:5:165:GLN:HE21	1:5:168:SER:HA	1.76	0.51
1:6:118:ALA:HB1	1:6:229:TRP:HB3	1.91	0.51
1:6:165:GLN:HE21	1:6:168:SER:HA	1.76	0.51
1:6:285:PHE:CE1	1:t:149:THR:HG23	2.45	0.51
1:a:161:ILE:HG12	1:a:271:HIS:CD2	2.45	0.51
1:c:270:GLY:HA2	1:c:346:PHE:CD1	2.46	0.51
1:e:120:ARG:HG3	1:e:226:LEU:HD12	1.93	0.51
1:g:165:GLN:HE21	1:g:168:SER:HA	1.76	0.51
1:h:270:GLY:HA2	1:h:346:PHE:CD1	2.46	0.51
1:j:96:THR:HA	1:j:185:GLU:OE1	2.10	0.51
1:k:165:GLN:HE21	1:k:168:SER:HA	1.76	0.51
1:n:165:GLN:HE21	1:n:168:SER:HA	1.76	0.51
1:q:165:GLN:HE21	1:q:168:SER:HA	1.76	0.51
1:u:270:GLY:HA2	1:u:346:PHE:CD1	2.46	0.51
1:z:161:ILE:HG12	1:z:271:HIS:CD2	2.45	0.51
1:C:118:ALA:HB1	1:C:229:TRP:HB3	1.91	0.51
1:E:96:THR:HA	1:E:185:GLU:OE1	2.10	0.51
1:E:165:GLN:HE21	1:E:168:SER:HA	1.76	0.51
1:G:165:GLN:HE21	1:G:168:SER:HA	1.76	0.51
1:H:169:LYS:HE2	1:H:345:GLN:HE21	1.74	0.51
1:I:96:THR:HA	1:I:185:GLU:OE1	2.10	0.51
1:K:165:GLN:HE21	1:K:168:SER:HA	1.76	0.51
1:L:161:ILE:HG12	1:L:271:HIS:CD2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:120:ARG:HG3	1:M:226:LEU:HD12	1.93	0.51
1:M:270:GLY:HA2	1:M:346:PHE:CD1	2.46	0.51
1:T:165:GLN:HE21	1:T:168:SER:HA	1.76	0.51
1:U:149:THR:HG23	1:5:285:PHE:CE1	2.45	0.51
1:U:165:GLN:HE21	1:U:168:SER:HA	1.76	0.51
1:V:161:ILE:HG12	1:V:271:HIS:CD2	2.45	0.51
1:1:96:THR:HA	1:1:185:GLU:OE1	2.10	0.51
1:2:120:ARG:HG3	1:2:226:LEU:HD12	1.93	0.51
1:3:120:ARG:HG3	1:3:226:LEU:HD12	1.93	0.51
1:3:285:PHE:CE1	1:m:149:THR:HG23	2.45	0.51
1:4:270:GLY:HA2	1:4:346:PHE:CD1	2.46	0.51
1:5:118:ALA:HB1	1:5:229:TRP:HB3	1.91	0.51
1:d:169:LYS:HE2	1:d:345:GLN:HE21	1.74	0.51
1:f:161:ILE:HG12	1:f:271:HIS:CD2	2.45	0.51
1:g:270:GLY:HA2	1:g:346:PHE:CD1	2.46	0.51
1:i:120:ARG:HG3	1:i:226:LEU:HD12	1.93	0.51
1:j:205:PHE:O	1:j:208:ASN:ND2	2.43	0.51
1:k:169:LYS:HE2	1:k:345:GLN:HE21	1.74	0.51
1:o:96:THR:HA	1:o:185:GLU:OE1	2.10	0.51
1:p:205:PHE:O	1:p:208:ASN:ND2	2.43	0.51
1:w:270:GLY:HA2	1:w:346:PHE:CD1	2.46	0.51
1:x:165:GLN:HE21	1:x:168:SER:HA	1.76	0.51
1:8:165:GLN:HE21	1:8:168:SER:HA	1.76	0.51
1:C:120:ARG:HG3	1:C:226:LEU:HD12	1.93	0.51
1:D:205:PHE:O	1:D:208:ASN:ND2	2.43	0.51
1:F:165:GLN:HE21	1:F:168:SER:HA	1.76	0.51
1:F:205:PHE:O	1:F:208:ASN:ND2	2.43	0.51
1:H:120:ARG:HG3	1:H:226:LEU:HD12	1.93	0.51
1:H:149:THR:HG23	1:I:285:PHE:CE1	2.45	0.51
1:I:182:SER:OG	1:I:187:ASP:OD2	2.19	0.51
1:J:205:PHE:O	1:J:208:ASN:ND2	2.43	0.51
1:K:270:GLY:HA2	1:K:346:PHE:CD1	2.46	0.51
1:R:205:PHE:O	1:R:208:ASN:ND2	2.43	0.51
1:T:120:ARG:HG3	1:T:226:LEU:HD12	1.93	0.51
1:W:120:ARG:HG3	1:W:226:LEU:HD12	1.93	0.51
1:Z:161:ILE:HG12	1:Z:271:HIS:CD2	2.45	0.51
1:Z:205:PHE:O	1:Z:208:ASN:ND2	2.43	0.51
1:1:270:GLY:HA2	1:1:346:PHE:CD1	2.46	0.51
1:3:133:LEU:H	1:3:213:GLN:NE2	2.02	0.51
1:4:118:ALA:HB1	1:4:229:TRP:HB3	1.91	0.51
1:4:165:GLN:HE21	1:4:168:SER:HA	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:149:THR:HG23	1:b:285:PHE:CE1	2.45	0.51
1:5:161:ILE:HG12	1:5:271:HIS:CD2	2.45	0.51
1:d:120:ARG:HG3	1:d:226:LEU:HD12	1.93	0.51
1:f:205:PHE:O	1:f:208:ASN:ND2	2.43	0.51
1:h:96:THR:HA	1:h:185:GLU:OE1	2.10	0.51
1:h:135:SER:OG	1:h:152:ASN:ND2	2.37	0.51
1:h:169:LYS:HE2	1:h:345:GLN:HE21	1.74	0.51
1:i:270:GLY:HA2	1:i:346:PHE:CD1	2.46	0.51
1:j:118:ALA:HB1	1:j:229:TRP:HB3	1.91	0.51
1:j:120:ARG:HG3	1:j:226:LEU:HD12	1.93	0.51
1:k:270:GLY:HA2	1:k:346:PHE:CD1	2.46	0.51
1:m:161:ILE:HG12	1:m:271:HIS:CD2	2.45	0.51
1:n:96:THR:HA	1:n:185:GLU:OE1	2.10	0.51
1:n:120:ARG:HG3	1:n:226:LEU:HD12	1.93	0.51
1:o:165:GLN:HE21	1:o:168:SER:HA	1.76	0.51
1:p:165:GLN:HE21	1:p:168:SER:HA	1.76	0.51
1:r:96:THR:HA	1:r:185:GLU:OE1	2.10	0.51
1:t:165:GLN:HE21	1:t:168:SER:HA	1.76	0.51
1:u:205:PHE:O	1:u:208:ASN:ND2	2.43	0.51
1:w:118:ALA:HB1	1:w:229:TRP:HB3	1.91	0.51
1:A:258:ILE:HG12	1:G:243:ASN:O	2.10	0.51
1:B:169:LYS:HE2	1:B:345:GLN:HE21	1.74	0.51
1:C:205:PHE:O	1:C:208:ASN:ND2	2.43	0.51
1:D:169:LYS:HE2	1:D:345:GLN:HE21	1.74	0.51
1:Q:165:GLN:HE21	1:Q:168:SER:HA	1.76	0.51
1:W:270:GLY:HA2	1:W:346:PHE:CD1	2.46	0.51
1:Z:169:LYS:HE2	1:Z:345:GLN:HE21	1.75	0.51
1:1:135:SER:OG	1:1:152:ASN:ND2	2.37	0.51
1:d:149:THR:HG23	1:r:285:PHE:CE1	2.45	0.51
1:h:161:ILE:HG12	1:h:271:HIS:CD2	2.45	0.51
1:m:118:ALA:HB1	1:m:229:TRP:HB3	1.91	0.51
1:r:165:GLN:HE21	1:r:168:SER:HA	1.76	0.51
1:r:182:SER:OG	1:r:187:ASP:OD2	2.19	0.51
1:w:165:GLN:HE21	1:w:168:SER:HA	1.76	0.51
1:x:120:ARG:HG3	1:x:226:LEU:HD12	1.93	0.51
1:z:205:PHE:O	1:z:208:ASN:ND2	2.43	0.51
1:B:270:GLY:HA2	1:B:346:PHE:CD1	2.46	0.51
1:F:270:GLY:HA2	1:F:346:PHE:CD1	2.46	0.51
1:I:165:GLN:HE21	1:I:168:SER:HA	1.76	0.51
1:K:135:SER:OG	1:K:152:ASN:ND2	2.37	0.51
1:M:169:LYS:HE2	1:M:345:GLN:HE21	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:285:PHE:CE1	1:4:149:THR:HG23	2.45	0.51
1:S:270:GLY:HA2	1:S:346:PHE:CD1	2.46	0.51
1:U:270:GLY:HA2	1:U:346:PHE:CD1	2.46	0.51
1:1:161:ILE:HG12	1:1:271:HIS:CD2	2.45	0.51
1:1:165:GLN:HE21	1:1:168:SER:HA	1.76	0.51
1:6:161:ILE:HG12	1:6:271:HIS:CD2	2.45	0.51
1:d:165:GLN:HE21	1:d:168:SER:HA	1.76	0.51
1:d:270:GLY:HA2	1:d:346:PHE:CD1	2.46	0.51
1:e:270:GLY:HA2	1:e:346:PHE:CD1	2.46	0.51
1:f:118:ALA:HB1	1:f:229:TRP:HB3	1.91	0.51
1:f:169:LYS:HE2	1:f:345:GLN:HE21	1.74	0.51
1:h:165:GLN:HE21	1:h:168:SER:HA	1.76	0.51
1:l:205:PHE:O	1:l:208:ASN:ND2	2.43	0.51
1:q:136:ASP:O	1:q:137:GLU:C	2.52	0.51
1:r:161:ILE:HG12	1:r:271:HIS:CD2	2.45	0.51
1:s:120:ARG:HG3	1:s:226:LEU:HD12	1.93	0.51
1:t:270:GLY:HA2	1:t:346:PHE:CD1	2.46	0.51
1:t:285:PHE:CE1	1:x:149:THR:HG23	2.45	0.51
1:v:270:GLY:HA2	1:v:346:PHE:CD1	2.46	0.51
1:x:205:PHE:O	1:x:208:ASN:ND2	2.43	0.51
1:y:165:GLN:HE21	1:y:168:SER:HA	1.76	0.51
1:A:120:ARG:HG3	1:A:226:LEU:HD12	1.93	0.51
1:D:135:SER:OG	1:D:152:ASN:ND2	2.37	0.51
1:D:270:GLY:HA2	1:D:346:PHE:CD1	2.46	0.51
1:G:136:ASP:O	1:G:137:GLU:C	2.52	0.51
1:H:165:GLN:HE21	1:H:168:SER:HA	1.76	0.51
1:I:270:GLY:HA2	1:I:346:PHE:CD1	2.46	0.51
1:P:165:GLN:HE21	1:P:168:SER:HA	1.76	0.51
1:T:205:PHE:O	1:T:208:ASN:ND2	2.43	0.51
1:U:161:ILE:HG12	1:U:271:HIS:CD2	2.45	0.51
1:W:258:ILE:HG12	1:Y:243:ASN:O	2.10	0.51
1:X:285:PHE:CE1	1:6:149:THR:HG23	2.45	0.51
1:Y:165:GLN:HE21	1:Y:168:SER:HA	1.76	0.51
1:Z:118:ALA:HB1	1:Z:229:TRP:HB3	1.91	0.51
1:Z:165:GLN:HE21	1:Z:168:SER:HA	1.76	0.51
1:1:169:LYS:HE2	1:1:345:GLN:HE21	1.74	0.51
1:f:136:ASP:O	1:f:137:GLU:C	2.52	0.51
1:f:165:GLN:HE21	1:f:168:SER:HA	1.76	0.51
1:p:270:GLY:HA2	1:p:346:PHE:CD1	2.46	0.51
1:q:243:ASN:O	1:s:258:ILE:HG12	2.10	0.51
1:r:120:ARG:HG3	1:r:226:LEU:HD12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:270:GLY:HA2	1:r:346:PHE:CD1	2.46	0.51
1:t:161:ILE:HG12	1:t:271:HIS:CD2	2.45	0.51
1:u:120:ARG:HG3	1:u:226:LEU:HD12	1.93	0.51
1:w:149:THR:HG23	1:8:285:PHE:CE1	2.45	0.51
1:z:258:ILE:HG12	1:7:243:ASN:O	2.10	0.51
1:z:270:GLY:HA2	1:z:346:PHE:CD1	2.46	0.51
1:C:270:GLY:HA2	1:C:346:PHE:CD1	2.46	0.51
1:E:270:GLY:HA2	1:E:346:PHE:CD1	2.46	0.51
1:H:270:GLY:HA2	1:H:346:PHE:CD1	2.46	0.51
1:I:161:ILE:HG12	1:I:271:HIS:CD2	2.45	0.51
1:L:118:ALA:HB1	1:L:229:TRP:HB3	1.91	0.51
1:M:165:GLN:HE21	1:M:168:SER:HA	1.76	0.51
1:Q:120:ARG:HG3	1:Q:226:LEU:HD12	1.93	0.51
1:R:120:ARG:HG3	1:R:226:LEU:HD12	1.93	0.51
1:T:149:THR:HG23	1:U:285:PHE:CE1	2.45	0.51
1:W:165:GLN:HE21	1:W:168:SER:HA	1.76	0.51
1:6:135:SER:OG	1:6:152:ASN:ND2	2.37	0.51
1:c:165:GLN:HE21	1:c:168:SER:HA	1.76	0.51
1:i:165:GLN:HE21	1:i:168:SER:HA	1.76	0.51
1:i:169:LYS:HE2	1:i:345:GLN:HE21	1.74	0.51
1:j:149:THR:HG23	1:k:285:PHE:CE1	2.45	0.51
1:j:270:GLY:HA2	1:j:346:PHE:CD1	2.46	0.51
1:m:165:GLN:HE21	1:m:168:SER:HA	1.76	0.51
1:o:120:ARG:HG3	1:o:226:LEU:HD12	1.93	0.51
1:z:135:SER:OG	1:z:152:ASN:ND2	2.37	0.51
1:z:169:LYS:HE2	1:z:345:GLN:HE21	1.74	0.51
1:A:270:GLY:HA2	1:A:346:PHE:CD1	2.46	0.50
1:I:120:ARG:HG3	1:I:226:LEU:HD12	1.93	0.50
1:L:165:GLN:HE21	1:L:168:SER:HA	1.76	0.50
1:N:118:ALA:HB1	1:N:229:TRP:HB3	1.91	0.50
1:N:270:GLY:HA2	1:N:346:PHE:CD1	2.46	0.50
1:X:120:ARG:HG3	1:X:226:LEU:HD12	1.93	0.50
1:Z:136:ASP:O	1:Z:137:GLU:C	2.52	0.50
1:a:270:GLY:HA2	1:a:346:PHE:CD1	2.46	0.50
1:e:165:GLN:HE21	1:e:168:SER:HA	1.76	0.50
1:f:120:ARG:HG3	1:f:226:LEU:HD12	1.93	0.50
1:g:135:SER:OG	1:g:152:ASN:ND2	2.37	0.50
1:k:205:PHE:O	1:k:208:ASN:ND2	2.43	0.50
1:B:285:PHE:CE1	1:C:149:THR:HG23	2.45	0.50
1:D:165:GLN:HE21	1:D:168:SER:HA	1.76	0.50
1:S:136:ASP:O	1:S:137:GLU:C	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:270:GLY:HA2	1:V:346:PHE:CD1	2.46	0.50
1:V:285:PHE:CE1	1:W:149:THR:HG23	2.45	0.50
1:Y:89:ARG:HG3	1:Y:93:GLU:OE1	2.12	0.50
1:b:120:ARG:HG3	1:b:226:LEU:HD12	1.93	0.50
1:n:270:GLY:HA2	1:n:346:PHE:CD1	2.46	0.50
1:v:136:ASP:O	1:v:137:GLU:C	2.52	0.50
1:z:165:GLN:HE21	1:z:168:SER:HA	1.76	0.50
1:7:118:ALA:HB1	1:7:229:TRP:HB3	1.91	0.50
1:7:270:GLY:HA2	1:7:346:PHE:CD1	2.46	0.50
1:I:89:ARG:HG3	1:I:93:GLU:OE1	2.12	0.50
1:L:270:GLY:HA2	1:L:346:PHE:CD1	2.46	0.50
1:N:120:ARG:HG3	1:N:226:LEU:HD12	1.93	0.50
1:X:270:GLY:HA2	1:X:346:PHE:CD1	2.46	0.50
1:Z:120:ARG:HG3	1:Z:226:LEU:HD12	1.93	0.50
1:2:165:GLN:HE21	1:2:168:SER:HA	1.76	0.50
1:3:165:GLN:HE21	1:3:168:SER:HA	1.76	0.50
1:4:136:ASP:O	1:4:137:GLU:C	2.52	0.50
1:5:89:ARG:HG3	1:5:93:GLU:OE1	2.12	0.50
1:5:135:SER:OG	1:5:152:ASN:ND2	2.37	0.50
1:c:89:ARG:HG3	1:c:93:GLU:OE1	2.12	0.50
1:f:270:GLY:HA2	1:f:346:PHE:CD1	2.46	0.50
1:m:270:GLY:HA2	1:m:346:PHE:CD1	2.46	0.50
1:n:285:PHE:CE1	1:s:149:THR:HG23	2.45	0.50
1:r:89:ARG:HG3	1:r:93:GLU:OE1	2.12	0.50
1:s:270:GLY:HA2	1:s:346:PHE:CD1	2.46	0.50
1:t:205:PHE:O	1:t:208:ASN:ND2	2.43	0.50
1:w:136:ASP:O	1:w:137:GLU:C	2.52	0.50
1:y:161:ILE:HG12	1:y:271:HIS:CD2	2.45	0.50
1:7:120:ARG:HG3	1:7:226:LEU:HD12	1.93	0.50
1:B:158:ILE:HG12	1:B:210:TYR:CD1	2.47	0.50
1:B:182:SER:OG	1:B:187:ASP:OD2	2.19	0.50
1:B:205:PHE:O	1:B:208:ASN:ND2	2.43	0.50
1:L:89:ARG:HG3	1:L:93:GLU:OE1	2.12	0.50
1:M:133:LEU:H	1:M:213:GLN:NE2	2.02	0.50
1:M:285:PHE:CE1	1:3:149:THR:HG23	2.45	0.50
1:O:270:GLY:HA2	1:O:346:PHE:CD1	2.46	0.50
1:P:89:ARG:HG3	1:P:93:GLU:OE1	2.12	0.50
1:P:158:ILE:HG12	1:P:210:TYR:CD1	2.47	0.50
1:P:161:ILE:HG12	1:P:271:HIS:CD2	2.45	0.50
1:T:270:GLY:HA2	1:T:346:PHE:CD1	2.46	0.50
1:U:89:ARG:HG3	1:U:93:GLU:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:270:GLY:HA2	1:Z:346:PHE:CD1	2.46	0.50
1:2:149:THR:HG23	1:i:285:PHE:CE1	2.45	0.50
1:6:89:ARG:HG3	1:6:93:GLU:OE1	2.12	0.50
1:b:158:ILE:HG12	1:b:210:TYR:CD1	2.47	0.50
1:b:270:GLY:HA2	1:b:346:PHE:CD1	2.46	0.50
1:f:158:ILE:HG12	1:f:210:TYR:CD1	2.47	0.50
1:k:136:ASP:O	1:k:137:GLU:C	2.52	0.50
1:k:158:ILE:HG12	1:k:210:TYR:CD1	2.47	0.50
1:m:89:ARG:HG3	1:m:93:GLU:OE1	2.12	0.50
1:m:136:ASP:O	1:m:137:GLU:C	2.52	0.50
1:q:270:GLY:HA2	1:q:346:PHE:CD1	2.46	0.50
1:t:89:ARG:HG3	1:t:93:GLU:OE1	2.12	0.50
1:y:158:ILE:HG12	1:y:210:TYR:CD1	2.47	0.50
1:y:285:PHE:CE1	1:8:149:THR:HG23	2.45	0.50
1:8:270:GLY:HA2	1:8:346:PHE:CD1	2.46	0.50
1:A:149:THR:HG23	1:E:285:PHE:CE1	2.45	0.50
1:A:158:ILE:HG12	1:A:210:TYR:CD1	2.47	0.50
1:A:165:GLN:HE21	1:A:168:SER:HA	1.76	0.50
1:B:136:ASP:O	1:B:137:GLU:C	2.52	0.50
1:D:158:ILE:HG12	1:D:210:TYR:CD1	2.47	0.50
1:E:205:PHE:O	1:E:208:ASN:ND2	2.43	0.50
1:F:158:ILE:HG12	1:F:210:TYR:CD1	2.47	0.50
1:G:270:GLY:HA2	1:G:346:PHE:CD1	2.46	0.50
1:K:149:THR:HG23	1:L:285:PHE:CE1	2.45	0.50
1:P:136:ASP:O	1:P:137:GLU:C	2.52	0.50
1:P:270:GLY:HA2	1:P:346:PHE:CD1	2.46	0.50
1:Q:89:ARG:HG3	1:Q:93:GLU:OE1	2.12	0.50
1:Q:270:GLY:HA2	1:Q:346:PHE:CD1	2.46	0.50
1:X:158:ILE:HG12	1:X:210:TYR:CD1	2.47	0.50
1:X:205:PHE:O	1:X:208:ASN:ND2	2.43	0.50
1:Z:158:ILE:HG12	1:Z:210:TYR:CD1	2.47	0.50
1:4:205:PHE:O	1:4:208:ASN:ND2	2.43	0.50
1:6:169:LYS:HE2	1:6:345:GLN:HE21	1.74	0.50
1:b:205:PHE:O	1:b:208:ASN:ND2	2.43	0.50
1:n:205:PHE:O	1:n:208:ASN:ND2	2.43	0.50
1:o:89:ARG:HG3	1:o:93:GLU:OE1	2.12	0.50
1:p:158:ILE:HG12	1:p:210:TYR:CD1	2.47	0.50
1:s:158:ILE:HG12	1:s:210:TYR:CD1	2.47	0.50
1:v:89:ARG:HG3	1:v:93:GLU:OE1	2.12	0.50
1:v:182:SER:OG	1:v:187:ASP:OD2	2.19	0.50
1:y:89:ARG:HG3	1:y:93:GLU:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:136:ASP:O	1:y:137:GLU:C	2.52	0.50
1:y:270:GLY:HA2	1:y:346:PHE:CD1	2.46	0.50
1:C:89:ARG:HG3	1:C:93:GLU:OE1	2.12	0.50
1:E:158:ILE:HG12	1:E:210:TYR:CD1	2.47	0.50
1:G:205:PHE:O	1:G:208:ASN:ND2	2.43	0.50
1:L:120:ARG:HG3	1:L:226:LEU:HD12	1.93	0.50
1:N:158:ILE:HG12	1:N:210:TYR:CD1	2.47	0.50
1:S:89:ARG:HG3	1:S:93:GLU:OE1	2.12	0.50
1:U:205:PHE:O	1:U:208:ASN:ND2	2.43	0.50
1:X:165:GLN:HE21	1:X:168:SER:HA	1.76	0.50
1:j:89:ARG:HG3	1:j:93:GLU:OE1	2.12	0.50
1:j:165:GLN:HE21	1:j:168:SER:HA	1.76	0.50
1:k:182:SER:OG	1:k:187:ASP:OD2	2.19	0.50
1:n:158:ILE:HG12	1:n:210:TYR:CD1	2.47	0.50
1:o:270:GLY:HA2	1:o:346:PHE:CD1	2.46	0.50
1:s:165:GLN:HE21	1:s:168:SER:HA	1.76	0.50
1:t:182:SER:OG	1:t:187:ASP:OD2	2.19	0.50
1:v:120:ARG:HG3	1:v:226:LEU:HD12	1.93	0.50
1:x:270:GLY:HA2	1:x:346:PHE:CD1	2.46	0.50
1:z:158:ILE:HG12	1:z:210:TYR:CD1	2.47	0.50
1:B:133:LEU:H	1:B:213:GLN:NE2	2.01	0.50
1:J:89:ARG:HG3	1:J:93:GLU:OE1	2.12	0.50
1:L:136:ASP:O	1:L:137:GLU:C	2.52	0.50
1:M:135:SER:HG	1:M:152:ASN:HD21	1.59	0.50
1:O:120:ARG:HG3	1:O:226:LEU:HD12	1.93	0.50
1:O:149:THR:HG23	1:P:285:PHE:CE1	2.45	0.50
1:S:120:ARG:HG3	1:S:226:LEU:HD12	1.93	0.50
1:Y:120:ARG:HG3	1:Y:226:LEU:HD12	1.93	0.50
1:1:120:ARG:HG3	1:1:226:LEU:HD12	1.93	0.50
1:2:158:ILE:HG12	1:2:210:TYR:CD1	2.47	0.50
1:5:169:LYS:HE2	1:5:345:GLN:HE21	1.74	0.50
1:h:120:ARG:HG3	1:h:226:LEU:HD12	1.93	0.50
1:l:89:ARG:HG3	1:l:93:GLU:OE1	2.12	0.50
1:m:120:ARG:HG3	1:m:226:LEU:HD12	1.93	0.50
1:q:205:PHE:O	1:q:208:ASN:ND2	2.43	0.50
1:w:205:PHE:O	1:w:208:ASN:ND2	2.43	0.50
1:z:120:ARG:HG3	1:z:226:LEU:HD12	1.93	0.50
1:7:158:ILE:HG12	1:7:210:TYR:CD1	2.47	0.50
1:8:120:ARG:HG3	1:8:226:LEU:HD12	1.93	0.50
1:C:165:GLN:HE21	1:C:168:SER:HA	1.76	0.50
1:D:120:ARG:HG3	1:D:226:LEU:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:158:ILE:HG12	1:J:210:TYR:CD1	2.47	0.50
1:J:270:GLY:HA2	1:J:346:PHE:CD1	2.46	0.50
1:K:120:ARG:HG3	1:K:226:LEU:HD12	1.93	0.50
1:T:158:ILE:HG12	1:T:210:TYR:CD1	2.47	0.50
1:Z:89:ARG:HG3	1:Z:93:GLU:OE1	2.12	0.50
1:2:89:ARG:HG3	1:2:93:GLU:OE1	2.12	0.50
1:3:89:ARG:HG3	1:3:93:GLU:OE1	2.12	0.50
1:3:158:ILE:HG12	1:3:210:TYR:CD1	2.47	0.50
1:b:165:GLN:HE21	1:b:168:SER:HA	1.76	0.50
1:c:120:ARG:HG3	1:c:226:LEU:HD12	1.93	0.50
1:d:205:PHE:O	1:d:208:ASN:ND2	2.43	0.50
1:k:120:ARG:HG3	1:k:226:LEU:HD12	1.93	0.50
1:l:158:ILE:HG12	1:l:210:TYR:CD1	2.47	0.50
1:s:89:ARG:HG3	1:s:93:GLU:OE1	2.12	0.50
1:x:158:ILE:HG12	1:x:210:TYR:CD1	2.47	0.50
1:y:120:ARG:HG3	1:y:226:LEU:HD12	1.93	0.50
1:A:89:ARG:HG3	1:A:93:GLU:OE1	2.12	0.50
1:B:120:ARG:HG3	1:B:226:LEU:HD12	1.93	0.50
1:M:158:ILE:HG12	1:M:210:TYR:CD1	2.47	0.50
1:T:83:ILE:HD11	1:T:273:LEU:HG	1.94	0.50
1:1:89:ARG:HG3	1:1:93:GLU:OE1	2.12	0.50
1:e:279:ARG:NH1	1:q:73:ARG:HD3	2.27	0.50
1:h:89:ARG:HG3	1:h:93:GLU:OE1	2.12	0.50
1:i:158:ILE:HG12	1:i:210:TYR:CD1	2.47	0.50
1:l:270:GLY:HA2	1:l:346:PHE:CD1	2.46	0.50
1:x:83:ILE:HD11	1:x:273:LEU:HG	1.94	0.50
1:x:89:ARG:HG3	1:x:93:GLU:OE1	2.12	0.50
1:z:89:ARG:HG3	1:z:93:GLU:OE1	2.12	0.50
1:B:192:THR:HG23	1:B:199:ILE:HB	1.94	0.49
1:E:83:ILE:HD11	1:E:273:LEU:HG	1.94	0.49
1:G:158:ILE:HG12	1:G:210:TYR:CD1	2.47	0.49
1:H:205:PHE:O	1:H:208:ASN:ND2	2.43	0.49
1:N:89:ARG:HG3	1:N:93:GLU:OE1	2.12	0.49
1:O:192:THR:HG23	1:O:199:ILE:HB	1.94	0.49
1:P:120:ARG:HG3	1:P:226:LEU:HD12	1.93	0.49
1:S:158:ILE:HG12	1:S:210:TYR:CD1	2.47	0.49
1:T:89:ARG:HG3	1:T:93:GLU:OE1	2.12	0.49
1:U:182:SER:OG	1:U:187:ASP:OD2	2.19	0.49
1:4:83:ILE:HD11	1:4:273:LEU:HG	1.94	0.49
1:4:89:ARG:HG3	1:4:93:GLU:OE1	2.12	0.49
1:4:192:THR:HG23	1:4:199:ILE:HB	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:89:ARG:HG3	1:f:93:GLU:OE1	2.12	0.49
1:n:83:ILE:HD11	1:n:273:LEU:HG	1.94	0.49
1:p:120:ARG:HG3	1:p:226:LEU:HD12	1.93	0.49
1:q:158:ILE:HG12	1:q:210:TYR:CD1	2.47	0.49
1:t:158:ILE:HG12	1:t:210:TYR:CD1	2.47	0.49
1:v:158:ILE:HG12	1:v:210:TYR:CD1	2.47	0.49
1:w:83:ILE:HD11	1:w:273:LEU:HG	1.94	0.49
1:w:120:ARG:HG3	1:w:226:LEU:HD12	1.93	0.49
1:w:192:THR:HG23	1:w:199:ILE:HB	1.95	0.49
1:7:89:ARG:HG3	1:7:93:GLU:OE1	2.12	0.49
1:8:89:ARG:HG3	1:8:93:GLU:OE1	2.12	0.49
1:A:285:PHE:CE1	1:B:149:THR:HG23	2.45	0.49
1:D:89:ARG:HG3	1:D:93:GLU:OE1	2.12	0.49
1:F:120:ARG:HG3	1:F:226:LEU:HD12	1.93	0.49
1:F:285:PHE:CE1	1:R:149:THR:HG23	2.45	0.49
1:G:120:ARG:HG3	1:G:226:LEU:HD12	1.93	0.49
1:I:205:PHE:O	1:I:208:ASN:ND2	2.43	0.49
1:K:89:ARG:HG3	1:K:93:GLU:OE1	2.12	0.49
1:O:89:ARG:HG3	1:O:93:GLU:OE1	2.12	0.49
1:R:192:THR:HG23	1:R:199:ILE:HB	1.94	0.49
1:U:120:ARG:HG3	1:U:226:LEU:HD12	1.93	0.49
1:U:158:ILE:HG12	1:U:210:TYR:CD1	2.47	0.49
1:W:158:ILE:HG12	1:W:210:TYR:CD1	2.47	0.49
1:W:192:THR:HG23	1:W:199:ILE:HB	1.95	0.49
1:Y:83:ILE:HD11	1:Y:273:LEU:HG	1.94	0.49
1:4:158:ILE:HG12	1:4:210:TYR:CD1	2.47	0.49
1:5:120:ARG:HG3	1:5:226:LEU:HD12	1.93	0.49
1:6:120:ARG:HG3	1:6:226:LEU:HD12	1.93	0.49
1:6:158:ILE:HG12	1:6:210:TYR:CD1	2.47	0.49
1:c:83:ILE:HD11	1:c:273:LEU:HG	1.94	0.49
1:d:83:ILE:HD11	1:d:273:LEU:HG	1.94	0.49
1:g:120:ARG:HG3	1:g:226:LEU:HD12	1.93	0.49
1:g:149:THR:HG23	1:m:285:PHE:CE1	2.45	0.49
1:k:192:THR:HG23	1:k:199:ILE:HB	1.94	0.49
1:n:182:SER:OG	1:n:187:ASP:OD2	2.19	0.49
1:u:192:THR:HG23	1:u:199:ILE:HB	1.94	0.49
1:w:89:ARG:HG3	1:w:93:GLU:OE1	2.12	0.49
1:w:158:ILE:HG12	1:w:210:TYR:CD1	2.47	0.49
1:y:205:PHE:O	1:y:208:ASN:ND2	2.43	0.49
1:8:192:THR:HG23	1:8:199:ILE:HB	1.95	0.49
1:E:89:ARG:HG3	1:E:93:GLU:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:83:ILE:HD11	1:O:273:LEU:HG	1.94	0.49
1:P:83:ILE:HD11	1:P:273:LEU:HG	1.94	0.49
1:R:158:ILE:HG12	1:R:210:TYR:CD1	2.47	0.49
1:Z:192:THR:HG23	1:Z:199:ILE:HB	1.95	0.49
1:5:158:ILE:HG12	1:5:210:TYR:CD1	2.47	0.49
1:e:158:ILE:HG12	1:e:210:TYR:CD1	2.47	0.49
1:e:192:THR:HG23	1:e:199:ILE:HB	1.95	0.49
1:g:89:ARG:HG3	1:g:93:GLU:OE1	2.12	0.49
1:k:133:LEU:H	1:k:213:GLN:NE2	2.01	0.49
1:n:89:ARG:HG3	1:n:93:GLU:OE1	2.12	0.49
1:q:120:ARG:HG3	1:q:226:LEU:HD12	1.93	0.49
1:r:205:PHE:O	1:r:208:ASN:ND2	2.43	0.49
1:u:158:ILE:HG12	1:u:210:TYR:CD1	2.47	0.49
1:7:165:GLN:HE21	1:7:168:SER:HA	1.76	0.49
1:A:192:THR:HG23	1:A:199:ILE:HB	1.95	0.49
1:A:205:PHE:O	1:A:208:ASN:ND2	2.43	0.49
1:A:350:CYS:HB3	1:A:353:VAL:HG23	1.95	0.49
1:H:83:ILE:HD11	1:H:273:LEU:HG	1.94	0.49
1:J:165:GLN:HE21	1:J:168:SER:HA	1.76	0.49
1:K:158:ILE:HG12	1:K:210:TYR:CD1	2.47	0.49
1:M:350:CYS:HB3	1:M:353:VAL:HG23	1.95	0.49
1:N:350:CYS:HB3	1:N:353:VAL:HG23	1.95	0.49
1:P:205:PHE:O	1:P:208:ASN:ND2	2.43	0.49
1:R:165:GLN:HE21	1:R:168:SER:HA	1.76	0.49
1:Y:158:ILE:HG12	1:Y:210:TYR:CD1	2.47	0.49
1:Y:192:THR:HG23	1:Y:199:ILE:HB	1.94	0.49
1:Z:83:ILE:HD11	1:Z:273:LEU:HG	1.94	0.49
1:4:120:ARG:HG3	1:4:226:LEU:HD12	1.93	0.49
1:c:158:ILE:HG12	1:c:210:TYR:CD1	2.47	0.49
1:f:192:THR:HG23	1:f:199:ILE:HB	1.95	0.49
1:g:158:ILE:HG12	1:g:210:TYR:CD1	2.47	0.49
1:g:205:PHE:O	1:g:208:ASN:ND2	2.43	0.49
1:p:285:PHE:CE1	1:u:149:THR:HG23	2.45	0.49
1:s:350:CYS:HB3	1:s:353:VAL:HG23	1.95	0.49
1:t:120:ARG:HG3	1:t:226:LEU:HD12	1.93	0.49
1:y:83:ILE:HD11	1:y:273:LEU:HG	1.94	0.49
1:7:350:CYS:HB3	1:7:353:VAL:HG23	1.95	0.49
1:8:83:ILE:HD11	1:8:273:LEU:HG	1.94	0.49
1:J:192:THR:HG23	1:J:199:ILE:HB	1.94	0.49
1:L:158:ILE:HG12	1:L:210:TYR:CD1	2.47	0.49
1:N:192:THR:HG23	1:N:199:ILE:HB	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:55:LEU:O	1:O:58:VAL:HG12	2.13	0.49
1:T:350:CYS:HB3	1:T:353:VAL:HG23	1.95	0.49
1:1:192:THR:HG23	1:1:199:ILE:HB	1.94	0.49
1:1:350:CYS:HB3	1:1:353:VAL:HG23	1.95	0.49
1:5:83:ILE:HD11	1:5:273:LEU:HG	1.94	0.49
1:6:83:ILE:HD11	1:6:273:LEU:HG	1.94	0.49
1:b:136:ASP:O	1:b:137:GLU:C	2.52	0.49
1:c:192:THR:HG23	1:c:199:ILE:HB	1.95	0.49
1:d:89:ARG:HG3	1:d:93:GLU:OE1	2.12	0.49
1:f:83:ILE:HD11	1:f:273:LEU:HG	1.94	0.49
1:i:205:PHE:O	1:i:208:ASN:ND2	2.43	0.49
1:i:350:CYS:HB3	1:i:353:VAL:HG23	1.95	0.49
1:j:192:THR:HG23	1:j:199:ILE:HB	1.95	0.49
1:m:158:ILE:HG12	1:m:210:TYR:CD1	2.47	0.49
1:n:192:THR:HG23	1:n:199:ILE:HB	1.94	0.49
1:r:158:ILE:HG12	1:r:210:TYR:CD1	2.47	0.49
1:s:192:THR:HG23	1:s:199:ILE:HB	1.95	0.49
1:s:205:PHE:O	1:s:208:ASN:ND2	2.43	0.49
1:t:192:THR:HG23	1:t:199:ILE:HB	1.95	0.49
1:x:350:CYS:HB3	1:x:353:VAL:HG23	1.95	0.49
1:7:192:THR:HG23	1:7:199:ILE:HB	1.94	0.49
1:C:83:ILE:HD11	1:C:273:LEU:HG	1.94	0.49
1:C:158:ILE:HG12	1:C:210:TYR:CD1	2.47	0.49
1:D:192:THR:HG23	1:D:199:ILE:HB	1.95	0.49
1:E:192:THR:HG23	1:E:199:ILE:HB	1.95	0.49
1:F:55:LEU:O	1:F:58:VAL:HG12	2.13	0.49
1:H:55:LEU:O	1:H:58:VAL:HG12	2.13	0.49
1:H:89:ARG:HG3	1:H:93:GLU:OE1	2.12	0.49
1:I:55:LEU:O	1:I:58:VAL:HG12	2.13	0.49
1:J:120:ARG:HG3	1:J:226:LEU:HD12	1.93	0.49
1:K:205:PHE:O	1:K:208:ASN:ND2	2.43	0.49
1:M:193:VAL:HG12	1:M:194:SER:O	2.13	0.49
1:O:193:VAL:HG12	1:O:194:SER:O	2.13	0.49
1:Q:83:ILE:HD11	1:Q:273:LEU:HG	1.95	0.49
1:Q:158:ILE:HG12	1:Q:210:TYR:CD1	2.47	0.49
1:Q:350:CYS:HB3	1:Q:353:VAL:HG23	1.95	0.49
1:U:192:THR:HG23	1:U:199:ILE:HB	1.95	0.49
1:V:55:LEU:O	1:V:58:VAL:HG12	2.13	0.49
1:W:136:ASP:O	1:W:137:GLU:C	2.52	0.49
1:W:193:VAL:HG12	1:W:194:SER:O	2.13	0.49
1:1:205:PHE:O	1:1:208:ASN:ND2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:182:SER:OG	1:3:187:ASP:OD2	2.19	0.49
1:4:350:CYS:HB3	1:4:353:VAL:HG23	1.95	0.49
1:b:89:ARG:HG3	1:b:93:GLU:OE1	2.12	0.49
1:d:55:LEU:O	1:d:58:VAL:HG12	2.13	0.49
1:e:193:VAL:HG12	1:e:194:SER:O	2.13	0.49
1:h:192:THR:HG23	1:h:199:ILE:HB	1.95	0.49
1:h:350:CYS:HB3	1:h:353:VAL:HG23	1.95	0.49
1:i:193:VAL:HG12	1:i:194:SER:O	2.13	0.49
1:k:149:THR:HG23	1:s:285:PHE:CE1	2.45	0.49
1:l:120:ARG:HG3	1:l:226:LEU:HD12	1.93	0.49
1:l:135:SER:OG	1:l:152:ASN:ND2	2.37	0.49
1:l:192:THR:HG23	1:l:199:ILE:HB	1.95	0.49
1:r:55:LEU:O	1:r:58:VAL:HG12	2.13	0.49
1:w:350:CYS:HB3	1:w:353:VAL:HG23	1.95	0.49
1:8:55:LEU:O	1:8:58:VAL:HG12	2.13	0.49
1:8:193:VAL:HG12	1:8:194:SER:O	2.13	0.49
1:B:193:VAL:HG12	1:B:194:SER:O	2.13	0.49
1:C:192:THR:HG23	1:C:199:ILE:HB	1.95	0.49
1:F:89:ARG:HG3	1:F:93:GLU:OE1	2.12	0.49
1:F:192:THR:HG23	1:F:199:ILE:HB	1.95	0.49
1:I:193:VAL:HG12	1:I:194:SER:O	2.13	0.49
1:K:55:LEU:O	1:K:58:VAL:HG12	2.13	0.49
1:L:193:VAL:HG12	1:L:194:SER:O	2.13	0.49
1:M:89:ARG:HG3	1:M:93:GLU:OE1	2.12	0.49
1:N:165:GLN:HE21	1:N:168:SER:HA	1.76	0.49
1:V:83:ILE:HD11	1:V:273:LEU:HG	1.95	0.49
1:V:120:ARG:HG3	1:V:226:LEU:HD12	1.93	0.49
1:V:158:ILE:HG12	1:V:210:TYR:CD1	2.47	0.49
1:W:89:ARG:HG3	1:W:93:GLU:OE1	2.12	0.49
1:X:55:LEU:O	1:X:58:VAL:HG12	2.13	0.49
1:X:136:ASP:O	1:X:137:GLU:C	2.52	0.49
1:a:83:ILE:HD11	1:a:273:LEU:HG	1.94	0.49
1:a:120:ARG:HG3	1:a:226:LEU:HD12	1.93	0.49
1:a:158:ILE:HG12	1:a:210:TYR:CD1	2.47	0.49
1:c:182:SER:OG	1:c:187:ASP:OD2	2.19	0.49
1:g:55:LEU:O	1:g:58:VAL:HG12	2.13	0.49
1:h:158:ILE:HG12	1:h:210:TYR:CD1	2.47	0.49
1:i:73:ARG:HD3	1:7:279:ARG:NH1	2.28	0.49
1:i:192:THR:HG23	1:i:199:ILE:HB	1.95	0.49
1:j:83:ILE:HD11	1:j:273:LEU:HG	1.94	0.49
1:j:158:ILE:HG12	1:j:210:TYR:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:89:ARG:HG3	1:k:93:GLU:OE1	2.12	0.49
1:k:193:VAL:HG12	1:k:194:SER:O	2.13	0.49
1:l:165:GLN:HE21	1:l:168:SER:HA	1.76	0.49
1:m:193:VAL:HG12	1:m:194:SER:O	2.13	0.49
1:o:83:ILE:HD11	1:o:273:LEU:HG	1.95	0.49
1:o:350:CYS:HB3	1:o:353:VAL:HG23	1.95	0.49
1:p:55:LEU:O	1:p:58:VAL:HG12	2.13	0.49
1:p:192:THR:HG23	1:p:199:ILE:HB	1.95	0.49
1:r:193:VAL:HG12	1:r:194:SER:O	2.13	0.49
1:u:165:GLN:HE21	1:u:168:SER:HA	1.76	0.49
1:z:192:THR:HG23	1:z:199:ILE:HB	1.95	0.49
1:B:83:ILE:HD11	1:B:273:LEU:HG	1.94	0.49
1:C:55:LEU:O	1:C:58:VAL:HG12	2.13	0.49
1:F:193:VAL:HG12	1:F:194:SER:O	2.13	0.49
1:I:158:ILE:HG12	1:I:210:TYR:CD1	2.47	0.49
1:K:192:THR:HG23	1:K:199:ILE:HB	1.95	0.49
1:K:193:VAL:HG12	1:K:194:SER:O	2.13	0.49
1:M:83:ILE:HD11	1:M:273:LEU:HG	1.94	0.49
1:M:192:THR:HG23	1:M:199:ILE:HB	1.95	0.49
1:N:193:VAL:HG12	1:N:194:SER:O	2.13	0.49
1:P:193:VAL:HG12	1:P:194:SER:O	2.13	0.49
1:R:279:ARG:HG3	1:V:71:ASN:ND2	2.28	0.49
1:S:239:VAL:CG2	1:S:268:MET:HE2	2.43	0.49
1:X:73:ARG:HD3	1:Y:279:ARG:NH1	2.28	0.49
1:X:83:ILE:HD11	1:X:273:LEU:HG	1.94	0.49
1:2:182:SER:OG	1:2:187:ASP:OD2	2.19	0.49
1:2:350:CYS:HB3	1:2:353:VAL:HG23	1.95	0.49
1:5:205:PHE:O	1:5:208:ASN:ND2	2.43	0.49
1:a:55:LEU:O	1:a:58:VAL:HG12	2.13	0.49
1:b:55:LEU:O	1:b:58:VAL:HG12	2.13	0.49
1:g:192:THR:HG23	1:g:199:ILE:HB	1.95	0.49
1:h:205:PHE:O	1:h:208:ASN:ND2	2.43	0.49
1:i:83:ILE:HD11	1:i:273:LEU:HG	1.94	0.49
1:j:55:LEU:O	1:j:58:VAL:HG12	2.13	0.49
1:l:193:VAL:HG12	1:l:194:SER:O	2.13	0.49
1:m:55:LEU:O	1:m:58:VAL:HG12	2.13	0.49
1:o:158:ILE:HG12	1:o:210:TYR:CD1	2.47	0.49
1:v:239:VAL:CG2	1:v:268:MET:HE2	2.43	0.49
1:y:193:VAL:HG12	1:y:194:SER:O	2.13	0.49
1:7:136:ASP:O	1:7:137:GLU:C	2.52	0.49
1:B:55:LEU:O	1:B:58:VAL:HG12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:89:ARG:HG3	1:B:93:GLU:OE1	2.12	0.49
1:G:55:LEU:O	1:G:58:VAL:HG12	2.13	0.49
1:J:135:SER:OG	1:J:152:ASN:ND2	2.37	0.49
1:J:193:VAL:HG12	1:J:194:SER:O	2.13	0.49
1:J:239:VAL:CG2	1:J:268:MET:HE2	2.43	0.49
1:L:55:LEU:O	1:L:58:VAL:HG12	2.13	0.49
1:M:205:PHE:O	1:M:208:ASN:ND2	2.43	0.49
1:M:239:VAL:CG2	1:M:268:MET:HE2	2.43	0.49
1:R:83:ILE:HD11	1:R:273:LEU:HG	1.94	0.49
1:S:193:VAL:HG12	1:S:194:SER:O	2.13	0.49
1:S:205:PHE:O	1:S:208:ASN:ND2	2.43	0.49
1:V:350:CYS:HB3	1:V:353:VAL:HG23	1.95	0.49
1:X:89:ARG:HG3	1:X:93:GLU:OE1	2.12	0.49
1:Z:55:LEU:O	1:Z:58:VAL:HG12	2.13	0.49
1:Z:350:CYS:HB3	1:Z:353:VAL:HG23	1.95	0.49
1:1:83:ILE:HD11	1:1:273:LEU:HG	1.94	0.49
1:1:158:ILE:HG12	1:1:210:TYR:CD1	2.47	0.49
1:1:193:VAL:HG12	1:1:194:SER:O	2.13	0.49
1:3:350:CYS:HB3	1:3:353:VAL:HG23	1.95	0.49
1:b:83:ILE:HD11	1:b:273:LEU:HG	1.94	0.49
1:e:136:ASP:O	1:e:137:GLU:C	2.52	0.49
1:f:350:CYS:HB3	1:f:353:VAL:HG23	1.95	0.49
1:g:193:VAL:HG12	1:g:194:SER:O	2.13	0.49
1:g:350:CYS:HB3	1:g:353:VAL:HG23	1.95	0.49
1:h:83:ILE:HD11	1:h:273:LEU:HG	1.94	0.49
1:i:89:ARG:HG3	1:i:93:GLU:OE1	2.12	0.49
1:k:55:LEU:O	1:k:58:VAL:HG12	2.13	0.49
1:p:89:ARG:HG3	1:p:93:GLU:OE1	2.12	0.49
1:p:193:VAL:HG12	1:p:194:SER:O	2.13	0.49
1:q:55:LEU:O	1:q:58:VAL:HG12	2.13	0.49
1:w:193:VAL:HG12	1:w:194:SER:O	2.13	0.49
1:x:192:THR:HG23	1:x:199:ILE:HB	1.95	0.49
1:x:193:VAL:HG12	1:x:194:SER:O	2.13	0.49
1:7:193:VAL:HG12	1:7:194:SER:O	2.13	0.49
1:8:136:ASP:O	1:8:137:GLU:C	2.52	0.49
1:A:55:LEU:O	1:A:58:VAL:HG12	2.13	0.49
1:E:239:VAL:CG2	1:E:268:MET:HE2	2.43	0.49
1:K:350:CYS:HB3	1:K:353:VAL:HG23	1.95	0.49
1:O:136:ASP:O	1:O:137:GLU:C	2.52	0.49
1:T:192:THR:HG23	1:T:199:ILE:HB	1.95	0.49
1:T:193:VAL:HG12	1:T:194:SER:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:89:ARG:HG3	1:V:93:GLU:OE1	2.12	0.49
1:V:193:VAL:HG12	1:V:194:SER:O	2.13	0.49
1:4:193:VAL:HG12	1:4:194:SER:O	2.13	0.49
1:6:205:PHE:O	1:6:208:ASN:ND2	2.43	0.49
1:a:71:ASN:ND2	1:u:279:ARG:HG3	2.28	0.49
1:a:350:CYS:HB3	1:a:353:VAL:HG23	1.95	0.49
1:b:73:ARG:HD3	1:c:279:ARG:NH1	2.28	0.49
1:e:89:ARG:HG3	1:e:93:GLU:OE1	2.12	0.49
1:f:55:LEU:O	1:f:58:VAL:HG12	2.13	0.49
1:h:193:VAL:HG12	1:h:194:SER:O	2.13	0.49
1:i:239:VAL:CG2	1:i:268:MET:HE2	2.43	0.49
1:k:83:ILE:HD11	1:k:273:LEU:HG	1.94	0.49
1:l:239:VAL:CG2	1:l:268:MET:HE2	2.43	0.49
1:o:239:VAL:CG2	1:o:268:MET:HE2	2.43	0.49
1:q:350:CYS:HB3	1:q:353:VAL:HG23	1.95	0.49
1:s:55:LEU:O	1:s:58:VAL:HG12	2.13	0.49
1:u:83:ILE:HD11	1:u:273:LEU:HG	1.94	0.49
1:u:193:VAL:HG12	1:u:194:SER:O	2.13	0.49
1:v:193:VAL:HG12	1:v:194:SER:O	2.13	0.49
1:C:239:VAL:CG2	1:C:268:MET:HE2	2.43	0.48
1:D:350:CYS:HB3	1:D:353:VAL:HG23	1.95	0.48
1:G:89:ARG:HG3	1:G:93:GLU:OE1	2.12	0.48
1:G:350:CYS:HB3	1:G:353:VAL:HG23	1.95	0.48
1:H:239:VAL:CG2	1:H:268:MET:HE2	2.43	0.48
1:J:350:CYS:HB3	1:J:353:VAL:HG23	1.95	0.48
1:Q:239:VAL:CG2	1:Q:268:MET:HE2	2.43	0.48
1:R:193:VAL:HG12	1:R:194:SER:O	2.13	0.48
1:R:239:VAL:CG2	1:R:268:MET:HE2	2.43	0.48
1:T:258:ILE:HG21	1:4:242:ASN:HB3	1.95	0.48
1:X:193:VAL:HG12	1:X:194:SER:O	2.13	0.48
1:2:193:VAL:HG12	1:2:194:SER:O	2.13	0.48
1:3:193:VAL:HG12	1:3:194:SER:O	2.13	0.48
1:4:55:LEU:O	1:4:58:VAL:HG12	2.13	0.48
1:4:239:VAL:CG2	1:4:268:MET:HE2	2.43	0.48
1:a:89:ARG:HG3	1:a:93:GLU:OE1	2.12	0.48
1:b:193:VAL:HG12	1:b:194:SER:O	2.13	0.48
1:f:193:VAL:HG12	1:f:194:SER:O	2.13	0.48
1:j:239:VAL:CG2	1:j:268:MET:HE2	2.43	0.48
1:l:350:CYS:HB3	1:l:353:VAL:HG23	1.95	0.48
1:n:193:VAL:HG12	1:n:194:SER:O	2.13	0.48
1:n:239:VAL:CG2	1:n:268:MET:HE2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:89:ARG:HG3	1:q:93:GLU:OE1	2.12	0.48
1:u:239:VAL:CG2	1:u:268:MET:HE2	2.43	0.48
1:w:239:VAL:CG2	1:w:268:MET:HE2	2.43	0.48
1:w:242:ASN:HB3	1:x:258:ILE:HG21	1.95	0.48
1:z:350:CYS:HB3	1:z:353:VAL:HG23	1.95	0.48
1:A:239:VAL:CG2	1:A:268:MET:HE2	2.43	0.48
1:J:83:ILE:HD11	1:J:273:LEU:HG	1.95	0.48
1:M:242:ASN:HB3	1:2:258:ILE:HG21	1.96	0.48
1:P:55:LEU:O	1:P:58:VAL:HG12	2.13	0.48
1:S:350:CYS:HB3	1:S:353:VAL:HG23	1.95	0.48
1:U:71:ASN:ND2	1:5:279:ARG:HG3	2.29	0.48
1:W:55:LEU:O	1:W:58:VAL:HG12	2.13	0.48
1:W:239:VAL:CG2	1:W:268:MET:HE2	2.43	0.48
1:Y:182:SER:OG	1:Y:187:ASP:OD2	2.19	0.48
1:Z:193:VAL:HG12	1:Z:194:SER:O	2.13	0.48
1:3:258:ILE:HG21	1:i:242:ASN:HB3	1.95	0.48
1:5:55:LEU:O	1:5:58:VAL:HG12	2.13	0.48
1:5:192:THR:HG23	1:5:199:ILE:HB	1.94	0.48
1:5:239:VAL:CG2	1:5:268:MET:HE2	2.43	0.48
1:6:192:THR:HG23	1:6:199:ILE:HB	1.94	0.48
1:6:239:VAL:CG2	1:6:268:MET:HE2	2.43	0.48
1:a:193:VAL:HG12	1:a:194:SER:O	2.13	0.48
1:c:55:LEU:O	1:c:58:VAL:HG12	2.13	0.48
1:d:239:VAL:CG2	1:d:268:MET:HE2	2.43	0.48
1:k:258:ILE:HG21	1:l:242:ASN:HB3	1.95	0.48
1:m:192:THR:HG23	1:m:199:ILE:HB	1.94	0.48
1:n:350:CYS:HB3	1:n:353:VAL:HG23	1.95	0.48
1:s:239:VAL:CG2	1:s:268:MET:HE2	2.43	0.48
1:t:55:LEU:O	1:t:58:VAL:HG12	2.13	0.48
1:v:205:PHE:O	1:v:208:ASN:ND2	2.43	0.48
1:v:350:CYS:HB3	1:v:353:VAL:HG23	1.95	0.48
1:w:55:LEU:O	1:w:58:VAL:HG12	2.13	0.48
1:7:239:VAL:CG2	1:7:268:MET:HE2	2.43	0.48
1:E:55:LEU:O	1:E:58:VAL:HG12	2.13	0.48
1:E:193:VAL:HG12	1:E:194:SER:O	2.13	0.48
1:E:350:CYS:HB3	1:E:353:VAL:HG23	1.95	0.48
1:I:71:ASN:ND2	1:J:279:ARG:HG3	2.29	0.48
1:K:239:VAL:CG2	1:K:268:MET:HE2	2.43	0.48
1:K:242:ASN:HB3	1:8:258:ILE:HG21	1.95	0.48
1:M:71:ASN:ND2	1:N:279:ARG:HG3	2.29	0.48
1:N:55:LEU:O	1:N:58:VAL:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:239:VAL:CG2	1:N:268:MET:HE2	2.43	0.48
1:O:158:ILE:HG12	1:O:210:TYR:CD1	2.47	0.48
1:R:89:ARG:HG3	1:R:93:GLU:OE1	2.12	0.48
1:U:193:VAL:HG12	1:U:194:SER:O	2.13	0.48
1:X:239:VAL:CG2	1:X:268:MET:HE2	2.43	0.48
1:Y:55:LEU:O	1:Y:58:VAL:HG12	2.13	0.48
1:1:239:VAL:CG2	1:1:268:MET:HE2	2.43	0.48
1:3:126:TYR:OH	1:3:271:HIS:ND1	2.44	0.48
1:4:126:TYR:OH	1:4:271:HIS:ND1	2.44	0.48
1:6:55:LEU:O	1:6:58:VAL:HG12	2.13	0.48
1:b:194:SER:N	1:b:197:ASN:O	2.46	0.48
1:b:239:VAL:CG2	1:b:268:MET:HE2	2.43	0.48
1:d:158:ILE:HG12	1:d:210:TYR:CD1	2.47	0.48
1:e:239:VAL:CG2	1:e:268:MET:HE2	2.43	0.48
1:k:71:ASN:ND2	1:s:279:ARG:HG3	2.29	0.48
1:l:258:ILE:HG21	1:m:242:ASN:HB3	1.95	0.48
1:l:279:ARG:HG3	1:r:71:ASN:ND2	2.29	0.48
1:m:135:SER:OG	1:m:152:ASN:ND2	2.37	0.48
1:n:55:LEU:O	1:n:58:VAL:HG12	2.13	0.48
1:p:71:ASN:ND2	1:q:279:ARG:HG3	2.29	0.48
1:w:126:TYR:OH	1:w:271:HIS:ND1	2.44	0.48
1:x:239:VAL:CG2	1:x:268:MET:HE2	2.43	0.48
1:y:55:LEU:O	1:y:58:VAL:HG12	2.13	0.48
1:y:194:SER:N	1:y:197:ASN:O	2.46	0.48
1:z:239:VAL:CG2	1:z:268:MET:HE2	2.43	0.48
1:8:158:ILE:HG12	1:8:210:TYR:CD1	2.47	0.48
1:A:194:SER:N	1:A:197:ASN:O	2.46	0.48
1:A:279:ARG:HG3	1:B:71:ASN:ND2	2.29	0.48
1:B:258:ILE:HG21	1:J:242:ASN:HB3	1.95	0.48
1:D:239:VAL:CG2	1:D:268:MET:HE2	2.43	0.48
1:D:242:ASN:HB3	1:P:258:ILE:HG21	1.96	0.48
1:E:170:VAL:HG12	1:E:178:TRP:HH2	1.79	0.48
1:I:192:THR:HG23	1:I:199:ILE:HB	1.95	0.48
1:J:258:ILE:HG21	1:L:242:ASN:HB3	1.95	0.48
1:L:192:THR:HG23	1:L:199:ILE:HB	1.95	0.48
1:N:170:VAL:HG12	1:N:178:TRP:HH2	1.79	0.48
1:O:71:ASN:ND2	1:P:279:ARG:HG3	2.29	0.48
1:O:194:SER:N	1:O:197:ASN:O	2.46	0.48
1:O:258:ILE:HG21	1:g:242:ASN:HB3	1.96	0.48
1:Q:55:LEU:O	1:Q:58:VAL:HG12	2.13	0.48
1:T:239:VAL:CG2	1:T:268:MET:HE2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:55:LEU:O	1:U:58:VAL:HG12	2.13	0.48
1:U:350:CYS:HB3	1:U:353:VAL:HG23	1.95	0.48
1:W:83:ILE:HD11	1:W:273:LEU:HG	1.94	0.48
1:W:350:CYS:HB3	1:W:353:VAL:HG23	1.95	0.48
1:X:194:SER:N	1:X:197:ASN:O	2.46	0.48
1:6:279:ARG:HG3	1:t:71:ASN:ND2	2.29	0.48
1:e:55:LEU:O	1:e:58:VAL:HG12	2.13	0.48
1:g:239:VAL:CG2	1:g:268:MET:HE2	2.43	0.48
1:g:258:ILE:HG21	1:h:242:ASN:HB3	1.95	0.48
1:h:239:VAL:CG2	1:h:268:MET:HE2	2.43	0.48
1:k:170:VAL:HG12	1:k:178:TRP:HH2	1.79	0.48
1:o:55:LEU:O	1:o:58:VAL:HG12	2.13	0.48
1:o:126:TYR:OH	1:o:271:HIS:ND1	2.44	0.48
1:q:192:THR:HG23	1:q:199:ILE:HB	1.95	0.48
1:s:194:SER:N	1:s:197:ASN:O	2.46	0.48
1:u:89:ARG:HG3	1:u:93:GLU:OE1	2.12	0.48
1:y:258:ILE:HG21	1:z:242:ASN:HB3	1.96	0.48
1:y:279:ARG:HG3	1:8:71:ASN:ND2	2.29	0.48
1:7:55:LEU:O	1:7:58:VAL:HG12	2.13	0.48
1:8:194:SER:N	1:8:197:ASN:O	2.46	0.48
1:B:170:VAL:HG12	1:B:178:TRP:HH2	1.79	0.48
1:B:279:ARG:NH1	1:C:73:ARG:HD3	2.29	0.48
1:G:83:ILE:HD11	1:G:273:LEU:HG	1.94	0.48
1:G:192:THR:HG23	1:G:199:ILE:HB	1.95	0.48
1:H:192:THR:HG23	1:H:199:ILE:HB	1.95	0.48
1:J:55:LEU:O	1:J:58:VAL:HG12	2.13	0.48
1:K:83:ILE:HD11	1:K:273:LEU:HG	1.94	0.48
1:L:135:SER:OG	1:L:152:ASN:ND2	2.37	0.48
1:P:194:SER:N	1:P:197:ASN:O	2.46	0.48
1:U:170:VAL:HG12	1:U:178:TRP:HH2	1.79	0.48
1:W:258:ILE:HG21	1:Y:242:ASN:HB3	1.95	0.48
1:X:242:ASN:HB3	1:5:258:ILE:HG21	1.95	0.48
1:Y:170:VAL:HG12	1:Y:178:TRP:HH2	1.79	0.48
1:Z:242:ASN:HB3	1:w:258:ILE:HG21	1.96	0.48
1:2:205:PHE:O	1:2:208:ASN:ND2	2.43	0.48
1:3:55:LEU:O	1:3:58:VAL:HG12	2.13	0.48
1:3:242:ASN:HB3	1:j:258:ILE:HG21	1.95	0.48
1:4:258:ILE:HG21	1:f:242:ASN:HB3	1.96	0.48
1:b:192:THR:HG23	1:b:199:ILE:HB	1.95	0.48
1:c:193:VAL:HG12	1:c:194:SER:O	2.13	0.48
1:e:83:ILE:HD11	1:e:273:LEU:HG	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:350:CYS:HB3	1:e:353:VAL:HG23	1.95	0.48
1:h:279:ARG:HG3	1:l:71:ASN:ND2	2.28	0.48
1:i:71:ASN:ND2	1:7:279:ARG:HG3	2.29	0.48
1:j:73:ARG:HD3	1:k:279:ARG:NH1	2.29	0.48
1:j:279:ARG:HG3	1:z:71:ASN:ND2	2.29	0.48
1:l:55:LEU:O	1:l:58:VAL:HG12	2.13	0.48
1:l:83:ILE:HD11	1:l:273:LEU:HG	1.95	0.48
1:m:239:VAL:CG2	1:m:268:MET:HE2	2.43	0.48
1:o:170:VAL:HG12	1:o:178:TRP:HH2	1.79	0.48
1:o:192:THR:HG23	1:o:199:ILE:HB	1.95	0.48
1:q:83:ILE:HD11	1:q:273:LEU:HG	1.94	0.48
1:r:192:THR:HG23	1:r:199:ILE:HB	1.95	0.48
1:r:194:SER:N	1:r:197:ASN:O	2.46	0.48
1:t:170:VAL:HG12	1:t:178:TRP:HH2	1.79	0.48
1:t:193:VAL:HG12	1:t:194:SER:O	2.13	0.48
1:t:239:VAL:CG2	1:t:268:MET:HE2	2.43	0.48
1:t:350:CYS:HB3	1:t:353:VAL:HG23	1.95	0.48
1:v:192:THR:HG23	1:v:199:ILE:HB	1.95	0.48
1:z:83:ILE:HD11	1:z:273:LEU:HG	1.94	0.48
1:7:135:SER:OG	1:7:152:ASN:ND2	2.37	0.48
1:7:170:VAL:HG12	1:7:178:TRP:HH2	1.79	0.48
1:8:170:VAL:HG12	1:8:178:TRP:HH2	1.79	0.48
1:8:205:PHE:O	1:8:208:ASN:ND2	2.43	0.48
1:A:83:ILE:HD11	1:A:273:LEU:HG	1.94	0.48
1:B:239:VAL:CG2	1:B:268:MET:HE2	2.43	0.48
1:C:258:ILE:HG21	1:2:242:ASN:HB3	1.95	0.48
1:C:279:ARG:HG3	1:D:71:ASN:ND2	2.29	0.48
1:C:350:CYS:HB3	1:C:353:VAL:HG23	1.95	0.48
1:D:83:ILE:HD11	1:D:273:LEU:HG	1.94	0.48
1:F:239:VAL:CG2	1:F:268:MET:HE2	2.43	0.48
1:F:279:ARG:HG3	1:R:71:ASN:ND2	2.29	0.48
1:H:158:ILE:HG12	1:H:210:TYR:CD1	2.47	0.48
1:J:71:ASN:ND2	1:1:279:ARG:HG3	2.28	0.48
1:J:194:SER:N	1:J:197:ASN:O	2.46	0.48
1:K:258:ILE:HG21	1:1:242:ASN:HB3	1.95	0.48
1:L:239:VAL:CG2	1:L:268:MET:HE2	2.43	0.48
1:M:170:VAL:HG12	1:M:178:TRP:HH2	1.79	0.48
1:N:205:PHE:O	1:N:208:ASN:ND2	2.43	0.48
1:P:156:TYR:HB3	1:P:212:LYS:HG2	1.96	0.48
1:Q:126:TYR:OH	1:Q:271:HIS:ND1	2.44	0.48
1:Q:170:VAL:HG12	1:Q:178:TRP:HH2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:192:THR:HG23	1:Q:199:ILE:HB	1.95	0.48
1:Q:193:VAL:HG12	1:Q:194:SER:O	2.13	0.48
1:S:192:THR:HG23	1:S:199:ILE:HB	1.94	0.48
1:S:258:ILE:HG21	1:U:242:ASN:HB3	1.95	0.48
1:T:135:SER:OG	1:T:152:ASN:ND2	2.37	0.48
1:U:239:VAL:CG2	1:U:268:MET:HE2	2.43	0.48
1:Y:193:VAL:HG12	1:Y:194:SER:O	2.13	0.48
1:2:55:LEU:O	1:2:58:VAL:HG12	2.13	0.48
1:2:126:TYR:OH	1:2:271:HIS:ND1	2.44	0.48
1:6:258:ILE:HG21	1:b:242:ASN:HB3	1.95	0.48
1:c:170:VAL:HG12	1:c:178:TRP:HH2	1.79	0.48
1:d:192:THR:HG23	1:d:199:ILE:HB	1.95	0.48
1:e:285:PHE:HE2	1:q:134:THR:HG21	1.78	0.48
1:g:83:ILE:HD11	1:g:273:LEU:HG	1.94	0.48
1:i:170:VAL:HG12	1:i:178:TRP:HH2	1.79	0.48
1:l:194:SER:N	1:l:197:ASN:O	2.46	0.48
1:n:170:VAL:HG12	1:n:178:TRP:HH2	1.79	0.48
1:o:361:LYS:HG2	1:o:363:SER:O	2.14	0.48
1:p:239:VAL:CG2	1:p:268:MET:HE2	2.43	0.48
1:p:279:ARG:HG3	1:u:71:ASN:ND2	2.29	0.48
1:q:156:TYR:HB3	1:q:212:LYS:HG2	1.96	0.48
1:s:83:ILE:HD11	1:s:273:LEU:HG	1.94	0.48
1:t:242:ASN:HB3	1:v:258:ILE:HG21	1.95	0.48
1:w:71:ASN:ND2	1:8:279:ARG:HG3	2.29	0.48
1:y:156:TYR:HB3	1:y:212:LYS:HG2	1.96	0.48
1:y:170:VAL:HG12	1:y:178:TRP:HH2	1.79	0.48
1:7:205:PHE:O	1:7:208:ASN:ND2	2.43	0.48
1:B:135:SER:OG	1:B:152:ASN:ND2	2.37	0.48
1:B:194:SER:N	1:B:197:ASN:O	2.46	0.48
1:C:156:TYR:HB3	1:C:212:LYS:HG2	1.96	0.48
1:D:361:LYS:HG2	1:D:363:SER:O	2.14	0.48
1:E:136:ASP:C	1:E:137:GLU:O	2.57	0.48
1:F:194:SER:N	1:F:197:ASN:O	2.46	0.48
1:G:156:TYR:HB3	1:G:212:LYS:HG2	1.96	0.48
1:I:194:SER:N	1:I:197:ASN:O	2.46	0.48
1:I:350:CYS:HB3	1:I:353:VAL:HG23	1.95	0.48
1:L:361:LYS:HG2	1:L:363:SER:O	2.14	0.48
1:N:83:ILE:HD11	1:N:273:LEU:HG	1.94	0.48
1:O:136:ASP:C	1:O:137:GLU:O	2.57	0.48
1:O:205:PHE:O	1:O:208:ASN:ND2	2.43	0.48
1:O:350:CYS:HB3	1:O:353:VAL:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:170:VAL:HG12	1:P:178:TRP:HH2	1.79	0.48
1:Q:361:LYS:HG2	1:Q:363:SER:O	2.14	0.48
1:R:156:TYR:HB3	1:R:212:LYS:HG2	1.96	0.48
1:S:156:TYR:HB3	1:S:212:LYS:HG2	1.96	0.48
1:S:361:LYS:HG2	1:S:363:SER:O	2.14	0.48
1:T:361:LYS:HG2	1:T:363:SER:O	2.14	0.48
1:U:156:TYR:HB3	1:U:212:LYS:HG2	1.96	0.48
1:3:205:PHE:O	1:3:208:ASN:ND2	2.43	0.48
1:c:239:VAL:CG2	1:c:268:MET:HE2	2.43	0.48
1:j:193:VAL:HG12	1:j:194:SER:O	2.13	0.48
1:j:350:CYS:HB3	1:j:353:VAL:HG23	1.95	0.48
1:k:135:SER:OG	1:k:152:ASN:ND2	2.37	0.48
1:k:194:SER:N	1:k:197:ASN:O	2.46	0.48
1:k:239:VAL:CG2	1:k:268:MET:HE2	2.43	0.48
1:k:350:CYS:HB3	1:k:353:VAL:HG23	1.95	0.48
1:l:361:LYS:HG2	1:l:363:SER:O	2.14	0.48
1:m:361:LYS:HG2	1:m:363:SER:O	2.14	0.48
1:n:136:ASP:C	1:n:137:GLU:O	2.57	0.48
1:o:182:SER:OG	1:o:187:ASP:OD2	2.19	0.48
1:p:194:SER:N	1:p:197:ASN:O	2.46	0.48
1:t:156:TYR:HB3	1:t:212:LYS:HG2	1.96	0.48
1:u:156:TYR:HB3	1:u:212:LYS:HG2	1.96	0.48
1:v:156:TYR:HB3	1:v:212:LYS:HG2	1.96	0.48
1:x:156:TYR:HB3	1:x:212:LYS:HG2	1.96	0.48
1:x:361:LYS:HG2	1:x:363:SER:O	2.14	0.48
1:y:239:VAL:CG2	1:y:268:MET:HE2	2.43	0.48
1:z:361:LYS:HG2	1:z:363:SER:O	2.14	0.48
1:8:136:ASP:C	1:8:137:GLU:O	2.57	0.48
1:B:350:CYS:HB3	1:B:353:VAL:HG23	1.95	0.48
1:C:193:VAL:HG12	1:C:194:SER:O	2.13	0.48
1:E:258:ILE:HG21	1:Q:242:ASN:HB3	1.95	0.48
1:F:71:ASN:ND2	1:G:279:ARG:HG3	2.29	0.48
1:H:193:VAL:HG12	1:H:194:SER:O	2.13	0.48
1:I:73:ARG:HD3	1:J:279:ARG:NH1	2.29	0.48
1:J:361:LYS:HG2	1:J:363:SER:O	2.14	0.48
1:M:55:LEU:O	1:M:58:VAL:HG12	2.13	0.48
1:O:170:VAL:HG12	1:O:178:TRP:HH2	1.79	0.48
1:O:242:ASN:HB3	1:h:258:ILE:HG21	1.95	0.48
1:O:279:ARG:HG3	1:4:71:ASN:ND2	2.29	0.48
1:P:239:VAL:CG2	1:P:268:MET:HE2	2.43	0.48
1:Q:182:SER:OG	1:Q:187:ASP:OD2	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:156:TYR:HB3	1:T:212:LYS:HG2	1.96	0.48
1:U:83:ILE:HD11	1:U:273:LEU:HG	1.94	0.48
1:X:71:ASN:ND2	1:Y:279:ARG:HG3	2.29	0.48
1:X:192:THR:HG23	1:X:199:ILE:HB	1.95	0.48
1:X:361:LYS:HG2	1:X:363:SER:O	2.14	0.48
1:Y:156:TYR:HB3	1:Y:212:LYS:HG2	1.96	0.48
1:Y:239:VAL:CG2	1:Y:268:MET:HE2	2.43	0.48
1:Z:258:ILE:HG21	1:x:242:ASN:HB3	1.95	0.48
1:1:55:LEU:O	1:1:58:VAL:HG12	2.13	0.48
1:1:156:TYR:HB3	1:1:212:LYS:HG2	1.96	0.48
1:1:258:ILE:HG21	1:8:242:ASN:HB3	1.96	0.48
1:3:279:ARG:HG3	1:m:71:ASN:ND2	2.29	0.48
1:6:193:VAL:HG12	1:6:194:SER:O	2.13	0.48
1:a:239:VAL:CG2	1:a:268:MET:HE2	2.43	0.48
1:b:361:LYS:HG2	1:b:363:SER:O	2.14	0.48
1:c:156:TYR:HB3	1:c:212:LYS:HG2	1.96	0.48
1:e:156:TYR:HB3	1:e:212:LYS:HG2	1.96	0.48
1:j:156:TYR:HB3	1:j:212:LYS:HG2	1.96	0.48
1:l:279:ARG:NH1	1:r:73:ARG:HD3	2.29	0.48
1:o:193:VAL:HG12	1:o:194:SER:O	2.13	0.48
1:r:350:CYS:HB3	1:r:353:VAL:HG23	1.95	0.48
1:s:156:TYR:HB3	1:s:212:LYS:HG2	1.96	0.48
1:t:279:ARG:HG3	1:x:71:ASN:ND2	2.29	0.48
1:v:136:ASP:C	1:v:137:GLU:O	2.57	0.48
1:v:170:VAL:HG12	1:v:178:TRP:HH2	1.79	0.48
1:v:361:LYS:HG2	1:v:363:SER:O	2.14	0.48
1:7:83:ILE:HD11	1:7:273:LEU:HG	1.94	0.48
1:7:361:LYS:HG2	1:7:363:SER:O	2.14	0.48
1:A:71:ASN:ND2	1:E:279:ARG:HG3	2.29	0.48
1:A:156:TYR:HB3	1:A:212:LYS:HG2	1.96	0.48
1:A:361:LYS:HG2	1:A:363:SER:O	2.14	0.48
1:F:350:CYS:HB3	1:F:353:VAL:HG23	1.95	0.48
1:G:194:SER:N	1:G:197:ASN:O	2.46	0.48
1:H:350:CYS:HB3	1:H:353:VAL:HG23	1.95	0.48
1:L:71:ASN:ND2	1:2:279:ARG:HG3	2.29	0.48
1:L:83:ILE:HD11	1:L:273:LEU:HG	1.94	0.48
1:N:135:SER:OG	1:N:152:ASN:ND2	2.37	0.48
1:N:361:LYS:HG2	1:N:363:SER:O	2.14	0.48
1:Q:73:ARG:HD3	1:S:279:ARG:NH1	2.29	0.48
1:S:136:ASP:C	1:S:137:GLU:O	2.57	0.48
1:S:170:VAL:HG12	1:S:178:TRP:HH2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:71:ASN:ND2	1:U:279:ARG:HG3	2.29	0.48
1:T:242:ASN:HB3	1:f:258:ILE:HG21	1.96	0.48
1:V:239:VAL:CG2	1:V:268:MET:HE2	2.43	0.48
1:W:156:TYR:HB3	1:W:212:LYS:HG2	1.96	0.48
1:W:205:PHE:O	1:W:208:ASN:ND2	2.43	0.48
1:X:136:ASP:C	1:X:137:GLU:O	2.57	0.48
1:X:170:VAL:HG12	1:X:178:TRP:HH2	1.79	0.48
1:2:170:VAL:HG12	1:2:178:TRP:HH2	1.79	0.48
1:2:192:THR:HG23	1:2:199:ILE:HB	1.95	0.48
1:3:83:ILE:HD11	1:3:273:LEU:HG	1.94	0.48
1:3:192:THR:HG23	1:3:199:ILE:HB	1.95	0.48
1:4:170:VAL:HG12	1:4:178:TRP:HH2	1.79	0.48
1:5:136:ASP:C	1:5:137:GLU:O	2.57	0.48
1:5:170:VAL:HG12	1:5:178:TRP:HH2	1.79	0.48
1:6:136:ASP:C	1:6:137:GLU:O	2.57	0.48
1:6:170:VAL:HG12	1:6:178:TRP:HH2	1.79	0.48
1:6:350:CYS:HB3	1:6:353:VAL:HG23	1.95	0.48
1:b:136:ASP:C	1:b:137:GLU:O	2.57	0.48
1:b:170:VAL:HG12	1:b:178:TRP:HH2	1.79	0.48
1:c:242:ASN:HB3	1:e:258:ILE:HG21	1.95	0.48
1:d:193:VAL:HG12	1:d:194:SER:O	2.13	0.48
1:f:156:TYR:HB3	1:f:212:LYS:HG2	1.96	0.48
1:n:258:ILE:HG21	1:o:242:ASN:HB3	1.96	0.48
1:o:73:ARG:HD3	1:v:279:ARG:NH1	2.29	0.48
1:p:350:CYS:HB3	1:p:353:VAL:HG23	1.95	0.48
1:s:361:LYS:HG2	1:s:363:SER:O	2.14	0.48
1:v:83:ILE:HD11	1:v:273:LEU:HG	1.95	0.48
1:x:135:SER:OG	1:x:152:ASN:ND2	2.37	0.48
1:8:350:CYS:HB3	1:8:353:VAL:HG23	1.95	0.48
1:A:136:ASP:C	1:A:137:GLU:O	2.57	0.48
1:B:361:LYS:HG2	1:B:363:SER:O	2.14	0.48
1:C:86:ASN:ND2	1:C:345:GLN:O	2.47	0.48
1:G:73:ARG:HD3	1:W:279:ARG:NH1	2.29	0.48
1:H:156:TYR:HB3	1:H:212:LYS:HG2	1.96	0.48
1:H:361:LYS:HG2	1:H:363:SER:O	2.14	0.48
1:J:73:ARG:HD3	1:1:279:ARG:NH1	2.29	0.48
1:K:71:ASN:ND2	1:L:279:ARG:HG3	2.29	0.48
1:P:350:CYS:HB3	1:P:353:VAL:HG23	1.95	0.48
1:V:156:TYR:HB3	1:V:212:LYS:HG2	1.96	0.48
1:Y:86:ASN:ND2	1:Y:345:GLN:O	2.47	0.48
1:Y:350:CYS:HB3	1:Y:353:VAL:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:239:VAL:CG2	1:Z:268:MET:HE2	2.43	0.48
1:2:83:ILE:HD11	1:2:273:LEU:HG	1.94	0.48
1:3:136:ASP:C	1:3:137:GLU:O	2.57	0.48
1:3:170:VAL:HG12	1:3:178:TRP:HH2	1.79	0.48
1:3:239:VAL:CG2	1:3:268:MET:HE2	2.43	0.48
1:5:193:VAL:HG12	1:5:194:SER:O	2.13	0.48
1:6:361:LYS:HG2	1:6:363:SER:O	2.14	0.48
1:a:156:TYR:HB3	1:a:212:LYS:HG2	1.96	0.48
1:a:192:THR:HG23	1:a:199:ILE:HB	1.95	0.48
1:b:350:CYS:HB3	1:b:353:VAL:HG23	1.95	0.48
1:c:86:ASN:ND2	1:c:345:GLN:O	2.47	0.48
1:d:350:CYS:HB3	1:d:353:VAL:HG23	1.95	0.48
1:d:361:LYS:HG2	1:d:363:SER:O	2.14	0.48
1:f:194:SER:N	1:f:197:ASN:O	2.46	0.48
1:g:71:ASN:ND2	1:m:279:ARG:HG3	2.28	0.48
1:h:55:LEU:O	1:h:58:VAL:HG12	2.13	0.48
1:h:156:TYR:HB3	1:h:212:LYS:HG2	1.96	0.48
1:h:279:ARG:NH1	1:l:73:ARG:HD3	2.29	0.48
1:i:55:LEU:O	1:i:58:VAL:HG12	2.13	0.48
1:m:83:ILE:HD11	1:m:273:LEU:HG	1.94	0.48
1:n:361:LYS:HG2	1:n:363:SER:O	2.14	0.48
1:q:194:SER:N	1:q:197:ASN:O	2.46	0.48
1:r:170:VAL:HG12	1:r:178:TRP:HH2	1.79	0.48
1:s:193:VAL:HG12	1:s:194:SER:O	2.13	0.48
1:t:83:ILE:HD11	1:t:273:LEU:HG	1.94	0.48
1:w:170:VAL:HG12	1:w:178:TRP:HH2	1.79	0.48
1:y:279:ARG:NH1	1:8:73:ARG:HD3	2.29	0.48
1:z:55:LEU:O	1:z:58:VAL:HG12	2.13	0.48
1:D:55:LEU:O	1:D:58:VAL:HG12	2.13	0.47
1:D:86:ASN:ND2	1:D:345:GLN:O	2.47	0.47
1:D:194:SER:N	1:D:197:ASN:O	2.46	0.47
1:E:361:LYS:HG2	1:E:363:SER:O	2.14	0.47
1:G:193:VAL:HG12	1:G:194:SER:O	2.13	0.47
1:H:170:VAL:HG12	1:H:178:TRP:HH2	1.79	0.47
1:H:194:SER:N	1:H:197:ASN:O	2.46	0.47
1:L:156:TYR:HB3	1:L:212:LYS:HG2	1.96	0.47
1:M:136:ASP:C	1:M:137:GLU:O	2.57	0.47
1:M:156:TYR:HB3	1:M:212:LYS:HG2	1.96	0.47
1:N:71:ASN:ND2	1:g:279:ARG:HG3	2.29	0.47
1:O:73:ARG:HD3	1:P:279:ARG:NH1	2.29	0.47
1:P:71:ASN:ND2	1:Q:279:ARG:HG3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:192:THR:HG23	1:P:199:ILE:HB	1.95	0.47
1:P:361:LYS:HG2	1:P:363:SER:O	2.14	0.47
1:Q:71:ASN:ND2	1:S:279:ARG:HG3	2.29	0.47
1:S:71:ASN:ND2	1:4:279:ARG:HG3	2.28	0.47
1:S:83:ILE:HD11	1:S:273:LEU:HG	1.95	0.47
1:V:192:THR:HG23	1:V:199:ILE:HB	1.95	0.47
1:X:350:CYS:HB3	1:X:353:VAL:HG23	1.95	0.47
1:Y:361:LYS:HG2	1:Y:363:SER:O	2.14	0.47
1:Z:86:ASN:ND2	1:Z:345:GLN:O	2.47	0.47
1:Z:156:TYR:HB3	1:Z:212:LYS:HG2	1.96	0.47
1:2:194:SER:N	1:2:197:ASN:O	2.46	0.47
1:5:361:LYS:HG2	1:5:363:SER:O	2.14	0.47
1:c:350:CYS:HB3	1:c:353:VAL:HG23	1.95	0.47
1:c:361:LYS:HG2	1:c:363:SER:O	2.14	0.47
1:d:156:TYR:HB3	1:d:212:LYS:HG2	1.96	0.47
1:d:194:SER:N	1:d:197:ASN:O	2.46	0.47
1:e:205:PHE:O	1:e:208:ASN:ND2	2.43	0.47
1:e:361:LYS:HG2	1:e:363:SER:O	2.14	0.47
1:f:86:ASN:ND2	1:f:345:GLN:O	2.47	0.47
1:f:239:VAL:CG2	1:f:268:MET:HE2	2.43	0.47
1:i:156:TYR:HB3	1:i:212:LYS:HG2	1.96	0.47
1:j:86:ASN:ND2	1:j:345:GLN:O	2.47	0.47
1:k:126:TYR:OH	1:k:271:HIS:ND1	2.44	0.47
1:k:361:LYS:HG2	1:k:363:SER:O	2.14	0.47
1:l:126:TYR:OH	1:l:271:HIS:ND1	2.43	0.47
1:m:156:TYR:HB3	1:m:212:LYS:HG2	1.96	0.47
1:n:279:ARG:HG3	1:s:71:ASN:ND2	2.29	0.47
1:s:136:ASP:C	1:s:137:GLU:O	2.57	0.47
1:u:55:LEU:O	1:u:58:VAL:HG12	2.13	0.47
1:u:350:CYS:HB3	1:u:353:VAL:HG23	1.95	0.47
1:w:136:ASP:C	1:w:137:GLU:O	2.57	0.47
1:y:192:THR:HG23	1:y:199:ILE:HB	1.94	0.47
1:y:350:CYS:HB3	1:y:353:VAL:HG23	1.95	0.47
1:7:86:ASN:ND2	1:7:345:GLN:O	2.47	0.47
1:A:193:VAL:HG12	1:A:194:SER:O	2.13	0.47
1:B:136:ASP:C	1:B:137:GLU:O	2.57	0.47
1:C:361:LYS:HG2	1:C:363:SER:O	2.14	0.47
1:E:86:ASN:ND2	1:E:345:GLN:O	2.47	0.47
1:H:86:ASN:ND2	1:H:345:GLN:O	2.47	0.47
1:H:204:ILE:HG22	1:Y:308:VAL:HB	1.96	0.47
1:I:170:VAL:HG12	1:I:178:TRP:HH2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:86:ASN:ND2	1:N:345:GLN:O	2.47	0.47
1:R:55:LEU:O	1:R:58:VAL:HG12	2.13	0.47
1:T:136:ASP:C	1:T:137:GLU:O	2.57	0.47
1:W:367:ASP:CG	1:Y:262:GLY:H	2.22	0.47
1:Z:194:SER:N	1:Z:197:ASN:O	2.46	0.47
1:2:136:ASP:C	1:2:137:GLU:O	2.57	0.47
1:2:239:VAL:CG2	1:2:268:MET:HE2	2.43	0.47
1:3:194:SER:N	1:3:197:ASN:O	2.46	0.47
1:4:136:ASP:C	1:4:137:GLU:O	2.57	0.47
1:5:350:CYS:HB3	1:5:353:VAL:HG23	1.95	0.47
1:d:86:ASN:ND2	1:d:345:GLN:O	2.47	0.47
1:d:136:ASP:C	1:d:137:GLU:O	2.57	0.47
1:i:136:ASP:C	1:i:137:GLU:O	2.57	0.47
1:j:71:ASN:ND2	1:k:279:ARG:HG3	2.28	0.47
1:k:136:ASP:C	1:k:137:GLU:O	2.57	0.47
1:n:86:ASN:ND2	1:n:345:GLN:O	2.47	0.47
1:n:242:ASN:HB3	1:p:258:ILE:HG21	1.95	0.47
1:o:279:ARG:HG3	1:y:71:ASN:ND2	2.29	0.47
1:q:239:VAL:CG2	1:q:268:MET:HE2	2.43	0.47
1:r:258:ILE:HG21	1:s:242:ASN:HB3	1.95	0.47
1:s:86:ASN:ND2	1:s:345:GLN:O	2.47	0.47
1:s:170:VAL:HG12	1:s:178:TRP:HH2	1.79	0.47
1:x:55:LEU:O	1:x:58:VAL:HG12	2.13	0.47
1:y:361:LYS:HG2	1:y:363:SER:O	2.14	0.47
1:z:86:ASN:ND2	1:z:345:GLN:O	2.47	0.47
1:z:258:ILE:HG21	1:7:242:ASN:HB3	1.95	0.47
1:A:86:ASN:ND2	1:A:345:GLN:O	2.47	0.47
1:A:170:VAL:HG12	1:A:178:TRP:HH2	1.79	0.47
1:A:309:GLN:NE2	1:A:320:PRO:HG3	2.30	0.47
1:B:367:ASP:CG	1:J:262:GLY:H	2.22	0.47
1:D:193:VAL:HG12	1:D:194:SER:O	2.13	0.47
1:E:242:ASN:HB3	1:F:258:ILE:HG21	1.96	0.47
1:G:239:VAL:CG2	1:G:268:MET:HE2	2.43	0.47
1:I:83:ILE:HD11	1:I:273:LEU:HG	1.95	0.47
1:N:156:TYR:HB3	1:N:212:LYS:HG2	1.96	0.47
1:R:350:CYS:HB3	1:R:353:VAL:HG23	1.95	0.47
1:T:55:LEU:O	1:T:58:VAL:HG12	2.13	0.47
1:T:73:ARG:HD3	1:U:279:ARG:NH1	2.29	0.47
1:T:367:ASP:CG	1:4:262:GLY:H	2.23	0.47
1:U:136:ASP:C	1:U:137:GLU:O	2.57	0.47
1:W:361:LYS:HG2	1:W:363:SER:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:136:ASP:C	1:Y:137:GLU:O	2.57	0.47
1:3:361:LYS:HG2	1:3:363:SER:O	2.14	0.47
1:b:71:ASN:ND2	1:c:279:ARG:HG3	2.29	0.47
1:b:86:ASN:ND2	1:b:345:GLN:O	2.47	0.47
1:d:170:VAL:HG12	1:d:178:TRP:HH2	1.79	0.47
1:h:170:VAL:HG12	1:h:178:TRP:HH2	1.79	0.47
1:h:361:LYS:HG2	1:h:363:SER:O	2.14	0.47
1:j:361:LYS:HG2	1:j:363:SER:O	2.14	0.47
1:k:108:LYS:HG2	1:r:312:ASN:OD1	2.14	0.47
1:k:367:ASP:CG	1:l:262:GLY:H	2.22	0.47
1:o:71:ASN:ND2	1:v:279:ARG:HG3	2.29	0.47
1:s:309:GLN:NE2	1:s:320:PRO:HG3	2.30	0.47
1:t:309:GLN:NE2	1:t:320:PRO:HG3	2.30	0.47
1:u:258:ILE:HG21	1:v:242:ASN:HB3	1.95	0.47
1:v:71:ASN:ND2	1:w:279:ARG:HG3	2.28	0.47
1:w:361:LYS:HG2	1:w:363:SER:O	2.14	0.47
1:x:136:ASP:C	1:x:137:GLU:O	2.57	0.47
1:x:194:SER:N	1:x:197:ASN:O	2.47	0.47
1:z:126:TYR:OH	1:z:271:HIS:ND1	2.44	0.47
1:z:194:SER:N	1:z:197:ASN:O	2.46	0.47
1:A:242:ASN:HB3	1:I:258:ILE:HG21	1.95	0.47
1:A:279:ARG:NH1	1:B:73:ARG:HD3	2.29	0.47
1:B:108:LYS:HG2	1:I:312:ASN:OD1	2.14	0.47
1:B:126:TYR:OH	1:B:271:HIS:ND1	2.44	0.47
1:B:279:ARG:HG3	1:C:71:ASN:ND2	2.28	0.47
1:D:126:TYR:OH	1:D:271:HIS:ND1	2.44	0.47
1:D:136:ASP:C	1:D:137:GLU:O	2.57	0.47
1:D:279:ARG:NH1	1:E:73:ARG:HD3	2.29	0.47
1:F:83:ILE:HD11	1:F:273:LEU:HG	1.94	0.47
1:H:71:ASN:ND2	1:I:279:ARG:HG3	2.29	0.47
1:H:136:ASP:C	1:H:137:GLU:O	2.57	0.47
1:I:136:ASP:C	1:I:137:GLU:O	2.57	0.47
1:I:309:GLN:NE2	1:I:320:PRO:HG3	2.30	0.47
1:J:126:TYR:OH	1:J:271:HIS:ND1	2.44	0.47
1:J:170:VAL:HG12	1:J:178:TRP:HH2	1.79	0.47
1:J:309:GLN:NE2	1:J:320:PRO:HG3	2.30	0.47
1:L:136:ASP:C	1:L:137:GLU:O	2.57	0.47
1:N:136:ASP:C	1:N:137:GLU:O	2.57	0.47
1:N:258:ILE:HG21	1:P:242:ASN:HB3	1.96	0.47
1:O:239:VAL:CG2	1:O:268:MET:HE2	2.43	0.47
1:P:136:ASP:C	1:P:137:GLU:O	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:86:ASN:ND2	1:S:345:GLN:O	2.47	0.47
1:T:194:SER:N	1:T:197:ASN:O	2.46	0.47
1:V:86:ASN:ND2	1:V:345:GLN:O	2.47	0.47
1:V:361:LYS:HG2	1:V:363:SER:O	2.14	0.47
1:2:361:LYS:HG2	1:2:363:SER:O	2.14	0.47
1:4:309:GLN:NE2	1:4:320:PRO:HG3	2.30	0.47
1:4:361:LYS:HG2	1:4:363:SER:O	2.14	0.47
1:a:361:LYS:HG2	1:a:363:SER:O	2.14	0.47
1:c:308:VAL:HB	1:d:204:ILE:HG22	1.96	0.47
1:d:73:ARG:HD3	1:r:279:ARG:NH1	2.29	0.47
1:e:278:ILE:HG12	1:q:290:GLN:OE1	2.15	0.47
1:f:361:LYS:HG2	1:f:363:SER:O	2.14	0.47
1:i:309:GLN:NE2	1:i:320:PRO:HG3	2.30	0.47
1:k:73:ARG:HD3	1:s:279:ARG:NH1	2.29	0.47
1:l:309:GLN:NE2	1:l:320:PRO:HG3	2.30	0.47
1:m:350:CYS:HB3	1:m:353:VAL:HG23	1.95	0.47
1:n:71:ASN:ND2	1:z:279:ARG:HG3	2.29	0.47
1:n:73:ARG:HD3	1:z:279:ARG:NH1	2.29	0.47
1:q:193:VAL:HG12	1:q:194:SER:O	2.13	0.47
1:r:83:ILE:HD11	1:r:273:LEU:HG	1.94	0.47
1:r:309:GLN:NE2	1:r:320:PRO:HG3	2.30	0.47
1:t:136:ASP:C	1:t:137:GLU:O	2.57	0.47
1:u:170:VAL:HG12	1:u:178:TRP:HH2	1.79	0.47
1:v:86:ASN:ND2	1:v:345:GLN:O	2.47	0.47
1:w:309:GLN:NE2	1:w:320:PRO:HG3	2.30	0.47
1:y:136:ASP:C	1:y:137:GLU:O	2.57	0.47
1:y:367:ASP:CG	1:z:262:GLY:H	2.23	0.47
1:z:136:ASP:C	1:z:137:GLU:O	2.57	0.47
1:z:193:VAL:HG12	1:z:194:SER:O	2.13	0.47
1:z:309:GLN:NE2	1:z:320:PRO:HG3	2.30	0.47
1:7:156:TYR:HB3	1:7:212:LYS:HG2	1.96	0.47
1:8:110:TYR:OH	1:8:233:ASP:HA	2.15	0.47
1:A:110:TYR:OH	1:A:233:ASP:HA	2.15	0.47
1:D:62:THR:O	1:D:299:PHE:N	2.48	0.47
1:D:170:VAL:HG12	1:D:178:TRP:HH2	1.79	0.47
1:D:258:ILE:HG21	1:N:242:ASN:HB3	1.96	0.47
1:D:262:GLY:H	1:P:367:ASP:CG	2.23	0.47
1:D:279:ARG:HG3	1:E:71:ASN:ND2	2.29	0.47
1:D:309:GLN:NE2	1:D:320:PRO:HG3	2.30	0.47
1:E:110:TYR:OH	1:E:233:ASP:HA	2.15	0.47
1:F:279:ARG:NH1	1:R:73:ARG:HD3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:361:LYS:HG2	1:F:363:SER:O	2.14	0.47
1:H:73:ARG:HD3	1:I:279:ARG:NH1	2.29	0.47
1:I:239:VAL:CG2	1:I:268:MET:HE2	2.43	0.47
1:J:156:TYR:HB3	1:J:212:LYS:HG2	1.96	0.47
1:L:110:TYR:OH	1:L:233:ASP:HA	2.15	0.47
1:L:350:CYS:HB3	1:L:353:VAL:HG23	1.95	0.47
1:N:62:THR:O	1:N:299:PHE:N	2.48	0.47
1:O:86:ASN:ND2	1:O:345:GLN:O	2.47	0.47
1:Q:86:ASN:ND2	1:Q:345:GLN:O	2.47	0.47
1:R:170:VAL:HG12	1:R:178:TRP:HH2	1.79	0.47
1:R:258:ILE:HG21	1:S:242:ASN:HB3	1.95	0.47
1:S:309:GLN:NE2	1:S:320:PRO:HG3	2.30	0.47
1:T:86:ASN:ND2	1:T:345:GLN:O	2.47	0.47
1:U:309:GLN:NE2	1:U:320:PRO:HG3	2.30	0.47
1:X:279:ARG:HG3	1:6:71:ASN:ND2	2.29	0.47
1:Y:194:SER:N	1:Y:197:ASN:O	2.46	0.47
1:Z:62:THR:O	1:Z:299:PHE:N	2.48	0.47
1:Z:136:ASP:C	1:Z:137:GLU:O	2.57	0.47
1:1:86:ASN:ND2	1:1:345:GLN:O	2.47	0.47
1:1:170:VAL:HG12	1:1:178:TRP:HH2	1.79	0.47
1:1:361:LYS:HG2	1:1:363:SER:O	2.14	0.47
1:5:71:ASN:ND2	1:b:279:ARG:HG3	2.29	0.47
1:a:86:ASN:ND2	1:a:345:GLN:O	2.47	0.47
1:a:242:ASN:HB3	1:b:258:ILE:HG21	1.96	0.47
1:b:126:TYR:OH	1:b:271:HIS:ND1	2.44	0.47
1:b:312:ASN:OD1	1:e:108:LYS:HG2	2.14	0.47
1:c:135:SER:OG	1:c:152:ASN:ND2	2.37	0.47
1:c:136:ASP:C	1:c:137:GLU:O	2.57	0.47
1:c:194:SER:N	1:c:197:ASN:O	2.46	0.47
1:c:312:ASN:OD1	1:f:108:LYS:HG2	2.14	0.47
1:d:71:ASN:ND2	1:r:279:ARG:HG3	2.29	0.47
1:f:136:ASP:C	1:f:137:GLU:O	2.57	0.47
1:g:170:VAL:HG12	1:g:178:TRP:HH2	1.79	0.47
1:m:110:TYR:OH	1:m:233:ASP:HA	2.15	0.47
1:m:136:ASP:C	1:m:137:GLU:O	2.57	0.47
1:p:83:ILE:HD11	1:p:273:LEU:HG	1.94	0.47
1:p:156:TYR:HB3	1:p:212:LYS:HG2	1.96	0.47
1:p:279:ARG:NH1	1:u:73:ARG:HD3	2.29	0.47
1:q:62:THR:O	1:q:299:PHE:N	2.48	0.47
1:r:136:ASP:C	1:r:137:GLU:O	2.57	0.47
1:v:55:LEU:O	1:v:58:VAL:HG12	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:309:GLN:NE2	1:v:320:PRO:HG3	2.30	0.47
1:w:262:GLY:H	1:x:367:ASP:CG	2.23	0.47
1:x:86:ASN:ND2	1:x:345:GLN:O	2.47	0.47
1:z:62:THR:O	1:z:299:PHE:N	2.48	0.47
1:z:170:VAL:HG12	1:z:178:TRP:HH2	1.79	0.47
1:7:312:ASN:OD1	1:8:108:LYS:HG2	2.15	0.47
1:8:86:ASN:ND2	1:8:345:GLN:O	2.47	0.47
1:A:312:ASN:OD1	1:F:108:LYS:HG2	2.15	0.47
1:B:156:TYR:HB3	1:B:212:LYS:HG2	1.96	0.47
1:C:62:THR:O	1:C:299:PHE:N	2.48	0.47
1:F:156:TYR:HB3	1:F:212:LYS:HG2	1.96	0.47
1:G:62:THR:O	1:G:299:PHE:N	2.48	0.47
1:H:279:ARG:NH1	1:Z:73:ARG:HD3	2.29	0.47
1:I:361:LYS:HG2	1:I:363:SER:O	2.14	0.47
1:J:136:ASP:C	1:J:137:GLU:O	2.57	0.47
1:L:62:THR:O	1:L:299:PHE:N	2.48	0.47
1:L:170:VAL:HG12	1:L:178:TRP:HH2	1.79	0.47
1:M:73:ARG:HD3	1:N:279:ARG:NH1	2.29	0.47
1:O:110:TYR:OH	1:O:233:ASP:HA	2.15	0.47
1:O:156:TYR:HB3	1:O:212:LYS:HG2	1.96	0.47
1:P:73:ARG:HD3	1:Q:279:ARG:NH1	2.29	0.47
1:P:131:LEU:HB2	1:P:211:TRP:CH2	2.50	0.47
1:Q:110:TYR:OH	1:Q:233:ASP:HA	2.15	0.47
1:S:131:LEU:HB2	1:S:211:TRP:CH2	2.50	0.47
1:T:131:LEU:HB2	1:T:211:TRP:CH2	2.50	0.47
1:T:309:GLN:NE2	1:T:320:PRO:HG3	2.30	0.47
1:U:73:ARG:HD3	1:5:279:ARG:NH1	2.29	0.47
1:V:279:ARG:NH1	1:W:73:ARG:HD3	2.29	0.47
1:X:126:TYR:OH	1:X:271:HIS:ND1	2.44	0.47
1:X:156:TYR:HB3	1:X:212:LYS:HG2	1.96	0.47
1:Z:131:LEU:HB2	1:Z:211:TRP:CH2	2.50	0.47
1:Z:361:LYS:HG2	1:Z:363:SER:O	2.14	0.47
1:1:131:LEU:HB2	1:1:211:TRP:CH2	2.50	0.47
1:2:156:TYR:HB3	1:2:212:LYS:HG2	1.96	0.47
1:3:62:THR:O	1:3:299:PHE:N	2.48	0.47
1:3:156:TYR:HB3	1:3:212:LYS:HG2	1.96	0.47
1:b:156:TYR:HB3	1:b:212:LYS:HG2	1.96	0.47
1:d:258:ILE:HG21	1:e:242:ASN:HB3	1.96	0.47
1:f:62:THR:O	1:f:299:PHE:N	2.48	0.47
1:f:110:TYR:OH	1:f:233:ASP:HA	2.15	0.47
1:f:131:LEU:HB2	1:f:211:TRP:CH2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:86:ASN:ND2	1:h:345:GLN:O	2.47	0.47
1:h:126:TYR:OH	1:h:271:HIS:ND1	2.44	0.47
1:h:131:LEU:HB2	1:h:211:TRP:CH2	2.50	0.47
1:k:156:TYR:HB3	1:k:212:LYS:HG2	1.96	0.47
1:l:156:TYR:HB3	1:l:212:LYS:HG2	1.96	0.47
1:l:170:VAL:HG12	1:l:178:TRP:HH2	1.79	0.47
1:n:110:TYR:OH	1:n:233:ASP:HA	2.15	0.47
1:o:86:ASN:ND2	1:o:345:GLN:O	2.47	0.47
1:q:242:ASN:HB3	1:s:258:ILE:HG21	1.95	0.47
1:r:239:VAL:CG2	1:r:268:MET:HE2	2.43	0.47
1:r:361:LYS:HG2	1:r:363:SER:O	2.14	0.47
1:s:110:TYR:OH	1:s:233:ASP:HA	2.15	0.47
1:t:279:ARG:NH1	1:x:73:ARG:HD3	2.29	0.47
1:x:309:GLN:NE2	1:x:320:PRO:HG3	2.30	0.47
1:y:131:LEU:HB2	1:y:211:TRP:CH2	2.50	0.47
1:7:62:THR:O	1:7:299:PHE:N	2.48	0.47
1:7:136:ASP:C	1:7:137:GLU:O	2.57	0.47
1:8:239:VAL:CG2	1:8:268:MET:HE2	2.43	0.47
1:A:258:ILE:HG21	1:G:242:ASN:HB3	1.96	0.47
1:B:242:ASN:HB3	1:L:258:ILE:HG21	1.96	0.47
1:B:262:GLY:H	1:L:367:ASP:CG	2.23	0.47
1:C:110:TYR:OH	1:C:233:ASP:HA	2.15	0.47
1:C:312:ASN:OD1	1:L:108:LYS:HG2	2.15	0.47
1:D:156:TYR:HB3	1:D:212:LYS:HG2	1.96	0.47
1:D:182:SER:OG	1:D:187:ASP:OD2	2.19	0.47
1:E:309:GLN:NE2	1:E:320:PRO:HG3	2.30	0.47
1:F:309:GLN:NE2	1:F:320:PRO:HG3	2.30	0.47
1:G:169:LYS:HD3	1:G:343:ASN:ND2	2.30	0.47
1:G:361:LYS:HG2	1:G:363:SER:O	2.14	0.47
1:H:279:ARG:HG3	1:Z:71:ASN:ND2	2.29	0.47
1:I:62:THR:O	1:I:299:PHE:N	2.48	0.47
1:I:131:LEU:HB2	1:I:211:TRP:CH2	2.50	0.47
1:J:131:LEU:HB2	1:J:211:TRP:CH2	2.50	0.47
1:K:136:ASP:C	1:K:137:GLU:O	2.57	0.47
1:K:170:VAL:HG12	1:K:178:TRP:HH2	1.79	0.47
1:K:194:SER:N	1:K:197:ASN:O	2.46	0.47
1:K:279:ARG:NH1	1:7:73:ARG:HD3	2.30	0.47
1:K:279:ARG:HG3	1:7:71:ASN:ND2	2.30	0.47
1:K:367:ASP:CG	1:1:262:GLY:H	2.23	0.47
1:L:73:ARG:HD3	1:2:279:ARG:NH1	2.29	0.47
1:M:279:ARG:NH1	1:3:73:ARG:HD3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:309:GLN:NE2	1:M:320:PRO:HG3	2.30	0.47
1:M:361:LYS:HG2	1:M:363:SER:O	2.14	0.47
1:N:73:ARG:HD3	1:g:279:ARG:NH1	2.30	0.47
1:N:110:TYR:OH	1:N:233:ASP:HA	2.15	0.47
1:N:131:LEU:HB2	1:N:211:TRP:CH2	2.50	0.47
1:N:312:ASN:OD1	1:O:108:LYS:HG2	2.15	0.47
1:O:131:LEU:HB2	1:O:211:TRP:CH2	2.50	0.47
1:O:279:ARG:NH1	1:4:73:ARG:HD3	2.30	0.47
1:Q:136:ASP:C	1:Q:137:GLU:O	2.57	0.47
1:Q:312:ASN:OD1	1:R:108:LYS:HG2	2.15	0.47
1:R:86:ASN:ND2	1:R:345:GLN:O	2.47	0.47
1:R:136:ASP:C	1:R:137:GLU:O	2.57	0.47
1:S:55:LEU:O	1:S:58:VAL:HG12	2.13	0.47
1:T:110:TYR:OH	1:T:233:ASP:HA	2.15	0.47
1:U:312:ASN:OD1	1:V:108:LYS:HG2	2.15	0.47
1:V:62:THR:O	1:V:299:PHE:N	2.48	0.47
1:V:242:ASN:HB3	1:X:258:ILE:HG21	1.96	0.47
1:V:258:ILE:HG21	1:5:242:ASN:HB3	1.95	0.47
1:Y:312:ASN:OD1	1:Z:108:LYS:HG2	2.15	0.47
1:Z:110:TYR:OH	1:Z:233:ASP:HA	2.15	0.47
1:1:62:THR:O	1:1:299:PHE:N	2.48	0.47
1:1:126:TYR:OH	1:1:271:HIS:ND1	2.44	0.47
1:1:136:ASP:C	1:1:137:GLU:O	2.57	0.47
1:1:309:GLN:NE2	1:1:320:PRO:HG3	2.30	0.47
1:2:62:THR:O	1:2:299:PHE:N	2.48	0.47
1:2:86:ASN:ND2	1:2:345:GLN:O	2.47	0.47
1:3:86:ASN:ND2	1:3:345:GLN:O	2.47	0.47
1:3:279:ARG:NH1	1:m:73:ARG:HD3	2.29	0.47
1:4:156:TYR:HB3	1:4:212:LYS:HG2	1.96	0.47
1:4:169:LYS:HD3	1:4:343:ASN:ND2	2.30	0.47
1:5:110:TYR:OH	1:5:233:ASP:HA	2.15	0.47
1:5:194:SER:N	1:5:197:ASN:O	2.46	0.47
1:6:110:TYR:OH	1:6:233:ASP:HA	2.15	0.47
1:6:279:ARG:NH1	1:t:73:ARG:HD3	2.30	0.47
1:a:62:THR:O	1:a:299:PHE:N	2.48	0.47
1:e:194:SER:N	1:e:197:ASN:O	2.46	0.47
1:e:309:GLN:NE2	1:e:320:PRO:HG3	2.30	0.47
1:f:170:VAL:HG12	1:f:178:TRP:HH2	1.79	0.47
1:g:131:LEU:HB2	1:g:211:TRP:CH2	2.50	0.47
1:g:136:ASP:C	1:g:137:GLU:O	2.57	0.47
1:g:182:SER:OG	1:g:187:ASP:OD2	2.19	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:194:SER:N	1:g:197:ASN:O	2.46	0.47
1:g:367:ASP:CG	1:h:262:GLY:H	2.23	0.47
1:h:136:ASP:C	1:h:137:GLU:O	2.57	0.47
1:h:309:GLN:NE2	1:h:320:PRO:HG3	2.30	0.47
1:j:62:THR:O	1:j:299:PHE:N	2.48	0.47
1:j:110:TYR:OH	1:j:233:ASP:HA	2.15	0.47
1:j:312:ASN:OD1	1:m:108:LYS:HG2	2.15	0.47
1:l:131:LEU:HB2	1:l:211:TRP:CH2	2.50	0.47
1:l:136:ASP:C	1:l:137:GLU:O	2.57	0.47
1:m:62:THR:O	1:m:299:PHE:N	2.48	0.47
1:m:170:VAL:HG12	1:m:178:TRP:HH2	1.79	0.47
1:n:156:TYR:HB3	1:n:212:LYS:HG2	1.96	0.47
1:n:309:GLN:NE2	1:n:320:PRO:HG3	2.30	0.47
1:o:110:TYR:OH	1:o:233:ASP:HA	2.15	0.47
1:o:156:TYR:HB3	1:o:212:LYS:HG2	1.96	0.47
1:o:279:ARG:NH1	1:y:73:ARG:HD3	2.29	0.47
1:o:312:ASN:OD1	1:u:108:LYS:HG2	2.14	0.47
1:p:108:LYS:HG2	1:s:312:ASN:OD1	2.15	0.47
1:p:309:GLN:NE2	1:p:320:PRO:HG3	2.30	0.47
1:p:361:LYS:HG2	1:p:363:SER:O	2.14	0.47
1:q:361:LYS:HG2	1:q:363:SER:O	2.14	0.47
1:r:62:THR:O	1:r:299:PHE:N	2.48	0.47
1:t:86:ASN:ND2	1:t:345:GLN:O	2.47	0.47
1:u:86:ASN:ND2	1:u:345:GLN:O	2.47	0.47
1:u:136:ASP:C	1:u:137:GLU:O	2.57	0.47
1:u:361:LYS:HG2	1:u:363:SER:O	2.14	0.47
1:v:73:ARG:HD3	1:w:279:ARG:NH1	2.29	0.47
1:v:108:LYS:HG2	1:x:312:ASN:OD1	2.15	0.47
1:v:131:LEU:HB2	1:v:211:TRP:CH2	2.50	0.47
1:w:73:ARG:HD3	1:8:279:ARG:NH1	2.29	0.47
1:w:156:TYR:HB3	1:w:212:LYS:HG2	1.96	0.47
1:w:169:LYS:HD3	1:w:343:ASN:ND2	2.30	0.47
1:x:110:TYR:OH	1:x:233:ASP:HA	2.15	0.47
1:x:131:LEU:HB2	1:x:211:TRP:CH2	2.50	0.47
1:z:156:TYR:HB3	1:z:212:LYS:HG2	1.96	0.47
1:7:110:TYR:OH	1:7:233:ASP:HA	2.15	0.47
1:7:131:LEU:HB2	1:7:211:TRP:CH2	2.50	0.47
1:8:131:LEU:HB2	1:8:211:TRP:CH2	2.50	0.47
1:8:156:TYR:HB3	1:8:212:LYS:HG2	1.96	0.47
1:B:169:LYS:HD3	1:B:343:ASN:ND2	2.30	0.47
1:B:309:GLN:NE2	1:B:320:PRO:HG3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:62:THR:O	1:E:299:PHE:N	2.48	0.47
1:E:156:TYR:HB3	1:E:212:LYS:HG2	1.96	0.47
1:E:262:GLY:H	1:F:367:ASP:CG	2.23	0.47
1:F:169:LYS:HD3	1:F:343:ASN:ND2	2.30	0.47
1:G:71:ASN:ND2	1:W:279:ARG:HG3	2.29	0.47
1:G:86:ASN:ND2	1:G:345:GLN:O	2.47	0.47
1:G:110:TYR:OH	1:G:233:ASP:HA	2.15	0.47
1:I:110:TYR:OH	1:I:233:ASP:HA	2.15	0.47
1:K:131:LEU:HB2	1:K:211:TRP:CH2	2.50	0.47
1:L:309:GLN:NE2	1:L:320:PRO:HG3	2.30	0.47
1:M:62:THR:O	1:M:299:PHE:N	2.48	0.47
1:O:262:GLY:H	1:h:367:ASP:CG	2.23	0.47
1:P:135:SER:OG	1:P:152:ASN:ND2	2.37	0.47
1:R:279:ARG:NH1	1:V:73:ARG:HD3	2.29	0.47
1:R:309:GLN:NE2	1:R:320:PRO:HG3	2.30	0.47
1:S:108:LYS:HG2	1:T:312:ASN:OD1	2.15	0.47
1:V:279:ARG:HG3	1:W:71:ASN:ND2	2.29	0.47
1:W:136:ASP:C	1:W:137:GLU:O	2.57	0.47
1:W:194:SER:N	1:W:197:ASN:O	2.46	0.47
1:W:309:GLN:NE2	1:W:320:PRO:HG3	2.30	0.47
1:Z:309:GLN:NE2	1:Z:320:PRO:HG3	2.30	0.47
1:2:73:ARG:HD3	1:i:279:ARG:NH1	2.30	0.47
1:2:110:TYR:OH	1:2:233:ASP:HA	2.15	0.47
1:3:110:TYR:OH	1:3:233:ASP:HA	2.15	0.47
1:5:156:TYR:HB3	1:5:212:LYS:HG2	1.96	0.47
1:5:309:GLN:NE2	1:5:320:PRO:HG3	2.30	0.47
1:6:242:ASN:HB3	1:a:258:ILE:HG21	1.96	0.47
1:6:309:GLN:NE2	1:6:320:PRO:HG3	2.30	0.47
1:a:108:LYS:HG2	1:t:312:ASN:OD1	2.15	0.47
1:a:309:GLN:NE2	1:a:320:PRO:HG3	2.30	0.47
1:e:136:ASP:C	1:e:137:GLU:O	2.57	0.47
1:f:309:GLN:NE2	1:f:320:PRO:HG3	2.30	0.47
1:i:361:LYS:HG2	1:i:363:SER:O	2.14	0.47
1:j:136:ASP:C	1:j:137:GLU:O	2.57	0.47
1:j:170:VAL:HG12	1:j:178:TRP:HH2	1.79	0.47
1:k:169:LYS:HD3	1:k:343:ASN:ND2	2.30	0.47
1:k:242:ASN:HB3	1:m:258:ILE:HG21	1.96	0.47
1:k:262:GLY:H	1:m:367:ASP:CG	2.23	0.47
1:k:309:GLN:NE2	1:k:320:PRO:HG3	2.30	0.47
1:m:309:GLN:NE2	1:m:320:PRO:HG3	2.30	0.47
1:n:62:THR:O	1:n:299:PHE:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:136:ASP:C	1:o:137:GLU:O	2.57	0.47
1:p:169:LYS:HD3	1:p:343:ASN:ND2	2.30	0.47
1:q:110:TYR:OH	1:q:233:ASP:HA	2.15	0.47
1:q:169:LYS:HD3	1:q:343:ASN:ND2	2.30	0.47
1:r:110:TYR:OH	1:r:233:ASP:HA	2.15	0.47
1:r:131:LEU:HB2	1:r:211:TRP:CH2	2.50	0.47
1:t:258:ILE:HG21	1:u:242:ASN:HB3	1.96	0.47
1:u:110:TYR:OH	1:u:233:ASP:HA	2.15	0.47
1:8:309:GLN:NE2	1:8:320:PRO:HG3	2.30	0.47
1:C:242:ASN:HB3	1:M:258:ILE:HG21	1.96	0.47
1:E:180:VAL:HG12	1:E:339:SER:OG	2.15	0.47
1:G:136:ASP:C	1:G:137:GLU:O	2.57	0.47
1:G:180:VAL:HG12	1:G:339:SER:OG	2.15	0.47
1:H:110:TYR:OH	1:H:233:ASP:HA	2.15	0.47
1:J:86:ASN:ND2	1:J:345:GLN:O	2.47	0.47
1:O:309:GLN:NE2	1:O:320:PRO:HG3	2.30	0.47
1:Q:156:TYR:HB3	1:Q:212:LYS:HG2	1.96	0.47
1:R:110:TYR:OH	1:R:233:ASP:HA	2.15	0.47
1:R:242:ASN:HB3	1:U:258:ILE:HG21	1.96	0.47
1:R:361:LYS:HG2	1:R:363:SER:O	2.14	0.47
1:S:73:ARG:HD3	1:4:279:ARG:NH1	2.29	0.47
1:U:86:ASN:ND2	1:U:345:GLN:O	2.47	0.47
1:U:169:LYS:HD3	1:U:343:ASN:ND2	2.30	0.47
1:W:131:LEU:HB2	1:W:211:TRP:CH2	2.50	0.47
1:Y:131:LEU:HB2	1:Y:211:TRP:CH2	2.50	0.47
1:Y:135:SER:OG	1:Y:152:ASN:ND2	2.37	0.47
1:Z:170:VAL:HG12	1:Z:178:TRP:HH2	1.79	0.47
1:1:312:ASN:OD1	1:w:108:LYS:HG2	2.15	0.47
1:2:71:ASN:ND2	1:i:279:ARG:HG3	2.29	0.47
1:4:108:LYS:HG2	1:h:312:ASN:OD1	2.15	0.47
1:4:131:LEU:HB2	1:4:211:TRP:CH2	2.50	0.47
1:5:108:LYS:HG2	1:6:312:ASN:OD1	2.15	0.47
1:5:131:LEU:HB2	1:5:211:TRP:CH2	2.50	0.47
1:6:131:LEU:HB2	1:6:211:TRP:CH2	2.50	0.47
1:6:156:TYR:HB3	1:6:212:LYS:HG2	1.96	0.47
1:6:194:SER:N	1:6:197:ASN:O	2.46	0.47
1:a:73:ARG:HD3	1:u:279:ARG:NH1	2.29	0.47
1:d:309:GLN:NE2	1:d:320:PRO:HG3	2.30	0.47
1:e:131:LEU:HB2	1:e:211:TRP:CH2	2.50	0.47
1:h:110:TYR:OH	1:h:233:ASP:HA	2.15	0.47
1:i:62:THR:O	1:i:299:PHE:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:258:ILE:HG21	1:j:242:ASN:HB3	1.96	0.47
1:l:169:LYS:HD3	1:l:343:ASN:ND2	2.30	0.47
1:m:169:LYS:HD3	1:m:343:ASN:ND2	2.30	0.47
1:n:262:GLY:H	1:p:367:ASP:CG	2.23	0.47
1:o:169:LYS:HD3	1:o:343:ASN:ND2	2.30	0.47
1:p:170:VAL:HG12	1:p:178:TRP:HH2	1.79	0.47
1:q:136:ASP:C	1:q:137:GLU:O	2.57	0.47
1:q:258:ILE:HG21	1:r:242:ASN:HB3	1.96	0.47
1:t:169:LYS:HD3	1:t:343:ASN:ND2	2.30	0.47
1:t:367:ASP:CG	1:u:262:GLY:H	2.23	0.47
1:u:309:GLN:NE2	1:u:320:PRO:HG3	2.30	0.47
1:v:169:LYS:HD3	1:v:343:ASN:ND2	2.30	0.47
1:z:110:TYR:OH	1:z:233:ASP:HA	2.15	0.47
1:B:312:ASN:OD1	1:I:108:LYS:HG2	2.15	0.47
1:C:170:VAL:HG12	1:C:178:TRP:HH2	1.79	0.47
1:D:110:TYR:OH	1:D:233:ASP:HA	2.15	0.47
1:F:136:ASP:C	1:F:137:GLU:O	2.57	0.47
1:F:170:VAL:HG12	1:F:178:TRP:HH2	1.79	0.47
1:G:131:LEU:HB2	1:G:211:TRP:CH2	2.50	0.47
1:G:258:ILE:HG21	1:I:242:ASN:HB3	1.96	0.47
1:H:242:ASN:HB3	1:Y:258:ILE:HG21	1.97	0.47
1:H:309:GLN:NE2	1:H:320:PRO:HG3	2.30	0.47
1:I:86:ASN:ND2	1:I:345:GLN:O	2.47	0.47
1:I:156:TYR:HB3	1:I:212:LYS:HG2	1.96	0.47
1:J:169:LYS:HD3	1:J:343:ASN:ND2	2.30	0.47
1:L:169:LYS:HD3	1:L:343:ASN:ND2	2.30	0.47
1:M:131:LEU:HB2	1:M:211:TRP:CH2	2.50	0.47
1:M:279:ARG:HG3	1:3:71:ASN:ND2	2.29	0.47
1:P:62:THR:O	1:P:299:PHE:N	2.48	0.47
1:P:86:ASN:ND2	1:P:345:GLN:O	2.47	0.47
1:P:110:TYR:OH	1:P:233:ASP:HA	2.15	0.47
1:P:309:GLN:NE2	1:P:320:PRO:HG3	2.30	0.47
1:Q:169:LYS:HD3	1:Q:343:ASN:ND2	2.30	0.47
1:R:262:GLY:H	1:U:367:ASP:CG	2.23	0.47
1:S:110:TYR:OH	1:S:233:ASP:HA	2.15	0.47
1:S:169:LYS:HD3	1:S:343:ASN:ND2	2.30	0.47
1:T:62:THR:O	1:T:299:PHE:N	2.48	0.47
1:U:108:LYS:HG2	1:V:312:ASN:OD1	2.15	0.47
1:U:361:LYS:HG2	1:U:363:SER:O	2.14	0.47
1:V:136:ASP:C	1:V:137:GLU:O	2.57	0.47
1:V:309:GLN:NE2	1:V:320:PRO:HG3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:86:ASN:ND2	1:X:345:GLN:O	2.47	0.47
1:X:279:ARG:NH1	1:6:73:ARG:HD3	2.30	0.47
1:Z:262:GLY:H	1:w:367:ASP:CG	2.23	0.47
1:1:110:TYR:OH	1:1:233:ASP:HA	2.15	0.47
1:1:367:ASP:CG	1:8:262:GLY:H	2.23	0.47
1:2:180:VAL:HG12	1:2:339:SER:OG	2.15	0.47
1:3:180:VAL:HG12	1:3:339:SER:OG	2.15	0.47
1:5:312:ASN:OD1	1:6:108:LYS:HG2	2.15	0.47
1:6:367:ASP:CG	1:b:262:GLY:H	2.23	0.47
1:a:169:LYS:HD3	1:a:343:ASN:ND2	2.30	0.47
1:a:262:GLY:H	1:b:367:ASP:CG	2.23	0.47
1:a:312:ASN:OD1	1:t:108:LYS:HG2	2.15	0.47
1:c:131:LEU:HB2	1:c:211:TRP:CH2	2.50	0.47
1:c:169:LYS:HD3	1:c:343:ASN:ND2	2.30	0.47
1:d:110:TYR:OH	1:d:233:ASP:HA	2.15	0.47
1:d:308:VAL:HB	1:e:204:ILE:HG22	1.97	0.47
1:e:180:VAL:HG12	1:e:339:SER:OG	2.15	0.47
1:g:169:LYS:HD3	1:g:343:ASN:ND2	2.30	0.47
1:i:131:LEU:HB2	1:i:211:TRP:CH2	2.50	0.47
1:j:169:LYS:HD3	1:j:343:ASN:ND2	2.30	0.47
1:k:312:ASN:OD1	1:r:108:LYS:HG2	2.15	0.47
1:l:86:ASN:ND2	1:l:345:GLN:O	2.47	0.47
1:n:180:VAL:HG12	1:n:339:SER:OG	2.15	0.47
1:p:110:TYR:OH	1:p:233:ASP:HA	2.15	0.47
1:q:86:ASN:ND2	1:q:345:GLN:O	2.48	0.47
1:r:169:LYS:HD3	1:r:343:ASN:ND2	2.30	0.47
1:t:361:LYS:HG2	1:t:363:SER:O	2.14	0.47
1:u:131:LEU:HB2	1:u:211:TRP:CH2	2.50	0.47
1:v:110:TYR:OH	1:v:233:ASP:HA	2.15	0.47
1:y:62:THR:O	1:y:299:PHE:N	2.48	0.47
1:y:110:TYR:OH	1:y:233:ASP:HA	2.15	0.47
1:z:367:ASP:CG	1:7:262:GLY:H	2.22	0.47
1:A:234:TYR:HA	1:A:330:TYR:CD2	2.51	0.46
1:B:86:ASN:ND2	1:B:345:GLN:O	2.47	0.46
1:C:169:LYS:HD3	1:C:343:ASN:ND2	2.30	0.46
1:F:86:ASN:ND2	1:F:345:GLN:O	2.47	0.46
1:F:110:TYR:OH	1:F:233:ASP:HA	2.15	0.46
1:F:131:LEU:HB2	1:F:211:TRP:CH2	2.50	0.46
1:G:108:LYS:HG2	1:H:312:ASN:OD1	2.15	0.46
1:H:169:LYS:HD3	1:H:343:ASN:ND2	2.30	0.46
1:H:262:GLY:H	1:Y:367:ASP:CG	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:169:LYS:HD3	1:I:343:ASN:ND2	2.30	0.46
1:J:312:ASN:OD1	1:K:108:LYS:HG2	2.15	0.46
1:K:86:ASN:ND2	1:K:345:GLN:O	2.47	0.46
1:K:169:LYS:HD3	1:K:343:ASN:ND2	2.30	0.46
1:L:180:VAL:HG12	1:L:339:SER:OG	2.15	0.46
1:P:85:TRP:CZ2	1:P:268:MET:HB3	2.51	0.46
1:P:234:TYR:HA	1:P:330:TYR:CD2	2.51	0.46
1:Q:180:VAL:HG12	1:Q:339:SER:OG	2.15	0.46
1:R:85:TRP:CZ2	1:R:268:MET:HB3	2.51	0.46
1:R:131:LEU:HB2	1:R:211:TRP:CH2	2.50	0.46
1:R:169:LYS:HD3	1:R:343:ASN:ND2	2.30	0.46
1:T:262:GLY:H	1:f:367:ASP:CG	2.23	0.46
1:T:279:ARG:NH1	1:c:73:ARG:HD3	2.29	0.46
1:V:110:TYR:OH	1:V:233:ASP:HA	2.15	0.46
1:V:169:LYS:HD3	1:V:343:ASN:ND2	2.30	0.46
1:W:180:VAL:HG12	1:W:339:SER:OG	2.15	0.46
1:Y:169:LYS:HD3	1:Y:343:ASN:ND2	2.30	0.46
1:Z:169:LYS:HD3	1:Z:343:ASN:ND2	2.30	0.46
1:1:180:VAL:HG12	1:1:339:SER:OG	2.15	0.46
1:2:311:ILE:HB	1:2:314:VAL:HG22	1.98	0.46
1:3:169:LYS:HD3	1:3:343:ASN:ND2	2.30	0.46
1:3:311:ILE:HB	1:3:314:VAL:HG22	1.98	0.46
1:4:62:THR:O	1:4:299:PHE:N	2.48	0.46
1:4:367:ASP:CG	1:f:262:GLY:H	2.23	0.46
1:5:73:ARG:HD3	1:b:279:ARG:NH1	2.30	0.46
1:6:86:ASN:ND2	1:6:345:GLN:O	2.47	0.46
1:a:110:TYR:OH	1:a:233:ASP:HA	2.15	0.46
1:c:258:ILE:HG21	1:d:242:ASN:HB3	1.97	0.46
1:d:279:ARG:HG3	1:f:71:ASN:ND2	2.29	0.46
1:d:311:ILE:HB	1:d:314:VAL:HG22	1.97	0.46
1:f:169:LYS:HD3	1:f:343:ASN:ND2	2.30	0.46
1:f:180:VAL:HG12	1:f:339:SER:OG	2.15	0.46
1:f:279:ARG:HG3	1:h:71:ASN:ND2	2.29	0.46
1:f:279:ARG:NH1	1:h:73:ARG:HD3	2.29	0.46
1:f:311:ILE:HB	1:f:314:VAL:HG22	1.98	0.46
1:i:86:ASN:ND2	1:i:345:GLN:O	2.47	0.46
1:k:86:ASN:ND2	1:k:345:GLN:O	2.47	0.46
1:k:131:LEU:HB2	1:k:211:TRP:CH2	2.50	0.46
1:n:131:LEU:HB2	1:n:211:TRP:CH2	2.50	0.46
1:p:73:ARG:HD3	1:q:279:ARG:NH1	2.29	0.46
1:p:131:LEU:HB2	1:p:211:TRP:CH2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:136:ASP:C	1:p:137:GLU:O	2.57	0.46
1:q:131:LEU:HB2	1:q:211:TRP:CH2	2.50	0.46
1:s:234:TYR:HA	1:s:330:TYR:CD2	2.51	0.46
1:t:180:VAL:HG12	1:t:339:SER:OG	2.15	0.46
1:u:85:TRP:CZ2	1:u:268:MET:HB3	2.51	0.46
1:w:131:LEU:HB2	1:w:211:TRP:CH2	2.50	0.46
1:x:62:THR:O	1:x:299:PHE:N	2.48	0.46
1:y:85:TRP:CZ2	1:y:268:MET:HB3	2.50	0.46
1:y:86:ASN:ND2	1:y:345:GLN:O	2.47	0.46
1:z:182:SER:OG	1:z:187:ASP:OD2	2.19	0.46
1:7:309:GLN:NE2	1:7:320:PRO:HG3	2.30	0.46
1:B:311:ILE:HB	1:B:314:VAL:HG22	1.98	0.46
1:E:131:LEU:HB2	1:E:211:TRP:CH2	2.50	0.46
1:E:135:SER:OG	1:E:152:ASN:ND2	2.37	0.46
1:E:169:LYS:HD3	1:E:343:ASN:ND2	2.30	0.46
1:F:73:ARG:HD3	1:G:279:ARG:NH1	2.29	0.46
1:H:258:ILE:HG21	1:W:242:ASN:HB3	1.96	0.46
1:H:311:ILE:HB	1:H:314:VAL:HG22	1.98	0.46
1:I:85:TRP:CZ2	1:I:268:MET:HB3	2.51	0.46
1:L:86:ASN:ND2	1:L:345:GLN:O	2.47	0.46
1:L:131:LEU:HB2	1:L:211:TRP:CH2	2.50	0.46
1:M:86:ASN:ND2	1:M:345:GLN:O	2.48	0.46
1:M:262:GLY:H	1:2:367:ASP:CG	2.23	0.46
1:N:108:LYS:HG2	1:O:312:ASN:OD1	2.15	0.46
1:R:62:THR:O	1:R:299:PHE:N	2.48	0.46
1:R:367:ASP:CG	1:S:262:GLY:H	2.22	0.46
1:S:194:SER:N	1:S:197:ASN:O	2.46	0.46
1:T:234:TYR:HA	1:T:330:TYR:CD2	2.51	0.46
1:U:180:VAL:HG12	1:U:339:SER:OG	2.15	0.46
1:V:262:GLY:H	1:X:367:ASP:CG	2.23	0.46
1:W:85:TRP:CZ2	1:W:268:MET:HB3	2.51	0.46
1:X:262:GLY:H	1:5:367:ASP:CG	2.23	0.46
1:Z:180:VAL:HG12	1:Z:339:SER:OG	2.15	0.46
1:Z:367:ASP:CG	1:x:262:GLY:H	2.23	0.46
1:2:169:LYS:HD3	1:2:343:ASN:ND2	2.30	0.46
1:3:309:GLN:NE2	1:3:320:PRO:HG3	2.30	0.46
1:6:85:TRP:CZ2	1:6:268:MET:HB3	2.50	0.46
1:d:169:LYS:HD3	1:d:343:ASN:ND2	2.30	0.46
1:d:279:ARG:NH1	1:f:73:ARG:HD3	2.30	0.46
1:d:312:ASN:OD1	1:q:108:LYS:HG2	2.15	0.46
1:g:73:ARG:HD3	1:m:279:ARG:NH1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:85:TRP:CZ2	1:h:268:MET:HB3	2.51	0.46
1:h:180:VAL:HG12	1:h:339:SER:OG	2.15	0.46
1:i:180:VAL:HG12	1:i:339:SER:OG	2.15	0.46
1:j:279:ARG:NH1	1:z:73:ARG:HD3	2.29	0.46
1:k:311:ILE:HB	1:k:314:VAL:HG22	1.98	0.46
1:m:180:VAL:HG12	1:m:339:SER:OG	2.15	0.46
1:n:135:SER:OG	1:n:152:ASN:ND2	2.37	0.46
1:n:169:LYS:HD3	1:n:343:ASN:ND2	2.30	0.46
1:n:279:ARG:NH1	1:s:73:ARG:HD3	2.29	0.46
1:o:108:LYS:HG2	1:u:312:ASN:OD1	2.15	0.46
1:o:180:VAL:HG12	1:o:339:SER:OG	2.15	0.46
1:o:258:ILE:HG21	1:p:242:ASN:HB3	1.95	0.46
1:p:86:ASN:ND2	1:p:345:GLN:O	2.47	0.46
1:q:180:VAL:HG12	1:q:339:SER:OG	2.15	0.46
1:r:85:TRP:CZ2	1:r:268:MET:HB3	2.51	0.46
1:r:156:TYR:HB3	1:r:212:LYS:HG2	1.96	0.46
1:t:126:TYR:OH	1:t:271:HIS:ND1	2.44	0.46
1:u:169:LYS:HD3	1:u:343:ASN:ND2	2.30	0.46
1:u:367:ASP:CG	1:v:262:GLY:H	2.22	0.46
1:v:85:TRP:CZ2	1:v:268:MET:HB3	2.51	0.46
1:w:110:TYR:OH	1:w:233:ASP:HA	2.15	0.46
1:x:170:VAL:HG12	1:x:178:TRP:HH2	1.79	0.46
1:x:234:TYR:HA	1:x:330:TYR:CD2	2.51	0.46
1:y:234:TYR:HA	1:y:330:TYR:CD2	2.51	0.46
1:y:309:GLN:NE2	1:y:320:PRO:HG3	2.30	0.46
1:7:169:LYS:HD3	1:7:343:ASN:ND2	2.30	0.46
1:A:73:ARG:HD3	1:E:279:ARG:NH1	2.29	0.46
1:A:204:ILE:HG22	1:I:308:VAL:HB	1.98	0.46
1:A:262:GLY:H	1:I:367:ASP:CG	2.23	0.46
1:A:311:ILE:HB	1:A:314:VAL:HG22	1.98	0.46
1:B:110:TYR:OH	1:B:233:ASP:HA	2.15	0.46
1:B:131:LEU:HB2	1:B:211:TRP:CH2	2.50	0.46
1:C:108:LYS:HG2	1:L:312:ASN:OD1	2.15	0.46
1:C:131:LEU:HB2	1:C:211:TRP:CH2	2.50	0.46
1:C:279:ARG:NH1	1:D:73:ARG:HD3	2.29	0.46
1:J:85:TRP:CZ2	1:J:268:MET:HB3	2.51	0.46
1:J:367:ASP:CG	1:L:262:GLY:H	2.23	0.46
1:K:73:ARG:HD3	1:L:279:ARG:NH1	2.29	0.46
1:K:110:TYR:OH	1:K:233:ASP:HA	2.15	0.46
1:K:309:GLN:NE2	1:K:320:PRO:HG3	2.30	0.46
1:M:180:VAL:HG12	1:M:339:SER:OG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:85:TRP:CZ2	1:N:268:MET:HB3	2.51	0.46
1:N:169:LYS:HD3	1:N:343:ASN:ND2	2.30	0.46
1:N:309:GLN:NE2	1:N:320:PRO:HG3	2.30	0.46
1:Q:108:LYS:HG2	1:R:312:ASN:OD1	2.15	0.46
1:S:85:TRP:CZ2	1:S:268:MET:HB3	2.51	0.46
1:T:169:LYS:HD3	1:T:343:ASN:ND2	2.30	0.46
1:U:85:TRP:CZ2	1:U:268:MET:HB3	2.51	0.46
1:U:126:TYR:OH	1:U:271:HIS:ND1	2.44	0.46
1:U:234:TYR:HA	1:U:330:TYR:CD2	2.51	0.46
1:V:131:LEU:HB2	1:V:211:TRP:CH2	2.50	0.46
1:X:110:TYR:OH	1:X:233:ASP:HA	2.15	0.46
1:Y:234:TYR:HA	1:Y:330:TYR:CD2	2.51	0.46
1:Z:279:ARG:HG3	1:1:71:ASN:ND2	2.29	0.46
1:Z:279:ARG:NH1	1:1:73:ARG:HD3	2.29	0.46
1:Z:311:ILE:HB	1:Z:314:VAL:HG22	1.98	0.46
1:1:85:TRP:CZ2	1:1:268:MET:HB3	2.51	0.46
1:4:85:TRP:CZ2	1:4:268:MET:HB3	2.51	0.46
1:4:110:TYR:OH	1:4:233:ASP:HA	2.15	0.46
1:5:85:TRP:CZ2	1:5:268:MET:HB3	2.51	0.46
1:5:86:ASN:ND2	1:5:345:GLN:O	2.47	0.46
1:6:180:VAL:HG12	1:6:339:SER:OG	2.15	0.46
1:c:234:TYR:HA	1:c:330:TYR:CD2	2.51	0.46
1:e:85:TRP:CZ2	1:e:268:MET:HB3	2.51	0.46
1:e:234:TYR:HA	1:e:330:TYR:CD2	2.51	0.46
1:g:86:ASN:ND2	1:g:345:GLN:O	2.47	0.46
1:j:108:LYS:HG2	1:m:312:ASN:OD1	2.15	0.46
1:j:131:LEU:HB2	1:j:211:TRP:CH2	2.50	0.46
1:k:110:TYR:OH	1:k:233:ASP:HA	2.15	0.46
1:l:85:TRP:CZ2	1:l:268:MET:HB3	2.51	0.46
1:l:367:ASP:CG	1:m:262:GLY:H	2.23	0.46
1:m:86:ASN:ND2	1:m:345:GLN:O	2.47	0.46
1:m:131:LEU:HB2	1:m:211:TRP:CH2	2.50	0.46
1:o:309:GLN:NE2	1:o:320:PRO:HG3	2.30	0.46
1:p:234:TYR:HA	1:p:330:TYR:CD2	2.51	0.46
1:q:262:GLY:H	1:s:367:ASP:CG	2.22	0.46
1:s:311:ILE:HB	1:s:314:VAL:HG22	1.98	0.46
1:t:85:TRP:CZ2	1:t:268:MET:HB3	2.51	0.46
1:t:194:SER:N	1:t:197:ASN:O	2.46	0.46
1:u:62:THR:O	1:u:299:PHE:N	2.48	0.46
1:w:85:TRP:CZ2	1:w:268:MET:HB3	2.51	0.46
1:y:135:SER:OG	1:y:152:ASN:ND2	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:169:LYS:HD3	1:y:343:ASN:ND2	2.30	0.46
1:B:308:VAL:HB	1:J:204:ILE:HG22	1.97	0.46
1:D:108:LYS:HG2	1:M:312:ASN:OD1	2.15	0.46
1:F:180:VAL:HG12	1:F:339:SER:OG	2.15	0.46
1:F:234:TYR:HA	1:F:330:TYR:CD2	2.51	0.46
1:F:242:ASN:HB3	1:Q:258:ILE:HG21	1.95	0.46
1:G:312:ASN:OD1	1:H:108:LYS:HG2	2.15	0.46
1:K:361:LYS:HG2	1:K:363:SER:O	2.14	0.46
1:N:194:SER:N	1:N:197:ASN:O	2.46	0.46
1:R:180:VAL:HG12	1:R:339:SER:OG	2.15	0.46
1:T:85:TRP:CZ2	1:T:268:MET:HB3	2.51	0.46
1:T:170:VAL:HG12	1:T:178:TRP:HH2	1.79	0.46
1:U:194:SER:N	1:U:197:ASN:O	2.46	0.46
1:U:311:ILE:HB	1:U:314:VAL:HG22	1.98	0.46
1:V:170:VAL:HG12	1:V:178:TRP:HH2	1.79	0.46
1:W:110:TYR:OH	1:W:233:ASP:HA	2.15	0.46
1:W:234:TYR:HA	1:W:330:TYR:CD2	2.51	0.46
1:X:131:LEU:HB2	1:X:211:TRP:CH2	2.50	0.46
1:Y:110:TYR:OH	1:Y:233:ASP:HA	2.15	0.46
1:1:169:LYS:HD3	1:1:343:ASN:ND2	2.30	0.46
1:2:309:GLN:NE2	1:2:320:PRO:HG3	2.30	0.46
1:3:131:LEU:HB2	1:3:211:TRP:CH2	2.50	0.46
1:3:234:TYR:HA	1:3:330:TYR:CD2	2.51	0.46
1:5:180:VAL:HG12	1:5:339:SER:OG	2.15	0.46
1:a:131:LEU:HB2	1:a:211:TRP:CH2	2.50	0.46
1:a:170:VAL:HG12	1:a:178:TRP:HH2	1.79	0.46
1:b:169:LYS:HD3	1:b:343:ASN:ND2	2.30	0.46
1:b:309:GLN:NE2	1:b:320:PRO:HG3	2.30	0.46
1:f:234:TYR:HA	1:f:330:TYR:CD2	2.51	0.46
1:g:108:LYS:HG2	1:l:312:ASN:OD1	2.15	0.46
1:g:110:TYR:OH	1:g:233:ASP:HA	2.15	0.46
1:g:309:GLN:NE2	1:g:320:PRO:HG3	2.30	0.46
1:g:311:ILE:HB	1:g:314:VAL:HG22	1.98	0.46
1:g:361:LYS:HG2	1:g:363:SER:O	2.14	0.46
1:h:169:LYS:HD3	1:h:343:ASN:ND2	2.30	0.46
1:r:308:VAL:HB	1:s:204:ILE:HG22	1.98	0.46
1:t:234:TYR:HA	1:t:330:TYR:CD2	2.51	0.46
1:t:308:VAL:HB	1:u:204:ILE:HG22	1.98	0.46
1:t:311:ILE:HB	1:t:314:VAL:HG22	1.98	0.46
1:v:312:ASN:OD1	1:x:108:LYS:HG2	2.15	0.46
1:x:85:TRP:CZ2	1:x:268:MET:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:169:LYS:HD3	1:x:343:ASN:ND2	2.30	0.46
1:y:242:ASN:HB3	1:7:258:ILE:HG21	1.97	0.46
1:7:85:TRP:CZ2	1:7:268:MET:HB3	2.51	0.46
1:A:135:SER:HG	1:A:152:ASN:HD21	1.59	0.46
1:A:157:MET:HE3	1:A:273:LEU:HD22	1.98	0.46
1:D:312:ASN:OD1	1:M:108:LYS:HG2	2.15	0.46
1:G:170:VAL:HG12	1:G:178:TRP:HH2	1.79	0.46
1:G:309:GLN:NE2	1:G:320:PRO:HG3	2.30	0.46
1:K:156:TYR:HB3	1:K:212:LYS:HG2	1.96	0.46
1:K:311:ILE:HB	1:K:314:VAL:HG22	1.98	0.46
1:M:234:TYR:HA	1:M:330:TYR:CD2	2.51	0.46
1:N:367:ASP:CG	1:P:262:GLY:H	2.23	0.46
1:O:85:TRP:CZ2	1:O:268:MET:HB3	2.51	0.46
1:O:361:LYS:HG2	1:O:363:SER:O	2.14	0.46
1:P:169:LYS:HD3	1:P:343:ASN:ND2	2.30	0.46
1:Q:309:GLN:NE2	1:Q:320:PRO:HG3	2.30	0.46
1:R:204:ILE:HG22	1:U:308:VAL:HB	1.98	0.46
1:X:85:TRP:CZ2	1:X:268:MET:HB3	2.51	0.46
1:Y:85:TRP:CZ2	1:Y:268:MET:HB3	2.51	0.46
1:Z:234:TYR:HA	1:Z:330:TYR:CD2	2.51	0.46
1:1:108:LYS:HG2	1:w:312:ASN:OD1	2.15	0.46
1:1:194:SER:N	1:1:197:ASN:O	2.46	0.46
1:2:108:LYS:HG2	1:3:312:ASN:OD1	2.15	0.46
1:2:131:LEU:HB2	1:2:211:TRP:CH2	2.50	0.46
1:2:234:TYR:HA	1:2:330:TYR:CD2	2.51	0.46
1:2:312:ASN:OD1	1:3:108:LYS:HG2	2.15	0.46
1:4:312:ASN:OD1	1:h:108:LYS:HG2	2.15	0.46
1:b:85:TRP:CZ2	1:b:268:MET:HB3	2.51	0.46
1:b:110:TYR:OH	1:b:233:ASP:HA	2.15	0.46
1:b:131:LEU:HB2	1:b:211:TRP:CH2	2.50	0.46
1:c:108:LYS:HG2	1:f:312:ASN:OD1	2.16	0.46
1:d:131:LEU:HB2	1:d:211:TRP:CH2	2.50	0.46
1:e:110:TYR:OH	1:e:233:ASP:HA	2.15	0.46
1:e:135:SER:OG	1:e:152:ASN:ND2	2.37	0.46
1:g:156:TYR:HB3	1:g:212:LYS:HG2	1.96	0.46
1:g:312:ASN:OD1	1:l:108:LYS:HG2	2.15	0.46
1:i:108:LYS:HG2	1:z:312:ASN:OD1	2.15	0.46
1:i:312:ASN:OD1	1:z:108:LYS:HG2	2.15	0.46
1:k:180:VAL:HG12	1:k:339:SER:OG	2.15	0.46
1:k:308:VAL:HB	1:l:204:ILE:HG22	1.97	0.46
1:m:311:ILE:HB	1:m:314:VAL:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:85:TRP:CZ2	1:q:268:MET:HB3	2.50	0.46
1:r:86:ASN:ND2	1:r:345:GLN:O	2.47	0.46
1:r:367:ASP:CG	1:s:262:GLY:H	2.23	0.46
1:s:157:MET:HE3	1:s:273:LEU:HD22	1.98	0.46
1:t:262:GLY:H	1:v:367:ASP:CG	2.23	0.46
1:u:180:VAL:HG12	1:u:339:SER:OG	2.15	0.46
1:v:194:SER:N	1:v:197:ASN:O	2.46	0.46
1:z:180:VAL:HG12	1:z:339:SER:OG	2.15	0.46
1:7:194:SER:N	1:7:197:ASN:O	2.46	0.46
1:8:85:TRP:CZ2	1:8:268:MET:HB3	2.51	0.46
1:B:157:MET:HE3	1:B:273:LEU:HD22	1.98	0.46
1:B:180:VAL:HG12	1:B:339:SER:OG	2.15	0.46
1:C:85:TRP:CZ2	1:C:268:MET:HB3	2.51	0.46
1:D:204:ILE:HG22	1:P:308:VAL:HB	1.98	0.46
1:G:85:TRP:CZ2	1:G:268:MET:HB3	2.51	0.46
1:G:238:TYR:CE1	1:G:334:VAL:HG12	2.51	0.46
1:I:365:LEU:HD12	1:I:365:LEU:HA	1.81	0.46
1:J:108:LYS:HG2	1:K:312:ASN:OD1	2.15	0.46
1:K:238:TYR:CE1	1:K:334:VAL:HG12	2.51	0.46
1:L:311:ILE:HB	1:L:314:VAL:HG22	1.98	0.46
1:N:180:VAL:HG12	1:N:339:SER:OG	2.15	0.46
1:N:311:ILE:HB	1:N:314:VAL:HG22	1.98	0.46
1:O:169:LYS:HD3	1:O:343:ASN:ND2	2.30	0.46
1:P:180:VAL:HG12	1:P:339:SER:OG	2.15	0.46
1:P:311:ILE:HB	1:P:314:VAL:HG22	1.98	0.46
1:Q:234:TYR:HA	1:Q:330:TYR:CD2	2.51	0.46
1:S:312:ASN:OD1	1:T:108:LYS:HG2	2.15	0.46
1:V:85:TRP:CZ2	1:V:268:MET:HB3	2.51	0.46
1:V:238:TYR:CE1	1:V:334:VAL:HG12	2.51	0.46
1:X:169:LYS:HD3	1:X:343:ASN:ND2	2.30	0.46
1:X:309:GLN:NE2	1:X:320:PRO:HG3	2.30	0.46
1:Y:108:LYS:HG2	1:Z:312:ASN:OD1	2.16	0.46
1:Y:180:VAL:HG12	1:Y:339:SER:OG	2.15	0.46
1:Y:238:TYR:CE1	1:Y:334:VAL:HG12	2.51	0.46
1:4:234:TYR:HA	1:4:330:TYR:CD2	2.51	0.46
1:a:85:TRP:CZ2	1:a:268:MET:HB3	2.51	0.46
1:a:238:TYR:CE1	1:a:334:VAL:HG12	2.51	0.46
1:c:85:TRP:CZ2	1:c:268:MET:HB3	2.51	0.46
1:c:110:TYR:OH	1:c:233:ASP:HA	2.15	0.46
1:d:108:LYS:HG2	1:q:312:ASN:OD1	2.16	0.46
1:d:180:VAL:HG12	1:d:339:SER:OG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:170:VAL:HG12	1:e:178:TRP:HH2	1.79	0.46
1:i:234:TYR:HA	1:i:330:TYR:CD2	2.51	0.46
1:j:85:TRP:CZ2	1:j:268:MET:HB3	2.51	0.46
1:k:157:MET:HE3	1:k:273:LEU:HD22	1.98	0.46
1:k:234:TYR:HA	1:k:330:TYR:CD2	2.50	0.46
1:m:85:TRP:CZ2	1:m:268:MET:HB3	2.51	0.46
1:o:367:ASP:CG	1:p:262:GLY:H	2.23	0.46
1:p:62:THR:O	1:p:299:PHE:N	2.48	0.46
1:p:85:TRP:CZ2	1:p:268:MET:HB3	2.51	0.46
1:p:180:VAL:HG12	1:p:339:SER:OG	2.15	0.46
1:q:238:TYR:CE1	1:q:334:VAL:HG12	2.51	0.46
1:q:309:GLN:NE2	1:q:320:PRO:HG3	2.30	0.46
1:r:180:VAL:HG12	1:r:339:SER:OG	2.15	0.46
1:s:180:VAL:HG12	1:s:339:SER:OG	2.15	0.46
1:u:308:VAL:HB	1:v:204:ILE:HG22	1.97	0.46
1:v:62:THR:O	1:v:299:PHE:N	2.48	0.46
1:y:180:VAL:HG12	1:y:339:SER:OG	2.15	0.46
1:y:308:VAL:HB	1:z:204:ILE:HG22	1.98	0.46
1:7:180:VAL:HG12	1:7:339:SER:OG	2.15	0.46
1:7:311:ILE:HB	1:7:314:VAL:HG22	1.98	0.46
1:8:169:LYS:HD3	1:8:343:ASN:ND2	2.30	0.46
1:8:361:LYS:HG2	1:8:363:SER:O	2.14	0.46
1:A:180:VAL:HG12	1:A:339:SER:OG	2.15	0.46
1:B:285:PHE:HE2	1:C:134:THR:HG21	1.81	0.46
1:C:180:VAL:HG12	1:C:339:SER:OG	2.15	0.46
1:C:234:TYR:HA	1:C:330:TYR:CD2	2.51	0.46
1:C:367:ASP:CG	1:2:262:GLY:H	2.23	0.46
1:D:180:VAL:HG12	1:D:339:SER:OG	2.15	0.46
1:D:367:ASP:CG	1:N:262:GLY:H	2.23	0.46
1:E:194:SER:N	1:E:197:ASN:O	2.46	0.46
1:F:62:THR:O	1:F:299:PHE:N	2.48	0.46
1:F:85:TRP:CZ2	1:F:268:MET:HB3	2.51	0.46
1:G:311:ILE:HB	1:G:314:VAL:HG22	1.97	0.46
1:H:131:LEU:HB2	1:H:211:TRP:CH2	2.50	0.46
1:H:308:VAL:HB	1:W:204:ILE:HG22	1.98	0.46
1:I:180:VAL:HG12	1:I:339:SER:OG	2.15	0.46
1:J:62:THR:O	1:J:299:PHE:N	2.48	0.46
1:J:180:VAL:HG12	1:J:339:SER:OG	2.15	0.46
1:K:234:TYR:HA	1:K:330:TYR:CD2	2.51	0.46
1:K:285:PHE:HE2	1:7:134:THR:HG21	1.81	0.46
1:L:85:TRP:CZ2	1:L:268:MET:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:169:LYS:HD3	1:M:343:ASN:ND2	2.30	0.46
1:O:234:TYR:HA	1:O:330:TYR:CD2	2.51	0.46
1:R:308:VAL:HB	1:S:204:ILE:HG22	1.97	0.46
1:S:62:THR:O	1:S:299:PHE:N	2.48	0.46
1:S:367:ASP:CG	1:U:262:GLY:H	2.23	0.46
1:U:110:TYR:OH	1:U:233:ASP:HA	2.15	0.46
1:V:311:ILE:HB	1:V:314:VAL:HG22	1.98	0.46
1:W:135:SER:OG	1:W:152:ASN:ND2	2.37	0.46
1:W:157:MET:HE3	1:W:273:LEU:HD22	1.98	0.46
1:Z:85:TRP:CZ2	1:Z:268:MET:HB3	2.51	0.46
1:3:262:GLY:H	1:j:367:ASP:CG	2.23	0.46
1:3:367:ASP:CG	1:i:262:GLY:H	2.23	0.46
1:4:238:TYR:CE1	1:4:334:VAL:HG12	2.51	0.46
1:5:62:THR:O	1:5:299:PHE:N	2.48	0.46
1:5:169:LYS:HD3	1:5:343:ASN:ND2	2.30	0.46
1:6:62:THR:O	1:6:299:PHE:N	2.48	0.46
1:6:169:LYS:HD3	1:6:343:ASN:ND2	2.30	0.46
1:a:204:ILE:HG22	1:b:308:VAL:HB	1.98	0.46
1:a:311:ILE:HB	1:a:314:VAL:HG22	1.98	0.46
1:b:62:THR:O	1:b:299:PHE:N	2.48	0.46
1:b:311:ILE:HB	1:b:314:VAL:HG22	1.97	0.46
1:c:238:TYR:CE1	1:c:334:VAL:HG12	2.51	0.46
1:c:367:ASP:CG	1:d:262:GLY:H	2.24	0.46
1:e:311:ILE:HB	1:e:314:VAL:HG22	1.98	0.46
1:f:85:TRP:CZ2	1:f:268:MET:HB3	2.51	0.46
1:g:234:TYR:HA	1:g:330:TYR:CD2	2.51	0.46
1:g:238:TYR:CE1	1:g:334:VAL:HG12	2.51	0.46
1:h:194:SER:N	1:h:197:ASN:O	2.46	0.46
1:j:134:THR:HG21	1:k:285:PHE:HE2	1.81	0.46
1:l:238:TYR:CE1	1:l:334:VAL:HG12	2.51	0.46
1:n:157:MET:HE3	1:n:273:LEU:HD22	1.98	0.46
1:n:204:ILE:HG22	1:p:308:VAL:HB	1.98	0.46
1:o:157:MET:HE3	1:o:273:LEU:HD22	1.98	0.46
1:o:234:TYR:HA	1:o:330:TYR:CD2	2.51	0.46
1:q:311:ILE:HB	1:q:314:VAL:HG22	1.97	0.46
1:t:110:TYR:OH	1:t:233:ASP:HA	2.15	0.46
1:w:234:TYR:HA	1:w:330:TYR:CD2	2.51	0.46
1:w:238:TYR:CE1	1:w:334:VAL:HG12	2.51	0.46
1:y:157:MET:HE3	1:y:273:LEU:HD22	1.98	0.46
1:y:311:ILE:HB	1:y:314:VAL:HG22	1.98	0.46
1:z:234:TYR:HA	1:z:330:TYR:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:234:TYR:HA	1:8:330:TYR:CD2	2.51	0.46
1:A:108:LYS:HG2	1:F:312:ASN:OD1	2.15	0.46
1:A:367:ASP:CG	1:G:262:GLY:H	2.23	0.46
1:B:234:TYR:HA	1:B:330:TYR:CD2	2.51	0.46
1:D:234:TYR:HA	1:D:330:TYR:CD2	2.51	0.46
1:E:157:MET:HE3	1:E:273:LEU:HD22	1.98	0.46
1:E:204:ILE:HG22	1:F:308:VAL:HB	1.98	0.46
1:E:367:ASP:CG	1:Q:262:GLY:H	2.23	0.46
1:F:238:TYR:CE1	1:F:334:VAL:HG12	2.51	0.46
1:F:262:GLY:H	1:Q:367:ASP:CG	2.23	0.46
1:G:234:TYR:HA	1:G:330:TYR:CD2	2.51	0.46
1:H:62:THR:O	1:H:299:PHE:N	2.48	0.46
1:H:85:TRP:CZ2	1:H:268:MET:HB3	2.51	0.46
1:H:157:MET:HE3	1:H:273:LEU:HD22	1.98	0.46
1:H:180:VAL:HG12	1:H:339:SER:OG	2.15	0.46
1:H:238:TYR:CE1	1:H:334:VAL:HG12	2.51	0.46
1:J:238:TYR:CE1	1:J:334:VAL:HG12	2.51	0.46
1:P:157:MET:HE3	1:P:273:LEU:HD22	1.98	0.46
1:Q:157:MET:HE3	1:Q:273:LEU:HD22	1.98	0.46
1:Q:238:TYR:CE1	1:Q:334:VAL:HG12	2.51	0.46
1:T:279:ARG:HG3	1:c:71:ASN:ND2	2.30	0.46
1:T:285:PHE:HE2	1:c:134:THR:HG21	1.81	0.46
1:W:170:VAL:HG12	1:W:178:TRP:HH2	1.79	0.46
1:W:311:ILE:HB	1:W:314:VAL:HG22	1.97	0.46
1:X:311:ILE:HB	1:X:314:VAL:HG22	1.98	0.46
1:Y:73:ARG:HD3	1:x:279:ARG:NH1	2.30	0.46
1:5:234:TYR:HA	1:5:330:TYR:CD2	2.51	0.46
1:c:180:VAL:HG12	1:c:339:SER:OG	2.15	0.46
1:d:157:MET:HE3	1:d:273:LEU:HD22	1.98	0.46
1:d:238:TYR:CE1	1:d:334:VAL:HG12	2.51	0.46
1:e:157:MET:HE3	1:e:273:LEU:HD22	1.98	0.46
1:f:157:MET:HE3	1:f:273:LEU:HD22	1.98	0.46
1:i:110:TYR:OH	1:i:233:ASP:HA	2.15	0.46
1:j:157:MET:HE3	1:j:273:LEU:HD22	1.98	0.46
1:j:234:TYR:HA	1:j:330:TYR:CD2	2.51	0.46
1:j:309:GLN:NE2	1:j:320:PRO:HG3	2.30	0.46
1:l:180:VAL:HG12	1:l:339:SER:OG	2.15	0.46
1:n:194:SER:N	1:n:197:ASN:O	2.46	0.46
1:o:238:TYR:CE1	1:o:334:VAL:HG12	2.51	0.46
1:p:134:THR:HG21	1:q:285:PHE:HE2	1.81	0.46
1:q:170:VAL:HG12	1:q:178:TRP:HH2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:85:TRP:CZ2	1:s:268:MET:HB3	2.50	0.46
1:x:180:VAL:HG12	1:x:339:SER:OG	2.15	0.46
1:7:108:LYS:HG2	1:8:312:ASN:OD1	2.16	0.46
1:C:136:ASP:C	1:C:137:GLU:O	2.57	0.46
1:C:157:MET:HE3	1:C:273:LEU:HD22	1.98	0.46
1:D:238:TYR:CE1	1:D:334:VAL:HG12	2.51	0.46
1:T:180:VAL:HG12	1:T:339:SER:OG	2.15	0.46
1:V:234:TYR:HA	1:V:330:TYR:CD2	2.51	0.46
1:V:367:ASP:CG	1:5:262:GLY:H	2.23	0.46
1:W:312:ASN:OD1	1:X:108:LYS:HG2	2.15	0.46
1:X:62:THR:O	1:X:299:PHE:N	2.48	0.46
1:Z:238:TYR:CE1	1:Z:334:VAL:HG12	2.51	0.46
1:6:234:TYR:HA	1:6:330:TYR:CD2	2.51	0.46
1:a:194:SER:N	1:a:197:ASN:O	2.46	0.46
1:a:234:TYR:HA	1:a:330:TYR:CD2	2.51	0.46
1:c:309:GLN:NE2	1:c:320:PRO:HG3	2.30	0.46
1:d:85:TRP:CZ2	1:d:268:MET:HB3	2.51	0.46
1:e:279:ARG:HG3	1:q:71:ASN:HD22	1.81	0.46
1:h:311:ILE:HB	1:h:314:VAL:HG22	1.98	0.46
1:i:169:LYS:HD3	1:i:343:ASN:ND2	2.30	0.46
1:j:180:VAL:HG12	1:j:339:SER:OG	2.15	0.46
1:n:108:LYS:HG2	1:y:312:ASN:OD1	2.15	0.46
1:n:238:TYR:CE1	1:n:334:VAL:HG12	2.51	0.46
1:n:367:ASP:CG	1:o:262:GLY:H	2.23	0.46
1:p:238:TYR:CE1	1:p:334:VAL:HG12	2.51	0.46
1:q:234:TYR:HA	1:q:330:TYR:CD2	2.51	0.46
1:s:135:SER:HG	1:s:152:ASN:HD21	1.59	0.46
1:t:131:LEU:HB2	1:t:211:TRP:CH2	2.50	0.46
1:z:85:TRP:CZ2	1:z:268:MET:HB3	2.51	0.46
1:z:238:TYR:CE1	1:z:334:VAL:HG12	2.51	0.46
1:A:62:THR:O	1:A:299:PHE:N	2.48	0.46
1:A:85:TRP:CZ2	1:A:268:MET:HB3	2.51	0.46
1:A:134:THR:HG21	1:E:285:PHE:HE2	1.81	0.46
1:A:182:SER:OG	1:A:187:ASP:OD2	2.19	0.46
1:E:238:TYR:CE1	1:E:334:VAL:HG12	2.51	0.46
1:F:134:THR:HG21	1:G:285:PHE:HE2	1.81	0.46
1:F:204:ILE:HG22	1:Q:308:VAL:HB	1.98	0.46
1:M:110:TYR:OH	1:M:233:ASP:HA	2.15	0.46
1:M:194:SER:N	1:M:197:ASN:O	2.46	0.46
1:M:238:TYR:CE1	1:M:334:VAL:HG12	2.51	0.46
1:O:238:TYR:CE1	1:O:334:VAL:HG12	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:131:LEU:HB2	1:Q:211:TRP:CH2	2.50	0.46
1:R:238:TYR:CE1	1:R:334:VAL:HG12	2.51	0.46
1:S:234:TYR:HA	1:S:330:TYR:CD2	2.51	0.46
1:T:204:ILE:HG22	1:f:308:VAL:HB	1.98	0.46
1:U:131:LEU:HB2	1:U:211:TRP:CH2	2.50	0.46
1:W:108:LYS:HG2	1:X:312:ASN:OD1	2.15	0.46
1:W:238:TYR:CE1	1:W:334:VAL:HG12	2.51	0.46
1:X:234:TYR:HA	1:X:330:TYR:CD2	2.51	0.46
1:Z:157:MET:HE3	1:Z:273:LEU:HD22	1.98	0.46
1:Z:308:VAL:HB	1:x:204:ILE:HG22	1.98	0.46
1:1:234:TYR:HA	1:1:330:TYR:CD2	2.51	0.46
1:a:136:ASP:C	1:a:137:GLU:O	2.57	0.46
1:d:62:THR:O	1:d:299:PHE:N	2.48	0.46
1:d:250:GLY:CA	1:d:331:GLY:HA2	2.46	0.46
1:f:238:TYR:CE1	1:f:334:VAL:HG12	2.51	0.46
1:i:194:SER:N	1:i:197:ASN:O	2.46	0.46
1:i:238:TYR:CE1	1:i:334:VAL:HG12	2.51	0.46
1:l:234:TYR:HA	1:l:330:TYR:CD2	2.51	0.46
1:o:131:LEU:HB2	1:o:211:TRP:CH2	2.50	0.46
1:p:311:ILE:HB	1:p:314:VAL:HG22	1.98	0.46
1:p:312:ASN:OD1	1:s:108:LYS:HG2	2.15	0.46
1:s:62:THR:O	1:s:299:PHE:N	2.48	0.46
1:s:182:SER:OG	1:s:187:ASP:OD2	2.19	0.46
1:u:238:TYR:CE1	1:u:334:VAL:HG12	2.51	0.46
1:v:126:TYR:OH	1:v:271:HIS:ND1	2.43	0.46
1:v:234:TYR:HA	1:v:330:TYR:CD2	2.51	0.46
1:v:238:TYR:CE1	1:v:334:VAL:HG12	2.51	0.46
1:x:238:TYR:CE1	1:x:334:VAL:HG12	2.51	0.46
1:7:250:GLY:CA	1:7:331:GLY:HA2	2.47	0.46
1:8:238:TYR:CE1	1:8:334:VAL:HG12	2.51	0.46
1:C:309:GLN:NE2	1:C:320:PRO:HG3	2.30	0.45
1:D:85:TRP:CZ2	1:D:268:MET:HB3	2.51	0.45
1:E:85:TRP:CZ2	1:E:268:MET:HB3	2.51	0.45
1:E:312:ASN:OD1	1:P:108:LYS:HG2	2.15	0.45
1:F:285:PHE:HE2	1:R:134:THR:HG21	1.82	0.45
1:F:311:ILE:HB	1:F:314:VAL:HG22	1.98	0.45
1:G:157:MET:HE3	1:G:273:LEU:HD22	1.98	0.45
1:H:250:GLY:CA	1:H:331:GLY:HA2	2.47	0.45
1:H:367:ASP:CG	1:W:262:GLY:H	2.23	0.45
1:J:234:TYR:HA	1:J:330:TYR:CD2	2.51	0.45
1:K:250:GLY:CA	1:K:331:GLY:HA2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:262:GLY:H	1:8:367:ASP:CG	2.23	0.45
1:N:250:GLY:CA	1:N:331:GLY:HA2	2.47	0.45
1:O:367:ASP:CG	1:g:262:GLY:H	2.23	0.45
1:R:311:ILE:HB	1:R:314:VAL:HG22	1.98	0.45
1:S:126:TYR:OH	1:S:271:HIS:ND1	2.44	0.45
1:S:238:TYR:CE1	1:S:334:VAL:HG12	2.51	0.45
1:T:238:TYR:CE1	1:T:334:VAL:HG12	2.51	0.45
1:T:308:VAL:HB	1:4:204:ILE:HG22	1.98	0.45
1:U:238:TYR:CE1	1:U:334:VAL:HG12	2.51	0.45
1:V:157:MET:HE3	1:V:273:LEU:HD22	1.98	0.45
1:V:204:ILE:HG22	1:X:308:VAL:HB	1.99	0.45
1:X:238:TYR:CE1	1:X:334:VAL:HG12	2.51	0.45
1:Y:71:ASN:ND2	1:x:279:ARG:HG3	2.30	0.45
1:Y:309:GLN:NE2	1:Y:320:PRO:HG3	2.30	0.45
1:1:311:ILE:HB	1:1:314:VAL:HG22	1.98	0.45
1:6:126:TYR:OH	1:6:271:HIS:ND1	2.44	0.45
1:6:262:GLY:H	1:a:367:ASP:CG	2.23	0.45
1:a:61:ARG:HG2	1:a:300:GLU:HG2	1.99	0.45
1:b:234:TYR:HA	1:b:330:TYR:CD2	2.51	0.45
1:b:238:TYR:CE1	1:b:334:VAL:HG12	2.51	0.45
1:e:86:ASN:ND2	1:e:345:GLN:O	2.47	0.45
1:e:238:TYR:CE1	1:e:334:VAL:HG12	2.51	0.45
1:g:250:GLY:CA	1:g:331:GLY:HA2	2.46	0.45
1:i:85:TRP:CZ2	1:i:268:MET:HB3	2.51	0.45
1:n:85:TRP:CZ2	1:n:268:MET:HB3	2.51	0.45
1:n:285:PHE:HE2	1:s:134:THR:HG21	1.82	0.45
1:o:308:VAL:HB	1:p:204:ILE:HG22	1.98	0.45
1:q:157:MET:HE3	1:q:273:LEU:HD22	1.98	0.45
1:s:169:LYS:HD3	1:s:343:ASN:ND2	2.30	0.45
1:u:234:TYR:HA	1:u:330:TYR:CD2	2.50	0.45
1:w:204:ILE:HG22	1:x:308:VAL:HB	1.98	0.45
1:8:311:ILE:HB	1:8:314:VAL:HG22	1.98	0.45
1:A:169:LYS:HD3	1:A:343:ASN:ND2	2.30	0.45
1:B:62:THR:O	1:B:299:PHE:N	2.48	0.45
1:C:194:SER:N	1:C:197:ASN:O	2.46	0.45
1:C:238:TYR:CE1	1:C:334:VAL:HG12	2.51	0.45
1:D:169:LYS:HD3	1:D:343:ASN:ND2	2.30	0.45
1:E:108:LYS:HG2	1:P:312:ASN:OD1	2.15	0.45
1:H:234:TYR:HA	1:H:330:TYR:CD2	2.51	0.45
1:I:311:ILE:HB	1:I:314:VAL:HG22	1.97	0.45
1:J:250:GLY:CA	1:J:331:GLY:HA2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:134:THR:HG21	1:L:285:PHE:HE2	1.81	0.45
1:R:157:MET:HE3	1:R:273:LEU:HD22	1.98	0.45
1:R:234:TYR:HA	1:R:330:TYR:CD2	2.51	0.45
1:R:285:PHE:HE2	1:V:134:THR:HG21	1.81	0.45
1:T:157:MET:HE3	1:T:273:LEU:HD22	1.98	0.45
1:W:169:LYS:HD3	1:W:343:ASN:ND2	2.30	0.45
1:W:308:VAL:HB	1:Y:204:ILE:HG22	1.98	0.45
1:X:157:MET:HE3	1:X:273:LEU:HD22	1.98	0.45
1:Y:157:MET:HE3	1:Y:273:LEU:HD22	1.98	0.45
1:6:308:VAL:HB	1:b:204:ILE:HG22	1.98	0.45
1:6:311:ILE:HB	1:6:314:VAL:HG22	1.98	0.45
1:a:180:VAL:HG12	1:a:339:SER:OG	2.15	0.45
1:b:157:MET:HE3	1:b:273:LEU:HD22	1.98	0.45
1:c:157:MET:HE3	1:c:273:LEU:HD22	1.98	0.45
1:d:234:TYR:HA	1:d:330:TYR:CD2	2.51	0.45
1:h:62:THR:O	1:h:299:PHE:N	2.48	0.45
1:h:234:TYR:HA	1:h:330:TYR:CD2	2.51	0.45
1:j:238:TYR:CE1	1:j:334:VAL:HG12	2.51	0.45
1:k:62:THR:O	1:k:299:PHE:N	2.48	0.45
1:k:85:TRP:CZ2	1:k:268:MET:HB3	2.51	0.45
1:l:62:THR:O	1:l:299:PHE:N	2.48	0.45
1:n:250:GLY:CA	1:n:331:GLY:HA2	2.47	0.45
1:n:312:ASN:OD1	1:y:108:LYS:HG2	2.15	0.45
1:p:285:PHE:HE2	1:u:134:THR:HG21	1.82	0.45
1:r:234:TYR:HA	1:r:330:TYR:CD2	2.51	0.45
1:u:157:MET:HE3	1:u:273:LEU:HD22	1.98	0.45
1:u:311:ILE:HB	1:u:314:VAL:HG22	1.98	0.45
1:w:250:GLY:CA	1:w:331:GLY:HA2	2.47	0.45
1:w:311:ILE:HB	1:w:314:VAL:HG22	1.98	0.45
1:x:157:MET:HE3	1:x:273:LEU:HD22	1.98	0.45
1:y:204:ILE:HG22	1:7:308:VAL:HB	1.96	0.45
1:z:308:VAL:HB	1:7:204:ILE:HG22	1.98	0.45
1:B:85:TRP:CZ2	1:B:268:MET:HB3	2.51	0.45
1:C:262:GLY:H	1:M:367:ASP:CG	2.23	0.45
1:D:250:GLY:CA	1:D:331:GLY:HA2	2.47	0.45
1:E:250:GLY:CA	1:E:331:GLY:HA2	2.47	0.45
1:G:61:ARG:HG2	1:G:300:GLU:HG2	1.99	0.45
1:G:134:THR:HG21	1:W:285:PHE:HE2	1.81	0.45
1:H:134:THR:HG21	1:I:285:PHE:HE2	1.82	0.45
1:I:234:TYR:HA	1:I:330:TYR:CD2	2.51	0.45
1:J:308:VAL:HB	1:L:204:ILE:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:85:TRP:CZ2	1:M:268:MET:HB3	2.51	0.45
1:N:234:TYR:HA	1:N:330:TYR:CD2	2.51	0.45
1:O:180:VAL:HG12	1:O:339:SER:OG	2.15	0.45
1:Q:250:GLY:CA	1:Q:331:GLY:HA2	2.46	0.45
1:S:134:THR:HG21	1:4:285:PHE:HE2	1.82	0.45
1:T:126:TYR:OH	1:T:271:HIS:ND1	2.43	0.45
1:T:365:LEU:HD12	1:T:365:LEU:HA	1.81	0.45
1:V:180:VAL:HG12	1:V:339:SER:OG	2.15	0.45
1:V:194:SER:N	1:V:197:ASN:O	2.47	0.45
1:W:86:ASN:ND2	1:W:345:GLN:O	2.47	0.45
1:X:180:VAL:HG12	1:X:339:SER:OG	2.15	0.45
1:4:180:VAL:HG12	1:4:339:SER:OG	2.15	0.45
1:4:250:GLY:CA	1:4:331:GLY:HA2	2.47	0.45
1:4:311:ILE:HB	1:4:314:VAL:HG22	1.98	0.45
1:5:311:ILE:HB	1:5:314:VAL:HG22	1.97	0.45
1:6:135:SER:HG	1:6:152:ASN:HD21	1.59	0.45
1:a:134:THR:HG21	1:u:285:PHE:HE2	1.81	0.45
1:a:157:MET:HE3	1:a:273:LEU:HD22	1.98	0.45
1:b:180:VAL:HG12	1:b:339:SER:OG	2.15	0.45
1:c:61:ARG:HG2	1:c:300:GLU:HG2	1.99	0.45
1:e:169:LYS:HD3	1:e:343:ASN:ND2	2.30	0.45
1:e:365:LEU:HD12	1:e:365:LEU:HA	1.81	0.45
1:h:61:ARG:HG2	1:h:300:GLU:HG2	1.99	0.45
1:i:134:THR:HG21	1:7:285:PHE:HE2	1.81	0.45
1:j:194:SER:N	1:j:197:ASN:O	2.46	0.45
1:j:311:ILE:HB	1:j:314:VAL:HG22	1.98	0.45
1:l:110:TYR:OH	1:l:233:ASP:HA	2.15	0.45
1:l:250:GLY:CA	1:l:331:GLY:HA2	2.46	0.45
1:o:250:GLY:CA	1:o:331:GLY:HA2	2.47	0.45
1:r:311:ILE:HB	1:r:314:VAL:HG22	1.97	0.45
1:s:238:TYR:CE1	1:s:334:VAL:HG12	2.51	0.45
1:t:238:TYR:CE1	1:t:334:VAL:HG12	2.51	0.45
1:v:134:THR:HG21	1:w:285:PHE:HE2	1.82	0.45
1:z:169:LYS:HD3	1:z:343:ASN:ND2	2.30	0.45
1:A:238:TYR:CE1	1:A:334:VAL:HG12	2.51	0.45
1:C:311:ILE:HB	1:C:314:VAL:HG22	1.98	0.45
1:D:131:LEU:HB2	1:D:211:TRP:CH2	2.50	0.45
1:D:308:VAL:HB	1:N:204:ILE:HG22	1.98	0.45
1:F:157:MET:HE3	1:F:273:LEU:HD22	1.98	0.45
1:G:120:ARG:HA	1:G:121:PRO:HD3	1.86	0.45
1:I:250:GLY:CA	1:I:331:GLY:HA2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:110:TYR:OH	1:J:233:ASP:HA	2.15	0.45
1:O:157:MET:HE3	1:O:273:LEU:HD22	1.98	0.45
1:O:311:ILE:HB	1:O:314:VAL:HG22	1.98	0.45
1:Q:85:TRP:CZ2	1:Q:268:MET:HB3	2.51	0.45
1:Q:311:ILE:HB	1:Q:314:VAL:HG22	1.98	0.45
1:S:311:ILE:HB	1:S:314:VAL:HG22	1.98	0.45
1:T:311:ILE:HB	1:T:314:VAL:HG22	1.98	0.45
1:V:61:ARG:HG2	1:V:300:GLU:HG2	1.99	0.45
1:V:308:VAL:HB	1:5:204:ILE:HG22	1.98	0.45
1:W:365:LEU:HD12	1:W:365:LEU:HA	1.81	0.45
1:X:134:THR:HG21	1:Y:285:PHE:HE2	1.81	0.45
1:X:204:ILE:HG22	1:5:308:VAL:HB	1.98	0.45
1:Y:61:ARG:HG2	1:Y:300:GLU:HG2	1.99	0.45
1:Y:134:THR:HG21	1:x:285:PHE:HE2	1.81	0.45
1:1:61:ARG:HG2	1:1:300:GLU:HG2	1.99	0.45
1:2:61:ARG:HG2	1:2:300:GLU:HG2	1.99	0.45
1:2:238:TYR:CE1	1:2:334:VAL:HG12	2.51	0.45
1:3:61:ARG:HG2	1:3:300:GLU:HG2	1.99	0.45
1:5:126:TYR:OH	1:5:271:HIS:ND1	2.43	0.45
1:5:135:SER:HG	1:5:152:ASN:HD21	1.59	0.45
1:5:238:TYR:CE1	1:5:334:VAL:HG12	2.51	0.45
1:6:204:ILE:HG22	1:a:308:VAL:HB	1.98	0.45
1:6:285:PHE:HE2	1:t:134:THR:HG21	1.82	0.45
1:g:134:THR:HG21	1:m:285:PHE:HE2	1.82	0.45
1:o:311:ILE:HB	1:o:314:VAL:HG22	1.97	0.45
1:p:157:MET:HE3	1:p:273:LEU:HD22	1.98	0.45
1:q:61:ARG:HG2	1:q:300:GLU:HG2	1.99	0.45
1:r:250:GLY:CA	1:r:331:GLY:HA2	2.46	0.45
1:t:157:MET:HE3	1:t:273:LEU:HD22	1.98	0.45
1:v:311:ILE:HB	1:v:314:VAL:HG22	1.98	0.45
1:w:180:VAL:HG12	1:w:339:SER:OG	2.15	0.45
1:7:99:TYR:HE1	1:8:314:VAL:HG11	1.82	0.45
1:A:131:LEU:HB2	1:A:211:TRP:CH2	2.50	0.45
1:B:172:PRO:HB3	1:B:178:TRP:CD1	2.52	0.45
1:D:61:ARG:HG2	1:D:300:GLU:HG2	1.99	0.45
1:F:172:PRO:HB3	1:F:178:TRP:CD1	2.52	0.45
1:G:250:GLY:CA	1:G:331:GLY:HA2	2.47	0.45
1:G:367:ASP:CG	1:I:262:GLY:H	2.23	0.45
1:H:285:PHE:HE2	1:Z:134:THR:HG21	1.81	0.45
1:I:157:MET:HE3	1:I:273:LEU:HD22	1.98	0.45
1:I:246:MET:HB2	1:I:332:SER:OG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:180:VAL:HG12	1:K:339:SER:OG	2.15	0.45
1:L:194:SER:N	1:L:197:ASN:O	2.46	0.45
1:L:238:TYR:CE1	1:L:334:VAL:HG12	2.51	0.45
1:P:238:TYR:CE1	1:P:334:VAL:HG12	2.51	0.45
1:S:250:GLY:CA	1:S:331:GLY:HA2	2.46	0.45
1:U:134:THR:HG21	1:5:285:PHE:HE2	1.82	0.45
1:U:157:MET:HE3	1:U:273:LEU:HD22	1.98	0.45
1:V:285:PHE:HE2	1:W:134:THR:HG21	1.82	0.45
1:2:250:GLY:CA	1:2:331:GLY:HA2	2.47	0.45
1:3:85:TRP:CZ2	1:3:268:MET:HB3	2.50	0.45
1:3:238:TYR:CE1	1:3:334:VAL:HG12	2.51	0.45
1:4:86:ASN:ND2	1:4:345:GLN:O	2.47	0.45
1:6:238:TYR:CE1	1:6:334:VAL:HG12	2.51	0.45
1:e:285:PHE:CE1	1:q:149:THR:HG23	2.48	0.45
1:g:180:VAL:HG12	1:g:339:SER:OG	2.15	0.45
1:k:172:PRO:HB3	1:k:178:TRP:CD1	2.52	0.45
1:m:238:TYR:CE1	1:m:334:VAL:HG12	2.51	0.45
1:n:172:PRO:HB3	1:n:178:TRP:CD1	2.52	0.45
1:n:234:TYR:HA	1:n:330:TYR:CD2	2.51	0.45
1:o:85:TRP:CZ2	1:o:268:MET:HB3	2.51	0.45
1:p:172:PRO:HB3	1:p:178:TRP:CD1	2.52	0.45
1:r:246:MET:HB2	1:r:332:SER:OG	2.17	0.45
1:t:285:PHE:HE2	1:x:134:THR:HG21	1.81	0.45
1:w:86:ASN:ND2	1:w:345:GLN:O	2.47	0.45
1:x:126:TYR:OH	1:x:271:HIS:ND1	2.43	0.45
1:y:262:GLY:H	1:7:367:ASP:CG	2.24	0.45
1:z:250:GLY:CA	1:z:331:GLY:HA2	2.47	0.45
1:7:234:TYR:HA	1:7:330:TYR:CD2	2.51	0.45
1:8:157:MET:HE3	1:8:273:LEU:HD22	1.98	0.45
1:8:180:VAL:HG12	1:8:339:SER:OG	2.15	0.45
1:B:204:ILE:HG22	1:L:308:VAL:HB	1.97	0.45
1:B:246:MET:HB2	1:B:332:SER:OG	2.17	0.45
1:D:157:MET:HE3	1:D:273:LEU:HD22	1.98	0.45
1:E:160:SER:HB2	1:E:272:TYR:HB2	1.99	0.45
1:E:172:PRO:HB3	1:E:178:TRP:CD1	2.52	0.45
1:E:234:TYR:HA	1:E:330:TYR:CD2	2.51	0.45
1:I:160:SER:HB2	1:I:272:TYR:HB2	1.99	0.45
1:J:134:THR:HG21	1:1:285:PHE:HE2	1.82	0.45
1:L:234:TYR:HA	1:L:330:TYR:CD2	2.51	0.45
1:M:172:PRO:HB3	1:M:178:TRP:CD1	2.52	0.45
1:N:157:MET:HE3	1:N:273:LEU:HD22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:204:ILE:HG22	1:h:308:VAL:HB	1.98	0.45
1:S:180:VAL:HG12	1:S:339:SER:OG	2.15	0.45
1:S:246:MET:HB2	1:S:332:SER:OG	2.17	0.45
1:S:308:VAL:HB	1:U:204:ILE:HG22	1.98	0.45
1:T:134:THR:HG21	1:U:285:PHE:HE2	1.81	0.45
1:U:62:THR:O	1:U:299:PHE:N	2.48	0.45
1:V:160:SER:HB2	1:V:272:TYR:HB2	1.99	0.45
1:Z:250:GLY:CA	1:Z:331:GLY:HA2	2.47	0.45
1:1:308:VAL:HB	1:8:204:ILE:HG22	1.98	0.45
1:2:85:TRP:CZ2	1:2:268:MET:HB3	2.50	0.45
1:3:157:MET:HE3	1:3:273:LEU:HD22	1.98	0.45
1:3:250:GLY:CA	1:3:331:GLY:HA2	2.47	0.45
1:5:157:MET:HE3	1:5:273:LEU:HD22	1.98	0.45
1:5:172:PRO:HB3	1:5:178:TRP:CD1	2.52	0.45
1:5:250:GLY:CA	1:5:331:GLY:HA2	2.47	0.45
1:6:157:MET:HE3	1:6:273:LEU:HD22	1.98	0.45
1:6:172:PRO:HB3	1:6:178:TRP:CD1	2.52	0.45
1:6:250:GLY:CA	1:6:331:GLY:HA2	2.47	0.45
1:a:160:SER:HB2	1:a:272:TYR:HB2	1.99	0.45
1:c:262:GLY:H	1:e:367:ASP:CG	2.25	0.45
1:d:134:THR:HG21	1:r:285:PHE:HE2	1.82	0.45
1:f:250:GLY:CA	1:f:331:GLY:HA2	2.47	0.45
1:h:285:PHE:HE2	1:l:134:THR:HG21	1.82	0.45
1:i:367:ASP:CG	1:j:262:GLY:H	2.23	0.45
1:j:126:TYR:OH	1:j:271:HIS:ND1	2.44	0.45
1:k:246:MET:HB2	1:k:332:SER:OG	2.17	0.45
1:l:157:MET:HE3	1:l:273:LEU:HD22	1.98	0.45
1:m:61:ARG:HG2	1:m:300:GLU:HG2	1.99	0.45
1:m:246:MET:HB2	1:m:332:SER:OG	2.17	0.45
1:n:160:SER:HB2	1:n:272:TYR:HB2	1.99	0.45
1:q:250:GLY:CA	1:q:331:GLY:HA2	2.47	0.45
1:r:157:MET:HE3	1:r:273:LEU:HD22	1.98	0.45
1:r:160:SER:HB2	1:r:272:TYR:HB2	1.99	0.45
1:r:238:TYR:CE1	1:r:334:VAL:HG12	2.51	0.45
1:s:246:MET:HB2	1:s:332:SER:OG	2.17	0.45
1:t:62:THR:O	1:t:299:PHE:N	2.48	0.45
1:v:246:MET:HB2	1:v:332:SER:OG	2.17	0.45
1:v:250:GLY:CA	1:v:331:GLY:HA2	2.46	0.45
1:x:311:ILE:HB	1:x:314:VAL:HG22	1.98	0.45
1:y:238:TYR:CE1	1:y:334:VAL:HG12	2.51	0.45
1:z:61:ARG:HG2	1:z:300:GLU:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:131:LEU:HB2	1:z:211:TRP:CH2	2.50	0.45
1:z:157:MET:HE3	1:z:273:LEU:HD22	1.98	0.45
1:7:238:TYR:CE1	1:7:334:VAL:HG12	2.51	0.45
1:A:246:MET:HB2	1:A:332:SER:OG	2.17	0.45
1:A:308:VAL:HB	1:G:204:ILE:HG22	1.98	0.45
1:E:308:VAL:HB	1:Q:204:ILE:HG22	1.98	0.45
1:G:172:PRO:HB3	1:G:178:TRP:CD1	2.52	0.45
1:H:160:SER:HB2	1:H:272:TYR:HB2	1.99	0.45
1:I:172:PRO:HB3	1:I:178:TRP:CD1	2.52	0.45
1:I:238:TYR:CE1	1:I:334:VAL:HG12	2.51	0.45
1:J:61:ARG:HG2	1:J:300:GLU:HG2	1.99	0.45
1:J:157:MET:HE3	1:J:273:LEU:HD22	1.98	0.45
1:K:204:ILE:HG22	1:8:308:VAL:HB	1.98	0.45
1:L:61:ARG:HG2	1:L:300:GLU:HG2	1.99	0.45
1:L:126:TYR:OH	1:L:271:HIS:ND1	2.44	0.45
1:L:246:MET:HB2	1:L:332:SER:OG	2.17	0.45
1:M:61:ARG:HG2	1:M:300:GLU:HG2	1.99	0.45
1:M:134:THR:HG21	1:N:285:PHE:HE2	1.81	0.45
1:M:311:ILE:HB	1:M:314:VAL:HG22	1.98	0.45
1:N:134:THR:HG21	1:g:285:PHE:HE2	1.82	0.45
1:N:238:TYR:CE1	1:N:334:VAL:HG12	2.51	0.45
1:P:250:GLY:CA	1:P:331:GLY:HA2	2.46	0.45
1:Q:62:THR:O	1:Q:299:PHE:N	2.48	0.45
1:R:246:MET:HB2	1:R:332:SER:OG	2.17	0.45
1:R:250:GLY:CA	1:R:331:GLY:HA2	2.47	0.45
1:V:250:GLY:CA	1:V:331:GLY:HA2	2.47	0.45
1:5:160:SER:HB2	1:5:272:TYR:HB2	1.99	0.45
1:a:126:TYR:OH	1:a:271:HIS:ND1	2.44	0.45
1:c:99:TYR:HE1	1:f:314:VAL:HG11	1.81	0.45
1:d:160:SER:HB2	1:d:272:TYR:HB2	1.99	0.45
1:d:285:PHE:HE2	1:f:134:THR:HG21	1.82	0.45
1:g:85:TRP:CZ2	1:g:268:MET:HB3	2.51	0.45
1:g:314:VAL:HG11	1:l:99:TYR:HE1	1.82	0.45
1:i:172:PRO:HB3	1:i:178:TRP:CD1	2.52	0.45
1:i:311:ILE:HB	1:i:314:VAL:HG22	1.97	0.45
1:k:204:ILE:HG22	1:m:308:VAL:HB	1.97	0.45
1:l:308:VAL:HB	1:m:204:ILE:HG22	1.98	0.45
1:l:311:ILE:HB	1:l:314:VAL:HG22	1.97	0.45
1:m:126:TYR:OH	1:m:271:HIS:ND1	2.44	0.45
1:m:234:TYR:HA	1:m:330:TYR:CD2	2.51	0.45
1:n:308:VAL:HB	1:o:204:ILE:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:172:PRO:HB3	1:q:178:TRP:CD1	2.52	0.45
1:q:308:VAL:HB	1:r:204:ILE:HG22	1.98	0.45
1:s:131:LEU:HB2	1:s:211:TRP:CH2	2.50	0.45
1:t:250:GLY:CA	1:t:331:GLY:HA2	2.46	0.45
1:u:246:MET:HB2	1:u:332:SER:OG	2.17	0.45
1:v:61:ARG:HG2	1:v:300:GLU:HG2	1.99	0.45
1:v:180:VAL:HG12	1:v:339:SER:OG	2.15	0.45
1:y:250:GLY:CA	1:y:331:GLY:HA2	2.47	0.45
1:z:246:MET:HB2	1:z:332:SER:OG	2.17	0.45
1:7:157:MET:HE3	1:7:273:LEU:HD22	1.98	0.45
1:A:250:GLY:CA	1:A:331:GLY:HA2	2.47	0.45
1:D:246:MET:HB2	1:D:332:SER:OG	2.17	0.45
1:E:61:ARG:HG2	1:E:300:GLU:HG2	1.99	0.45
1:G:308:VAL:HB	1:I:204:ILE:HG22	1.98	0.45
1:K:172:PRO:HB3	1:K:178:TRP:CD1	2.52	0.45
1:L:157:MET:HE3	1:L:273:LEU:HD22	1.98	0.45
1:M:160:SER:HB2	1:M:272:TYR:HB2	1.99	0.45
1:O:160:SER:HB2	1:O:272:TYR:HB2	1.99	0.45
1:O:308:VAL:HB	1:g:204:ILE:HG22	1.99	0.45
1:R:172:PRO:HB3	1:R:178:TRP:CD1	2.52	0.45
1:S:61:ARG:HG2	1:S:300:GLU:HG2	1.99	0.45
1:T:250:GLY:CA	1:T:331:GLY:HA2	2.46	0.45
1:U:250:GLY:CA	1:U:331:GLY:HA2	2.46	0.45
1:Y:62:THR:O	1:Y:299:PHE:N	2.48	0.45
1:Y:311:ILE:HB	1:Y:314:VAL:HG22	1.98	0.45
1:1:238:TYR:CE1	1:1:334:VAL:HG12	2.51	0.45
1:2:157:MET:HE3	1:2:273:LEU:HD22	1.98	0.45
1:2:172:PRO:HB3	1:2:178:TRP:CD1	2.52	0.45
1:3:172:PRO:HB3	1:3:178:TRP:CD1	2.52	0.45
1:6:160:SER:HB2	1:6:272:TYR:HB2	1.99	0.45
1:a:250:GLY:CA	1:a:331:GLY:HA2	2.47	0.45
1:c:172:PRO:HB3	1:c:178:TRP:CD1	2.52	0.45
1:e:62:THR:O	1:e:299:PHE:N	2.48	0.45
1:f:246:MET:HB2	1:f:332:SER:OG	2.17	0.45
1:g:172:PRO:HB3	1:g:178:TRP:CD1	2.52	0.45
1:g:246:MET:HB2	1:g:332:SER:OG	2.17	0.45
1:i:160:SER:HB2	1:i:272:TYR:HB2	1.99	0.45
1:k:61:ARG:HG2	1:k:300:GLU:HG2	1.99	0.45
1:m:157:MET:HE3	1:m:273:LEU:HD22	1.98	0.45
1:m:194:SER:N	1:m:197:ASN:O	2.46	0.45
1:n:61:ARG:HG2	1:n:300:GLU:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:250:GLY:CA	1:p:331:GLY:HA2	2.47	0.45
1:q:204:ILE:HG22	1:s:308:VAL:HB	1.98	0.45
1:s:250:GLY:CA	1:s:331:GLY:HA2	2.47	0.45
1:t:204:ILE:HG22	1:v:308:VAL:HB	1.98	0.45
1:u:172:PRO:HB3	1:u:178:TRP:CD1	2.52	0.45
1:u:250:GLY:CA	1:u:331:GLY:HA2	2.47	0.45
1:w:157:MET:HE3	1:w:273:LEU:HD22	1.98	0.45
1:8:62:THR:O	1:8:299:PHE:N	2.48	0.45
1:8:160:SER:HB2	1:8:272:TYR:HB2	1.99	0.45
1:B:61:ARG:HG2	1:B:300:GLU:HG2	1.99	0.45
1:C:126:TYR:OH	1:C:271:HIS:ND1	2.44	0.45
1:C:246:MET:HB2	1:C:332:SER:OG	2.17	0.45
1:F:250:GLY:CA	1:F:331:GLY:HA2	2.47	0.45
1:H:172:PRO:HB3	1:H:178:TRP:CD1	2.52	0.45
1:J:311:ILE:HB	1:J:314:VAL:HG22	1.98	0.45
1:K:61:ARG:HG2	1:K:300:GLU:HG2	1.99	0.45
1:K:85:TRP:CZ2	1:K:268:MET:HB3	2.51	0.45
1:K:160:SER:HB2	1:K:272:TYR:HB2	1.99	0.45
1:M:250:GLY:CA	1:M:331:GLY:HA2	2.47	0.45
1:N:61:ARG:HG2	1:N:300:GLU:HG2	1.99	0.45
1:O:62:THR:O	1:O:299:PHE:N	2.48	0.45
1:P:246:MET:HB2	1:P:332:SER:OG	2.17	0.45
1:R:194:SER:N	1:R:197:ASN:O	2.46	0.45
1:S:160:SER:HB2	1:S:272:TYR:HB2	1.99	0.45
1:V:126:TYR:OH	1:V:271:HIS:ND1	2.44	0.45
1:V:226:LEU:HD22	1:V:228:PHE:CZ	2.52	0.45
1:W:250:GLY:CA	1:W:331:GLY:HA2	2.47	0.45
1:Y:99:TYR:HE1	1:Z:314:VAL:HG11	1.82	0.45
1:Y:172:PRO:HB3	1:Y:178:TRP:CD1	2.52	0.45
1:Y:250:GLY:CA	1:Y:331:GLY:HA2	2.47	0.45
1:Z:246:MET:HB2	1:Z:332:SER:OG	2.17	0.45
1:1:246:MET:HB2	1:1:332:SER:OG	2.17	0.45
1:4:157:MET:HE3	1:4:273:LEU:HD22	1.98	0.45
1:4:160:SER:HB2	1:4:272:TYR:HB2	1.99	0.45
1:e:250:GLY:CA	1:e:331:GLY:HA2	2.47	0.45
1:g:62:THR:O	1:g:299:PHE:N	2.48	0.45
1:h:238:TYR:CE1	1:h:334:VAL:HG12	2.51	0.45
1:i:61:ARG:HG2	1:i:300:GLU:HG2	1.99	0.45
1:l:61:ARG:HG2	1:l:300:GLU:HG2	1.99	0.45
1:n:311:ILE:HB	1:n:314:VAL:HG22	1.97	0.45
1:o:62:THR:O	1:o:299:PHE:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:126:TYR:OH	1:p:271:HIS:ND1	2.44	0.45
1:r:172:PRO:HB3	1:r:178:TRP:CD1	2.52	0.45
1:w:62:THR:O	1:w:299:PHE:N	2.48	0.45
1:x:250:GLY:CA	1:x:331:GLY:HA2	2.47	0.45
1:x:365:LEU:HD12	1:x:365:LEU:HA	1.81	0.45
1:y:246:MET:HB2	1:y:332:SER:OG	2.17	0.45
1:z:311:ILE:HB	1:z:314:VAL:HG22	1.98	0.45
1:7:61:ARG:HG2	1:7:300:GLU:HG2	1.99	0.45
1:7:246:MET:HB2	1:7:332:SER:OG	2.17	0.45
1:8:172:PRO:HB3	1:8:178:TRP:CD1	2.52	0.45
1:A:61:ARG:HG2	1:A:300:GLU:HG2	1.99	0.45
1:A:285:PHE:HE2	1:B:134:THR:HG21	1.81	0.45
1:A:314:VAL:HG11	1:F:99:TYR:HE1	1.82	0.45
1:B:99:TYR:HE1	1:I:314:VAL:HG11	1.82	0.45
1:B:160:SER:HB2	1:B:272:TYR:HB2	1.99	0.45
1:B:250:GLY:CA	1:B:331:GLY:HA2	2.47	0.45
1:C:99:TYR:HE1	1:L:314:VAL:HG11	1.82	0.45
1:C:160:SER:HB2	1:C:272:TYR:HB2	1.99	0.45
1:C:308:VAL:HB	1:2:204:ILE:HG22	1.98	0.45
1:D:311:ILE:HB	1:D:314:VAL:HG22	1.98	0.45
1:G:226:LEU:HD22	1:G:228:PHE:CZ	2.52	0.45
1:I:61:ARG:HG2	1:I:300:GLU:HG2	1.99	0.45
1:J:99:TYR:HE1	1:K:314:VAL:HG11	1.82	0.45
1:K:62:THR:O	1:K:299:PHE:N	2.48	0.45
1:K:246:MET:HB2	1:K:332:SER:OG	2.17	0.45
1:M:246:MET:HB2	1:M:332:SER:OG	2.17	0.45
1:N:226:LEU:HD22	1:N:228:PHE:CZ	2.52	0.45
1:N:246:MET:HB2	1:N:332:SER:OG	2.17	0.45
1:O:172:PRO:HB3	1:O:178:TRP:CD1	2.52	0.45
1:O:250:GLY:CA	1:O:331:GLY:HA2	2.46	0.45
1:Q:134:THR:HG21	1:S:285:PHE:HE2	1.81	0.45
1:W:62:THR:O	1:W:299:PHE:N	2.48	0.45
1:2:160:SER:HB2	1:2:272:TYR:HB2	1.99	0.45
1:3:160:SER:HB2	1:3:272:TYR:HB2	1.99	0.45
1:3:308:VAL:HB	1:i:204:ILE:HG22	1.98	0.45
1:4:61:ARG:HG2	1:4:300:GLU:HG2	1.99	0.45
1:a:172:PRO:HB3	1:a:178:TRP:CD1	2.52	0.45
1:a:226:LEU:HD22	1:a:228:PHE:CZ	2.52	0.45
1:b:134:THR:HG21	1:c:285:PHE:HE2	1.82	0.45
1:c:62:THR:O	1:c:299:PHE:N	2.48	0.45
1:c:250:GLY:CA	1:c:331:GLY:HA2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:311:ILE:HB	1:c:314:VAL:HG22	1.98	0.45
1:d:172:PRO:HB3	1:d:178:TRP:CD1	2.52	0.45
1:e:160:SER:HB2	1:e:272:TYR:HB2	1.99	0.45
1:g:157:MET:HE3	1:g:273:LEU:HD22	1.98	0.45
1:g:160:SER:HB2	1:g:272:TYR:HB2	1.99	0.45
1:i:246:MET:HB2	1:i:332:SER:OG	2.17	0.45
1:i:250:GLY:CA	1:i:331:GLY:HA2	2.47	0.45
1:j:61:ARG:HG2	1:j:300:GLU:HG2	1.99	0.45
1:j:99:TYR:HE1	1:m:314:VAL:HG11	1.82	0.45
1:k:99:TYR:HE1	1:r:314:VAL:HG11	1.82	0.45
1:k:250:GLY:CA	1:k:331:GLY:HA2	2.47	0.45
1:m:250:GLY:CA	1:m:331:GLY:HA2	2.47	0.45
1:o:134:THR:HG21	1:v:285:PHE:HE2	1.81	0.45
1:p:99:TYR:HE1	1:s:314:VAL:HG11	1.82	0.45
1:q:367:ASP:CG	1:r:262:GLY:H	2.23	0.45
1:r:61:ARG:HG2	1:r:300:GLU:HG2	1.99	0.45
1:s:61:ARG:HG2	1:s:300:GLU:HG2	1.99	0.45
1:v:160:SER:HB2	1:v:272:TYR:HB2	1.99	0.45
1:w:61:ARG:HG2	1:w:300:GLU:HG2	1.99	0.45
1:w:160:SER:HB2	1:w:272:TYR:HB2	1.99	0.45
1:B:226:LEU:HD22	1:B:228:PHE:CZ	2.52	0.44
1:B:238:TYR:CE1	1:B:334:VAL:HG12	2.51	0.44
1:C:61:ARG:HG2	1:C:300:GLU:HG2	1.99	0.44
1:E:311:ILE:HB	1:E:314:VAL:HG22	1.97	0.44
1:I:131:LEU:HB2	1:I:211:TRP:CZ3	2.53	0.44
1:I:226:LEU:HD22	1:I:228:PHE:CZ	2.52	0.44
1:J:226:LEU:HD22	1:J:228:PHE:CZ	2.52	0.44
1:L:250:GLY:CA	1:L:331:GLY:HA2	2.46	0.44
1:O:134:THR:HG21	1:P:285:PHE:HE2	1.82	0.44
1:P:131:LEU:HB2	1:P:211:TRP:CZ3	2.53	0.44
1:P:172:PRO:HB3	1:P:178:TRP:CD1	2.52	0.44
1:Q:314:VAL:HG11	1:R:99:TYR:HE1	1.82	0.44
1:R:61:ARG:HG2	1:R:300:GLU:HG2	1.99	0.44
1:V:172:PRO:HB3	1:V:178:TRP:CD1	2.52	0.44
1:W:99:TYR:HE1	1:X:314:VAL:HG11	1.82	0.44
1:W:160:SER:HB2	1:W:272:TYR:HB2	1.99	0.44
1:X:226:LEU:HD22	1:X:228:PHE:CZ	2.52	0.44
1:2:134:THR:HG21	1:i:285:PHE:HE2	1.81	0.44
1:3:204:ILE:HG22	1:j:308:VAL:HB	1.98	0.44
1:4:172:PRO:HB3	1:4:178:TRP:CD1	2.52	0.44
1:b:226:LEU:HD22	1:b:228:PHE:CZ	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:99:TYR:HE1	1:q:314:VAL:HG11	1.82	0.44
1:f:131:LEU:HB2	1:f:211:TRP:CZ3	2.53	0.44
1:g:61:ARG:HG2	1:g:300:GLU:HG2	1.99	0.44
1:h:246:MET:HB2	1:h:332:SER:OG	2.17	0.44
1:j:160:SER:HB2	1:j:272:TYR:HB2	1.99	0.44
1:j:246:MET:HB2	1:j:332:SER:OG	2.17	0.44
1:k:160:SER:HB2	1:k:272:TYR:HB2	1.99	0.44
1:k:226:LEU:HD22	1:k:228:PHE:CZ	2.52	0.44
1:l:226:LEU:HD22	1:l:228:PHE:CZ	2.52	0.44
1:o:314:VAL:HG11	1:u:99:TYR:HE1	1.82	0.44
1:q:226:LEU:HD22	1:q:228:PHE:CZ	2.52	0.44
1:u:194:SER:N	1:u:197:ASN:O	2.46	0.44
1:w:172:PRO:HB3	1:w:178:TRP:CD1	2.52	0.44
1:7:226:LEU:HD22	1:7:228:PHE:CZ	2.52	0.44
1:8:250:GLY:CA	1:8:331:GLY:HA2	2.47	0.44
1:C:204:ILE:HG22	1:M:308:VAL:HB	1.98	0.44
1:F:61:ARG:HG2	1:F:300:GLU:HG2	1.99	0.44
1:G:160:SER:HB2	1:G:272:TYR:HB2	1.99	0.44
1:G:314:VAL:HG11	1:H:99:TYR:HE1	1.82	0.44
1:K:157:MET:HE3	1:K:273:LEU:HD22	1.98	0.44
1:K:308:VAL:HB	1:1:204:ILE:HG22	1.98	0.44
1:L:172:PRO:HB3	1:L:178:TRP:CD1	2.52	0.44
1:M:131:LEU:HB2	1:M:211:TRP:CZ3	2.53	0.44
1:M:204:ILE:HG22	1:2:308:VAL:HB	1.98	0.44
1:N:160:SER:HB2	1:N:272:TYR:HB2	1.99	0.44
1:P:134:THR:HG21	1:Q:285:PHE:HE2	1.82	0.44
1:P:290:GLN:HG2	1:P:291:PHE:N	2.33	0.44
1:S:172:PRO:HB3	1:S:178:TRP:CD1	2.52	0.44
1:S:226:LEU:HD22	1:S:228:PHE:CZ	2.52	0.44
1:T:226:LEU:HD22	1:T:228:PHE:CZ	2.52	0.44
1:U:226:LEU:HD22	1:U:228:PHE:CZ	2.52	0.44
1:W:172:PRO:HB3	1:W:178:TRP:CD1	2.52	0.44
1:W:226:LEU:HD22	1:W:228:PHE:CZ	2.52	0.44
1:X:250:GLY:CA	1:X:331:GLY:HA2	2.47	0.44
1:Z:61:ARG:HG2	1:Z:300:GLU:HG2	1.99	0.44
1:Z:131:LEU:HB2	1:Z:211:TRP:CZ3	2.53	0.44
1:2:314:VAL:HG11	1:3:99:TYR:HE1	1.82	0.44
1:5:99:TYR:HE1	1:6:314:VAL:HG11	1.82	0.44
1:5:246:MET:HB2	1:5:332:SER:OG	2.17	0.44
1:5:314:VAL:HG11	1:6:99:TYR:HE1	1.82	0.44
1:b:250:GLY:CA	1:b:331:GLY:HA2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:131:LEU:HB2	1:c:211:TRP:CZ3	2.53	0.44
1:d:367:ASP:CG	1:e:262:GLY:H	2.24	0.44
1:e:226:LEU:HD22	1:e:228:PHE:CZ	2.52	0.44
1:e:246:MET:HB2	1:e:332:SER:OG	2.17	0.44
1:k:238:TYR:CE1	1:k:334:VAL:HG12	2.51	0.44
1:o:131:LEU:HB2	1:o:211:TRP:CZ3	2.53	0.44
1:o:246:MET:HB2	1:o:332:SER:OG	2.17	0.44
1:o:285:PHE:HE2	1:y:134:THR:HG21	1.82	0.44
1:r:226:LEU:HD22	1:r:228:PHE:CZ	2.52	0.44
1:t:226:LEU:HD22	1:t:228:PHE:CZ	2.52	0.44
1:u:61:ARG:HG2	1:u:300:GLU:HG2	1.99	0.44
1:v:226:LEU:HD22	1:v:228:PHE:CZ	2.52	0.44
1:x:172:PRO:HB3	1:x:178:TRP:CD1	2.52	0.44
1:y:131:LEU:HB2	1:y:211:TRP:CZ3	2.53	0.44
1:y:172:PRO:HB3	1:y:178:TRP:CD1	2.52	0.44
1:y:285:PHE:HE2	1:8:134:THR:HG21	1.82	0.44
1:7:160:SER:HB2	1:7:272:TYR:HB2	1.99	0.44
1:B:131:LEU:HB2	1:B:211:TRP:CZ3	2.53	0.44
1:C:172:PRO:HB3	1:C:178:TRP:CD1	2.52	0.44
1:C:226:LEU:HD22	1:C:228:PHE:CZ	2.52	0.44
1:E:99:TYR:HE1	1:P:314:VAL:HG11	1.82	0.44
1:F:126:TYR:OH	1:F:271:HIS:ND1	2.44	0.44
1:H:131:LEU:HB2	1:H:211:TRP:CZ3	2.53	0.44
1:J:172:PRO:HB3	1:J:178:TRP:CD1	2.52	0.44
1:L:134:THR:HG21	1:2:285:PHE:HE2	1.82	0.44
1:M:226:LEU:HD22	1:M:228:PHE:CZ	2.52	0.44
1:M:285:PHE:HE2	1:3:134:THR:HG21	1.82	0.44
1:N:99:TYR:HE1	1:O:314:VAL:HG11	1.83	0.44
1:Q:160:SER:HB2	1:Q:272:TYR:HB2	1.99	0.44
1:Q:246:MET:HB2	1:Q:332:SER:OG	2.17	0.44
1:W:246:MET:HB2	1:W:332:SER:OG	2.17	0.44
1:Y:131:LEU:HB2	1:Y:211:TRP:CZ3	2.53	0.44
1:Z:172:PRO:HB3	1:Z:178:TRP:CD1	2.52	0.44
1:2:99:TYR:HE1	1:3:314:VAL:HG11	1.82	0.44
1:6:246:MET:HB2	1:6:332:SER:OG	2.17	0.44
1:a:279:ARG:HG3	1:e:71:ASN:ND2	2.32	0.44
1:a:279:ARG:NH1	1:e:73:ARG:HD3	2.32	0.44
1:b:172:PRO:HB3	1:b:178:TRP:CD1	2.52	0.44
1:d:131:LEU:HB2	1:d:211:TRP:CZ3	2.53	0.44
1:e:172:PRO:HB3	1:e:178:TRP:CD1	2.52	0.44
1:g:226:LEU:HD22	1:g:228:PHE:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:131:LEU:HB2	1:h:211:TRP:CZ3	2.53	0.44
1:h:250:GLY:CA	1:h:331:GLY:HA2	2.46	0.44
1:i:131:LEU:HB2	1:i:211:TRP:CZ3	2.53	0.44
1:i:226:LEU:HD22	1:i:228:PHE:CZ	2.52	0.44
1:j:285:PHE:HE2	1:z:134:THR:HG21	1.82	0.44
1:k:134:THR:HG21	1:s:285:PHE:HE2	1.82	0.44
1:l:172:PRO:HB3	1:l:178:TRP:CD1	2.52	0.44
1:l:285:PHE:HE2	1:r:134:THR:HG21	1.81	0.44
1:m:172:PRO:HB3	1:m:178:TRP:CD1	2.52	0.44
1:n:99:TYR:HE1	1:y:314:VAL:HG11	1.82	0.44
1:o:160:SER:HB2	1:o:272:TYR:HB2	1.99	0.44
1:p:61:ARG:HG2	1:p:300:GLU:HG2	1.99	0.44
1:q:160:SER:HB2	1:q:272:TYR:HB2	1.99	0.44
1:r:131:LEU:HB2	1:r:211:TRP:CZ3	2.53	0.44
1:s:120:ARG:HA	1:s:121:PRO:HD3	1.86	0.44
1:v:172:PRO:HB3	1:v:178:TRP:CD1	2.52	0.44
1:x:226:LEU:HD22	1:x:228:PHE:CZ	2.52	0.44
1:y:290:GLN:HG2	1:y:291:PHE:N	2.33	0.44
1:8:246:MET:HB2	1:8:332:SER:OG	2.17	0.44
1:J:131:LEU:HB2	1:J:211:TRP:CZ3	2.53	0.44
1:O:246:MET:HB2	1:O:332:SER:OG	2.17	0.44
1:Q:131:LEU:HB2	1:Q:211:TRP:CZ3	2.53	0.44
1:T:172:PRO:HB3	1:T:178:TRP:CD1	2.52	0.44
1:X:160:SER:HB2	1:X:272:TYR:HB2	1.99	0.44
1:X:172:PRO:HB3	1:X:178:TRP:CD1	2.52	0.44
1:X:243:ASN:O	1:5:257:HIS:HB2	2.18	0.44
1:Y:290:GLN:HG2	1:Y:291:PHE:N	2.33	0.44
1:1:131:LEU:HB2	1:1:211:TRP:CZ3	2.53	0.44
1:a:290:GLN:HG2	1:a:291:PHE:N	2.33	0.44
1:c:290:GLN:HG2	1:c:291:PHE:N	2.33	0.44
1:d:120:ARG:HA	1:d:121:PRO:HD3	1.86	0.44
1:f:61:ARG:HG2	1:f:300:GLU:HG2	1.99	0.44
1:g:308:VAL:HB	1:h:204:ILE:HG22	1.98	0.44
1:i:157:MET:HE3	1:i:273:LEU:HD22	1.98	0.44
1:i:308:VAL:HB	1:j:204:ILE:HG22	1.99	0.44
1:i:365:LEU:HD12	1:i:365:LEU:HA	1.81	0.44
1:j:172:PRO:HB3	1:j:178:TRP:CD1	2.52	0.44
1:j:226:LEU:HD22	1:j:228:PHE:CZ	2.52	0.44
1:j:250:GLY:CA	1:j:331:GLY:HA2	2.47	0.44
1:k:131:LEU:HB2	1:k:211:TRP:CZ3	2.53	0.44
1:m:131:LEU:HB2	1:m:211:TRP:CZ3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:226:LEU:HD22	1:o:228:PHE:CZ	2.52	0.44
1:v:290:GLN:HG2	1:v:291:PHE:N	2.33	0.44
1:w:131:LEU:HB2	1:w:211:TRP:CZ3	2.53	0.44
1:z:160:SER:HB2	1:z:272:TYR:HB2	1.99	0.44
1:7:172:PRO:HB3	1:7:178:TRP:CD1	2.52	0.44
1:A:120:ARG:HA	1:A:121:PRO:HD3	1.86	0.44
1:B:290:GLN:HG2	1:B:291:PHE:N	2.33	0.44
1:C:250:GLY:CA	1:C:331:GLY:HA2	2.47	0.44
1:C:285:PHE:HE2	1:D:134:THR:HG21	1.82	0.44
1:E:246:MET:HB2	1:E:332:SER:OG	2.17	0.44
1:F:226:LEU:HD22	1:F:228:PHE:CZ	2.52	0.44
1:G:246:MET:HB2	1:G:332:SER:OG	2.17	0.44
1:H:61:ARG:HG2	1:H:300:GLU:HG2	1.99	0.44
1:I:134:THR:HG21	1:J:285:PHE:HE2	1.81	0.44
1:K:131:LEU:HB2	1:K:211:TRP:CZ3	2.53	0.44
1:K:226:LEU:HD22	1:K:228:PHE:CZ	2.52	0.44
1:L:131:LEU:HB2	1:L:211:TRP:CZ3	2.53	0.44
1:M:157:MET:HE3	1:M:273:LEU:HD22	1.98	0.44
1:N:172:PRO:HB3	1:N:178:TRP:CD1	2.52	0.44
1:O:61:ARG:HG2	1:O:300:GLU:HG2	1.99	0.44
1:O:290:GLN:HG2	1:O:291:PHE:N	2.33	0.44
1:S:290:GLN:HG2	1:S:291:PHE:N	2.33	0.44
1:U:246:MET:HB2	1:U:332:SER:OG	2.17	0.44
1:V:290:GLN:HG2	1:V:291:PHE:N	2.33	0.44
1:W:131:LEU:HB2	1:W:211:TRP:CZ3	2.53	0.44
1:X:285:PHE:HE2	1:6:134:THR:HG21	1.81	0.44
1:1:226:LEU:HD22	1:1:228:PHE:CZ	2.52	0.44
1:1:250:GLY:CA	1:1:331:GLY:HA2	2.47	0.44
1:4:131:LEU:HB2	1:4:211:TRP:CZ3	2.53	0.44
1:4:194:SER:N	1:4:197:ASN:O	2.46	0.44
1:b:160:SER:HB2	1:b:272:TYR:HB2	1.99	0.44
1:d:61:ARG:HG2	1:d:300:GLU:HG2	1.99	0.44
1:e:131:LEU:HB2	1:e:211:TRP:CZ3	2.53	0.44
1:h:226:LEU:HD22	1:h:228:PHE:CZ	2.52	0.44
1:l:131:LEU:HB2	1:l:211:TRP:CZ3	2.53	0.44
1:n:246:MET:HB2	1:n:332:SER:OG	2.17	0.44
1:n:314:VAL:HG11	1:y:99:TYR:HE1	1.82	0.44
1:q:246:MET:HB2	1:q:332:SER:OG	2.17	0.44
1:s:226:LEU:HD22	1:s:228:PHE:CZ	2.52	0.44
1:v:314:VAL:HG11	1:x:99:TYR:HE1	1.82	0.44
1:w:194:SER:N	1:w:197:ASN:O	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:246:MET:HB2	1:w:332:SER:OG	2.17	0.44
1:x:160:SER:HB2	1:x:272:TYR:HB2	1.99	0.44
1:A:172:PRO:HB3	1:A:178:TRP:CD1	2.52	0.44
1:A:226:LEU:HD22	1:A:228:PHE:CZ	2.52	0.44
1:C:314:VAL:HG11	1:L:99:TYR:HE1	1.83	0.44
1:D:160:SER:HB2	1:D:272:TYR:HB2	1.99	0.44
1:D:285:PHE:HE2	1:E:134:THR:HG21	1.81	0.44
1:E:314:VAL:HG11	1:P:99:TYR:HE1	1.82	0.44
1:J:314:VAL:HG11	1:K:99:TYR:HE1	1.82	0.44
1:N:308:VAL:HB	1:P:204:ILE:HG22	1.98	0.44
1:N:314:VAL:HG11	1:O:99:TYR:HE1	1.83	0.44
1:O:131:LEU:HB2	1:O:211:TRP:CZ3	2.53	0.44
1:O:285:PHE:HE2	1:4:134:THR:HG21	1.82	0.44
1:P:226:LEU:HD22	1:P:228:PHE:CZ	2.52	0.44
1:Q:172:PRO:HB3	1:Q:178:TRP:CD1	2.52	0.44
1:Q:226:LEU:HD22	1:Q:228:PHE:CZ	2.52	0.44
1:S:157:MET:HE3	1:S:273:LEU:HD22	1.98	0.44
1:T:160:SER:HB2	1:T:272:TYR:HB2	1.99	0.44
1:T:246:MET:HB2	1:T:332:SER:OG	2.17	0.44
1:X:61:ARG:HG2	1:X:300:GLU:HG2	1.99	0.44
1:2:226:LEU:HD22	1:2:228:PHE:CZ	2.52	0.44
1:3:285:PHE:HE2	1:m:134:THR:HG21	1.82	0.44
1:4:246:MET:HB2	1:4:332:SER:OG	2.17	0.44
1:5:134:THR:HG21	1:b:285:PHE:HE2	1.82	0.44
1:6:61:ARG:HG2	1:6:300:GLU:HG2	1.99	0.44
1:6:257:HIS:HB2	1:b:243:ASN:O	2.18	0.44
1:b:61:ARG:HG2	1:b:300:GLU:HG2	1.99	0.44
1:b:290:GLN:HG2	1:b:291:PHE:N	2.33	0.44
1:d:290:GLN:HG2	1:d:291:PHE:N	2.33	0.44
1:d:314:VAL:HG11	1:q:99:TYR:HE1	1.82	0.44
1:e:61:ARG:HG2	1:e:300:GLU:HG2	1.99	0.44
1:f:172:PRO:HB3	1:f:178:TRP:CD1	2.52	0.44
1:f:226:LEU:HD22	1:f:228:PHE:CZ	2.52	0.44
1:g:131:LEU:HB2	1:g:211:TRP:CZ3	2.53	0.44
1:j:314:VAL:HG11	1:m:99:TYR:HE1	1.83	0.44
1:k:290:GLN:HG2	1:k:291:PHE:N	2.33	0.44
1:n:134:THR:HG21	1:z:285:PHE:HE2	1.81	0.44
1:p:226:LEU:HD22	1:p:228:PHE:CZ	2.52	0.44
1:t:172:PRO:HB3	1:t:178:TRP:CD1	2.52	0.44
1:t:246:MET:HB2	1:t:332:SER:OG	2.17	0.44
1:w:134:THR:HG21	1:8:285:PHE:HE2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:163:ASP:HB3	1:7:53:ILE:HD11	2.00	0.44
1:z:131:LEU:HB2	1:z:211:TRP:CZ3	2.53	0.44
1:8:61:ARG:HG2	1:8:300:GLU:HG2	1.99	0.44
1:E:290:GLN:HG2	1:E:291:PHE:N	2.33	0.44
1:H:290:GLN:HG2	1:H:291:PHE:N	2.33	0.44
1:J:246:MET:HB2	1:J:332:SER:OG	2.17	0.44
1:K:126:TYR:OH	1:K:271:HIS:ND1	2.43	0.44
1:O:257:HIS:HB2	1:g:243:ASN:O	2.18	0.44
1:R:160:SER:HB2	1:R:272:TYR:HB2	1.99	0.44
1:S:314:VAL:HG11	1:T:99:TYR:HE1	1.82	0.44
1:U:99:TYR:HE1	1:V:314:VAL:HG11	1.82	0.44
1:U:160:SER:HB2	1:U:272:TYR:HB2	1.99	0.44
1:U:172:PRO:HB3	1:U:178:TRP:CD1	2.52	0.44
1:W:61:ARG:HG2	1:W:300:GLU:HG2	1.99	0.44
1:Z:160:SER:HB2	1:Z:272:TYR:HB2	1.99	0.44
1:Z:204:ILE:HG22	1:w:308:VAL:HB	1.98	0.44
1:Z:226:LEU:HD22	1:Z:228:PHE:CZ	2.52	0.44
1:3:226:LEU:HD22	1:3:228:PHE:CZ	2.52	0.44
1:4:308:VAL:HB	1:f:204:ILE:HG22	1.98	0.44
1:5:61:ARG:HG2	1:5:300:GLU:HG2	1.99	0.44
1:5:226:LEU:HD22	1:5:228:PHE:CZ	2.52	0.44
1:5:290:GLN:HG2	1:5:291:PHE:N	2.33	0.44
1:6:226:LEU:HD22	1:6:228:PHE:CZ	2.52	0.44
1:d:246:MET:HB2	1:d:332:SER:OG	2.17	0.44
1:h:172:PRO:HB3	1:h:178:TRP:CD1	2.52	0.44
1:k:314:VAL:HG11	1:r:99:TYR:HE1	1.83	0.44
1:n:257:HIS:HB2	1:o:243:ASN:O	2.18	0.44
1:o:99:TYR:HE1	1:u:314:VAL:HG11	1.83	0.44
1:o:172:PRO:HB3	1:o:178:TRP:CD1	2.52	0.44
1:s:131:LEU:HB2	1:s:211:TRP:CZ3	2.53	0.44
1:s:172:PRO:HB3	1:s:178:TRP:CD1	2.52	0.44
1:t:290:GLN:HG2	1:t:291:PHE:N	2.33	0.44
1:v:157:MET:HE3	1:v:273:LEU:HD22	1.98	0.44
1:x:131:LEU:HB2	1:x:211:TRP:CZ3	2.53	0.44
1:y:61:ARG:HG2	1:y:300:GLU:HG2	1.99	0.44
1:8:131:LEU:HB2	1:8:211:TRP:CZ3	2.53	0.44
1:A:160:SER:HB2	1:A:272:TYR:HB2	1.99	0.44
1:D:131:LEU:HB2	1:D:211:TRP:CZ3	2.53	0.44
1:D:314:VAL:HG11	1:M:99:TYR:HE1	1.82	0.44
1:E:257:HIS:HB2	1:Q:243:ASN:O	2.18	0.44
1:K:243:ASN:O	1:8:257:HIS:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:290:GLN:HG2	1:L:291:PHE:N	2.33	0.44
1:P:61:ARG:HG2	1:P:300:GLU:HG2	1.99	0.44
1:P:160:SER:HB2	1:P:272:TYR:HB2	1.99	0.44
1:Q:99:TYR:HE1	1:R:314:VAL:HG11	1.83	0.44
1:T:257:HIS:HB2	1:4:243:ASN:O	2.18	0.44
1:U:131:LEU:HB2	1:U:211:TRP:CZ3	2.53	0.44
1:U:290:GLN:HG2	1:U:291:PHE:N	2.33	0.44
1:V:131:LEU:HB2	1:V:211:TRP:CZ3	2.53	0.44
1:W:257:HIS:HB2	1:Y:243:ASN:O	2.18	0.44
1:Y:160:SER:HB2	1:Y:272:TYR:HB2	1.99	0.44
1:1:157:MET:HE3	1:1:273:LEU:HD22	1.98	0.44
1:6:290:GLN:HG2	1:6:291:PHE:N	2.33	0.44
1:a:131:LEU:HB2	1:a:211:TRP:CZ3	2.53	0.44
1:c:160:SER:HB2	1:c:272:TYR:HB2	1.99	0.44
1:f:160:SER:HB2	1:f:272:TYR:HB2	1.99	0.44
1:g:126:TYR:OH	1:g:271:HIS:ND1	2.44	0.44
1:l:246:MET:HB2	1:l:332:SER:OG	2.17	0.44
1:n:290:GLN:HG2	1:n:291:PHE:N	2.33	0.44
1:o:257:HIS:HB2	1:p:243:ASN:O	2.18	0.44
1:p:314:VAL:HG11	1:s:99:TYR:HE1	1.82	0.44
1:q:131:LEU:HB2	1:q:211:TRP:CZ3	2.53	0.44
1:t:160:SER:HB2	1:t:272:TYR:HB2	1.99	0.44
1:u:160:SER:HB2	1:u:272:TYR:HB2	1.99	0.44
1:w:243:ASN:O	1:x:257:HIS:HB2	2.18	0.44
1:y:226:LEU:HD22	1:y:228:PHE:CZ	2.52	0.44
1:A:99:TYR:HE1	1:F:314:VAL:HG11	1.82	0.44
1:A:131:LEU:HB2	1:A:211:TRP:CZ3	2.53	0.44
1:B:314:VAL:HG11	1:I:99:TYR:HE1	1.83	0.44
1:C:131:LEU:HB2	1:C:211:TRP:CZ3	2.53	0.44
1:C:161:ILE:HB	1:C:207:LYS:HB2	2.00	0.44
1:F:243:ASN:O	1:Q:257:HIS:HB2	2.18	0.44
1:F:246:MET:HB2	1:F:332:SER:OG	2.17	0.44
1:H:226:LEU:HD22	1:H:228:PHE:CZ	2.52	0.44
1:J:160:SER:HB2	1:J:272:TYR:HB2	1.99	0.44
1:K:290:GLN:HG2	1:K:291:PHE:N	2.33	0.44
1:S:99:TYR:HE1	1:T:314:VAL:HG11	1.82	0.44
1:T:131:LEU:HB2	1:T:211:TRP:CZ3	2.53	0.44
1:X:290:GLN:HG2	1:X:291:PHE:N	2.33	0.44
1:1:172:PRO:HB3	1:1:178:TRP:CD1	2.52	0.44
1:5:120:ARG:HA	1:5:121:PRO:HD3	1.86	0.44
1:a:156:TYR:CE2	1:e:132:ILE:HD11	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:226:LEU:HD22	1:d:228:PHE:CZ	2.52	0.44
1:d:257:HIS:HB2	1:e:243:ASN:O	2.18	0.44
1:f:285:PHE:HE2	1:h:134:THR:HG21	1.82	0.44
1:g:99:TYR:HE1	1:l:314:VAL:HG11	1.82	0.44
1:g:290:GLN:HG2	1:g:291:PHE:N	2.33	0.44
1:h:157:MET:HE3	1:h:273:LEU:HD22	1.98	0.44
1:j:161:ILE:HB	1:j:207:LYS:HB2	2.00	0.44
1:m:290:GLN:HG2	1:m:291:PHE:N	2.33	0.44
1:t:131:LEU:HB2	1:t:211:TRP:CZ3	2.53	0.44
1:v:99:TYR:HE1	1:x:314:VAL:HG11	1.82	0.44
1:v:131:LEU:HB2	1:v:211:TRP:CZ3	2.53	0.44
1:x:246:MET:HB2	1:x:332:SER:OG	2.17	0.44
1:y:257:HIS:HB2	1:z:243:ASN:O	2.18	0.44
1:z:172:PRO:HB3	1:z:178:TRP:CD1	2.52	0.44
1:B:161:ILE:HB	1:B:207:LYS:HB2	2.00	0.43
1:C:243:ASN:O	1:M:257:HIS:HB2	2.18	0.43
1:D:99:TYR:HE1	1:M:314:VAL:HG11	1.82	0.43
1:D:172:PRO:HB3	1:D:178:TRP:CD1	2.52	0.43
1:D:243:ASN:O	1:P:257:HIS:HB2	2.18	0.43
1:G:131:LEU:HB2	1:G:211:TRP:CZ3	2.53	0.43
1:H:120:ARG:HA	1:H:121:PRO:HD3	1.86	0.43
1:K:161:ILE:HB	1:K:207:LYS:HB2	2.00	0.43
1:L:226:LEU:HD22	1:L:228:PHE:CZ	2.52	0.43
1:N:131:LEU:HB2	1:N:211:TRP:CZ3	2.53	0.43
1:S:131:LEU:HB2	1:S:211:TRP:CZ3	2.53	0.43
1:S:161:ILE:HB	1:S:207:LYS:HB2	2.00	0.43
1:T:61:ARG:HG2	1:T:300:GLU:HG2	1.99	0.43
1:W:314:VAL:HG11	1:X:99:TYR:HE1	1.82	0.43
1:X:246:MET:HB2	1:X:332:SER:OG	2.17	0.43
1:Y:246:MET:HB2	1:Y:332:SER:OG	2.17	0.43
1:Z:285:PHE:HE2	1:1:134:THR:HG21	1.82	0.43
1:3:246:MET:HB2	1:3:332:SER:OG	2.17	0.43
1:3:257:HIS:HB2	1:i:243:ASN:O	2.18	0.43
1:b:246:MET:HB2	1:b:332:SER:OG	2.17	0.43
1:c:226:LEU:HD22	1:c:228:PHE:CZ	2.52	0.43
1:g:161:ILE:HB	1:g:207:LYS:HB2	2.00	0.43
1:j:131:LEU:HB2	1:j:211:TRP:CZ3	2.53	0.43
1:l:160:SER:HB2	1:l:272:TYR:HB2	1.99	0.43
1:m:160:SER:HB2	1:m:272:TYR:HB2	1.99	0.43
1:o:194:SER:N	1:o:197:ASN:O	2.47	0.43
1:p:160:SER:HB2	1:p:272:TYR:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:246:MET:HB2	1:p:332:SER:OG	2.17	0.43
1:s:160:SER:HB2	1:s:272:TYR:HB2	1.99	0.43
1:v:161:ILE:HB	1:v:207:LYS:HB2	2.00	0.43
1:x:290:GLN:HG2	1:x:291:PHE:N	2.33	0.43
1:y:160:SER:HB2	1:y:272:TYR:HB2	1.99	0.43
1:H:246:MET:HB2	1:H:332:SER:OG	2.17	0.43
1:M:290:GLN:HG2	1:M:291:PHE:N	2.33	0.43
1:Q:194:SER:N	1:Q:197:ASN:O	2.46	0.43
1:Q:290:GLN:HG2	1:Q:291:PHE:N	2.33	0.43
1:R:131:LEU:HB2	1:R:211:TRP:CZ3	2.53	0.43
1:R:257:HIS:HB2	1:S:243:ASN:O	2.18	0.43
1:T:290:GLN:HG2	1:T:291:PHE:N	2.33	0.43
1:V:246:MET:HB2	1:V:332:SER:OG	2.17	0.43
1:Y:226:LEU:HD22	1:Y:228:PHE:CZ	2.52	0.43
1:l:314:VAL:HG11	1:w:99:TYR:HE1	1.83	0.43
1:2:131:LEU:HB2	1:2:211:TRP:CZ3	2.53	0.43
1:3:290:GLN:HG2	1:3:291:PHE:N	2.33	0.43
1:4:99:TYR:HE1	1:h:314:VAL:HG11	1.83	0.43
1:6:120:ARG:HA	1:6:121:PRO:HD3	1.86	0.43
1:a:314:VAL:HG11	1:t:99:TYR:HE1	1.83	0.43
1:b:314:VAL:HG11	1:e:99:TYR:HE1	1.83	0.43
1:c:246:MET:HB2	1:c:332:SER:OG	2.17	0.43
1:i:99:TYR:HE1	1:z:314:VAL:HG11	1.82	0.43
1:i:257:HIS:HB2	1:j:243:ASN:O	2.18	0.43
1:k:161:ILE:HB	1:k:207:LYS:HB2	2.00	0.43
1:o:61:ARG:HG2	1:o:300:GLU:HG2	1.99	0.43
1:o:290:GLN:HG2	1:o:291:PHE:N	2.33	0.43
1:q:161:ILE:HB	1:q:207:LYS:HB2	2.00	0.43
1:u:257:HIS:HB2	1:v:243:ASN:O	2.19	0.43
1:x:61:ARG:HG2	1:x:300:GLU:HG2	1.99	0.43
1:7:131:LEU:HB2	1:7:211:TRP:CZ3	2.53	0.43
1:B:243:ASN:O	1:L:257:HIS:HB2	2.19	0.43
1:E:226:LEU:HD22	1:E:228:PHE:CZ	2.52	0.43
1:F:160:SER:HB2	1:F:272:TYR:HB2	1.99	0.43
1:F:161:ILE:HB	1:F:207:LYS:HB2	2.00	0.43
1:L:160:SER:HB2	1:L:272:TYR:HB2	1.99	0.43
1:M:243:ASN:O	1:2:257:HIS:HB2	2.18	0.43
1:M:365:LEU:HD12	1:M:365:LEU:HA	1.81	0.43
1:N:257:HIS:HB2	1:P:243:ASN:O	2.18	0.43
1:U:61:ARG:HG2	1:U:300:GLU:HG2	1.99	0.43
1:V:257:HIS:HB2	1:5:243:ASN:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:246:MET:HB2	1:2:332:SER:OG	2.17	0.43
1:2:290:GLN:HG2	1:2:291:PHE:N	2.33	0.43
1:3:131:LEU:HB2	1:3:211:TRP:CZ3	2.53	0.43
1:6:161:ILE:HB	1:6:207:LYS:HB2	2.00	0.43
1:a:246:MET:HB2	1:a:332:SER:OG	2.17	0.43
1:c:163:ASP:HB3	1:e:53:ILE:HD11	1.99	0.43
1:k:243:ASN:O	1:m:257:HIS:HB2	2.19	0.43
1:m:226:LEU:HD22	1:m:228:PHE:CZ	2.52	0.43
1:o:365:LEU:HD12	1:o:365:LEU:HA	1.81	0.43
1:r:161:ILE:HB	1:r:207:LYS:HB2	2.00	0.43
1:u:131:LEU:HB2	1:u:211:TRP:CZ3	2.53	0.43
1:v:199:ILE:HG21	1:v:204:ILE:HD13	2.01	0.43
1:z:257:HIS:HB2	1:7:243:ASN:O	2.18	0.43
1:7:314:VAL:HG11	1:8:99:TYR:HE1	1.83	0.43
1:8:226:LEU:HD22	1:8:228:PHE:CZ	2.52	0.43
1:A:243:ASN:O	1:I:257:HIS:HB2	2.18	0.43
1:B:199:ILE:HG21	1:B:204:ILE:HD13	2.01	0.43
1:E:131:LEU:HB2	1:E:211:TRP:CZ3	2.53	0.43
1:F:131:LEU:HB2	1:F:211:TRP:CZ3	2.53	0.43
1:G:99:TYR:HE1	1:H:314:VAL:HG11	1.82	0.43
1:G:161:ILE:HB	1:G:207:LYS:HB2	2.01	0.43
1:H:365:LEU:HD12	1:H:365:LEU:HA	1.81	0.43
1:I:161:ILE:HB	1:I:207:LYS:HB2	2.00	0.43
1:J:290:GLN:HG2	1:J:291:PHE:N	2.33	0.43
1:O:226:LEU:HD22	1:O:228:PHE:CZ	2.53	0.43
1:Q:61:ARG:HG2	1:Q:300:GLU:HG2	1.99	0.43
1:S:199:ILE:HG21	1:S:204:ILE:HD13	2.01	0.43
1:T:243:ASN:O	1:f:257:HIS:HB2	2.18	0.43
1:U:199:ILE:HG21	1:U:204:ILE:HD13	2.01	0.43
1:Z:199:ILE:HG21	1:Z:204:ILE:HD13	2.01	0.43
1:1:161:ILE:HB	1:1:207:LYS:HB2	2.00	0.43
1:5:161:ILE:HB	1:5:207:LYS:HB2	2.00	0.43
1:6:131:LEU:HB2	1:6:211:TRP:CZ3	2.53	0.43
1:6:243:ASN:O	1:a:257:HIS:HB2	2.18	0.43
1:d:365:LEU:HD12	1:d:365:LEU:HA	1.81	0.43
1:g:257:HIS:HB2	1:h:243:ASN:O	2.18	0.43
1:i:290:GLN:HG2	1:i:291:PHE:N	2.33	0.43
1:k:199:ILE:HG21	1:k:204:ILE:HD13	2.01	0.43
1:n:161:ILE:HB	1:n:207:LYS:HB2	2.00	0.43
1:n:226:LEU:HD22	1:n:228:PHE:CZ	2.52	0.43
1:p:161:ILE:HB	1:p:207:LYS:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:126:TYR:OH	1:r:271:HIS:ND1	2.44	0.43
1:r:257:HIS:HB2	1:s:243:ASN:O	2.18	0.43
1:E:161:ILE:HB	1:E:207:LYS:HB2	2.00	0.43
1:E:199:ILE:HG21	1:E:204:ILE:HD13	2.01	0.43
1:H:177:VAL:HG22	1:H:178:TRP:H	1.84	0.43
1:S:177:VAL:HG22	1:S:178:TRP:H	1.84	0.43
1:S:257:HIS:HB2	1:U:243:ASN:O	2.18	0.43
1:W:161:ILE:HB	1:W:207:LYS:HB2	2.00	0.43
1:X:131:LEU:HB2	1:X:211:TRP:CZ3	2.53	0.43
1:X:161:ILE:HB	1:X:207:LYS:HB2	2.00	0.43
1:Z:257:HIS:HB2	1:x:243:ASN:O	2.18	0.43
1:3:177:VAL:HG22	1:3:178:TRP:H	1.84	0.43
1:5:131:LEU:HB2	1:5:211:TRP:CZ3	2.53	0.43
1:a:285:PHE:HE2	1:e:134:THR:HG21	1.84	0.43
1:b:161:ILE:HB	1:b:207:LYS:HB2	2.00	0.43
1:d:177:VAL:HG22	1:d:178:TRP:H	1.84	0.43
1:f:199:ILE:HG21	1:f:204:ILE:HD13	2.01	0.43
1:g:177:VAL:HG22	1:g:178:TRP:H	1.84	0.43
1:h:161:ILE:HB	1:h:207:LYS:HB2	2.00	0.43
1:i:314:VAL:HG11	1:z:99:TYR:HE1	1.82	0.43
1:m:199:ILE:HG21	1:m:204:ILE:HD13	2.01	0.43
1:n:199:ILE:HG21	1:n:204:ILE:HD13	2.01	0.43
1:p:131:LEU:HB2	1:p:211:TRP:CZ3	2.53	0.43
1:s:290:GLN:HG2	1:s:291:PHE:N	2.33	0.43
1:t:61:ARG:HG2	1:t:300:GLU:HG2	1.99	0.43
1:t:120:ARG:HA	1:t:121:PRO:HD3	1.86	0.43
1:t:199:ILE:HG21	1:t:204:ILE:HD13	2.01	0.43
1:u:226:LEU:HD22	1:u:228:PHE:CZ	2.52	0.43
1:v:177:VAL:HG22	1:v:178:TRP:H	1.84	0.43
1:A:126:TYR:OH	1:A:271:HIS:ND1	2.44	0.43
1:A:290:GLN:HG2	1:A:291:PHE:N	2.33	0.43
1:B:53:ILE:HD11	1:J:163:ASP:HB3	2.01	0.43
1:B:177:VAL:HG22	1:B:178:TRP:H	1.84	0.43
1:D:161:ILE:HB	1:D:207:LYS:HB2	2.00	0.43
1:E:177:VAL:HG22	1:E:178:TRP:H	1.84	0.43
1:K:177:VAL:HG22	1:K:178:TRP:H	1.84	0.43
1:K:257:HIS:HB2	1:1:243:ASN:O	2.18	0.43
1:L:199:ILE:HG21	1:L:204:ILE:HD13	2.01	0.43
1:M:126:TYR:OH	1:M:271:HIS:ND1	2.44	0.43
1:O:177:VAL:HG22	1:O:178:TRP:H	1.84	0.43
1:P:86:ASN:HA	1:P:268:MET:HE1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:120:ARG:HA	1:U:121:PRO:HD3	1.86	0.43
1:U:177:VAL:HG22	1:U:178:TRP:H	1.84	0.43
1:V:365:LEU:HD12	1:V:365:LEU:HA	1.81	0.43
1:1:290:GLN:HG2	1:1:291:PHE:N	2.33	0.43
1:2:177:VAL:HG22	1:2:178:TRP:H	1.84	0.43
1:4:257:HIS:HB2	1:f:243:ASN:O	2.18	0.43
1:5:199:ILE:HG21	1:5:204:ILE:HD13	2.01	0.43
1:6:199:ILE:HG21	1:6:204:ILE:HD13	2.01	0.43
1:a:365:LEU:HD12	1:a:365:LEU:HA	1.80	0.43
1:c:161:ILE:HB	1:c:207:LYS:HB2	2.00	0.43
1:e:161:ILE:HB	1:e:207:LYS:HB2	2.00	0.43
1:h:290:GLN:HG2	1:h:291:PHE:N	2.33	0.43
1:i:86:ASN:HA	1:i:268:MET:HE1	2.01	0.43
1:k:53:ILE:HD11	1:l:163:ASP:HB3	2.01	0.43
1:l:290:GLN:HG2	1:l:291:PHE:N	2.33	0.43
1:n:177:VAL:HG22	1:n:178:TRP:H	1.84	0.43
1:q:199:ILE:HG21	1:q:204:ILE:HD13	2.01	0.43
1:t:177:VAL:HG22	1:t:178:TRP:H	1.84	0.43
1:t:243:ASN:O	1:v:257:HIS:HB2	2.18	0.43
1:w:226:LEU:HD22	1:w:228:PHE:CZ	2.52	0.43
1:z:290:GLN:HG2	1:z:291:PHE:N	2.33	0.43
1:7:59:VAL:HG13	1:7:229:TRP:HH2	1.84	0.43
1:D:257:HIS:HB2	1:N:243:ASN:O	2.18	0.43
1:D:290:GLN:HG2	1:D:291:PHE:N	2.33	0.43
1:G:199:ILE:HG21	1:G:204:ILE:HD13	2.01	0.43
1:G:290:GLN:HG2	1:G:291:PHE:N	2.33	0.43
1:I:126:TYR:OH	1:I:271:HIS:ND1	2.43	0.43
1:I:199:ILE:HG21	1:I:204:ILE:HD13	2.01	0.43
1:J:161:ILE:HB	1:J:207:LYS:HB2	2.00	0.43
1:J:257:HIS:HB2	1:L:243:ASN:O	2.18	0.43
1:M:86:ASN:HA	1:M:268:MET:HE1	2.01	0.43
1:M:177:VAL:HG22	1:M:178:TRP:H	1.84	0.43
1:N:59:VAL:HG13	1:N:229:TRP:HH2	1.84	0.43
1:N:177:VAL:HG22	1:N:178:TRP:H	1.84	0.43
1:R:226:LEU:HD22	1:R:228:PHE:CZ	2.52	0.43
1:S:120:ARG:HA	1:S:121:PRO:HD3	1.86	0.43
1:X:177:VAL:HG22	1:X:178:TRP:H	1.84	0.43
1:X:365:LEU:HD12	1:X:365:LEU:HA	1.81	0.43
1:Z:126:TYR:OH	1:Z:271:HIS:ND1	2.44	0.43
1:Z:243:ASN:O	1:w:257:HIS:HB2	2.18	0.43
1:1:160:SER:HB2	1:1:272:TYR:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:314:VAL:HG11	1:h:99:TYR:HE1	1.83	0.43
1:4:365:LEU:HD12	1:4:365:LEU:HA	1.81	0.43
1:5:177:VAL:HG22	1:5:178:TRP:H	1.84	0.43
1:6:177:VAL:HG22	1:6:178:TRP:H	1.84	0.43
1:a:99:TYR:HE1	1:t:314:VAL:HG11	1.82	0.43
1:b:177:VAL:HG22	1:b:178:TRP:H	1.84	0.43
1:b:365:LEU:HD12	1:b:365:LEU:HA	1.81	0.43
1:c:53:ILE:HD11	1:d:163:ASP:HB3	2.00	0.43
1:c:204:ILE:HG22	1:e:308:VAL:HB	1.99	0.43
1:e:86:ASN:HA	1:e:268:MET:HE1	2.01	0.43
1:i:126:TYR:OH	1:i:271:HIS:ND1	2.44	0.43
1:k:177:VAL:HG22	1:k:178:TRP:H	1.84	0.43
1:l:161:ILE:HB	1:l:207:LYS:HB2	2.00	0.43
1:n:131:LEU:HB2	1:n:211:TRP:CZ3	2.53	0.43
1:q:290:GLN:HG2	1:q:291:PHE:N	2.33	0.43
1:r:199:ILE:HG21	1:r:204:ILE:HD13	2.01	0.43
1:w:86:ASN:HA	1:w:268:MET:HE1	2.01	0.43
1:y:86:ASN:HA	1:y:268:MET:HE1	2.01	0.43
1:z:161:ILE:HB	1:z:207:LYS:HB2	2.00	0.43
1:8:177:VAL:HG22	1:8:178:TRP:H	1.84	0.43
1:8:290:GLN:HG2	1:8:291:PHE:N	2.33	0.43
1:A:161:ILE:HB	1:A:207:LYS:HB2	2.00	0.43
1:F:59:VAL:HG13	1:F:229:TRP:HH2	1.84	0.43
1:H:163:ASP:HB3	1:Y:53:ILE:HD11	2.00	0.43
1:J:199:ILE:HG21	1:J:204:ILE:HD13	2.01	0.43
1:O:199:ILE:HG21	1:O:204:ILE:HD13	2.01	0.43
1:O:243:ASN:O	1:h:257:HIS:HB2	2.18	0.43
1:Q:365:LEU:HD12	1:Q:365:LEU:HA	1.81	0.43
1:U:314:VAL:HG11	1:V:99:TYR:HE1	1.82	0.43
1:Y:161:ILE:HB	1:Y:207:LYS:HB2	2.00	0.43
1:Z:290:GLN:HG2	1:Z:291:PHE:N	2.33	0.43
1:Z:365:LEU:HD12	1:Z:365:LEU:HA	1.81	0.43
1:4:86:ASN:HA	1:4:268:MET:HE1	2.01	0.43
1:4:226:LEU:HD22	1:4:228:PHE:CZ	2.52	0.43
1:b:131:LEU:HB2	1:b:211:TRP:CZ3	2.53	0.43
1:f:126:TYR:OH	1:f:271:HIS:ND1	2.44	0.43
1:f:290:GLN:HG2	1:f:291:PHE:N	2.33	0.43
1:l:199:ILE:HG21	1:l:204:ILE:HD13	2.01	0.43
1:l:257:HIS:HB2	1:m:243:ASN:O	2.18	0.43
1:n:243:ASN:O	1:p:257:HIS:HB2	2.18	0.43
1:p:59:VAL:HG13	1:p:229:TRP:HH2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:243:ASN:O	1:s:257:HIS:HB2	2.18	0.43
1:s:161:ILE:HB	1:s:207:LYS:HB2	2.00	0.43
1:t:59:VAL:HG13	1:t:229:TRP:HH2	1.84	0.43
1:u:290:GLN:HG2	1:u:291:PHE:N	2.33	0.43
1:w:365:LEU:HD12	1:w:365:LEU:HA	1.81	0.43
1:x:59:VAL:HG13	1:x:229:TRP:HH2	1.84	0.43
1:y:199:ILE:HG21	1:y:204:ILE:HD13	2.01	0.43
1:C:177:VAL:HG22	1:C:178:TRP:H	1.84	0.43
1:F:177:VAL:HG22	1:F:178:TRP:H	1.84	0.43
1:F:290:GLN:HG2	1:F:291:PHE:N	2.33	0.43
1:H:257:HIS:HB2	1:W:243:ASN:O	2.18	0.43
1:J:326:TRP:CZ3	1:J:327:ILE:HD11	2.54	0.43
1:K:334:VAL:HG23	1:K:336:ILE:HG12	2.01	0.43
1:M:161:ILE:HB	1:M:207:LYS:HB2	2.00	0.43
1:M:334:VAL:HG23	1:M:336:ILE:HG12	2.01	0.43
1:P:326:TRP:CZ3	1:P:327:ILE:HD11	2.54	0.43
1:Q:177:VAL:HG22	1:Q:178:TRP:H	1.84	0.43
1:Q:199:ILE:HG21	1:Q:204:ILE:HD13	2.01	0.43
1:R:53:ILE:HD11	1:S:163:ASP:HB3	2.01	0.43
1:R:177:VAL:HG22	1:R:178:TRP:H	1.84	0.43
1:U:59:VAL:HG13	1:U:229:TRP:HH2	1.84	0.43
1:W:86:ASN:HA	1:W:268:MET:HE1	2.01	0.43
1:W:177:VAL:HG22	1:W:178:TRP:H	1.84	0.43
1:X:199:ILE:HG21	1:X:204:ILE:HD13	2.01	0.43
1:1:257:HIS:HB2	1:8:243:ASN:O	2.18	0.43
1:3:161:ILE:HB	1:3:207:LYS:HB2	2.00	0.43
1:5:334:VAL:HG23	1:5:336:ILE:HG12	2.01	0.43
1:a:177:VAL:HG22	1:a:178:TRP:H	1.84	0.43
1:a:243:ASN:O	1:b:257:HIS:HB2	2.18	0.43
1:b:199:ILE:HG21	1:b:204:ILE:HD13	2.01	0.43
1:c:314:VAL:HG11	1:f:99:TYR:HE1	1.83	0.43
1:e:177:VAL:HG22	1:e:178:TRP:H	1.84	0.43
1:g:334:VAL:HG23	1:g:336:ILE:HG12	2.01	0.43
1:h:160:SER:HB2	1:h:272:TYR:HB2	1.99	0.43
1:i:177:VAL:HG22	1:i:178:TRP:H	1.84	0.43
1:j:177:VAL:HG22	1:j:178:TRP:H	1.84	0.43
1:o:177:VAL:HG22	1:o:178:TRP:H	1.84	0.43
1:p:177:VAL:HG22	1:p:178:TRP:H	1.84	0.43
1:p:290:GLN:HG2	1:p:291:PHE:N	2.33	0.43
1:q:126:TYR:OH	1:q:271:HIS:ND1	2.44	0.43
1:u:53:ILE:HD11	1:v:163:ASP:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:86:ASN:HA	1:v:268:MET:HE1	2.01	0.43
1:v:120:ARG:HA	1:v:121:PRO:HD3	1.86	0.43
1:y:326:TRP:CZ3	1:y:327:ILE:HD11	2.54	0.43
1:z:334:VAL:HG23	1:z:336:ILE:HG12	2.01	0.43
1:7:177:VAL:HG22	1:7:178:TRP:H	1.84	0.43
1:8:59:VAL:HG13	1:8:229:TRP:HH2	1.84	0.43
1:8:199:ILE:HG21	1:8:204:ILE:HD13	2.01	0.43
1:A:257:HIS:HB2	1:G:243:ASN:O	2.18	0.43
1:B:163:ASP:HB3	1:L:53:ILE:HD11	2.01	0.43
1:C:290:GLN:HG2	1:C:291:PHE:N	2.33	0.43
1:D:59:VAL:HG13	1:D:229:TRP:HH2	1.84	0.43
1:D:86:ASN:HA	1:D:268:MET:HE1	2.01	0.43
1:D:334:VAL:HG23	1:D:336:ILE:HG12	2.01	0.43
1:E:243:ASN:O	1:F:257:HIS:HB2	2.18	0.43
1:G:126:TYR:OH	1:G:271:HIS:ND1	2.43	0.43
1:I:177:VAL:HG22	1:I:178:TRP:H	1.84	0.43
1:N:122:THR:O	1:N:224:LEU:HD13	2.19	0.43
1:O:59:VAL:HG13	1:O:229:TRP:HH2	1.84	0.43
1:P:199:ILE:HG21	1:P:204:ILE:HD13	2.01	0.43
1:R:365:LEU:HD12	1:R:365:LEU:HA	1.81	0.43
1:S:86:ASN:HA	1:S:268:MET:HE1	2.01	0.43
1:S:122:THR:O	1:S:224:LEU:HD13	2.19	0.43
1:T:59:VAL:HG13	1:T:229:TRP:HH2	1.84	0.43
1:V:177:VAL:HG22	1:V:178:TRP:H	1.84	0.43
1:V:243:ASN:O	1:X:257:HIS:HB2	2.18	0.43
1:X:334:VAL:HG23	1:X:336:ILE:HG12	2.01	0.43
1:Y:177:VAL:HG22	1:Y:178:TRP:H	1.84	0.43
1:1:99:TYR:HE1	1:w:314:VAL:HG11	1.83	0.43
1:2:161:ILE:HB	1:2:207:LYS:HB2	2.00	0.43
1:2:199:ILE:HG21	1:2:204:ILE:HD13	2.01	0.43
1:3:199:ILE:HG21	1:3:204:ILE:HD13	2.01	0.43
1:4:177:VAL:HG22	1:4:178:TRP:H	1.84	0.43
1:6:334:VAL:HG23	1:6:336:ILE:HG12	2.01	0.43
1:b:334:VAL:HG23	1:b:336:ILE:HG12	2.01	0.43
1:d:334:VAL:HG23	1:d:336:ILE:HG12	2.01	0.43
1:e:122:THR:O	1:e:224:LEU:HD13	2.19	0.43
1:i:122:THR:O	1:i:224:LEU:HD13	2.19	0.43
1:i:334:VAL:HG23	1:i:336:ILE:HG12	2.01	0.43
1:k:86:ASN:HA	1:k:268:MET:HE1	2.01	0.43
1:l:177:VAL:HG22	1:l:178:TRP:H	1.84	0.43
1:l:326:TRP:CZ3	1:l:327:ILE:HD11	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:199:ILE:HG21	1:o:204:ILE:HD13	2.01	0.43
1:q:163:ASP:HB3	1:s:53:ILE:HD11	2.01	0.43
1:u:177:VAL:HG22	1:u:178:TRP:H	1.84	0.43
1:v:122:THR:O	1:v:224:LEU:HD13	2.19	0.43
1:z:53:ILE:HD11	1:7:163:ASP:HB3	2.01	0.43
1:z:59:VAL:HG13	1:z:229:TRP:HH2	1.84	0.43
1:z:86:ASN:HA	1:z:268:MET:HE1	2.01	0.43
1:7:122:THR:O	1:7:224:LEU:HD13	2.19	0.43
1:B:86:ASN:HA	1:B:268:MET:HE1	2.01	0.42
1:D:53:ILE:HD11	1:N:163:ASP:HB3	2.01	0.42
1:D:177:VAL:HG22	1:D:178:TRP:H	1.84	0.42
1:E:59:VAL:HG13	1:E:229:TRP:HH2	1.84	0.42
1:F:122:THR:O	1:F:224:LEU:HD13	2.19	0.42
1:G:257:HIS:HB2	1:I:243:ASN:O	2.18	0.42
1:H:334:VAL:HG23	1:H:336:ILE:HG12	2.01	0.42
1:I:326:TRP:CZ3	1:I:327:ILE:HD11	2.54	0.42
1:J:177:VAL:HG22	1:J:178:TRP:H	1.84	0.42
1:M:122:THR:O	1:M:224:LEU:HD13	2.19	0.42
1:N:326:TRP:CZ3	1:N:327:ILE:HD11	2.54	0.42
1:P:177:VAL:HG22	1:P:178:TRP:H	1.84	0.42
1:Q:122:THR:O	1:Q:224:LEU:HD13	2.19	0.42
1:R:163:ASP:HB3	1:U:53:ILE:HD11	2.01	0.42
1:R:290:GLN:HG2	1:R:291:PHE:N	2.33	0.42
1:V:161:ILE:HB	1:V:207:LYS:HB2	2.00	0.42
1:W:59:VAL:HG13	1:W:229:TRP:HH2	1.84	0.42
1:W:122:THR:O	1:W:224:LEU:HD13	2.19	0.42
1:Y:314:VAL:HG11	1:Z:99:TYR:HE1	1.83	0.42
1:1:177:VAL:HG22	1:1:178:TRP:H	1.84	0.42
1:2:122:THR:O	1:2:224:LEU:HD13	2.19	0.42
1:2:334:VAL:HG23	1:2:336:ILE:HG12	2.01	0.42
1:4:334:VAL:HG23	1:4:336:ILE:HG12	2.01	0.42
1:5:122:THR:O	1:5:224:LEU:HD13	2.19	0.42
1:6:122:THR:O	1:6:224:LEU:HD13	2.19	0.42
1:e:59:VAL:HG13	1:e:229:TRP:HH2	1.84	0.42
1:e:334:VAL:HG23	1:e:336:ILE:HG12	2.01	0.42
1:h:177:VAL:HG22	1:h:178:TRP:H	1.84	0.42
1:i:161:ILE:HB	1:i:207:LYS:HB2	2.00	0.42
1:j:59:VAL:HG13	1:j:229:TRP:HH2	1.84	0.42
1:k:163:ASP:HB3	1:m:53:ILE:HD11	2.01	0.42
1:m:86:ASN:HA	1:m:268:MET:HE1	2.01	0.42
1:m:269:ALA:HA	1:m:348:PRO:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:161:ILE:HB	1:o:207:LYS:HB2	2.00	0.42
1:r:290:GLN:HG2	1:r:291:PHE:N	2.33	0.42
1:r:326:TRP:CZ3	1:r:327:ILE:HD11	2.54	0.42
1:u:365:LEU:HD12	1:u:365:LEU:HA	1.81	0.42
1:v:334:VAL:HG23	1:v:336:ILE:HG12	2.01	0.42
1:w:177:VAL:HG22	1:w:178:TRP:H	1.84	0.42
1:y:177:VAL:HG22	1:y:178:TRP:H	1.84	0.42
1:z:326:TRP:CZ3	1:z:327:ILE:HD11	2.54	0.42
1:D:199:ILE:HG21	1:D:204:ILE:HD13	2.01	0.42
1:D:326:TRP:CZ3	1:D:327:ILE:HD11	2.54	0.42
1:J:59:VAL:HG13	1:J:229:TRP:HH2	1.84	0.42
1:K:59:VAL:HG13	1:K:229:TRP:HH2	1.84	0.42
1:O:326:TRP:CZ3	1:O:327:ILE:HD11	2.54	0.42
1:P:59:VAL:HG13	1:P:229:TRP:HH2	1.84	0.42
1:R:59:VAL:HG13	1:R:229:TRP:HH2	1.84	0.42
1:R:199:ILE:HG21	1:R:204:ILE:HD13	2.01	0.42
1:S:334:VAL:HG23	1:S:336:ILE:HG12	2.01	0.42
1:T:122:THR:O	1:T:224:LEU:HD13	2.19	0.42
1:U:334:VAL:HG23	1:U:336:ILE:HG12	2.01	0.42
1:W:334:VAL:HG23	1:W:336:ILE:HG12	2.01	0.42
1:3:122:THR:O	1:3:224:LEU:HD13	2.19	0.42
1:3:334:VAL:HG23	1:3:336:ILE:HG12	2.01	0.42
1:4:326:TRP:CZ3	1:4:327:ILE:HD11	2.54	0.42
1:c:177:VAL:HG22	1:c:178:TRP:H	1.84	0.42
1:g:59:VAL:HG13	1:g:229:TRP:HH2	1.84	0.42
1:g:365:LEU:HD12	1:g:365:LEU:HA	1.81	0.42
1:h:59:VAL:HG13	1:h:229:TRP:HH2	1.84	0.42
1:h:199:ILE:HG21	1:h:204:ILE:HD13	2.01	0.42
1:j:290:GLN:HG2	1:j:291:PHE:N	2.33	0.42
1:m:161:ILE:HB	1:m:207:LYS:HB2	2.00	0.42
1:o:122:THR:O	1:o:224:LEU:HD13	2.19	0.42
1:p:122:THR:O	1:p:224:LEU:HD13	2.19	0.42
1:t:53:ILE:HD11	1:u:163:ASP:HB3	2.01	0.42
1:u:59:VAL:HG13	1:u:229:TRP:HH2	1.84	0.42
1:u:199:ILE:HG21	1:u:204:ILE:HD13	2.01	0.42
1:w:326:TRP:CZ3	1:w:327:ILE:HD11	2.54	0.42
1:w:334:VAL:HG23	1:w:336:ILE:HG12	2.01	0.42
1:x:86:ASN:HA	1:x:268:MET:HE1	2.01	0.42
1:x:122:THR:O	1:x:224:LEU:HD13	2.19	0.42
1:x:199:ILE:HG21	1:x:204:ILE:HD13	2.01	0.42
1:x:326:TRP:CZ3	1:x:327:ILE:HD11	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:177:VAL:HG22	1:z:178:TRP:H	1.84	0.42
1:z:226:LEU:HD22	1:z:228:PHE:CZ	2.52	0.42
1:7:326:TRP:CZ3	1:7:327:ILE:HD11	2.54	0.42
1:8:326:TRP:CZ3	1:8:327:ILE:HD11	2.54	0.42
1:C:59:VAL:HG13	1:C:229:TRP:HH2	1.84	0.42
1:D:226:LEU:HD22	1:D:228:PHE:CZ	2.52	0.42
1:E:334:VAL:HG23	1:E:336:ILE:HG12	2.01	0.42
1:H:122:THR:O	1:H:224:LEU:HD13	2.19	0.42
1:I:290:GLN:HG2	1:I:291:PHE:N	2.33	0.42
1:L:269:ALA:HA	1:L:348:PRO:HB3	2.02	0.42
1:Q:161:ILE:HB	1:Q:207:LYS:HB2	2.00	0.42
1:Q:269:ALA:HA	1:Q:348:PRO:HB3	2.02	0.42
1:R:326:TRP:CZ3	1:R:327:ILE:HD11	2.54	0.42
1:T:86:ASN:HA	1:T:268:MET:HE1	2.01	0.42
1:T:199:ILE:HG21	1:T:204:ILE:HD13	2.01	0.42
1:T:326:TRP:CZ3	1:T:327:ILE:HD11	2.54	0.42
1:X:326:TRP:CZ3	1:X:327:ILE:HD11	2.54	0.42
1:Y:199:ILE:HG21	1:Y:204:ILE:HD13	2.01	0.42
1:Z:269:ALA:HA	1:Z:348:PRO:HB3	2.02	0.42
1:1:122:THR:O	1:1:224:LEU:HD13	2.19	0.42
1:1:199:ILE:HG21	1:1:204:ILE:HD13	2.01	0.42
1:2:59:VAL:HG13	1:2:229:TRP:HH2	1.84	0.42
1:3:326:TRP:CZ3	1:3:327:ILE:HD11	2.54	0.42
1:4:290:GLN:HG2	1:4:291:PHE:N	2.33	0.42
1:a:161:ILE:HB	1:a:207:LYS:HB2	2.01	0.42
1:a:326:TRP:CZ3	1:a:327:ILE:HD11	2.54	0.42
1:b:59:VAL:HG13	1:b:229:TRP:HH2	1.84	0.42
1:c:184:ARG:HH12	1:c:295:THR:HG1	1.66	0.42
1:c:199:ILE:HG21	1:c:204:ILE:HD13	2.01	0.42
1:d:122:THR:O	1:d:224:LEU:HD13	2.19	0.42
1:d:269:ALA:HA	1:d:348:PRO:HB3	2.02	0.42
1:f:59:VAL:HG13	1:f:229:TRP:HH2	1.84	0.42
1:f:326:TRP:CZ3	1:f:327:ILE:HD11	2.54	0.42
1:g:199:ILE:HG21	1:g:204:ILE:HD13	2.01	0.42
1:h:122:THR:O	1:h:224:LEU:HD13	2.19	0.42
1:k:257:HIS:HB2	1:l:243:ASN:O	2.18	0.42
1:n:59:VAL:HG13	1:n:229:TRP:HH2	1.84	0.42
1:n:334:VAL:HG23	1:n:336:ILE:HG12	2.01	0.42
1:o:269:ALA:HA	1:o:348:PRO:HB3	2.02	0.42
1:r:177:VAL:HG22	1:r:178:TRP:H	1.84	0.42
1:s:59:VAL:HG13	1:s:229:TRP:HH2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:334:VAL:HG23	1:t:336:ILE:HG12	2.01	0.42
1:u:269:ALA:HA	1:u:348:PRO:HB3	2.02	0.42
1:w:290:GLN:HG2	1:w:291:PHE:N	2.33	0.42
1:y:59:VAL:HG13	1:y:229:TRP:HH2	1.84	0.42
1:A:53:ILE:HD11	1:G:163:ASP:HB3	2.01	0.42
1:A:59:VAL:HG13	1:A:229:TRP:HH2	1.84	0.42
1:A:334:VAL:HG23	1:A:336:ILE:HG12	2.01	0.42
1:B:326:TRP:CZ3	1:B:327:ILE:HD11	2.54	0.42
1:C:53:ILE:HD11	1:2:163:ASP:HB3	2.01	0.42
1:G:59:VAL:HG13	1:G:229:TRP:HH2	1.84	0.42
1:H:53:ILE:HD11	1:W:163:ASP:HB3	2.01	0.42
1:H:199:ILE:HG21	1:H:204:ILE:HD13	2.01	0.42
1:H:269:ALA:HA	1:H:348:PRO:HB3	2.02	0.42
1:K:199:ILE:HG21	1:K:204:ILE:HD13	2.01	0.42
1:K:326:TRP:CZ3	1:K:327:ILE:HD11	2.54	0.42
1:L:59:VAL:HG13	1:L:229:TRP:HH2	1.84	0.42
1:L:161:ILE:HB	1:L:207:LYS:HB2	2.00	0.42
1:L:326:TRP:CZ3	1:L:327:ILE:HD11	2.54	0.42
1:N:53:ILE:HD11	1:P:163:ASP:HB3	2.01	0.42
1:N:199:ILE:HG21	1:N:204:ILE:HD13	2.01	0.42
1:N:269:ALA:HA	1:N:348:PRO:HB3	2.02	0.42
1:Q:120:ARG:HA	1:Q:121:PRO:HD3	1.86	0.42
1:Q:334:VAL:HG23	1:Q:336:ILE:HG12	2.01	0.42
1:R:269:ALA:HA	1:R:348:PRO:HB3	2.02	0.42
1:V:59:VAL:HG13	1:V:229:TRP:HH2	1.84	0.42
1:V:326:TRP:CZ3	1:V:327:ILE:HD11	2.54	0.42
1:Y:59:VAL:HG13	1:Y:229:TRP:HH2	1.84	0.42
1:Z:53:ILE:HD11	1:x:163:ASP:HB3	2.02	0.42
1:Z:326:TRP:CZ3	1:Z:327:ILE:HD11	2.54	0.42
1:1:59:VAL:HG13	1:1:229:TRP:HH2	1.84	0.42
1:2:326:TRP:CZ3	1:2:327:ILE:HD11	2.54	0.42
1:3:59:VAL:HG13	1:3:229:TRP:HH2	1.84	0.42
1:4:161:ILE:HB	1:4:207:LYS:HB2	2.00	0.42
1:a:59:VAL:HG13	1:a:229:TRP:HH2	1.84	0.42
1:b:326:TRP:CZ3	1:b:327:ILE:HD11	2.54	0.42
1:c:59:VAL:HG13	1:c:229:TRP:HH2	1.84	0.42
1:c:365:LEU:HD12	1:c:365:LEU:HA	1.81	0.42
1:d:199:ILE:HG21	1:d:204:ILE:HD13	2.01	0.42
1:e:285:PHE:CE2	1:q:134:THR:HG21	2.54	0.42
1:g:326:TRP:CZ3	1:g:327:ILE:HD11	2.54	0.42
1:j:334:VAL:HG23	1:j:336:ILE:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:326:TRP:CZ3	1:k:327:ILE:HD11	2.54	0.42
1:k:334:VAL:HG23	1:k:336:ILE:HG12	2.01	0.42
1:l:59:VAL:HG13	1:l:229:TRP:HH2	1.84	0.42
1:m:59:VAL:HG13	1:m:229:TRP:HH2	1.84	0.42
1:m:365:LEU:HD12	1:m:365:LEU:HA	1.81	0.42
1:o:334:VAL:HG23	1:o:336:ILE:HG12	2.01	0.42
1:q:59:VAL:HG13	1:q:229:TRP:HH2	1.84	0.42
1:q:257:HIS:HB2	1:r:243:ASN:O	2.18	0.42
1:s:334:VAL:HG23	1:s:336:ILE:HG12	2.01	0.42
1:u:326:TRP:CZ3	1:u:327:ILE:HD11	2.54	0.42
1:x:177:VAL:HG22	1:x:178:TRP:H	1.84	0.42
1:y:53:ILE:HD11	1:z:163:ASP:HB3	2.01	0.42
1:7:199:ILE:HG21	1:7:204:ILE:HD13	2.01	0.42
1:7:269:ALA:HA	1:7:348:PRO:HB3	2.01	0.42
1:B:257:HIS:HB2	1:J:243:ASN:O	2.18	0.42
1:B:334:VAL:HG23	1:B:336:ILE:HG12	2.01	0.42
1:C:334:VAL:HG23	1:C:336:ILE:HG12	2.01	0.42
1:D:163:ASP:HB3	1:P:53:ILE:HD11	2.01	0.42
1:E:163:ASP:HB3	1:F:53:ILE:HD11	2.01	0.42
1:G:177:VAL:HG22	1:G:178:TRP:H	1.84	0.42
1:I:122:THR:O	1:I:224:LEU:HD13	2.19	0.42
1:J:122:THR:O	1:J:224:LEU:HD13	2.19	0.42
1:N:290:GLN:HG2	1:N:291:PHE:N	2.33	0.42
1:P:269:ALA:HA	1:P:348:PRO:HB3	2.02	0.42
1:S:326:TRP:CZ3	1:S:327:ILE:HD11	2.54	0.42
1:T:163:ASP:HB3	1:f:53:ILE:HD11	2.02	0.42
1:U:244:ASP:OD1	1:U:244:ASP:N	2.53	0.42
1:U:269:ALA:HA	1:U:348:PRO:HB3	2.02	0.42
1:X:59:VAL:HG13	1:X:229:TRP:HH2	1.84	0.42
1:1:326:TRP:CZ3	1:1:327:ILE:HD11	2.54	0.42
1:3:163:ASP:HB3	1:j:53:ILE:HD11	2.01	0.42
1:5:59:VAL:HG13	1:5:229:TRP:HH2	1.84	0.42
1:d:53:ILE:HD11	1:e:163:ASP:HB3	2.01	0.42
1:e:179:PRO:O	1:e:188:TYR:OH	2.36	0.42
1:f:269:ALA:HA	1:f:348:PRO:HB3	2.02	0.42
1:f:365:LEU:HD12	1:f:365:LEU:HA	1.81	0.42
1:h:326:TRP:CZ3	1:h:327:ILE:HD11	2.54	0.42
1:l:122:THR:O	1:l:224:LEU:HD13	2.19	0.42
1:m:326:TRP:CZ3	1:m:327:ILE:HD11	2.54	0.42
1:n:163:ASP:HB3	1:p:53:ILE:HD11	2.01	0.42
1:o:120:ARG:HA	1:o:121:PRO:HD3	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:244:ASP:OD1	1:t:244:ASP:N	2.53	0.42
1:t:269:ALA:HA	1:t:348:PRO:HB3	2.02	0.42
1:v:326:TRP:CZ3	1:v:327:ILE:HD11	2.54	0.42
1:w:161:ILE:HB	1:w:207:LYS:HB2	2.00	0.42
1:z:199:ILE:HG21	1:z:204:ILE:HD13	2.01	0.42
1:7:290:GLN:HG2	1:7:291:PHE:N	2.33	0.42
1:A:86:ASN:HA	1:A:268:MET:HE1	2.01	0.42
1:C:76:THR:HB	1:C:77:PRO:HD2	2.02	0.42
1:C:244:ASP:OD1	1:C:244:ASP:N	2.53	0.42
1:C:257:HIS:HB2	1:2:243:ASN:O	2.18	0.42
1:J:244:ASP:N	1:J:244:ASP:OD1	2.53	0.42
1:J:327:ILE:HG23	1:J:327:ILE:HD12	1.81	0.42
1:L:122:THR:O	1:L:224:LEU:HD13	2.19	0.42
1:R:243:ASN:O	1:U:257:HIS:HB2	2.19	0.42
1:W:76:THR:HB	1:W:77:PRO:HD2	2.02	0.42
1:W:290:GLN:HG2	1:W:291:PHE:N	2.33	0.42
1:Z:59:VAL:HG13	1:Z:229:TRP:HH2	1.84	0.42
1:Z:122:THR:O	1:Z:224:LEU:HD13	2.19	0.42
1:4:59:VAL:HG13	1:4:229:TRP:HH2	1.84	0.42
1:6:59:VAL:HG13	1:6:229:TRP:HH2	1.84	0.42
1:6:269:ALA:HA	1:6:348:PRO:HB3	2.02	0.42
1:a:155:PRO:HG3	1:e:151:PHE:CZ	2.54	0.42
1:b:76:THR:HB	1:b:77:PRO:HD2	2.02	0.42
1:c:326:TRP:CZ3	1:c:327:ILE:HD11	2.54	0.42
1:d:161:ILE:HB	1:d:207:LYS:HB2	2.00	0.42
1:e:76:THR:HB	1:e:77:PRO:HD2	2.02	0.42
1:e:290:GLN:HG2	1:e:291:PHE:N	2.33	0.42
1:f:122:THR:O	1:f:224:LEU:HD13	2.19	0.42
1:g:122:THR:O	1:g:224:LEU:HD13	2.19	0.42
1:m:177:VAL:HG22	1:m:178:TRP:H	1.84	0.42
1:o:59:VAL:HG13	1:o:229:TRP:HH2	1.84	0.42
1:q:122:THR:O	1:q:224:LEU:HD13	2.19	0.42
1:r:122:THR:O	1:r:224:LEU:HD13	2.19	0.42
1:r:269:ALA:HA	1:r:348:PRO:HB3	2.02	0.42
1:s:326:TRP:CZ3	1:s:327:ILE:HD11	2.54	0.42
1:t:326:TRP:CZ3	1:t:327:ILE:HD11	2.54	0.42
1:y:126:TYR:OH	1:y:271:HIS:ND1	2.44	0.42
1:A:163:ASP:HB3	1:I:53:ILE:HD11	2.01	0.42
1:A:326:TRP:CZ3	1:A:327:ILE:HD11	2.54	0.42
1:B:82:VAL:HG21	1:B:170:VAL:HG11	2.02	0.42
1:D:122:THR:O	1:D:224:LEU:HD13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:122:THR:O	1:G:224:LEU:HD13	2.19	0.42
1:I:269:ALA:HA	1:I:348:PRO:HB3	2.02	0.42
1:K:122:THR:O	1:K:224:LEU:HD13	2.19	0.42
1:L:365:LEU:HD12	1:L:365:LEU:HA	1.81	0.42
1:M:199:ILE:HG21	1:M:204:ILE:HD13	2.01	0.42
1:T:177:VAL:HG22	1:T:178:TRP:H	1.84	0.42
1:U:86:ASN:HA	1:U:268:MET:HE1	2.01	0.42
1:U:326:TRP:CZ3	1:U:327:ILE:HD11	2.54	0.42
1:X:163:ASP:HB3	1:5:53:ILE:HD11	2.02	0.42
1:Y:122:THR:O	1:Y:224:LEU:HD13	2.19	0.42
1:Y:334:VAL:HG23	1:Y:336:ILE:HG12	2.01	0.42
1:Z:161:ILE:HB	1:Z:207:LYS:HB2	2.01	0.42
1:5:269:ALA:HA	1:5:348:PRO:HB3	2.02	0.42
1:c:82:VAL:HG21	1:c:170:VAL:HG11	2.02	0.42
1:e:126:TYR:OH	1:e:271:HIS:ND1	2.44	0.42
1:j:76:THR:HB	1:j:77:PRO:HD2	2.02	0.42
1:j:120:ARG:HA	1:j:121:PRO:HD3	1.86	0.42
1:j:244:ASP:OD1	1:j:244:ASP:N	2.53	0.42
1:k:82:VAL:HG21	1:k:170:VAL:HG11	2.02	0.42
1:l:244:ASP:N	1:l:244:ASP:OD1	2.53	0.42
1:t:257:HIS:HB2	1:u:243:ASN:O	2.19	0.42
1:y:269:ALA:HA	1:y:348:PRO:HB3	2.02	0.42
1:z:122:THR:O	1:z:224:LEU:HD13	2.19	0.42
1:7:126:TYR:OH	1:7:271:HIS:ND1	2.44	0.42
1:A:82:VAL:HG21	1:A:170:VAL:HG11	2.02	0.42
1:D:244:ASP:N	1:D:244:ASP:OD1	2.53	0.42
1:E:122:THR:O	1:E:224:LEU:HD13	2.19	0.42
1:E:239:VAL:HG21	1:E:268:MET:HE2	2.02	0.42
1:E:244:ASP:OD1	1:E:244:ASP:N	2.53	0.42
1:F:326:TRP:CZ3	1:F:327:ILE:HD11	2.54	0.42
1:F:334:VAL:HG23	1:F:336:ILE:HG12	2.01	0.42
1:H:126:TYR:OH	1:H:271:HIS:ND1	2.44	0.42
1:H:161:ILE:HB	1:H:207:LYS:HB2	2.00	0.42
1:I:334:VAL:HG23	1:I:336:ILE:HG12	2.01	0.42
1:L:76:THR:HB	1:L:77:PRO:HD2	2.02	0.42
1:L:177:VAL:HG22	1:L:178:TRP:H	1.84	0.42
1:M:76:THR:HB	1:M:77:PRO:HD2	2.02	0.42
1:M:82:VAL:HG21	1:M:170:VAL:HG11	2.02	0.42
1:M:244:ASP:N	1:M:244:ASP:OD1	2.53	0.42
1:N:161:ILE:HB	1:N:207:LYS:HB2	2.00	0.42
1:Q:59:VAL:HG13	1:Q:229:TRP:HH2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:244:ASP:N	1:Q:244:ASP:OD1	2.53	0.42
1:V:53:ILE:HD11	1:5:163:ASP:HB3	2.01	0.42
1:W:239:VAL:HG21	1:W:268:MET:HE2	2.02	0.42
1:X:244:ASP:N	1:X:244:ASP:OD1	2.53	0.42
1:Y:326:TRP:CZ3	1:Y:327:ILE:HD11	2.54	0.42
1:Z:82:VAL:HG21	1:Z:170:VAL:HG11	2.02	0.42
1:3:243:ASN:O	1:j:257:HIS:HB2	2.18	0.42
1:6:53:ILE:HD11	1:b:163:ASP:HB3	2.02	0.42
1:6:163:ASP:HB3	1:a:53:ILE:HD11	2.01	0.42
1:6:326:TRP:CZ3	1:6:327:ILE:HD11	2.54	0.42
1:a:122:THR:O	1:a:224:LEU:HD13	2.19	0.42
1:b:244:ASP:N	1:b:244:ASP:OD1	2.53	0.42
1:c:334:VAL:HG23	1:c:336:ILE:HG12	2.01	0.42
1:d:126:TYR:OH	1:d:271:HIS:ND1	2.44	0.42
1:f:161:ILE:HB	1:f:207:LYS:HB2	2.00	0.42
1:i:76:THR:HB	1:i:77:PRO:HD2	2.02	0.42
1:i:82:VAL:HG21	1:i:170:VAL:HG11	2.02	0.42
1:j:269:ALA:HA	1:j:348:PRO:HB3	2.02	0.42
1:m:76:THR:HB	1:m:77:PRO:HD2	2.02	0.42
1:m:122:THR:O	1:m:224:LEU:HD13	2.19	0.42
1:n:82:VAL:HG21	1:n:170:VAL:HG11	2.02	0.42
1:n:122:THR:O	1:n:224:LEU:HD13	2.19	0.42
1:n:239:VAL:HG21	1:n:268:MET:HE2	2.02	0.42
1:n:244:ASP:OD1	1:n:244:ASP:N	2.53	0.42
1:p:334:VAL:HG23	1:p:336:ILE:HG12	2.01	0.42
1:q:82:VAL:HG21	1:q:170:VAL:HG11	2.02	0.42
1:q:177:VAL:HG22	1:q:178:TRP:H	1.84	0.42
1:r:53:ILE:HD11	1:s:163:ASP:HB3	2.01	0.42
1:r:334:VAL:HG23	1:r:336:ILE:HG12	2.01	0.42
1:s:82:VAL:HG21	1:s:170:VAL:HG11	2.02	0.42
1:s:86:ASN:HA	1:s:268:MET:HE1	2.01	0.42
1:t:86:ASN:HA	1:t:268:MET:HE1	2.01	0.42
1:t:122:THR:O	1:t:224:LEU:HD13	2.19	0.42
1:w:59:VAL:HG13	1:w:229:TRP:HH2	1.84	0.42
1:x:161:ILE:HB	1:x:207:LYS:HB2	2.00	0.42
1:y:82:VAL:HG21	1:y:170:VAL:HG11	2.02	0.42
1:y:243:ASN:O	1:7:257:HIS:HB2	2.20	0.42
1:7:161:ILE:HB	1:7:207:LYS:HB2	2.00	0.42
1:8:334:VAL:HG23	1:8:336:ILE:HG12	2.01	0.42
1:A:177:VAL:HG22	1:A:178:TRP:H	1.84	0.42
1:C:269:ALA:HA	1:C:348:PRO:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:53:ILE:HD11	1:Q:163:ASP:HB3	2.02	0.42
1:E:82:VAL:HG21	1:E:170:VAL:HG11	2.02	0.42
1:F:269:ALA:HA	1:F:348:PRO:HB3	2.02	0.42
1:G:82:VAL:HG21	1:G:170:VAL:HG11	2.02	0.42
1:K:163:ASP:HB3	1:8:53:ILE:HD11	2.02	0.42
1:N:76:THR:HB	1:N:77:PRO:HD2	2.02	0.42
1:N:86:ASN:HA	1:N:268:MET:HE1	2.01	0.42
1:O:53:ILE:HD11	1:g:163:ASP:HB3	2.02	0.42
1:O:334:VAL:HG23	1:O:336:ILE:HG12	2.01	0.42
1:P:82:VAL:HG21	1:P:170:VAL:HG11	2.02	0.42
1:P:126:TYR:OH	1:P:271:HIS:ND1	2.44	0.42
1:R:82:VAL:HG21	1:R:170:VAL:HG11	2.02	0.42
1:R:161:ILE:HB	1:R:207:LYS:HB2	2.00	0.42
1:S:239:VAL:HG21	1:S:268:MET:HE2	2.02	0.42
1:T:76:THR:HB	1:T:77:PRO:HD2	2.02	0.42
1:T:161:ILE:HB	1:T:207:LYS:HB2	2.00	0.42
1:T:244:ASP:N	1:T:244:ASP:OD1	2.53	0.42
1:U:161:ILE:HB	1:U:207:LYS:HB2	2.00	0.42
1:V:122:THR:O	1:V:224:LEU:HD13	2.19	0.42
1:V:163:ASP:HB3	1:X:53:ILE:HD11	2.01	0.42
1:W:82:VAL:HG21	1:W:170:VAL:HG11	2.02	0.42
1:X:76:THR:HB	1:X:77:PRO:HD2	2.02	0.42
1:X:86:ASN:HA	1:X:268:MET:HE1	2.01	0.42
1:Y:82:VAL:HG21	1:Y:170:VAL:HG11	2.02	0.42
1:2:239:VAL:HG21	1:2:268:MET:HE2	2.02	0.42
1:3:239:VAL:HG21	1:3:268:MET:HE2	2.02	0.42
1:5:326:TRP:CZ3	1:5:327:ILE:HD11	2.54	0.42
1:a:199:ILE:HG21	1:a:204:ILE:HD13	2.01	0.42
1:c:122:THR:O	1:c:224:LEU:HD13	2.19	0.42
1:d:59:VAL:HG13	1:d:229:TRP:HH2	1.84	0.42
1:e:82:VAL:HG21	1:e:170:VAL:HG11	2.02	0.42
1:e:239:VAL:HG21	1:e:268:MET:HE2	2.02	0.42
1:f:82:VAL:HG21	1:f:170:VAL:HG11	2.02	0.42
1:i:199:ILE:HG21	1:i:204:ILE:HD13	2.01	0.42
1:i:244:ASP:OD1	1:i:244:ASP:N	2.53	0.42
1:i:269:ALA:HA	1:i:348:PRO:HB3	2.02	0.42
1:l:365:LEU:HD12	1:l:365:LEU:HA	1.81	0.42
1:o:244:ASP:N	1:o:244:ASP:OD1	2.53	0.42
1:p:269:ALA:HA	1:p:348:PRO:HB3	2.02	0.42
1:p:326:TRP:CZ3	1:p:327:ILE:HD11	2.54	0.42
1:s:177:VAL:HG22	1:s:178:TRP:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:161:ILE:HB	1:t:207:LYS:HB2	2.00	0.42
1:u:76:THR:HB	1:u:77:PRO:HD2	2.02	0.42
1:u:82:VAL:HG21	1:u:170:VAL:HG11	2.02	0.42
1:u:126:TYR:OH	1:u:271:HIS:ND1	2.44	0.42
1:u:161:ILE:HB	1:u:207:LYS:HB2	2.00	0.42
1:v:239:VAL:HG21	1:v:268:MET:HE2	2.02	0.42
1:w:122:THR:O	1:w:224:LEU:HD13	2.19	0.42
1:x:76:THR:HB	1:x:77:PRO:HD2	2.02	0.42
1:y:161:ILE:HB	1:y:207:LYS:HB2	2.00	0.42
1:z:244:ASP:N	1:z:244:ASP:OD1	2.53	0.42
1:z:269:ALA:HA	1:z:348:PRO:HB3	2.02	0.42
1:7:76:THR:HB	1:7:77:PRO:HD2	2.02	0.42
1:A:199:ILE:HG21	1:A:204:ILE:HD13	2.01	0.42
1:A:269:ALA:HA	1:A:348:PRO:HB3	2.02	0.42
1:B:122:THR:O	1:B:224:LEU:HD13	2.19	0.42
1:E:76:THR:HB	1:E:77:PRO:HD2	2.02	0.42
1:F:244:ASP:OD1	1:F:244:ASP:N	2.53	0.42
1:G:326:TRP:CZ3	1:G:327:ILE:HD11	2.54	0.42
1:H:59:VAL:HG13	1:H:229:TRP:HH2	1.84	0.42
1:H:326:TRP:CZ3	1:H:327:ILE:HD11	2.54	0.42
1:I:239:VAL:HG21	1:I:268:MET:HE2	2.02	0.42
1:M:239:VAL:HG21	1:M:268:MET:HE2	2.02	0.42
1:O:161:ILE:HB	1:O:207:LYS:HB2	2.00	0.42
1:P:161:ILE:HB	1:P:207:LYS:HB2	2.00	0.42
1:Q:239:VAL:HG21	1:Q:268:MET:HE2	2.02	0.42
1:R:76:THR:HB	1:R:77:PRO:HD2	2.02	0.42
1:R:122:THR:O	1:R:224:LEU:HD13	2.19	0.42
1:U:76:THR:HB	1:U:77:PRO:HD2	2.02	0.42
1:U:122:THR:O	1:U:224:LEU:HD13	2.19	0.42
1:V:199:ILE:HG21	1:V:204:ILE:HD13	2.01	0.42
1:W:126:TYR:OH	1:W:271:HIS:ND1	2.44	0.42
1:Y:76:THR:HB	1:Y:77:PRO:HD2	2.02	0.42
1:4:122:THR:O	1:4:224:LEU:HD13	2.19	0.42
1:a:334:VAL:HG23	1:a:336:ILE:HG12	2.01	0.42
1:c:76:THR:HB	1:c:77:PRO:HD2	2.02	0.42
1:i:239:VAL:HG21	1:i:268:MET:HE2	2.02	0.42
1:j:122:THR:O	1:j:224:LEU:HD13	2.19	0.42
1:j:326:TRP:CZ3	1:j:327:ILE:HD11	2.54	0.42
1:k:122:THR:O	1:k:224:LEU:HD13	2.19	0.42
1:l:53:ILE:HD11	1:m:163:ASP:HB3	2.01	0.42
1:n:76:THR:HB	1:n:77:PRO:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:269:ALA:HA	1:n:348:PRO:HB3	2.02	0.42
1:n:326:TRP:CZ3	1:n:327:ILE:HD11	2.54	0.42
1:p:239:VAL:HG21	1:p:268:MET:HE2	2.02	0.42
1:p:244:ASP:OD1	1:p:244:ASP:N	2.53	0.42
1:q:53:ILE:HD11	1:r:163:ASP:HB3	2.01	0.42
1:r:239:VAL:HG21	1:r:268:MET:HE2	2.02	0.42
1:s:122:THR:O	1:s:224:LEU:HD13	2.19	0.42
1:t:76:THR:HB	1:t:77:PRO:HD2	2.02	0.42
1:u:122:THR:O	1:u:224:LEU:HD13	2.19	0.42
1:w:76:THR:HB	1:w:77:PRO:HD2	2.02	0.42
1:w:244:ASP:OD1	1:w:244:ASP:N	2.53	0.42
1:z:120:ARG:HA	1:z:121:PRO:HD3	1.86	0.42
1:z:239:VAL:HG21	1:z:268:MET:HE2	2.02	0.42
1:8:161:ILE:HB	1:8:207:LYS:HB2	2.00	0.42
1:A:122:THR:O	1:A:224:LEU:HD13	2.19	0.41
1:C:122:THR:O	1:C:224:LEU:HD13	2.19	0.41
1:C:239:VAL:HG21	1:C:268:MET:HE2	2.02	0.41
1:C:326:TRP:CZ3	1:C:327:ILE:HD11	2.54	0.41
1:D:269:ALA:HA	1:D:348:PRO:HB3	2.02	0.41
1:E:326:TRP:CZ3	1:E:327:ILE:HD11	2.54	0.41
1:F:199:ILE:HG21	1:F:204:ILE:HD13	2.01	0.41
1:F:239:VAL:HG21	1:F:268:MET:HE2	2.02	0.41
1:G:86:ASN:HA	1:G:268:MET:HE1	2.01	0.41
1:H:82:VAL:HG21	1:H:170:VAL:HG11	2.02	0.41
1:H:243:ASN:O	1:Y:257:HIS:HB2	2.20	0.41
1:I:86:ASN:HA	1:I:268:MET:HE1	2.01	0.41
1:J:53:ILE:HD11	1:L:163:ASP:HB3	2.01	0.41
1:J:76:THR:HB	1:J:77:PRO:HD2	2.02	0.41
1:K:76:THR:HB	1:K:77:PRO:HD2	2.02	0.41
1:M:326:TRP:CZ3	1:M:327:ILE:HD11	2.54	0.41
1:N:126:TYR:OH	1:N:271:HIS:ND1	2.44	0.41
1:T:239:VAL:HG21	1:T:268:MET:HE2	2.02	0.41
1:T:269:ALA:HA	1:T:348:PRO:HB3	2.02	0.41
1:W:280:THR:OG1	1:W:282:ASP:O	2.38	0.41
1:Y:365:LEU:HD12	1:Y:365:LEU:HA	1.81	0.41
1:Z:239:VAL:HG21	1:Z:268:MET:HE2	2.02	0.41
1:3:86:ASN:HA	1:3:268:MET:HE1	2.01	0.41
1:4:76:THR:HB	1:4:77:PRO:HD2	2.02	0.41
1:4:244:ASP:OD1	1:4:244:ASP:N	2.53	0.41
1:5:82:VAL:HG21	1:5:170:VAL:HG11	2.02	0.41
1:a:163:ASP:HB3	1:b:53:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:122:THR:O	1:b:224:LEU:HD13	2.19	0.41
1:d:326:TRP:CZ3	1:d:327:ILE:HD11	2.54	0.41
1:e:280:THR:OG1	1:e:282:ASP:O	2.38	0.41
1:f:76:THR:HB	1:f:77:PRO:HD2	2.02	0.41
1:f:239:VAL:HG21	1:f:268:MET:HE2	2.02	0.41
1:l:239:VAL:HG21	1:l:268:MET:HE2	2.02	0.41
1:n:53:ILE:HD11	1:o:163:ASP:HB3	2.02	0.41
1:o:239:VAL:HG21	1:o:268:MET:HE2	2.02	0.41
1:q:86:ASN:HA	1:q:268:MET:HE1	2.01	0.41
1:s:199:ILE:HG21	1:s:204:ILE:HD13	2.01	0.41
1:s:269:ALA:HA	1:s:348:PRO:HB3	2.02	0.41
1:u:86:ASN:HA	1:u:268:MET:HE1	2.01	0.41
1:x:244:ASP:N	1:x:244:ASP:OD1	2.53	0.41
1:D:76:THR:HB	1:D:77:PRO:HD2	2.02	0.41
1:D:120:ARG:HA	1:D:121:PRO:HD3	1.86	0.41
1:D:239:VAL:HG21	1:D:268:MET:HE2	2.02	0.41
1:E:269:ALA:HA	1:E:348:PRO:HB3	2.02	0.41
1:F:163:ASP:HB3	1:Q:53:ILE:HD11	2.01	0.41
1:F:280:THR:OG1	1:F:282:ASP:O	2.38	0.41
1:J:239:VAL:HG21	1:J:268:MET:HE2	2.02	0.41
1:J:334:VAL:HG23	1:J:336:ILE:HG12	2.01	0.41
1:M:163:ASP:HB3	1:2:53:ILE:HD11	2.02	0.41
1:M:269:ALA:HA	1:M:348:PRO:HB3	2.02	0.41
1:N:239:VAL:HG21	1:N:268:MET:HE2	2.02	0.41
1:O:86:ASN:HA	1:O:268:MET:HE1	2.01	0.41
1:O:365:LEU:HD12	1:O:365:LEU:HA	1.81	0.41
1:P:280:THR:OG1	1:P:282:ASP:O	2.39	0.41
1:V:76:THR:HB	1:V:77:PRO:HD2	2.02	0.41
1:V:82:VAL:HG21	1:V:170:VAL:HG11	2.02	0.41
1:Y:239:VAL:HG21	1:Y:268:MET:HE2	2.02	0.41
1:Z:76:THR:HB	1:Z:77:PRO:HD2	2.02	0.41
1:Z:86:ASN:HA	1:Z:268:MET:HE1	2.01	0.41
1:3:53:ILE:HD11	1:i:163:ASP:HB3	2.02	0.41
1:3:269:ALA:HA	1:3:348:PRO:HB3	2.02	0.41
1:6:82:VAL:HG21	1:6:170:VAL:HG11	2.02	0.41
1:6:280:THR:OG1	1:6:282:ASP:O	2.38	0.41
1:a:76:THR:HB	1:a:77:PRO:HD2	2.02	0.41
1:a:82:VAL:HG21	1:a:170:VAL:HG11	2.02	0.41
1:a:86:ASN:HA	1:a:268:MET:HE1	2.01	0.41
1:b:86:ASN:HA	1:b:268:MET:HE1	2.01	0.41
1:d:82:VAL:HG21	1:d:170:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:239:VAL:HG21	1:j:268:MET:HE2	2.02	0.41
1:k:59:VAL:HG13	1:k:229:TRP:HH2	1.84	0.41
1:l:76:THR:HB	1:l:77:PRO:HD2	2.02	0.41
1:l:269:ALA:HA	1:l:348:PRO:HB3	2.02	0.41
1:l:334:VAL:HG23	1:l:336:ILE:HG12	2.01	0.41
1:m:334:VAL:HG23	1:m:336:ILE:HG12	2.01	0.41
1:p:199:ILE:HG21	1:p:204:ILE:HD13	2.01	0.41
1:p:280:THR:OG1	1:p:282:ASP:O	2.38	0.41
1:q:269:ALA:HA	1:q:348:PRO:HB3	2.02	0.41
1:q:326:TRP:CZ3	1:q:327:ILE:HD11	2.54	0.41
1:q:334:VAL:HG23	1:q:336:ILE:HG12	2.01	0.41
1:v:59:VAL:HG13	1:v:229:TRP:HH2	1.84	0.41
1:x:239:VAL:HG21	1:x:268:MET:HE2	2.02	0.41
1:x:269:ALA:HA	1:x:348:PRO:HB3	2.02	0.41
1:y:334:VAL:HG23	1:y:336:ILE:HG12	2.01	0.41
1:z:76:THR:HB	1:z:77:PRO:HD2	2.02	0.41
1:7:239:VAL:HG21	1:7:268:MET:HE2	2.02	0.41
1:8:122:THR:O	1:8:224:LEU:HD13	2.19	0.41
1:C:120:ARG:HA	1:C:121:PRO:HD3	1.86	0.41
1:G:334:VAL:HG23	1:G:336:ILE:HG12	2.01	0.41
1:H:86:ASN:HA	1:H:268:MET:HE1	2.01	0.41
1:J:269:ALA:HA	1:J:348:PRO:HB3	2.02	0.41
1:J:365:LEU:HD12	1:J:365:LEU:HA	1.81	0.41
1:K:82:VAL:HG21	1:K:170:VAL:HG11	2.02	0.41
1:L:334:VAL:HG23	1:L:336:ILE:HG12	2.01	0.41
1:P:334:VAL:HG23	1:P:336:ILE:HG12	2.01	0.41
1:R:86:ASN:HA	1:R:268:MET:HE1	2.01	0.41
1:S:53:ILE:HD11	1:U:163:ASP:HB3	2.01	0.41
1:T:53:ILE:HD11	1:4:163:ASP:HB3	2.01	0.41
1:T:334:VAL:HG23	1:T:336:ILE:HG12	2.01	0.41
1:V:86:ASN:HA	1:V:268:MET:HE1	2.01	0.41
1:W:269:ALA:HA	1:W:348:PRO:HB3	2.01	0.41
1:W:326:TRP:CZ3	1:W:327:ILE:HD11	2.54	0.41
1:X:122:THR:O	1:X:224:LEU:HD13	2.19	0.41
1:Z:163:ASP:HB3	1:w:53:ILE:HD11	2.01	0.41
1:2:86:ASN:HA	1:2:268:MET:HE1	2.01	0.41
1:2:269:ALA:HA	1:2:348:PRO:HB3	2.02	0.41
1:5:280:THR:OG1	1:5:282:ASP:O	2.38	0.41
1:a:269:ALA:HA	1:a:348:PRO:HB3	2.02	0.41
1:c:243:ASN:O	1:e:257:HIS:HB2	2.21	0.41
1:d:86:ASN:HA	1:d:268:MET:HE1	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:269:ALA:HA	1:e:348:PRO:HB3	2.02	0.41
1:e:326:TRP:CZ3	1:e:327:ILE:HD11	2.54	0.41
1:g:76:THR:HB	1:g:77:PRO:HD2	2.02	0.41
1:g:86:ASN:HA	1:g:268:MET:HE1	2.01	0.41
1:g:239:VAL:HG21	1:g:268:MET:HE2	2.02	0.41
1:i:326:TRP:CZ3	1:i:327:ILE:HD11	2.54	0.41
1:n:86:ASN:HA	1:n:268:MET:HE1	2.01	0.41
1:o:326:TRP:CZ3	1:o:327:ILE:HD11	2.54	0.41
1:r:86:ASN:HA	1:r:268:MET:HE1	2.01	0.41
1:s:126:TYR:OH	1:s:271:HIS:ND1	2.44	0.41
1:t:163:ASP:HB3	1:v:53:ILE:HD11	2.01	0.41
1:w:199:ILE:HG21	1:w:204:ILE:HD13	2.01	0.41
1:x:334:VAL:HG23	1:x:336:ILE:HG12	2.01	0.41
1:y:280:THR:OG1	1:y:282:ASP:O	2.39	0.41
1:B:239:VAL:HG21	1:B:268:MET:HE2	2.02	0.41
1:G:269:ALA:HA	1:G:348:PRO:HB3	2.02	0.41
1:K:86:ASN:HA	1:K:268:MET:HE1	2.01	0.41
1:K:156:TYR:CE2	1:7:132:ILE:HD11	2.56	0.41
1:K:239:VAL:HG21	1:K:268:MET:HE2	2.02	0.41
1:Q:326:TRP:CZ3	1:Q:327:ILE:HD11	2.54	0.41
1:R:126:TYR:OH	1:R:271:HIS:ND1	2.44	0.41
1:S:59:VAL:HG13	1:S:229:TRP:HH2	1.84	0.41
1:V:269:ALA:HA	1:V:348:PRO:HB3	2.02	0.41
1:V:334:VAL:HG23	1:V:336:ILE:HG12	2.01	0.41
1:W:53:ILE:HD11	1:Y:163:ASP:HB3	2.01	0.41
1:Y:269:ALA:HA	1:Y:348:PRO:HB3	2.02	0.41
1:1:269:ALA:HA	1:1:348:PRO:HB3	2.02	0.41
1:1:280:THR:OG1	1:1:282:ASP:O	2.38	0.41
1:1:334:VAL:HG23	1:1:336:ILE:HG12	2.01	0.41
1:4:53:ILE:HD11	1:f:163:ASP:HB3	2.01	0.41
1:4:239:VAL:HG21	1:4:268:MET:HE2	2.02	0.41
1:c:86:ASN:HA	1:c:268:MET:HE1	2.01	0.41
1:c:239:VAL:HG21	1:c:268:MET:HE2	2.02	0.41
1:c:269:ALA:HA	1:c:348:PRO:HB3	2.02	0.41
1:f:86:ASN:HA	1:f:268:MET:HE1	2.01	0.41
1:g:280:THR:OG1	1:g:282:ASP:O	2.38	0.41
1:i:59:VAL:HG13	1:i:229:TRP:HH2	1.84	0.41
1:k:239:VAL:HG21	1:k:268:MET:HE2	2.02	0.41
1:l:280:THR:OG1	1:l:282:ASP:O	2.38	0.41
1:o:82:VAL:HG21	1:o:170:VAL:HG11	2.02	0.41
1:v:269:ALA:HA	1:v:348:PRO:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:86:ASN:HA	1:7:268:MET:HE1	2.01	0.41
1:8:86:ASN:HA	1:8:268:MET:HE1	2.01	0.41
1:B:59:VAL:HG13	1:B:229:TRP:HH2	1.84	0.41
1:C:86:ASN:HA	1:C:268:MET:HE1	2.01	0.41
1:E:86:ASN:HA	1:E:268:MET:HE1	2.01	0.41
1:E:122:THR:HG21	1:E:300:GLU:HG3	2.03	0.41
1:F:76:THR:HB	1:F:77:PRO:HD2	2.02	0.41
1:G:53:ILE:HD11	1:I:163:ASP:HB3	2.01	0.41
1:I:280:THR:OG1	1:I:282:ASP:O	2.38	0.41
1:J:280:THR:OG1	1:J:282:ASP:O	2.39	0.41
1:M:59:VAL:HG13	1:M:229:TRP:HH2	1.84	0.41
1:O:122:THR:O	1:O:224:LEU:HD13	2.19	0.41
1:P:122:THR:O	1:P:224:LEU:HD13	2.19	0.41
1:Q:82:VAL:HG21	1:Q:170:VAL:HG11	2.02	0.41
1:W:138:LEU:HA	1:W:147:THR:HA	2.03	0.41
1:W:199:ILE:HG21	1:W:204:ILE:HD13	2.01	0.41
1:Z:177:VAL:HG22	1:Z:178:TRP:H	1.84	0.41
1:4:199:ILE:HG21	1:4:204:ILE:HD13	2.01	0.41
1:a:244:ASP:OD1	1:a:244:ASP:N	2.53	0.41
1:c:257:HIS:HB2	1:d:243:ASN:O	2.20	0.41
1:d:239:VAL:HG21	1:d:268:MET:HE2	2.02	0.41
1:e:138:LEU:HA	1:e:147:THR:HA	2.03	0.41
1:f:334:VAL:HG23	1:f:336:ILE:HG12	2.01	0.41
1:g:82:VAL:HG21	1:g:170:VAL:HG11	2.02	0.41
1:g:269:ALA:HA	1:g:348:PRO:HB3	2.02	0.41
1:h:280:THR:OG1	1:h:282:ASP:O	2.38	0.41
1:h:334:VAL:HG23	1:h:336:ILE:HG12	2.01	0.41
1:n:122:THR:HG21	1:n:300:GLU:HG3	2.03	0.41
1:o:53:ILE:HD11	1:p:163:ASP:HB3	2.01	0.41
1:p:76:THR:HB	1:p:77:PRO:HD2	2.02	0.41
1:s:76:THR:HB	1:s:77:PRO:HD2	2.02	0.41
1:w:163:ASP:HB3	1:x:53:ILE:HD11	2.01	0.41
1:w:239:VAL:HG21	1:w:268:MET:HE2	2.02	0.41
1:x:82:VAL:HG21	1:x:170:VAL:HG11	2.02	0.41
1:y:122:THR:O	1:y:224:LEU:HD13	2.19	0.41
1:A:76:THR:HB	1:A:77:PRO:HD2	2.02	0.41
1:D:138:LEU:HA	1:D:147:THR:HA	2.03	0.41
1:H:239:VAL:HG21	1:H:268:MET:HE2	2.02	0.41
1:I:59:VAL:HG13	1:I:229:TRP:HH2	1.84	0.41
1:K:122:THR:HG21	1:K:300:GLU:HG3	2.03	0.41
1:K:280:THR:OG1	1:K:282:ASP:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:269:ALA:HA	1:S:348:PRO:HB3	2.02	0.41
1:T:82:VAL:HG21	1:T:170:VAL:HG11	2.02	0.41
1:V:244:ASP:OD1	1:V:244:ASP:N	2.53	0.41
1:W:244:ASP:N	1:W:244:ASP:OD1	2.53	0.41
1:Y:86:ASN:HA	1:Y:268:MET:HE1	2.01	0.41
1:Y:120:ARG:HA	1:Y:121:PRO:HD3	1.86	0.41
1:Y:132:ILE:HD11	1:x:156:TYR:CE2	2.56	0.41
1:Z:334:VAL:HG23	1:Z:336:ILE:HG12	2.01	0.41
1:3:244:ASP:OD1	1:3:244:ASP:N	2.53	0.41
1:b:138:LEU:HA	1:b:147:THR:HA	2.03	0.41
1:e:244:ASP:N	1:e:244:ASP:OD1	2.53	0.41
1:f:177:VAL:HG22	1:f:178:TRP:H	1.84	0.41
1:g:122:THR:HG21	1:g:300:GLU:HG3	2.03	0.41
1:h:269:ALA:HA	1:h:348:PRO:HB3	2.02	0.41
1:i:120:ARG:HA	1:i:121:PRO:HD3	1.86	0.41
1:j:199:ILE:HG21	1:j:204:ILE:HD13	2.01	0.41
1:k:138:LEU:HA	1:k:147:THR:HA	2.03	0.41
1:m:138:LEU:HA	1:m:147:THR:HA	2.03	0.41
1:s:239:VAL:HG21	1:s:268:MET:HE2	2.02	0.41
1:z:138:LEU:HA	1:z:147:THR:HA	2.03	0.41
1:A:122:THR:HG21	1:A:300:GLU:HG3	2.03	0.41
1:A:239:VAL:HG21	1:A:268:MET:HE2	2.02	0.41
1:B:138:LEU:HA	1:B:147:THR:HA	2.03	0.41
1:L:82:VAL:HG21	1:L:170:VAL:HG11	2.02	0.41
1:L:138:LEU:HA	1:L:147:THR:HA	2.03	0.41
1:N:138:LEU:HA	1:N:147:THR:HA	2.03	0.41
1:O:239:VAL:HG21	1:O:268:MET:HE2	2.02	0.41
1:R:334:VAL:HG23	1:R:336:ILE:HG12	2.01	0.41
1:S:122:THR:HG21	1:S:300:GLU:HG3	2.03	0.41
1:V:138:LEU:HA	1:V:147:THR:HA	2.03	0.41
1:X:138:LEU:HA	1:X:147:THR:HA	2.03	0.41
1:2:82:VAL:HG21	1:2:170:VAL:HG11	2.02	0.41
1:2:244:ASP:N	1:2:244:ASP:OD1	2.53	0.41
1:4:122:THR:HG21	1:4:300:GLU:HG3	2.03	0.41
1:4:280:THR:OG1	1:4:282:ASP:O	2.38	0.41
1:5:122:THR:HG21	1:5:300:GLU:HG3	2.03	0.41
1:6:122:THR:HG21	1:6:300:GLU:HG3	2.03	0.41
1:c:120:ARG:HA	1:c:121:PRO:HD3	1.86	0.41
1:e:199:ILE:HG21	1:e:204:ILE:HD13	2.01	0.41
1:h:82:VAL:HG21	1:h:170:VAL:HG11	2.02	0.41
1:j:86:ASN:HA	1:j:268:MET:HE1	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:82:VAL:HG21	1:m:170:VAL:HG11	2.02	0.41
1:m:135:SER:HG	1:m:152:ASN:HD21	1.63	0.41
1:r:244:ASP:N	1:r:244:ASP:OD1	2.53	0.41
1:s:122:THR:HG21	1:s:300:GLU:HG3	2.03	0.41
1:w:122:THR:HG21	1:w:300:GLU:HG3	2.03	0.41
1:8:239:VAL:HG21	1:8:268:MET:HE2	2.02	0.41
1:8:365:LEU:HD12	1:8:365:LEU:HA	1.81	0.41
1:C:122:THR:HG21	1:C:300:GLU:HG3	2.03	0.41
1:C:163:ASP:HB3	1:M:53:ILE:HD11	2.01	0.41
1:C:199:ILE:HG21	1:C:204:ILE:HD13	2.01	0.41
1:G:138:LEU:HA	1:G:147:THR:HA	2.03	0.41
1:I:244:ASP:OD1	1:I:244:ASP:N	2.53	0.41
1:J:138:LEU:HA	1:J:147:THR:HA	2.03	0.41
1:K:138:LEU:HA	1:K:147:THR:HA	2.03	0.41
1:K:269:ALA:HA	1:K:348:PRO:HB3	2.02	0.41
1:Q:76:THR:HB	1:Q:77:PRO:HD2	2.02	0.41
1:Q:122:THR:HG21	1:Q:300:GLU:HG3	2.03	0.41
1:R:138:LEU:HA	1:R:147:THR:HA	2.03	0.41
1:T:156:TYR:CE2	1:c:132:ILE:HD11	2.56	0.41
1:U:82:VAL:HG21	1:U:170:VAL:HG11	2.02	0.41
1:V:120:ARG:HD3	1:V:228:PHE:O	2.21	0.41
1:W:179:PRO:O	1:W:188:TYR:OH	2.36	0.41
1:Z:138:LEU:HA	1:Z:147:THR:HA	2.03	0.41
1:1:122:THR:HG21	1:1:300:GLU:HG3	2.03	0.41
1:3:82:VAL:HG21	1:3:170:VAL:HG11	2.02	0.41
1:4:138:LEU:HA	1:4:147:THR:HA	2.03	0.41
1:5:86:ASN:HA	1:5:268:MET:HE1	2.01	0.41
1:a:120:ARG:HD3	1:a:228:PHE:O	2.21	0.41
1:a:122:THR:HG21	1:a:300:GLU:HG3	2.03	0.41
1:a:138:LEU:HA	1:a:147:THR:HA	2.03	0.41
1:f:138:LEU:HA	1:f:147:THR:HA	2.03	0.41
1:g:138:LEU:HA	1:g:147:THR:HA	2.03	0.41
1:h:86:ASN:HA	1:h:268:MET:HE1	2.01	0.41
1:i:138:LEU:HA	1:i:147:THR:HA	2.03	0.41
1:j:122:THR:HG21	1:j:300:GLU:HG3	2.03	0.41
1:o:76:THR:HB	1:o:77:PRO:HD2	2.02	0.41
1:q:138:LEU:HA	1:q:147:THR:HA	2.03	0.41
1:r:82:VAL:HG21	1:r:170:VAL:HG11	2.02	0.41
1:r:280:THR:OG1	1:r:282:ASP:O	2.39	0.41
1:s:120:ARG:HD3	1:s:228:PHE:O	2.21	0.41
1:t:138:LEU:HA	1:t:147:THR:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:138:LEU:HA	1:u:147:THR:HA	2.03	0.41
1:u:334:VAL:HG23	1:u:336:ILE:HG12	2.01	0.41
1:v:122:THR:HG21	1:v:300:GLU:HG3	2.03	0.41
1:v:244:ASP:OD1	1:v:244:ASP:N	2.53	0.41
1:w:82:VAL:HG21	1:w:170:VAL:HG11	2.02	0.41
1:w:280:THR:OG1	1:w:282:ASP:O	2.38	0.41
1:y:76:THR:HB	1:y:77:PRO:HD2	2.02	0.41
1:z:327:ILE:HG23	1:z:327:ILE:HD12	1.81	0.41
1:7:138:LEU:HA	1:7:147:THR:HA	2.03	0.41
1:A:120:ARG:HD3	1:A:228:PHE:O	2.21	0.41
1:B:135:SER:O	1:B:149:THR:HA	2.21	0.41
1:B:244:ASP:N	1:B:244:ASP:OD1	2.53	0.41
1:C:120:ARG:HD3	1:C:228:PHE:O	2.21	0.41
1:D:82:VAL:HG21	1:D:170:VAL:HG11	2.02	0.41
1:D:327:ILE:HG23	1:D:327:ILE:HD12	1.81	0.41
1:E:120:ARG:HD3	1:E:228:PHE:O	2.21	0.41
1:F:86:ASN:HA	1:F:268:MET:HE1	2.01	0.41
1:G:120:ARG:HD3	1:G:228:PHE:O	2.21	0.41
1:I:82:VAL:HG21	1:I:170:VAL:HG11	2.02	0.41
1:I:120:ARG:HD3	1:I:228:PHE:O	2.21	0.41
1:I:122:THR:HG21	1:I:300:GLU:HG3	2.03	0.41
1:I:238:TYR:CZ	1:I:334:VAL:HG12	2.56	0.41
1:J:82:VAL:HG21	1:J:170:VAL:HG11	2.02	0.41
1:J:86:ASN:HA	1:J:268:MET:HE1	2.01	0.41
1:J:120:ARG:HD3	1:J:228:PHE:O	2.21	0.41
1:J:122:THR:HG21	1:J:300:GLU:HG3	2.03	0.41
1:K:238:TYR:CZ	1:K:334:VAL:HG12	2.56	0.41
1:M:120:ARG:HA	1:M:121:PRO:HD3	1.86	0.41
1:M:138:LEU:HA	1:M:147:THR:HA	2.03	0.41
1:N:120:ARG:HD3	1:N:228:PHE:O	2.21	0.41
1:N:334:VAL:HG23	1:N:336:ILE:HG12	2.01	0.41
1:O:76:THR:HB	1:O:77:PRO:HD2	2.02	0.41
1:O:82:VAL:HG21	1:O:170:VAL:HG11	2.02	0.41
1:O:120:ARG:HD3	1:O:228:PHE:O	2.21	0.41
1:O:122:THR:HG21	1:O:300:GLU:HG3	2.03	0.41
1:O:238:TYR:CZ	1:O:334:VAL:HG12	2.56	0.41
1:P:76:THR:HB	1:P:77:PRO:HD2	2.02	0.41
1:Q:238:TYR:CZ	1:Q:334:VAL:HG12	2.56	0.41
1:R:122:THR:HG21	1:R:300:GLU:HG3	2.03	0.41
1:R:239:VAL:HG21	1:R:268:MET:HE2	2.02	0.41
1:R:280:THR:OG1	1:R:282:ASP:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:76:THR:HB	1:S:77:PRO:HD2	2.02	0.41
1:S:244:ASP:OD1	1:S:244:ASP:N	2.53	0.41
1:T:138:LEU:HA	1:T:147:THR:HA	2.03	0.41
1:U:138:LEU:HA	1:U:147:THR:HA	2.03	0.41
1:U:239:VAL:HG21	1:U:268:MET:HE2	2.02	0.41
1:V:122:THR:HG21	1:V:300:GLU:HG3	2.03	0.41
1:V:238:TYR:CZ	1:V:334:VAL:HG12	2.56	0.41
1:X:82:VAL:HG21	1:X:170:VAL:HG11	2.02	0.41
1:Y:120:ARG:HD3	1:Y:228:PHE:O	2.21	0.41
1:Y:122:THR:HG21	1:Y:300:GLU:HG3	2.03	0.41
1:Y:138:LEU:HA	1:Y:147:THR:HA	2.03	0.41
1:Z:238:TYR:CZ	1:Z:334:VAL:HG12	2.56	0.41
1:Z:280:THR:OG1	1:Z:282:ASP:O	2.39	0.41
1:1:82:VAL:HG21	1:1:170:VAL:HG11	2.02	0.41
1:1:86:ASN:HA	1:1:268:MET:HE1	2.01	0.41
1:1:120:ARG:HD3	1:1:228:PHE:O	2.21	0.41
1:1:244:ASP:N	1:1:244:ASP:OD1	2.53	0.41
1:2:76:THR:HB	1:2:77:PRO:HD2	2.02	0.41
1:2:120:ARG:HD3	1:2:228:PHE:O	2.21	0.41
1:2:238:TYR:CZ	1:2:334:VAL:HG12	2.56	0.41
1:3:120:ARG:HD3	1:3:228:PHE:O	2.21	0.41
1:3:238:TYR:CZ	1:3:334:VAL:HG12	2.56	0.41
1:4:82:VAL:HG21	1:4:170:VAL:HG11	2.02	0.41
1:4:120:ARG:HD3	1:4:228:PHE:O	2.21	0.41
1:6:86:ASN:HA	1:6:268:MET:HE1	2.01	0.41
1:b:269:ALA:HA	1:b:348:PRO:HB3	2.02	0.41
1:c:120:ARG:HD3	1:c:228:PHE:O	2.21	0.41
1:c:138:LEU:HA	1:c:147:THR:HA	2.03	0.41
1:f:238:TYR:CZ	1:f:334:VAL:HG12	2.56	0.41
1:f:280:THR:OG1	1:f:282:ASP:O	2.38	0.41
1:g:238:TYR:CZ	1:g:334:VAL:HG12	2.56	0.41
1:h:120:ARG:HD3	1:h:228:PHE:O	2.21	0.41
1:h:122:THR:HG21	1:h:300:GLU:HG3	2.03	0.41
1:h:244:ASP:OD1	1:h:244:ASP:N	2.53	0.41
1:i:53:ILE:HD11	1:j:163:ASP:HB3	2.01	0.41
1:j:120:ARG:HD3	1:j:228:PHE:O	2.21	0.41
1:k:135:SER:O	1:k:149:THR:HA	2.21	0.41
1:k:244:ASP:OD1	1:k:244:ASP:N	2.53	0.41
1:k:280:THR:OG1	1:k:282:ASP:O	2.38	0.41
1:l:82:VAL:HG21	1:l:170:VAL:HG11	2.02	0.41
1:l:86:ASN:HA	1:l:268:MET:HE1	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:120:ARG:HD3	1:l:228:PHE:O	2.21	0.41
1:l:122:THR:HG21	1:l:300:GLU:HG3	2.03	0.41
1:l:138:LEU:HA	1:l:147:THR:HA	2.03	0.41
1:n:120:ARG:HD3	1:n:228:PHE:O	2.21	0.41
1:n:176:THR:HG21	1:n:189:VAL:CG2	2.51	0.41
1:o:122:THR:HG21	1:o:300:GLU:HG3	2.03	0.41
1:o:238:TYR:CZ	1:o:334:VAL:HG12	2.56	0.41
1:q:120:ARG:HD3	1:q:228:PHE:O	2.21	0.41
1:r:59:VAL:HG13	1:r:229:TRP:HH2	1.84	0.41
1:r:120:ARG:HD3	1:r:228:PHE:O	2.21	0.41
1:r:122:THR:HG21	1:r:300:GLU:HG3	2.03	0.41
1:r:238:TYR:CZ	1:r:334:VAL:HG12	2.56	0.41
1:t:82:VAL:HG21	1:t:170:VAL:HG11	2.02	0.41
1:u:122:THR:HG21	1:u:300:GLU:HG3	2.03	0.41
1:u:239:VAL:HG21	1:u:268:MET:HE2	2.02	0.41
1:v:76:THR:HB	1:v:77:PRO:HD2	2.02	0.41
1:v:82:VAL:HG21	1:v:170:VAL:HG11	2.02	0.41
1:w:120:ARG:HD3	1:w:228:PHE:O	2.21	0.41
1:w:138:LEU:HA	1:w:147:THR:HA	2.03	0.41
1:z:82:VAL:HG21	1:z:170:VAL:HG11	2.02	0.41
1:7:334:VAL:HG23	1:7:336:ILE:HG12	2.01	0.41
1:8:76:THR:HB	1:8:77:PRO:HD2	2.02	0.41
1:8:82:VAL:HG21	1:8:170:VAL:HG11	2.02	0.41
1:8:120:ARG:HD3	1:8:228:PHE:O	2.21	0.41
1:8:122:THR:HG21	1:8:300:GLU:HG3	2.03	0.41
1:8:238:TYR:CZ	1:8:334:VAL:HG12	2.56	0.41
1:B:122:THR:HG21	1:B:300:GLU:HG3	2.03	0.41
1:B:238:TYR:CZ	1:B:334:VAL:HG12	2.56	0.41
1:C:280:THR:OG1	1:C:282:ASP:O	2.38	0.41
1:D:135:SER:O	1:D:149:THR:HA	2.21	0.41
1:J:290:GLN:OE1	1:1:278:ILE:HG12	2.21	0.41
1:N:238:TYR:CZ	1:N:334:VAL:HG12	2.56	0.41
1:O:163:ASP:HB3	1:h:53:ILE:HD11	2.01	0.41
1:P:327:ILE:HG23	1:P:327:ILE:HD12	1.81	0.41
1:R:176:THR:HG21	1:R:189:VAL:CG2	2.51	0.41
1:R:278:ILE:HG12	1:V:290:GLN:OE1	2.21	0.41
1:S:82:VAL:HG21	1:S:170:VAL:HG11	2.02	0.41
1:W:120:ARG:HD3	1:W:228:PHE:O	2.21	0.41
1:X:122:THR:HG21	1:X:300:GLU:HG3	2.03	0.41
1:1:53:ILE:HD11	1:8:163:ASP:HB3	2.02	0.41
1:3:76:THR:HB	1:3:77:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:76:THR:HB	1:5:77:PRO:HD2	2.02	0.41
1:b:82:VAL:HG21	1:b:170:VAL:HG11	2.02	0.41
1:c:122:THR:HG21	1:c:300:GLU:HG3	2.03	0.41
1:i:280:THR:OG1	1:i:282:ASP:O	2.39	0.41
1:k:122:THR:HG21	1:k:300:GLU:HG3	2.03	0.41
1:p:86:ASN:HA	1:p:268:MET:HE1	2.01	0.41
1:u:176:THR:HG21	1:u:189:VAL:CG2	2.51	0.41
1:u:280:THR:OG1	1:u:282:ASP:O	2.38	0.41
1:v:120:ARG:HD3	1:v:228:PHE:O	2.21	0.41
1:y:135:SER:O	1:y:149:THR:HA	2.21	0.41
1:y:239:VAL:HG21	1:y:268:MET:HE2	2.02	0.41
1:7:120:ARG:HD3	1:7:228:PHE:O	2.21	0.41
1:E:176:THR:HG21	1:E:189:VAL:CG2	2.52	0.40
1:F:122:THR:HG21	1:F:300:GLU:HG3	2.03	0.40
1:G:76:THR:HB	1:G:77:PRO:HD2	2.02	0.40
1:G:122:THR:HG21	1:G:300:GLU:HG3	2.03	0.40
1:H:138:LEU:HA	1:H:147:THR:HA	2.03	0.40
1:I:135:SER:O	1:I:149:THR:HA	2.21	0.40
1:L:176:THR:HG21	1:L:189:VAL:CG2	2.51	0.40
1:L:239:VAL:HG21	1:L:268:MET:HE2	2.02	0.40
1:M:120:ARG:HD3	1:M:228:PHE:O	2.21	0.40
1:M:135:SER:O	1:M:149:THR:HA	2.21	0.40
1:M:280:THR:OG1	1:M:282:ASP:O	2.39	0.40
1:N:82:VAL:HG21	1:N:170:VAL:HG11	2.02	0.40
1:O:269:ALA:HA	1:O:348:PRO:HB3	2.02	0.40
1:P:239:VAL:HG21	1:P:268:MET:HE2	2.02	0.40
1:R:238:TYR:CZ	1:R:334:VAL:HG12	2.56	0.40
1:R:244:ASP:OD1	1:R:244:ASP:N	2.53	0.40
1:S:120:ARG:HD3	1:S:228:PHE:O	2.21	0.40
1:T:176:THR:HG21	1:T:189:VAL:CG2	2.51	0.40
1:U:135:SER:O	1:U:149:THR:HA	2.21	0.40
1:U:176:THR:HG21	1:U:189:VAL:CG2	2.51	0.40
1:U:280:THR:OG1	1:U:282:ASP:O	2.38	0.40
1:W:135:SER:O	1:W:149:THR:HA	2.21	0.40
1:X:239:VAL:HG21	1:X:268:MET:HE2	2.02	0.40
1:X:269:ALA:HA	1:X:348:PRO:HB3	2.02	0.40
1:Y:238:TYR:CZ	1:Y:334:VAL:HG12	2.56	0.40
1:1:76:THR:HB	1:1:77:PRO:HD2	2.02	0.40
1:1:238:TYR:CZ	1:1:334:VAL:HG12	2.56	0.40
1:2:135:SER:O	1:2:149:THR:HA	2.21	0.40
1:2:138:LEU:HA	1:2:147:THR:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:135:SER:O	1:3:149:THR:HA	2.21	0.40
1:6:76:THR:HB	1:6:77:PRO:HD2	2.02	0.40
1:6:278:ILE:HG12	1:t:290:GLN:OE1	2.22	0.40
1:a:238:TYR:CZ	1:a:334:VAL:HG12	2.56	0.40
1:a:290:GLN:OE1	1:u:278:ILE:HG12	2.21	0.40
1:b:122:THR:HG21	1:b:300:GLU:HG3	2.03	0.40
1:b:135:SER:O	1:b:149:THR:HA	2.21	0.40
1:c:238:TYR:CZ	1:c:334:VAL:HG12	2.56	0.40
1:c:244:ASP:N	1:c:244:ASP:OD1	2.53	0.40
1:d:122:THR:HG21	1:d:300:GLU:HG3	2.03	0.40
1:e:120:ARG:HD3	1:e:228:PHE:O	2.21	0.40
1:h:238:TYR:CZ	1:h:334:VAL:HG12	2.56	0.40
1:h:278:ILE:HG12	1:l:290:GLN:OE1	2.21	0.40
1:i:135:SER:O	1:i:149:THR:HA	2.21	0.40
1:j:280:THR:OG1	1:j:282:ASP:O	2.38	0.40
1:k:76:THR:HB	1:k:77:PRO:HD2	2.02	0.40
1:k:238:TYR:CZ	1:k:334:VAL:HG12	2.56	0.40
1:p:122:THR:HG21	1:p:300:GLU:HG3	2.03	0.40
1:q:122:THR:HG21	1:q:300:GLU:HG3	2.03	0.40
1:r:76:THR:HB	1:r:77:PRO:HD2	2.02	0.40
1:r:135:SER:O	1:r:149:THR:HA	2.21	0.40
1:s:244:ASP:OD1	1:s:244:ASP:N	2.53	0.40
1:t:239:VAL:HG21	1:t:268:MET:HE2	2.02	0.40
1:t:280:THR:OG1	1:t:282:ASP:O	2.38	0.40
1:u:238:TYR:CZ	1:u:334:VAL:HG12	2.56	0.40
1:x:138:LEU:HA	1:x:147:THR:HA	2.03	0.40
1:x:176:THR:HG21	1:x:189:VAL:CG2	2.51	0.40
1:z:135:SER:O	1:z:149:THR:HA	2.21	0.40
1:7:176:THR:HG21	1:7:189:VAL:CG2	2.51	0.40
1:7:280:THR:OG1	1:7:282:ASP:O	2.38	0.40
1:B:76:THR:HB	1:B:77:PRO:HD2	2.02	0.40
1:B:120:ARG:HD3	1:B:228:PHE:O	2.21	0.40
1:C:138:LEU:HA	1:C:147:THR:HA	2.03	0.40
1:E:57:MET:HE2	1:E:57:MET:HB3	1.99	0.40
1:F:82:VAL:HG21	1:F:170:VAL:HG11	2.02	0.40
1:G:135:SER:O	1:G:149:THR:HA	2.21	0.40
1:H:76:THR:HB	1:H:77:PRO:HD2	2.02	0.40
1:H:122:THR:HG21	1:H:300:GLU:HG3	2.03	0.40
1:I:76:THR:HB	1:I:77:PRO:HD2	2.02	0.40
1:K:135:SER:O	1:K:149:THR:HA	2.21	0.40
1:L:238:TYR:CZ	1:L:334:VAL:HG12	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:135:SER:O	1:N:149:THR:HA	2.21	0.40
1:O:138:LEU:HA	1:O:147:THR:HA	2.03	0.40
1:P:135:SER:O	1:P:149:THR:HA	2.21	0.40
1:S:280:THR:OG1	1:S:282:ASP:O	2.39	0.40
1:T:122:THR:HG21	1:T:300:GLU:HG3	2.03	0.40
1:T:135:SER:O	1:T:149:THR:HA	2.21	0.40
1:U:290:GLN:OE1	1:5:278:ILE:HG12	2.22	0.40
1:Y:244:ASP:N	1:Y:244:ASP:OD1	2.53	0.40
1:1:365:LEU:HD12	1:1:365:LEU:HA	1.81	0.40
1:2:327:ILE:HD12	1:2:327:ILE:HG23	1.81	0.40
1:3:138:LEU:HA	1:3:147:THR:HA	2.03	0.40
1:6:238:TYR:CZ	1:6:334:VAL:HG12	2.56	0.40
1:a:280:THR:OG1	1:a:282:ASP:O	2.38	0.40
1:b:99:TYR:HE1	1:e:314:VAL:HG11	1.85	0.40
1:b:239:VAL:HG21	1:b:268:MET:HE2	2.02	0.40
1:d:138:LEU:HA	1:d:147:THR:HA	2.03	0.40
1:d:156:TYR:CE2	1:f:132:ILE:HD11	2.57	0.40
1:e:120:ARG:HA	1:e:121:PRO:HD3	1.86	0.40
1:e:135:SER:O	1:e:149:THR:HA	2.21	0.40
1:e:176:THR:HG21	1:e:189:VAL:CG2	2.51	0.40
1:i:120:ARG:HD3	1:i:228:PHE:O	2.21	0.40
1:k:269:ALA:HA	1:k:348:PRO:HB3	2.02	0.40
1:l:278:ILE:HG12	1:r:290:GLN:OE1	2.22	0.40
1:m:120:ARG:HA	1:m:121:PRO:HD3	1.86	0.40
1:m:238:TYR:CZ	1:m:334:VAL:HG12	2.56	0.40
1:m:239:VAL:HG21	1:m:268:MET:HE2	2.02	0.40
1:m:280:THR:OG1	1:m:282:ASP:O	2.39	0.40
1:p:82:VAL:HG21	1:p:170:VAL:HG11	2.02	0.40
1:q:76:THR:HB	1:q:77:PRO:HD2	2.02	0.40
1:q:135:SER:O	1:q:149:THR:HA	2.21	0.40
1:q:244:ASP:N	1:q:244:ASP:OD1	2.53	0.40
1:t:135:SER:O	1:t:149:THR:HA	2.21	0.40
1:t:176:THR:HG21	1:t:189:VAL:CG2	2.51	0.40
1:v:280:THR:OG1	1:v:282:ASP:O	2.39	0.40
1:v:290:GLN:OE1	1:w:278:ILE:HG12	2.21	0.40
1:w:238:TYR:CZ	1:w:334:VAL:HG12	2.56	0.40
1:x:122:THR:HG21	1:x:300:GLU:HG3	2.03	0.40
1:x:135:SER:O	1:x:149:THR:HA	2.21	0.40
1:7:82:VAL:HG21	1:7:170:VAL:HG11	2.02	0.40
1:7:238:TYR:CZ	1:7:334:VAL:HG12	2.56	0.40
1:A:126:TYR:CE1	1:A:128:LEU:HD13	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:SER:O	1:A:149:THR:HA	2.21	0.40
1:A:244:ASP:OD1	1:A:244:ASP:N	2.53	0.40
1:C:176:THR:HG21	1:C:189:VAL:CG2	2.51	0.40
1:C:238:TYR:CZ	1:C:334:VAL:HG12	2.56	0.40
1:E:280:THR:OG1	1:E:282:ASP:O	2.38	0.40
1:G:244:ASP:N	1:G:244:ASP:OD1	2.53	0.40
1:G:290:GLN:OE1	1:W:278:ILE:HG12	2.22	0.40
1:H:135:SER:O	1:H:149:THR:HA	2.21	0.40
1:H:238:TYR:CZ	1:H:334:VAL:HG12	2.56	0.40
1:I:176:THR:HG21	1:I:189:VAL:CG2	2.51	0.40
1:I:290:GLN:OE1	1:J:278:ILE:HG12	2.22	0.40
1:I:322:ASN:O	1:I:325:LEU:HB2	2.22	0.40
1:K:53:ILE:HD11	1:L:163:ASP:HB3	2.01	0.40
1:N:159:HIS:CD2	1:N:220:PHE:CZ	3.10	0.40
1:N:176:THR:HG21	1:N:189:VAL:CG2	2.51	0.40
1:N:280:THR:OG1	1:N:282:ASP:O	2.38	0.40
1:O:135:SER:O	1:O:149:THR:HA	2.21	0.40
1:Q:120:ARG:HD3	1:Q:228:PHE:O	2.21	0.40
1:Q:176:THR:HG21	1:Q:189:VAL:CG2	2.51	0.40
1:S:135:SER:O	1:S:149:THR:HA	2.21	0.40
1:V:280:THR:OG1	1:V:282:ASP:O	2.38	0.40
1:W:176:THR:HG21	1:W:189:VAL:CG2	2.52	0.40
1:W:238:TYR:CZ	1:W:334:VAL:HG12	2.56	0.40
1:X:135:SER:O	1:X:149:THR:HA	2.21	0.40
1:Y:176:THR:HG21	1:Y:189:VAL:CG2	2.51	0.40
1:Z:176:THR:HG21	1:Z:189:VAL:CG2	2.51	0.40
1:1:176:THR:HG21	1:1:189:VAL:CG2	2.51	0.40
1:2:322:ASN:O	1:2:325:LEU:HB2	2.22	0.40
1:3:280:THR:OG1	1:3:282:ASP:O	2.38	0.40
1:5:238:TYR:CZ	1:5:334:VAL:HG12	2.56	0.40
1:6:120:ARG:HD3	1:6:228:PHE:O	2.21	0.40
1:b:108:LYS:HG2	1:e:312:ASN:OD1	2.21	0.40
1:b:126:TYR:CE1	1:b:128:LEU:HD13	2.57	0.40
1:c:208:ASN:O	1:e:48:GLN:HA	2.22	0.40
1:d:76:THR:HB	1:d:77:PRO:HD2	2.02	0.40
1:d:135:SER:O	1:d:149:THR:HA	2.21	0.40
1:g:135:SER:O	1:g:149:THR:HA	2.22	0.40
1:h:76:THR:HB	1:h:77:PRO:HD2	2.02	0.40
1:h:176:THR:HG21	1:h:189:VAL:CG2	2.51	0.40
1:j:138:LEU:HA	1:j:147:THR:HA	2.03	0.40
1:j:176:THR:HG21	1:j:189:VAL:CG2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:238:TYR:CZ	1:j:334:VAL:HG12	2.56	0.40
1:k:120:ARG:HD3	1:k:228:PHE:O	2.21	0.40
1:m:176:THR:HG21	1:m:189:VAL:CG2	2.51	0.40
1:n:280:THR:OG1	1:n:282:ASP:O	2.39	0.40
1:o:176:THR:HG21	1:o:189:VAL:CG2	2.51	0.40
1:p:138:LEU:HA	1:p:147:THR:HA	2.03	0.40
1:q:238:TYR:CZ	1:q:334:VAL:HG12	2.56	0.40
1:r:322:ASN:O	1:r:325:LEU:HB2	2.22	0.40
1:r:365:LEU:HD12	1:r:365:LEU:HA	1.81	0.40
1:s:126:TYR:CE1	1:s:128:LEU:HD13	2.57	0.40
1:s:135:SER:O	1:s:149:THR:HA	2.21	0.40
1:u:244:ASP:OD1	1:u:244:ASP:N	2.53	0.40
1:u:327:ILE:HD12	1:u:327:ILE:HG23	1.81	0.40
1:7:159:HIS:CD2	1:7:220:PHE:CZ	3.10	0.40
1:8:135:SER:O	1:8:149:THR:HA	2.21	0.40
1:8:138:LEU:HA	1:8:147:THR:HA	2.03	0.40
1:A:290:GLN:OE1	1:E:278:ILE:HG12	2.22	0.40
1:A:322:ASN:O	1:A:325:LEU:HB2	2.22	0.40
1:B:269:ALA:HA	1:B:348:PRO:HB3	2.02	0.40
1:C:322:ASN:O	1:C:325:LEU:HB2	2.22	0.40
1:D:156:TYR:CE2	1:E:132:ILE:HD11	2.57	0.40
1:E:135:SER:O	1:E:149:THR:HA	2.21	0.40
1:F:138:LEU:HA	1:F:147:THR:HA	2.03	0.40
1:F:322:ASN:O	1:F:325:LEU:HB2	2.22	0.40
1:G:238:TYR:CZ	1:G:334:VAL:HG12	2.56	0.40
1:G:239:VAL:HG21	1:G:268:MET:HE2	2.02	0.40
1:G:322:ASN:O	1:G:325:LEU:HB2	2.22	0.40
1:H:156:TYR:CE2	1:Z:132:ILE:HD11	2.57	0.40
1:J:159:HIS:CD2	1:J:220:PHE:CZ	3.10	0.40
1:L:280:THR:OG1	1:L:282:ASP:O	2.38	0.40
1:N:126:TYR:CE1	1:N:128:LEU:HD13	2.57	0.40
1:O:159:HIS:CD2	1:O:220:PHE:CZ	3.10	0.40
1:P:159:HIS:CD2	1:P:220:PHE:CZ	3.10	0.40
1:Q:280:THR:OG1	1:Q:282:ASP:O	2.38	0.40
1:S:238:TYR:CZ	1:S:334:VAL:HG12	2.56	0.40
1:S:290:GLN:OE1	1:4:278:ILE:HG12	2.21	0.40
1:S:365:LEU:HA	1:S:365:LEU:HD12	1.81	0.40
1:T:159:HIS:CD2	1:T:220:PHE:CZ	3.10	0.40
1:U:122:THR:HG21	1:U:300:GLU:HG3	2.03	0.40
1:U:126:TYR:CE1	1:U:128:LEU:HD13	2.57	0.40
1:X:126:TYR:CE1	1:X:128:LEU:HD13	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:159:HIS:CD2	1:X:220:PHE:CZ	3.10	0.40
1:X:176:THR:HG21	1:X:189:VAL:CG2	2.51	0.40
1:1:126:TYR:CE1	1:1:128:LEU:HD13	2.57	0.40
1:2:159:HIS:CD2	1:2:220:PHE:CZ	3.10	0.40
1:2:280:THR:OG1	1:2:282:ASP:O	2.38	0.40
1:3:159:HIS:CD2	1:3:220:PHE:CZ	3.10	0.40
1:3:322:ASN:O	1:3:325:LEU:HB2	2.22	0.40
1:4:238:TYR:CZ	1:4:334:VAL:HG12	2.56	0.40
1:5:120:ARG:HD3	1:5:228:PHE:O	2.21	0.40
1:6:327:ILE:HG23	1:6:327:ILE:HD12	1.81	0.40
1:a:239:VAL:HG21	1:a:268:MET:HE2	2.02	0.40
1:b:159:HIS:CD2	1:b:220:PHE:CZ	3.10	0.40
1:b:176:THR:HG21	1:b:189:VAL:CG2	2.51	0.40
1:c:176:THR:HG21	1:c:189:VAL:CG2	2.51	0.40
1:d:238:TYR:CZ	1:d:334:VAL:HG12	2.56	0.40
1:e:238:TYR:CZ	1:e:334:VAL:HG12	2.56	0.40
1:f:176:THR:HG21	1:f:189:VAL:CG2	2.51	0.40
1:g:322:ASN:O	1:g:325:LEU:HB2	2.22	0.40
1:h:126:TYR:CE1	1:h:128:LEU:HD13	2.57	0.40
1:j:75:LEU:CD1	1:j:79:GLU:HG3	2.52	0.40
1:k:290:GLN:OE1	1:s:278:ILE:HG12	2.22	0.40
1:l:159:HIS:CD2	1:l:220:PHE:CZ	3.10	0.40
1:m:120:ARG:HD3	1:m:228:PHE:O	2.21	0.40
1:m:126:TYR:CE1	1:m:128:LEU:HD13	2.57	0.40
1:n:179:PRO:O	1:n:188:TYR:OH	2.36	0.40
1:o:120:ARG:HD3	1:o:228:PHE:O	2.21	0.40
1:p:120:ARG:HA	1:p:121:PRO:HD3	1.86	0.40
1:p:322:ASN:O	1:p:325:LEU:HB2	2.22	0.40
1:q:239:VAL:HG21	1:q:268:MET:HE2	2.02	0.40
1:q:322:ASN:O	1:q:325:LEU:HB2	2.22	0.40
1:s:322:ASN:O	1:s:325:LEU:HB2	2.22	0.40
1:s:327:ILE:HD12	1:s:327:ILE:HG23	1.81	0.40
1:t:126:TYR:CE1	1:t:128:LEU:HD13	2.57	0.40
1:v:135:SER:O	1:v:149:THR:HA	2.21	0.40
1:v:365:LEU:HA	1:v:365:LEU:HD12	1.81	0.40
1:w:126:TYR:CE1	1:w:128:LEU:HD13	2.57	0.40
1:x:120:ARG:HA	1:x:121:PRO:HD3	1.86	0.40
1:x:159:HIS:CD2	1:x:220:PHE:CZ	3.10	0.40
1:y:159:HIS:CD2	1:y:220:PHE:CZ	3.10	0.40
1:7:126:TYR:CE1	1:7:128:LEU:HD13	2.57	0.40
1:7:135:SER:O	1:7:149:THR:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:159:HIS:CD2	1:8:220:PHE:CZ	3.10	0.40
1:8:269:ALA:HA	1:8:348:PRO:HB3	2.02	0.40
1:B:159:HIS:CD2	1:B:220:PHE:CZ	3.10	0.40
1:C:75:LEU:CD1	1:C:79:GLU:HG3	2.52	0.40
1:D:122:THR:HG21	1:D:300:GLU:HG3	2.03	0.40
1:F:132:ILE:HD11	1:G:156:TYR:CE2	2.57	0.40
1:H:132:ILE:HD11	1:I:156:TYR:CE2	2.57	0.40
1:I:132:ILE:HD11	1:J:156:TYR:CE2	2.57	0.40
1:K:322:ASN:O	1:K:325:LEU:HB2	2.22	0.40
1:L:120:ARG:HA	1:L:121:PRO:HD3	1.85	0.40
1:L:126:TYR:CE1	1:L:128:LEU:HD13	2.57	0.40
1:M:238:TYR:CZ	1:M:334:VAL:HG12	2.56	0.40
1:M:322:ASN:O	1:M:325:LEU:HB2	2.22	0.40
1:O:322:ASN:O	1:O:325:LEU:HB2	2.22	0.40
1:Q:126:TYR:CE1	1:Q:128:LEU:HD13	2.57	0.40
1:T:238:TYR:CZ	1:T:334:VAL:HG12	2.56	0.40
1:T:280:THR:OG1	1:T:282:ASP:O	2.38	0.40
1:V:156:TYR:CE2	1:W:132:ILE:HD11	2.57	0.40
1:V:239:VAL:HG21	1:V:268:MET:HE2	2.02	0.40
1:V:278:ILE:HG12	1:W:290:GLN:OE1	2.22	0.40
1:V:322:ASN:O	1:V:325:LEU:HB2	2.22	0.40
1:W:120:ARG:HA	1:W:121:PRO:HD3	1.86	0.40
1:W:122:THR:HG21	1:W:300:GLU:HG3	2.03	0.40
1:Z:322:ASN:O	1:Z:325:LEU:HB2	2.22	0.40
1:1:322:ASN:O	1:1:325:LEU:HB2	2.22	0.40
1:3:278:ILE:HG12	1:m:290:GLN:OE1	2.22	0.40
1:4:126:TYR:CE1	1:4:128:LEU:HD13	2.57	0.40
1:4:269:ALA:HA	1:4:348:PRO:HB3	2.02	0.40
1:d:290:GLN:OE1	1:r:278:ILE:HG12	2.22	0.40
1:f:322:ASN:O	1:f:325:LEU:HB2	2.22	0.40
1:g:75:LEU:CD1	1:g:79:GLU:HG3	2.52	0.40
1:h:322:ASN:O	1:h:325:LEU:HB2	2.22	0.40
1:h:365:LEU:HA	1:h:365:LEU:HD12	1.81	0.40
1:i:176:THR:HG21	1:i:189:VAL:CG2	2.51	0.40
1:i:322:ASN:O	1:i:325:LEU:HB2	2.22	0.40
1:j:322:ASN:O	1:j:325:LEU:HB2	2.22	0.40
1:k:159:HIS:CD2	1:k:220:PHE:CZ	3.10	0.40
1:l:156:TYR:CE2	1:r:132:ILE:HD11	2.57	0.40
1:n:70:VAL:HG13	1:n:186:LEU:H	1.87	0.40
1:n:278:ILE:HG12	1:s:290:GLN:OE1	2.22	0.40
1:o:280:THR:OG1	1:o:282:ASP:O	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:159:HIS:CD2	1:r:220:PHE:CZ	3.10	0.40
1:t:122:THR:HG21	1:t:300:GLU:HG3	2.03	0.40
1:w:269:ALA:HA	1:w:348:PRO:HB3	2.02	0.40
1:z:238:TYR:CZ	1:z:334:VAL:HG12	2.56	0.40
1:z:280:THR:OG1	1:z:282:ASP:O	2.38	0.40
1:8:322:ASN:O	1:8:325:LEU:HB2	2.22	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	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	2	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	3	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	4	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	5	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	6	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	7	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	8	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	A	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	B	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	C	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	D	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	E	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	F	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	G	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	I	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	J	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	K	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	L	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	M	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	N	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	O	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	P	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	Q	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	R	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	S	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	T	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	U	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	V	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	W	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	X	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	Y	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	Z	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	a	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	b	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	c	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	d	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	e	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	f	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	g	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	h	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	i	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	j	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	k	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	l	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	m	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	n	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	o	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	p	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	q	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	r	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	s	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	t	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	u	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	v	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	w	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	x	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	y	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
1	z	313/369 (85%)	301 (96%)	11 (4%)	1 (0%)	36	63
All	All	18780/22140 (85%)	18060 (96%)	660 (4%)	60 (0%)	37	63

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	137	GLU
1	B	137	GLU
1	C	137	GLU
1	D	137	GLU
1	E	137	GLU
1	F	137	GLU
1	G	137	GLU
1	H	137	GLU
1	I	137	GLU
1	J	137	GLU
1	K	137	GLU
1	L	137	GLU
1	M	137	GLU
1	N	137	GLU
1	O	137	GLU
1	P	137	GLU
1	Q	137	GLU
1	R	137	GLU

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Mol	Chain	Res	Type
1	S	137	GLU
1	T	137	GLU
1	U	137	GLU
1	V	137	GLU
1	W	137	GLU
1	X	137	GLU
1	Y	137	GLU
1	Z	137	GLU
1	1	137	GLU
1	2	137	GLU
1	3	137	GLU
1	4	137	GLU
1	5	137	GLU
1	6	137	GLU
1	a	137	GLU
1	b	137	GLU
1	c	137	GLU
1	d	137	GLU
1	e	137	GLU
1	f	137	GLU
1	g	137	GLU
1	h	137	GLU
1	i	137	GLU
1	j	137	GLU
1	k	137	GLU
1	l	137	GLU
1	m	137	GLU
1	n	137	GLU
1	o	137	GLU
1	p	137	GLU
1	q	137	GLU
1	r	137	GLU
1	s	137	GLU
1	t	137	GLU
1	u	137	GLU
1	v	137	GLU
1	w	137	GLU
1	x	137	GLU
1	y	137	GLU
1	z	137	GLU
1	7	137	GLU
1	8	137	GLU

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	2	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	3	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	4	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	5	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	6	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	7	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	8	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	A	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	B	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	C	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	D	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	E	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	F	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	G	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	H	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	I	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	J	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	K	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	L	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	M	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	N	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	O	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	P	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	Q	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	R	283/321 (88%)	281 (99%)	2 (1%)	76	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	T	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	U	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	V	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	W	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	X	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	Y	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	Z	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	a	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	b	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	c	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	d	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	e	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	f	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	g	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	h	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	i	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	j	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	k	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	l	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	m	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	n	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	o	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	p	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	q	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	r	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	s	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	t	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	u	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	v	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	w	283/321 (88%)	281 (99%)	2 (1%)	76	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	x	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	y	283/321 (88%)	281 (99%)	2 (1%)	76	90
1	z	283/321 (88%)	281 (99%)	2 (1%)	76	90
All	All	16980/19260 (88%)	16860 (99%)	120 (1%)	73	90

All (120) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	138	LEU
1	A	239	VAL
1	B	138	LEU
1	B	239	VAL
1	C	138	LEU
1	C	239	VAL
1	D	138	LEU
1	D	239	VAL
1	E	138	LEU
1	E	239	VAL
1	F	138	LEU
1	F	239	VAL
1	G	138	LEU
1	G	239	VAL
1	H	138	LEU
1	H	239	VAL
1	I	138	LEU
1	I	239	VAL
1	J	138	LEU
1	J	239	VAL
1	K	138	LEU
1	K	239	VAL
1	L	138	LEU
1	L	239	VAL
1	M	138	LEU
1	M	239	VAL
1	N	138	LEU
1	N	239	VAL
1	O	138	LEU
1	O	239	VAL
1	P	138	LEU
1	P	239	VAL
1	Q	138	LEU

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Mol	Chain	Res	Type
1	Q	239	VAL
1	R	138	LEU
1	R	239	VAL
1	S	138	LEU
1	S	239	VAL
1	T	138	LEU
1	T	239	VAL
1	U	138	LEU
1	U	239	VAL
1	V	138	LEU
1	V	239	VAL
1	W	138	LEU
1	W	239	VAL
1	X	138	LEU
1	X	239	VAL
1	Y	138	LEU
1	Y	239	VAL
1	Z	138	LEU
1	Z	239	VAL
1	1	138	LEU
1	1	239	VAL
1	2	138	LEU
1	2	239	VAL
1	3	138	LEU
1	3	239	VAL
1	4	138	LEU
1	4	239	VAL
1	5	138	LEU
1	5	239	VAL
1	6	138	LEU
1	6	239	VAL
1	a	138	LEU
1	a	239	VAL
1	b	138	LEU
1	b	239	VAL
1	c	138	LEU
1	c	239	VAL
1	d	138	LEU
1	d	239	VAL
1	e	138	LEU
1	e	239	VAL
1	f	138	LEU

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Mol	Chain	Res	Type
1	f	239	VAL
1	g	138	LEU
1	g	239	VAL
1	h	138	LEU
1	h	239	VAL
1	i	138	LEU
1	i	239	VAL
1	j	138	LEU
1	j	239	VAL
1	k	138	LEU
1	k	239	VAL
1	l	138	LEU
1	l	239	VAL
1	m	138	LEU
1	m	239	VAL
1	n	138	LEU
1	n	239	VAL
1	o	138	LEU
1	o	239	VAL
1	p	138	LEU
1	p	239	VAL
1	q	138	LEU
1	q	239	VAL
1	r	138	LEU
1	r	239	VAL
1	s	138	LEU
1	s	239	VAL
1	t	138	LEU
1	t	239	VAL
1	u	138	LEU
1	u	239	VAL
1	v	138	LEU
1	v	239	VAL
1	w	138	LEU
1	w	239	VAL
1	x	138	LEU
1	x	239	VAL
1	y	138	LEU
1	y	239	VAL
1	z	138	LEU
1	z	239	VAL
1	7	138	LEU

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Mol	Chain	Res	Type
1	7	239	VAL
1	8	138	LEU
1	8	239	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (542) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	95	ASN
1	A	106	HIS
1	A	152	ASN
1	A	213	GLN
1	A	265	ASN
1	A	317	ASN
1	A	345	GLN
1	A	357	ASN
1	B	95	ASN
1	B	106	HIS
1	B	152	ASN
1	B	213	GLN
1	B	265	ASN
1	B	312	ASN
1	B	345	GLN
1	B	357	ASN
1	C	95	ASN
1	C	106	HIS
1	C	152	ASN
1	C	213	GLN
1	C	265	ASN
1	C	312	ASN
1	C	317	ASN
1	C	345	GLN
1	C	357	ASN
1	D	71	ASN
1	D	95	ASN
1	D	106	HIS
1	D	152	ASN
1	D	213	GLN
1	D	265	ASN
1	D	317	ASN
1	D	345	GLN
1	D	357	ASN
1	E	95	ASN

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Mol	Chain	Res	Type
1	E	106	HIS
1	E	152	ASN
1	E	213	GLN
1	E	265	ASN
1	E	312	ASN
1	E	317	ASN
1	E	345	GLN
1	E	357	ASN
1	F	71	ASN
1	F	95	ASN
1	F	106	HIS
1	F	152	ASN
1	F	213	GLN
1	F	265	ASN
1	F	312	ASN
1	F	317	ASN
1	F	345	GLN
1	F	357	ASN
1	G	95	ASN
1	G	106	HIS
1	G	152	ASN
1	G	213	GLN
1	G	265	ASN
1	G	312	ASN
1	G	317	ASN
1	G	345	GLN
1	G	357	ASN
1	H	95	ASN
1	H	106	HIS
1	H	152	ASN
1	H	213	GLN
1	H	265	ASN
1	H	317	ASN
1	H	345	GLN
1	H	357	ASN
1	I	71	ASN
1	I	95	ASN
1	I	106	HIS
1	I	152	ASN
1	I	213	GLN
1	I	265	ASN
1	I	312	ASN

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Mol	Chain	Res	Type
1	I	317	ASN
1	I	345	GLN
1	I	357	ASN
1	J	95	ASN
1	J	106	HIS
1	J	152	ASN
1	J	213	GLN
1	J	265	ASN
1	J	328	GLN
1	J	345	GLN
1	J	357	ASN
1	K	95	ASN
1	K	106	HIS
1	K	152	ASN
1	K	213	GLN
1	K	265	ASN
1	K	312	ASN
1	K	317	ASN
1	K	345	GLN
1	K	357	ASN
1	L	71	ASN
1	L	95	ASN
1	L	106	HIS
1	L	152	ASN
1	L	213	GLN
1	L	265	ASN
1	L	312	ASN
1	L	317	ASN
1	L	345	GLN
1	L	357	ASN
1	M	95	ASN
1	M	106	HIS
1	M	152	ASN
1	M	213	GLN
1	M	265	ASN
1	M	312	ASN
1	M	317	ASN
1	M	345	GLN
1	M	357	ASN
1	N	95	ASN
1	N	106	HIS
1	N	152	ASN

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Mol	Chain	Res	Type
1	N	213	GLN
1	N	265	ASN
1	N	312	ASN
1	N	317	ASN
1	N	345	GLN
1	N	357	ASN
1	O	95	ASN
1	O	106	HIS
1	O	152	ASN
1	O	213	GLN
1	O	265	ASN
1	O	312	ASN
1	O	317	ASN
1	O	345	GLN
1	O	357	ASN
1	P	95	ASN
1	P	106	HIS
1	P	152	ASN
1	P	213	GLN
1	P	265	ASN
1	P	312	ASN
1	P	317	ASN
1	P	345	GLN
1	P	357	ASN
1	Q	95	ASN
1	Q	106	HIS
1	Q	152	ASN
1	Q	213	GLN
1	Q	265	ASN
1	Q	312	ASN
1	Q	317	ASN
1	Q	345	GLN
1	Q	357	ASN
1	R	71	ASN
1	R	95	ASN
1	R	106	HIS
1	R	152	ASN
1	R	213	GLN
1	R	265	ASN
1	R	312	ASN
1	R	345	GLN
1	R	357	ASN

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Mol	Chain	Res	Type
1	S	71	ASN
1	S	95	ASN
1	S	106	HIS
1	S	152	ASN
1	S	213	GLN
1	S	265	ASN
1	S	312	ASN
1	S	317	ASN
1	S	345	GLN
1	S	357	ASN
1	T	71	ASN
1	T	95	ASN
1	T	106	HIS
1	T	152	ASN
1	T	213	GLN
1	T	265	ASN
1	T	312	ASN
1	T	317	ASN
1	T	345	GLN
1	T	357	ASN
1	U	95	ASN
1	U	106	HIS
1	U	152	ASN
1	U	213	GLN
1	U	265	ASN
1	U	312	ASN
1	U	317	ASN
1	U	345	GLN
1	U	357	ASN
1	V	95	ASN
1	V	106	HIS
1	V	152	ASN
1	V	213	GLN
1	V	265	ASN
1	V	317	ASN
1	V	345	GLN
1	V	357	ASN
1	W	95	ASN
1	W	106	HIS
1	W	152	ASN
1	W	213	GLN
1	W	265	ASN

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Mol	Chain	Res	Type
1	W	312	ASN
1	W	317	ASN
1	W	345	GLN
1	W	357	ASN
1	X	71	ASN
1	X	95	ASN
1	X	106	HIS
1	X	152	ASN
1	X	213	GLN
1	X	265	ASN
1	X	312	ASN
1	X	317	ASN
1	X	345	GLN
1	X	357	ASN
1	Y	71	ASN
1	Y	95	ASN
1	Y	106	HIS
1	Y	152	ASN
1	Y	213	GLN
1	Y	265	ASN
1	Y	312	ASN
1	Y	317	ASN
1	Y	345	GLN
1	Y	357	ASN
1	Z	95	ASN
1	Z	106	HIS
1	Z	152	ASN
1	Z	213	GLN
1	Z	265	ASN
1	Z	312	ASN
1	Z	317	ASN
1	Z	345	GLN
1	Z	357	ASN
1	1	95	ASN
1	1	106	HIS
1	1	152	ASN
1	1	213	GLN
1	1	265	ASN
1	1	312	ASN
1	1	317	ASN
1	1	345	GLN
1	1	357	ASN

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Mol	Chain	Res	Type
1	2	95	ASN
1	2	106	HIS
1	2	152	ASN
1	2	213	GLN
1	2	265	ASN
1	2	317	ASN
1	2	345	GLN
1	2	357	ASN
1	3	95	ASN
1	3	106	HIS
1	3	152	ASN
1	3	213	GLN
1	3	265	ASN
1	3	317	ASN
1	3	345	GLN
1	3	357	ASN
1	4	71	ASN
1	4	95	ASN
1	4	106	HIS
1	4	152	ASN
1	4	213	GLN
1	4	265	ASN
1	4	312	ASN
1	4	317	ASN
1	4	345	GLN
1	4	357	ASN
1	5	95	ASN
1	5	106	HIS
1	5	152	ASN
1	5	213	GLN
1	5	265	ASN
1	5	312	ASN
1	5	317	ASN
1	5	345	GLN
1	5	357	ASN
1	6	95	ASN
1	6	106	HIS
1	6	152	ASN
1	6	213	GLN
1	6	265	ASN
1	6	312	ASN
1	6	317	ASN

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Mol	Chain	Res	Type
1	6	345	GLN
1	6	357	ASN
1	a	95	ASN
1	a	106	HIS
1	a	152	ASN
1	a	213	GLN
1	a	265	ASN
1	a	312	ASN
1	a	317	ASN
1	a	345	GLN
1	a	357	ASN
1	b	71	ASN
1	b	95	ASN
1	b	106	HIS
1	b	152	ASN
1	b	213	GLN
1	b	265	ASN
1	b	317	ASN
1	b	345	GLN
1	b	357	ASN
1	c	95	ASN
1	c	106	HIS
1	c	152	ASN
1	c	213	GLN
1	c	265	ASN
1	c	312	ASN
1	c	317	ASN
1	c	345	GLN
1	c	357	ASN
1	d	95	ASN
1	d	106	HIS
1	d	152	ASN
1	d	213	GLN
1	d	265	ASN
1	d	317	ASN
1	d	345	GLN
1	d	357	ASN
1	e	95	ASN
1	e	106	HIS
1	e	152	ASN
1	e	213	GLN
1	e	265	ASN

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Mol	Chain	Res	Type
1	e	312	ASN
1	e	317	ASN
1	e	345	GLN
1	e	357	ASN
1	f	95	ASN
1	f	106	HIS
1	f	152	ASN
1	f	213	GLN
1	f	265	ASN
1	f	312	ASN
1	f	317	ASN
1	f	345	GLN
1	f	357	ASN
1	g	95	ASN
1	g	106	HIS
1	g	152	ASN
1	g	213	GLN
1	g	265	ASN
1	g	312	ASN
1	g	317	ASN
1	g	345	GLN
1	g	357	ASN
1	h	95	ASN
1	h	106	HIS
1	h	152	ASN
1	h	213	GLN
1	h	265	ASN
1	h	312	ASN
1	h	317	ASN
1	h	345	GLN
1	h	357	ASN
1	i	95	ASN
1	i	106	HIS
1	i	152	ASN
1	i	213	GLN
1	i	265	ASN
1	i	312	ASN
1	i	317	ASN
1	i	345	GLN
1	i	357	ASN
1	j	95	ASN
1	j	106	HIS

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Mol	Chain	Res	Type
1	j	152	ASN
1	j	213	GLN
1	j	265	ASN
1	j	312	ASN
1	j	317	ASN
1	j	345	GLN
1	j	357	ASN
1	k	95	ASN
1	k	106	HIS
1	k	152	ASN
1	k	213	GLN
1	k	265	ASN
1	k	312	ASN
1	k	345	GLN
1	k	357	ASN
1	l	95	ASN
1	l	106	HIS
1	l	152	ASN
1	l	213	GLN
1	l	265	ASN
1	l	328	GLN
1	l	345	GLN
1	l	357	ASN
1	m	71	ASN
1	m	95	ASN
1	m	106	HIS
1	m	152	ASN
1	m	213	GLN
1	m	265	ASN
1	m	312	ASN
1	m	317	ASN
1	m	345	GLN
1	m	357	ASN
1	n	95	ASN
1	n	106	HIS
1	n	152	ASN
1	n	213	GLN
1	n	265	ASN
1	n	312	ASN
1	n	317	ASN
1	n	345	GLN
1	n	357	ASN

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Mol	Chain	Res	Type
1	o	71	ASN
1	o	95	ASN
1	o	106	HIS
1	o	152	ASN
1	o	213	GLN
1	o	265	ASN
1	o	312	ASN
1	o	317	ASN
1	o	345	GLN
1	o	357	ASN
1	p	71	ASN
1	p	95	ASN
1	p	106	HIS
1	p	152	ASN
1	p	213	GLN
1	p	265	ASN
1	p	312	ASN
1	p	317	ASN
1	p	345	GLN
1	p	357	ASN
1	q	95	ASN
1	q	106	HIS
1	q	152	ASN
1	q	213	GLN
1	q	265	ASN
1	q	312	ASN
1	q	317	ASN
1	q	345	GLN
1	q	357	ASN
1	r	71	ASN
1	r	95	ASN
1	r	106	HIS
1	r	152	ASN
1	r	213	GLN
1	r	265	ASN
1	r	312	ASN
1	r	317	ASN
1	r	345	GLN
1	r	357	ASN
1	s	95	ASN
1	s	106	HIS
1	s	152	ASN

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Mol	Chain	Res	Type
1	s	213	GLN
1	s	265	ASN
1	s	317	ASN
1	s	345	GLN
1	s	357	ASN
1	t	95	ASN
1	t	106	HIS
1	t	152	ASN
1	t	213	GLN
1	t	265	ASN
1	t	312	ASN
1	t	345	GLN
1	t	357	ASN
1	u	71	ASN
1	u	95	ASN
1	u	106	HIS
1	u	152	ASN
1	u	213	GLN
1	u	265	ASN
1	u	312	ASN
1	u	345	GLN
1	u	357	ASN
1	v	71	ASN
1	v	95	ASN
1	v	106	HIS
1	v	152	ASN
1	v	213	GLN
1	v	265	ASN
1	v	312	ASN
1	v	317	ASN
1	v	345	GLN
1	v	357	ASN
1	w	71	ASN
1	w	95	ASN
1	w	106	HIS
1	w	152	ASN
1	w	213	GLN
1	w	265	ASN
1	w	312	ASN
1	w	317	ASN
1	w	345	GLN
1	w	357	ASN

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Mol	Chain	Res	Type
1	x	71	ASN
1	x	95	ASN
1	x	106	HIS
1	x	152	ASN
1	x	213	GLN
1	x	265	ASN
1	x	312	ASN
1	x	317	ASN
1	x	345	GLN
1	x	357	ASN
1	y	95	ASN
1	y	106	HIS
1	y	152	ASN
1	y	213	GLN
1	y	265	ASN
1	y	317	ASN
1	y	345	GLN
1	y	357	ASN
1	z	71	ASN
1	z	95	ASN
1	z	106	HIS
1	z	152	ASN
1	z	213	GLN
1	z	265	ASN
1	z	317	ASN
1	z	345	GLN
1	z	357	ASN
1	7	95	ASN
1	7	106	HIS
1	7	152	ASN
1	7	213	GLN
1	7	265	ASN
1	7	312	ASN
1	7	317	ASN
1	7	345	GLN
1	7	357	ASN
1	8	95	ASN
1	8	106	HIS
1	8	152	ASN
1	8	213	GLN
1	8	265	ASN
1	8	312	ASN

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Mol	Chain	Res	Type
1	8	317	ASN
1	8	345	GLN
1	8	357	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

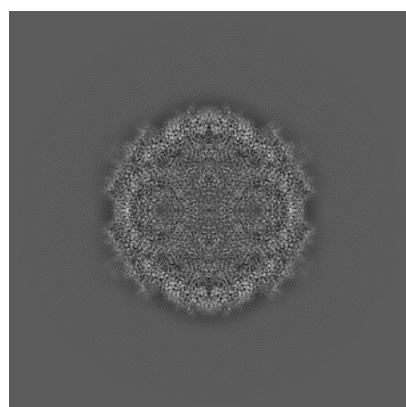
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-21668. These allow visual inspection of the internal detail of the map and identification of artifacts.

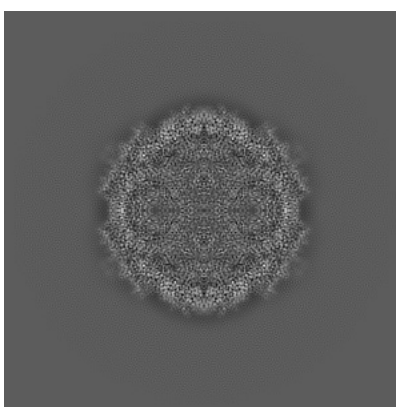
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

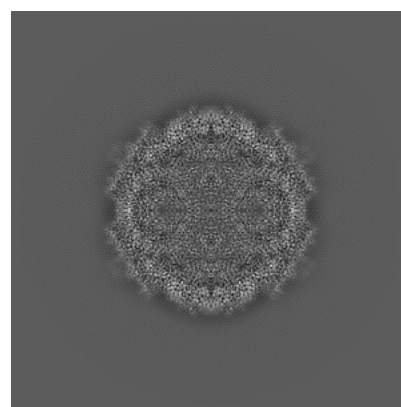
6.1.1 Primary map



X



Y

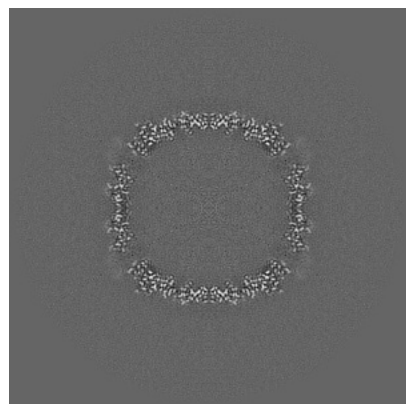


Z

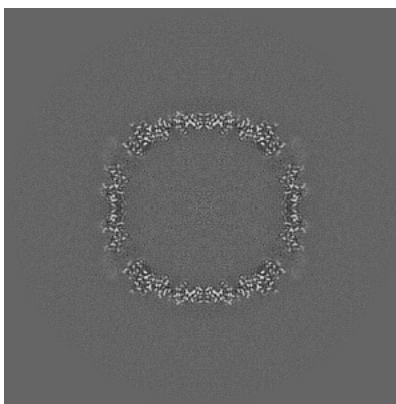
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

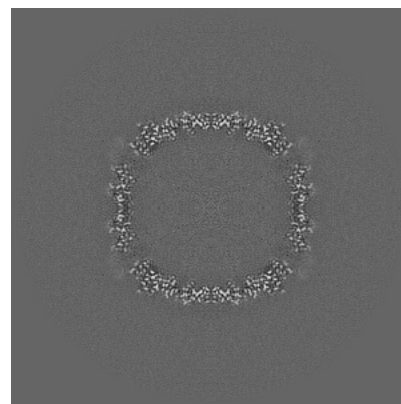
6.2.1 Primary map



X Index: 200



Y Index: 200

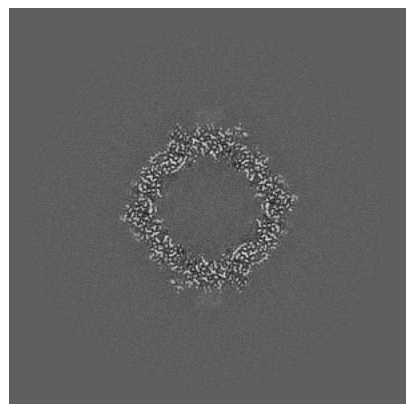


Z Index: 200

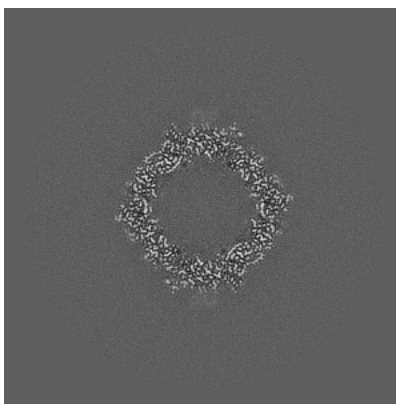
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

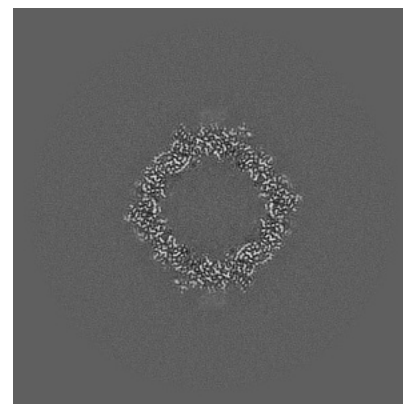
6.3.1 Primary map



X Index: 137



Y Index: 137

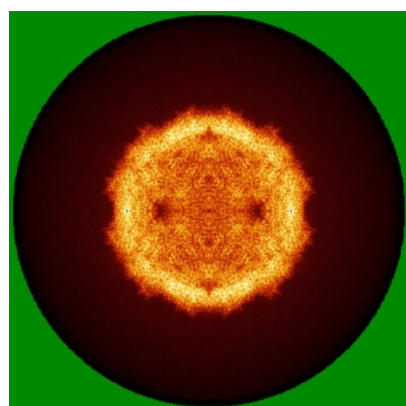


Z Index: 137

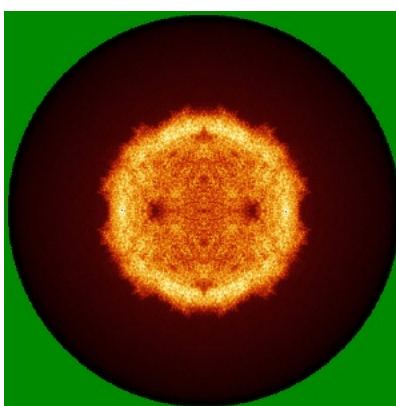
The images above show the largest variance slices of the map in three orthogonal directions.

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

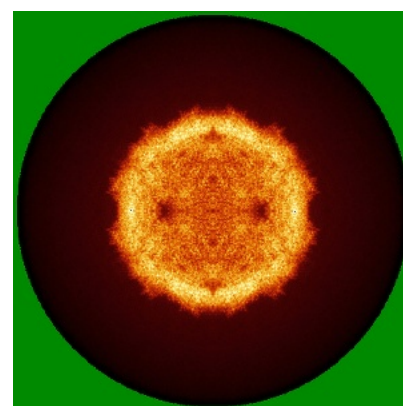
6.4.1 Primary map



X



Y

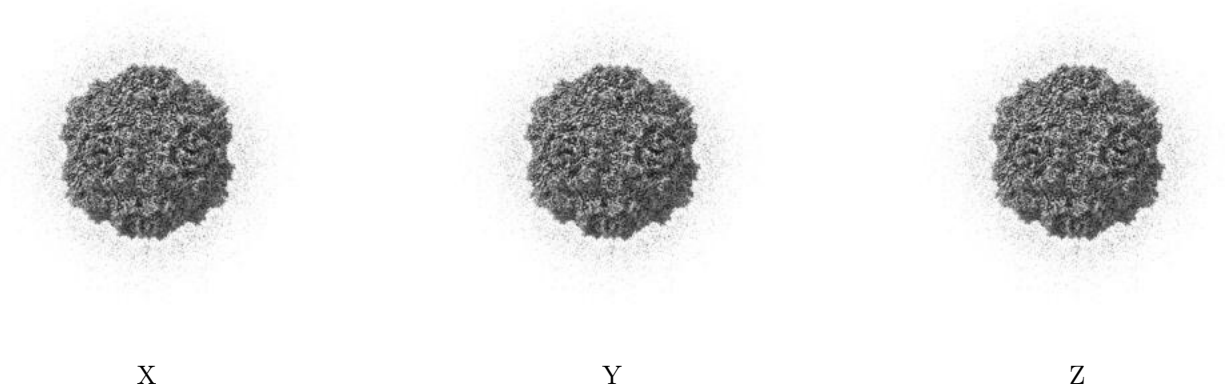


Z

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



The images above show the 3D surface view of the map at the recommended contour level 1.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

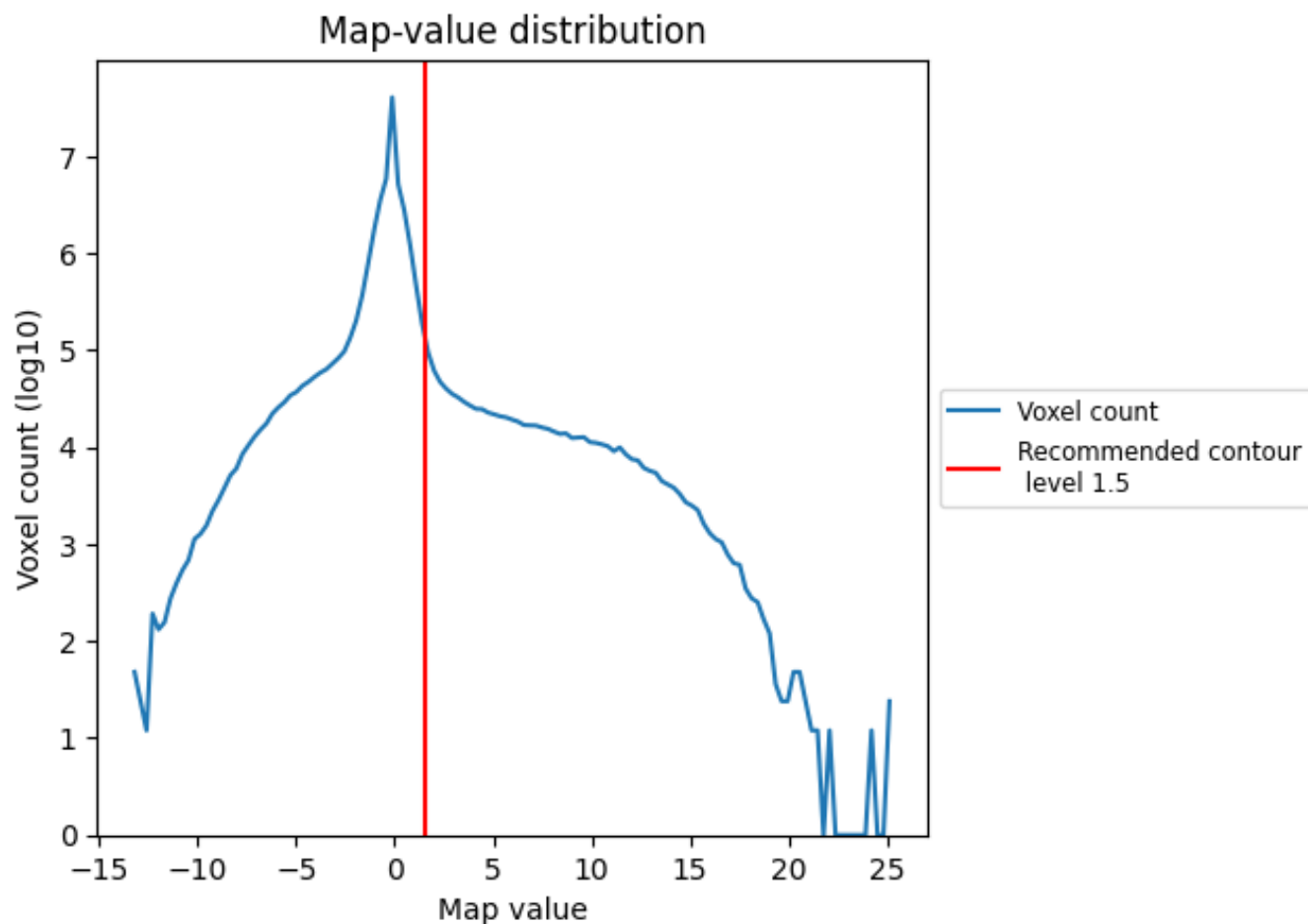
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

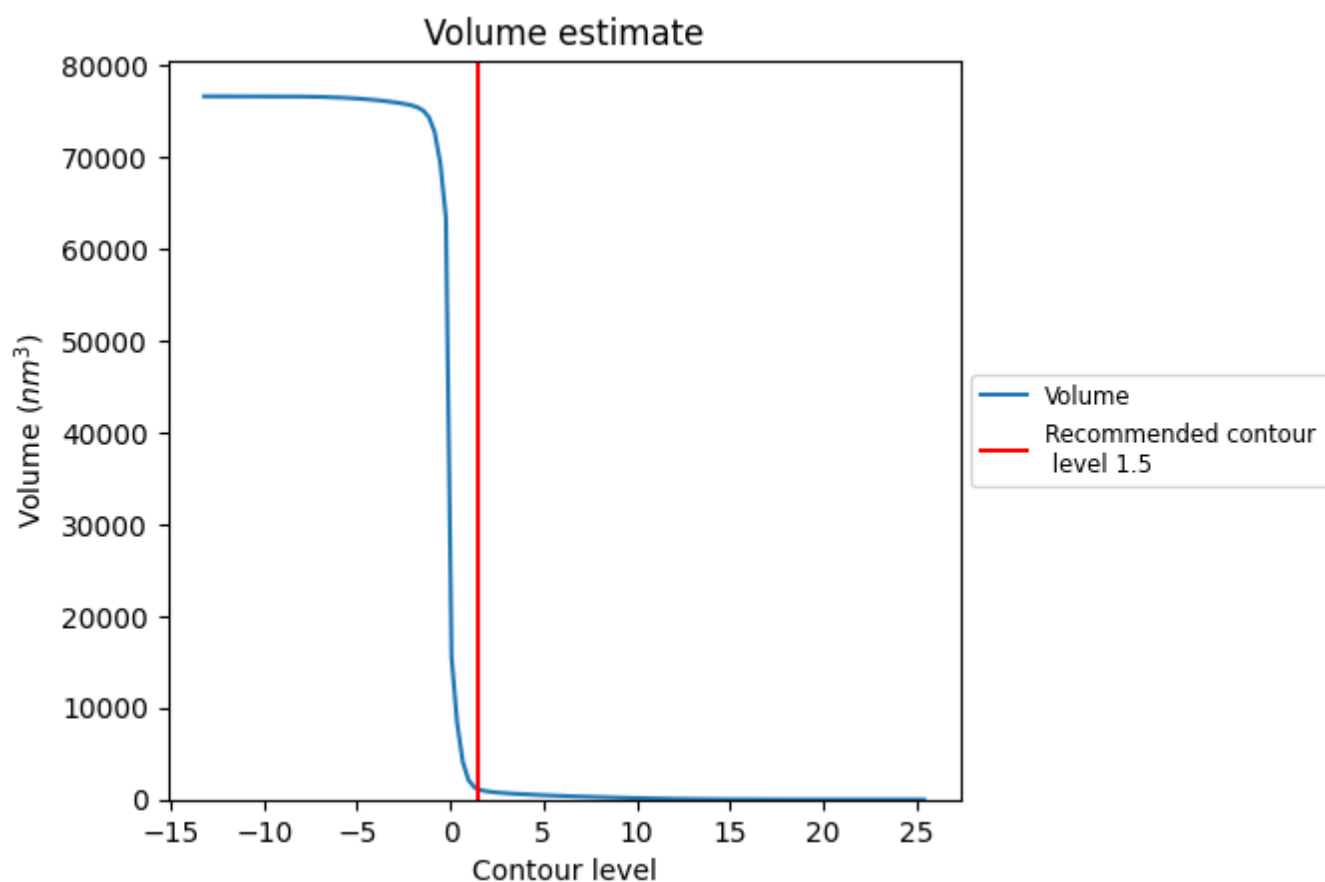
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

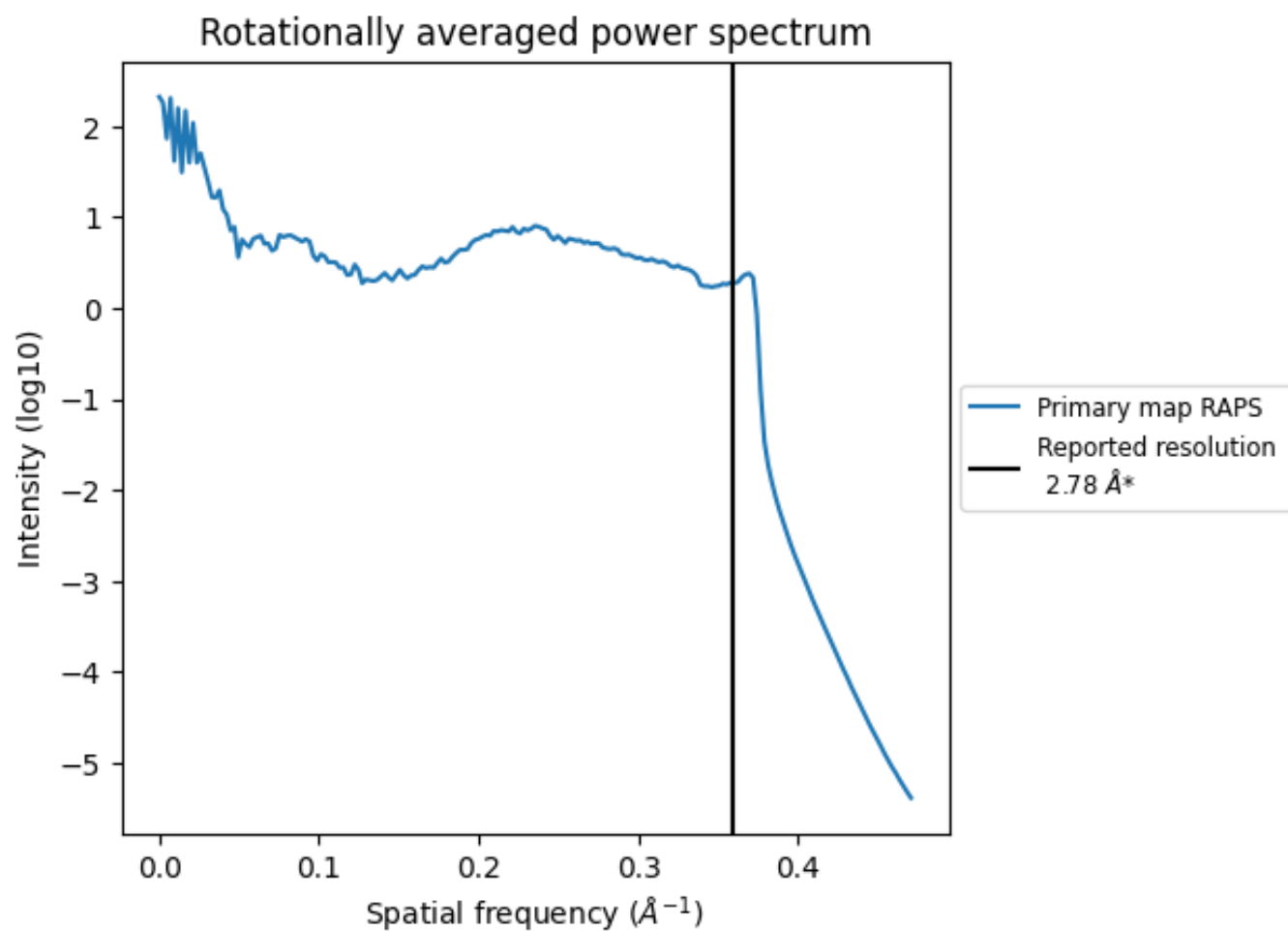
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1143 nm³; this corresponds to an approximate mass of 1032 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.360 Å⁻¹

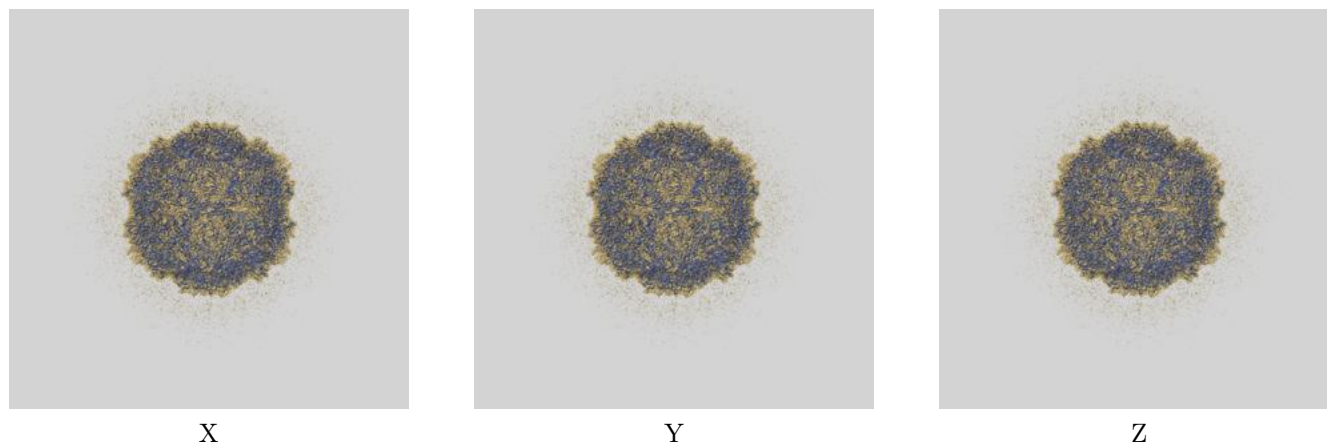
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

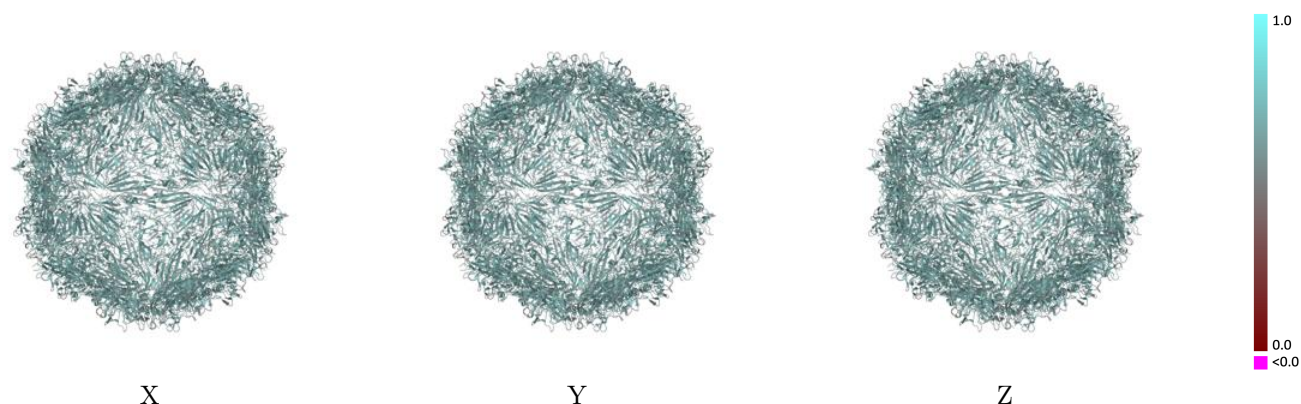
This section contains information regarding the fit between EMDB map EMD-21668 and PDB model 6WH7. Per-residue inclusion information can be found in [section 3](#) on [page 10](#).

9.1 Map-model overlay [i](#)



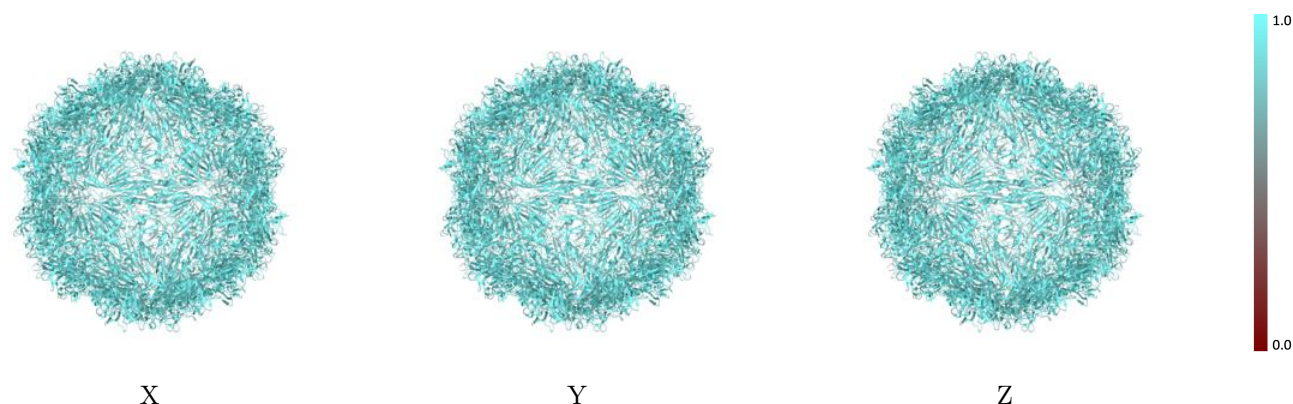
The images above show the 3D surface view of the map at the recommended contour level 1.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



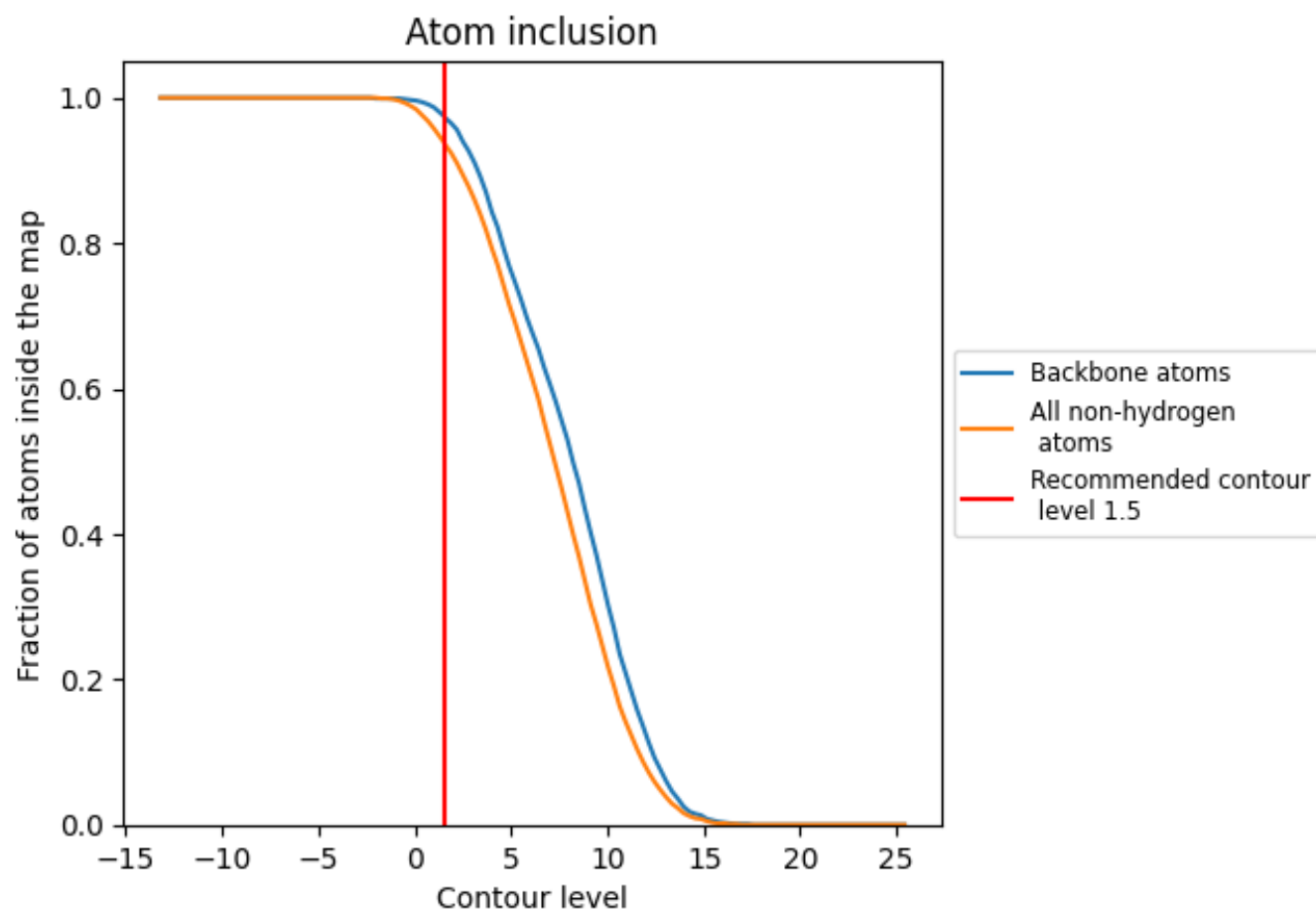
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1.5).

9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 94% 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 (1.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9390	 0.6270
1	 0.9400	 0.6270
2	 0.9400	 0.6270
3	 0.9400	 0.6280
4	 0.9400	 0.6270
5	 0.9400	 0.6260
6	 0.9400	 0.6250
7	 0.9390	 0.6260
8	 0.9400	 0.6260
A	 0.9400	 0.6250
B	 0.9380	 0.6260
C	 0.9370	 0.6260
D	 0.9400	 0.6270
E	 0.9400	 0.6260
F	 0.9400	 0.6270
G	 0.9400	 0.6260
H	 0.9400	 0.6290
I	 0.9370	 0.6270
J	 0.9380	 0.6280
K	 0.9370	 0.6270
L	 0.9380	 0.6260
M	 0.9400	 0.6260
N	 0.9400	 0.6270
O	 0.9400	 0.6270
P	 0.9400	 0.6270
Q	 0.9370	 0.6270
R	 0.9380	 0.6280
S	 0.9380	 0.6270
T	 0.9370	 0.6280
U	 0.9380	 0.6270
V	 0.9370	 0.6270
W	 0.9400	 0.6280
X	 0.9400	 0.6270
Y	 0.9390	 0.6270
Z	 0.9400	 0.6260



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Chain	Atom inclusion	Q-score
a	 0.9370	 0.6260
b	 0.9410	 0.6270
c	 0.9390	 0.6270
d	 0.9400	 0.6290
e	 0.9380	 0.6260
f	 0.9400	 0.6260
g	 0.9370	 0.6280
h	 0.9400	 0.6260
i	 0.9410	 0.6280
j	 0.9370	 0.6270
k	 0.9380	 0.6270
l	 0.9380	 0.6270
m	 0.9380	 0.6270
n	 0.9400	 0.6250
o	 0.9370	 0.6270
p	 0.9400	 0.6260
q	 0.9410	 0.6250
r	 0.9370	 0.6250
s	 0.9400	 0.6260
t	 0.9380	 0.6270
u	 0.9380	 0.6280
v	 0.9380	 0.6280
w	 0.9400	 0.6280
x	 0.9370	 0.6270
y	 0.9400	 0.6280
z	 0.9400	 0.6270