



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 09:01 AM UTC

PDB ID : 9DC3 / pdb_00009dc3
EMDB ID : EMD-46741
Title : AAV8 in complex with the AAVX affinity ligand
Authors : Mietzsch, M.; McKenna, R.
Deposited on : 2024-08-25
Resolution : 2.31 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

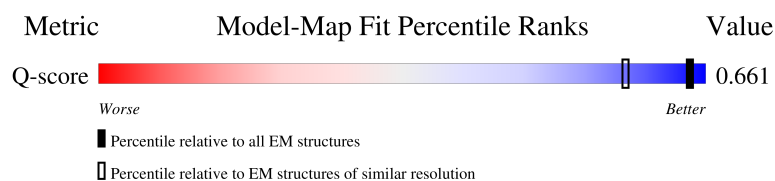
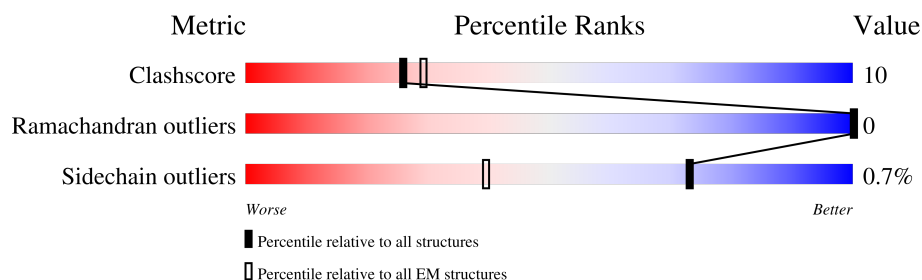
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.31 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.



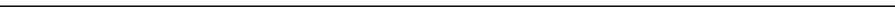
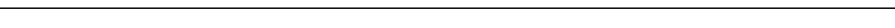
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	4306 (1.81 - 2.81)

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	535	
1	2	535	
1	3	535	
1	4	535	

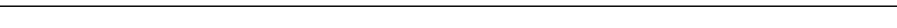
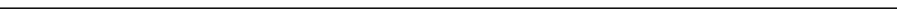
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Mol	Chain	Length	Quality of chain	
1	5	535		80% 17% .
1	6	535		80% 17% .
1	7	535		79% 18% .
1	8	535		79% 18% .
1	A	535		80% 16% .
1	B	535		80% 17% .
1	C	535		79% 17% .
1	D	535		80% 17% .
1	E	535		79% 17% .
1	F	535		80% 17% .
1	G	535		80% 17% .
1	H	535		79% 18% .
1	I	535		79% 18% .
1	J	535		80% 17% .
1	K	535		80% 17% .
1	L	535		81% 16% .
1	M	535		80% 17% .
1	N	535		79% 17% .
1	O	535		80% 17% .
1	P	535		80% 17% .
1	Q	535		80% 17% .
1	R	535		80% 17% .
1	S	535		79% 18% .
1	T	535		79% 18% .
1	U	535		80% 17% .

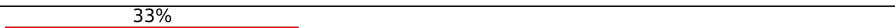
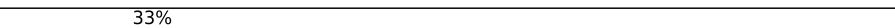
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Mol	Chain	Length	Quality of chain	
1	V	535		•
1	W	535		•
1	X	535		•
1	Y	535		•
1	Z	535		•
1	a	535		•
1	b	535		•
1	c	535		•
1	d	535		•
1	e	535		•
1	f	535		•
1	g	535		•
1	h	535		•
1	i	535		•
1	j	535		•
1	k	535		•
1	l	535		•
1	m	535		•
1	n	535		•
1	o	535		•
1	p	535		•
1	q	535		•
1	r	535		•
1	s	535		•
1	t	535		•

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Mol	Chain	Length	Quality of chain
1	u	535	 80% 17% .
1	v	535	 80% 17% .
1	w	535	 80% 17% .
1	x	535	 79% 18% .
1	y	535	 80% 17% .
1	z	535	 80% 17% .
2	12	126	 34% 63% 36% ..
2	22	126	 33% 61% 37% ..
2	32	126	 34% 62% 37% ..
2	42	126	 34% 62% 37% ..
2	52	126	 33% 62% 37% ..
2	62	126	 33% 62% 37% ..
2	72	126	 33% 61% 37% ..
2	82	126	 33% 62% 37% ..
2	A2	126	 33% 62% 37% ..
2	B2	126	 33% 62% 37% ..
2	C2	126	 33% 62% 37% ..
2	D2	126	 33% 62% 37% ..
2	E2	126	 34% 62% 37% ..
2	F2	126	 34% 61% 37% ..
2	G2	126	 33% 62% 37% ..
2	H2	126	 33% 61% 37% ..
2	I2	126	 33% 62% 37% ..
2	J2	126	 33% 62% 37% ..
2	K2	126	 33% 62% 37% ..

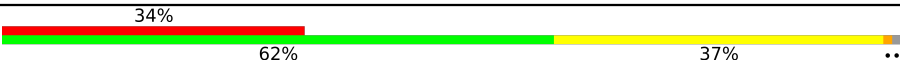
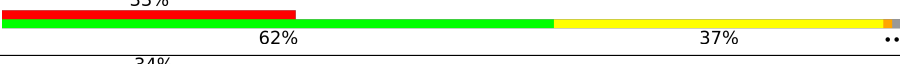
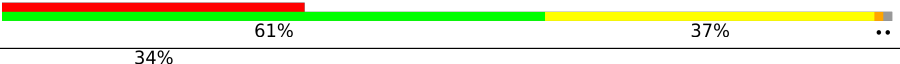
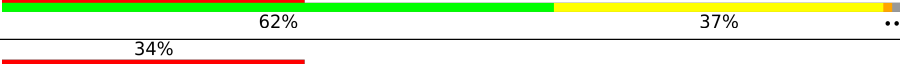
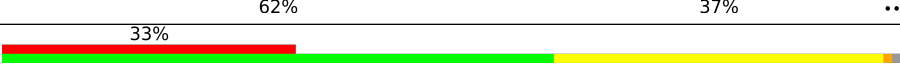
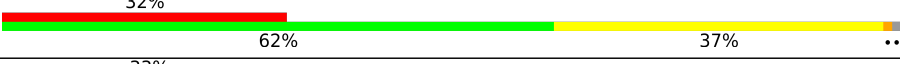
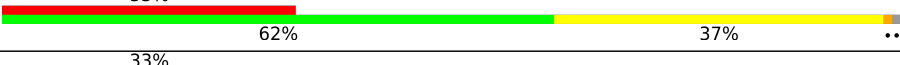
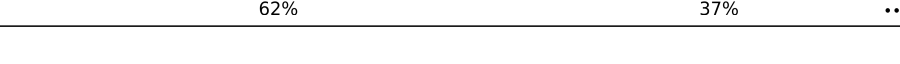
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Mol	Chain	Length	Quality of chain
2	L2	126	33% 62% 37% ..
2	M2	126	33% 62% 37% ..
2	N2	126	33% 62% 37% ..
2	O2	126	33% 62% 37% ..
2	P2	126	33% 62% 37% ..
2	Q2	126	34% 62% 37% ..
2	R2	126	33% 62% 37% ..
2	S2	126	33% 62% 37% ..
2	T2	126	33% 62% 37% ..
2	U2	126	33% 62% 37% ..
2	V2	126	33% 62% 37% ..
2	W2	126	34% 62% 37% ..
2	X2	126	33% 62% 37% ..
2	Y2	126	33% 62% 37% ..
2	Z2	126	34% 62% 37% ..
2	a2	126	33% 62% 37% ..
2	b2	126	33% 62% 37% ..
2	c2	126	34% 62% 37% ..
2	d2	126	33% 62% 37% ..
2	e2	126	33% 62% 37% ..
2	f2	126	33% 62% 37% ..
2	g2	126	33% 62% 37% ..
2	h2	126	33% 61% 37% ..
2	i2	126	34% 62% 37% ..
2	j2	126	34% 63% 35% ..

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Mol	Chain	Length	Quality of chain	
2	k2	126		..
2	l2	126		..
2	m2	126		..
2	n2	126		..
2	o2	126		..
2	p2	126		..
2	q2	126		..
2	r2	126		..
2	s2	126		..
2	t2	126		..
2	u2	126		..
2	v2	126		..
2	w2	126		..
2	x2	126		..
2	y2	126		..
2	z2	126		..

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 305280 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	B	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	C	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	D	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	E	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	F	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	G	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	H	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	I	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	J	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	K	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	L	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	M	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	N	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	O	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	P	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		
1	Q	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	S	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	T	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	U	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	V	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	W	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	X	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	Y	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	Z	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	a	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	b	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	c	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	d	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	e	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	f	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	g	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	h	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	i	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	j	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	k	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	l	520	Total 4141	C 2612	N 717	O 799	S 13	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	n	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	o	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	p	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	q	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	r	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	s	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	t	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	u	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	v	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	w	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	x	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	y	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	z	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	1	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	2	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	3	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	4	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	5	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	6	520	Total 4141	C 2612	N 717	O 799	S 13	0	0
1	7	520	Total 4141	C 2612	N 717	O 799	S 13	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	520	Total	C	N	O	S	0	0
			4141	2612	717	799	13		

- Molecule 2 is a protein called AAVX affinity ligand.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	B2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	C2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	D2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	E2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	F2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	G2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	H2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	I2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	J2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	K2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	L2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	M2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	N2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	O2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	P2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	Q2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		
2	R2	125	Total	C	N	O	S	0	0
			947	583	170	188	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	S2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	T2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	U2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	V2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	W2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	X2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	Y2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	Z2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	a2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	b2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	c2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	d2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	e2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	f2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	g2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	h2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	i2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	j2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	k2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	l2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	m2	125	Total 947	C 583	N 170	O 188	S 6	0	0

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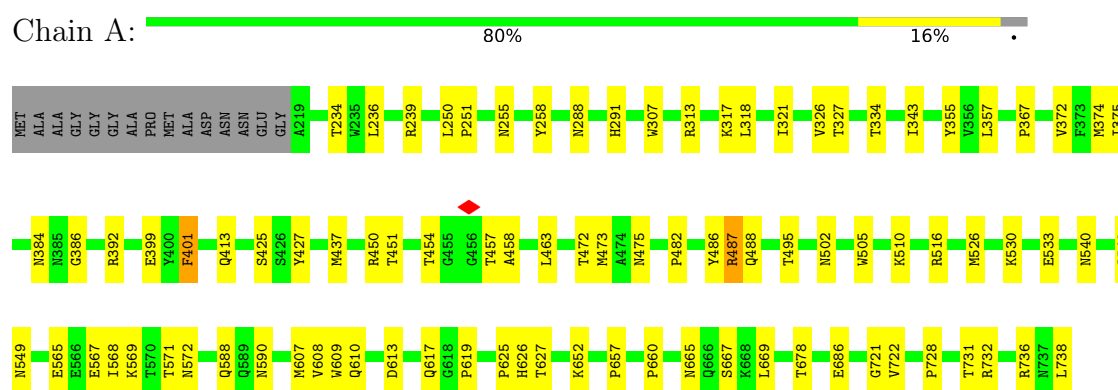
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Mol	Chain	Residues	Atoms					AltConf	Trace
2	n2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	o2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	p2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	q2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	r2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	s2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	t2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	u2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	v2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	w2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	x2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	y2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	z2	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	12	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	22	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	32	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	42	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	52	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	62	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	72	125	Total 947	C 583	N 170	O 188	S 6	0	0
2	82	125	Total 947	C 583	N 170	O 188	S 6	0	0

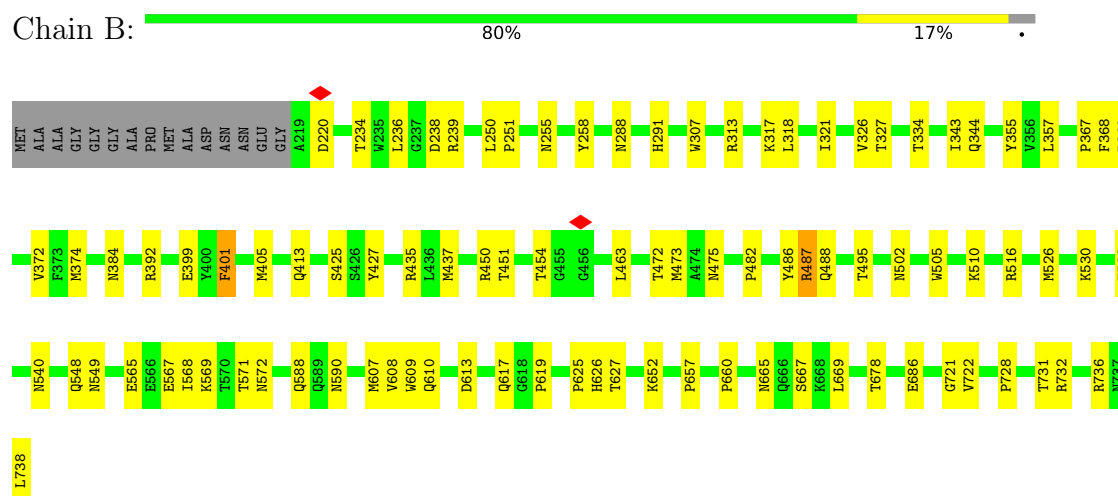
3 Residue-property plots

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

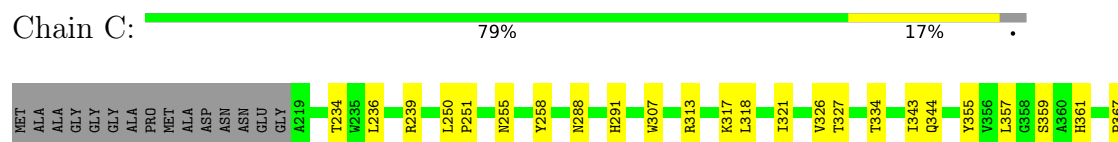
• Molecule 1: Capsid protein

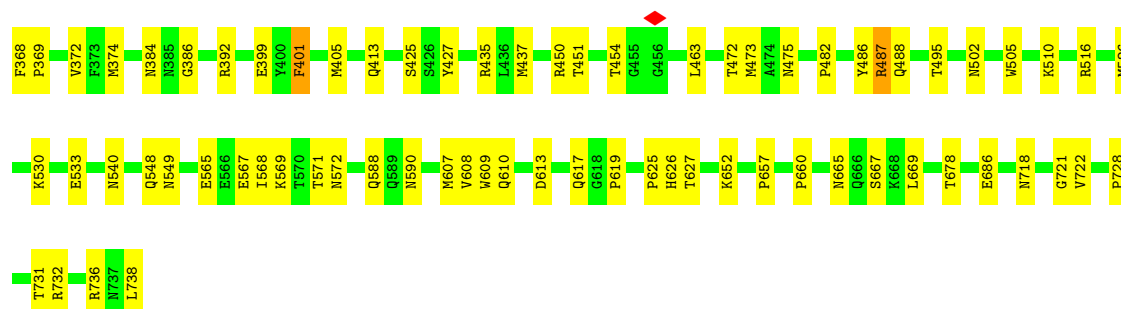


• Molecule 1: Capsid protein



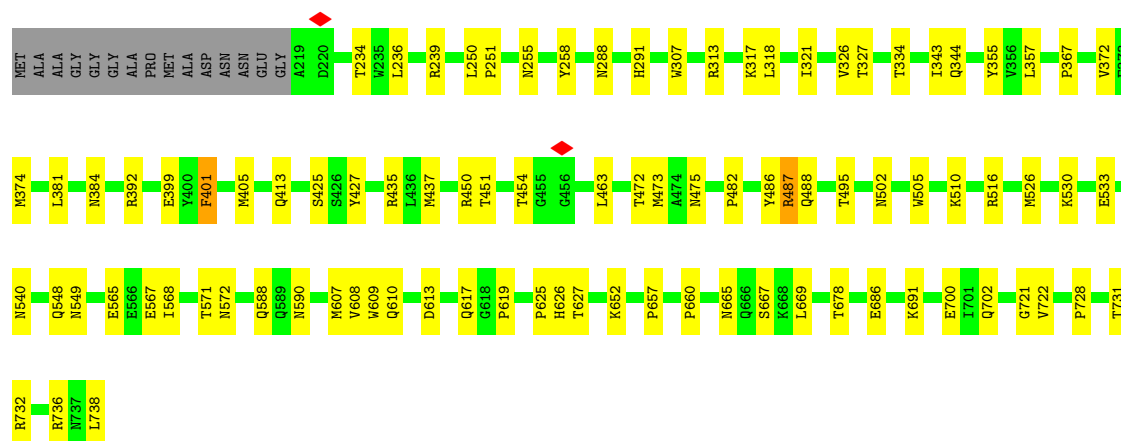
• Molecule 1: Capsid protein





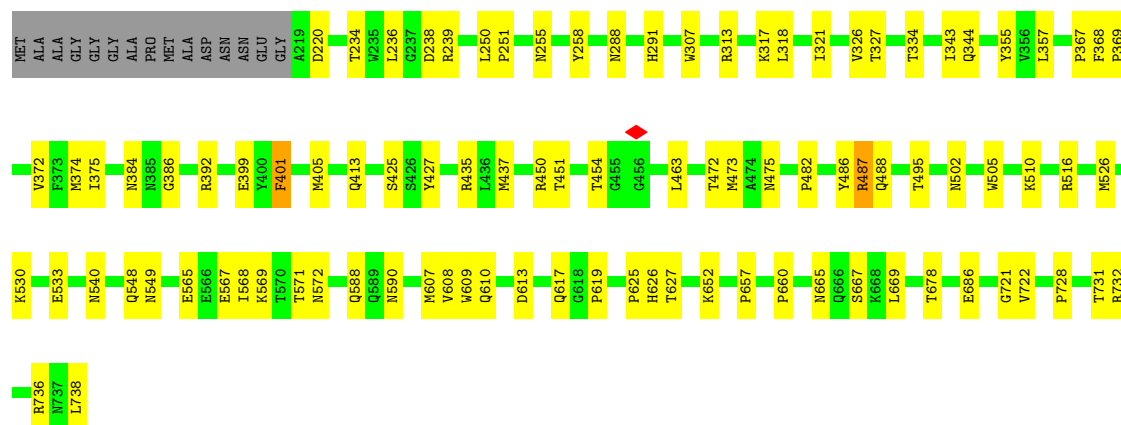
- Molecule 1: Capsid protein

Chain D: 80% 17% .



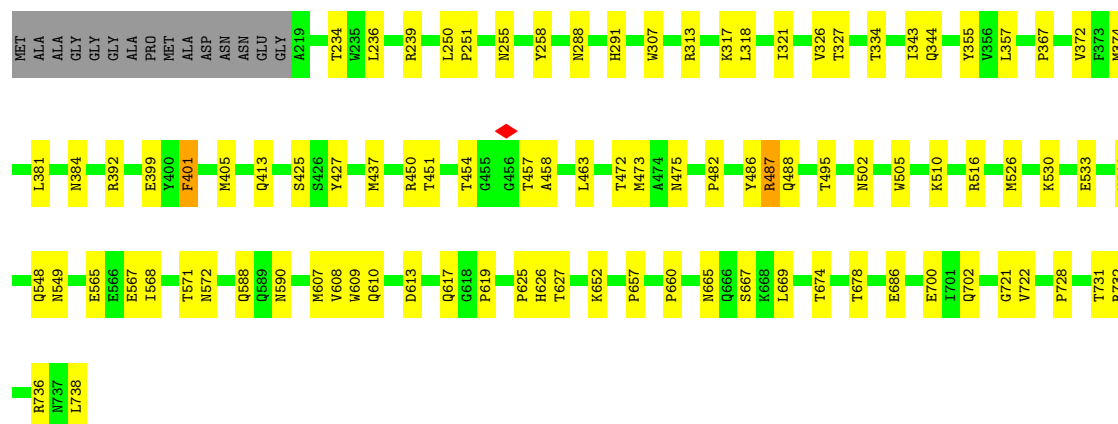
- Molecule 1: Capsid protein

Chain E: 79% 17% .



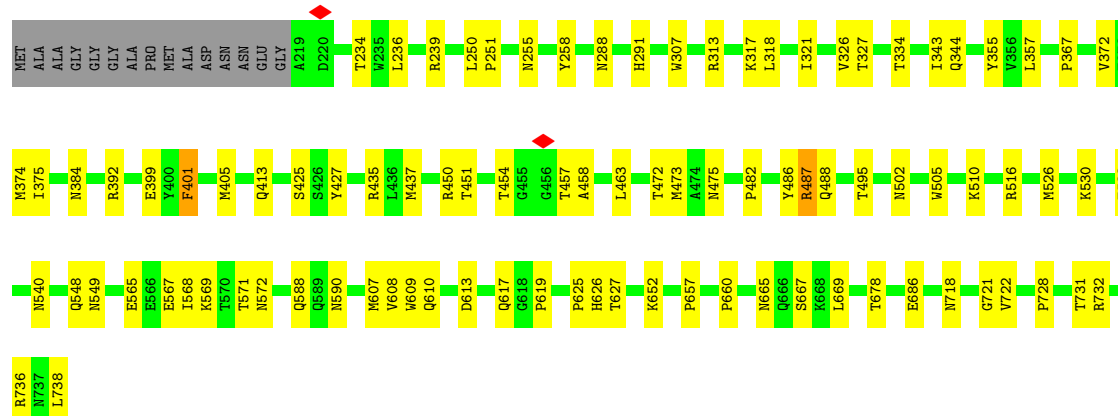
- Molecule 1: Capsid protein

Chain F: 80% 17% .



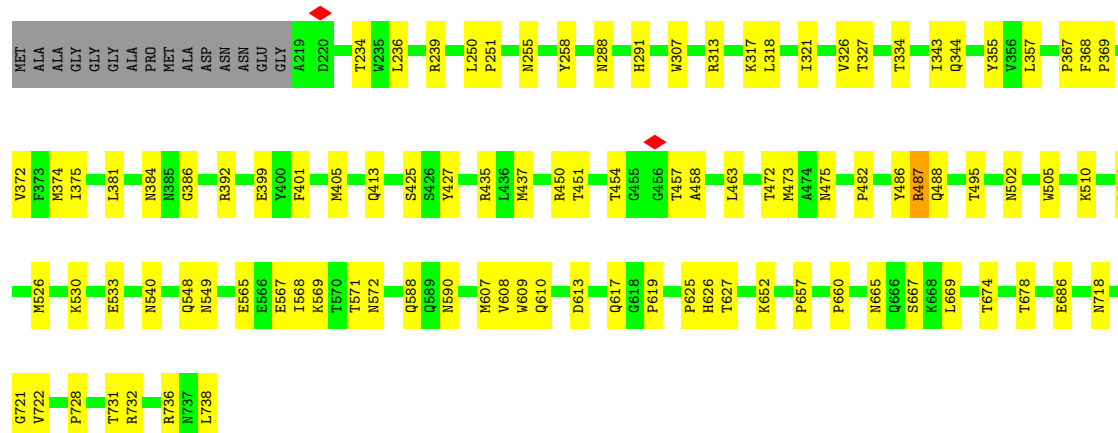
- Molecule 1: Capsid protein

Chain G:  80% 17% .



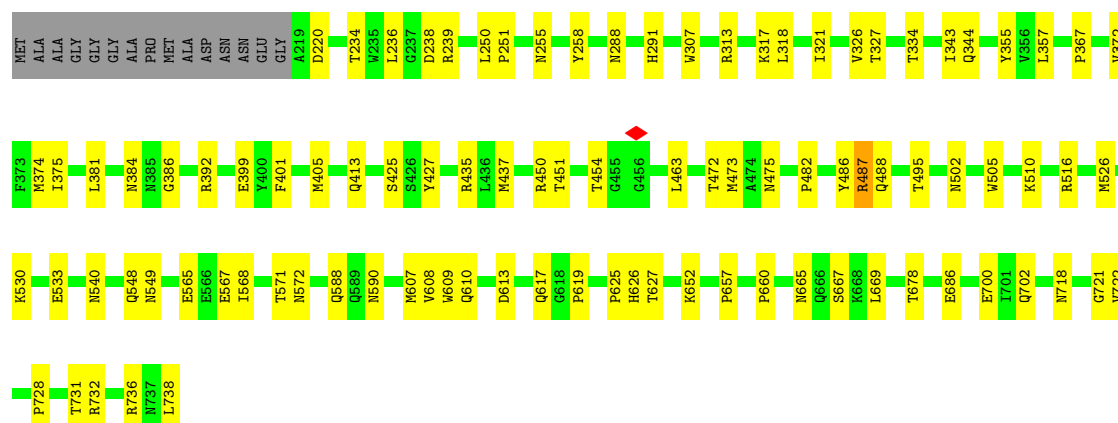
- Molecule 1: Capsid protein

Chain H: 79% 18% .



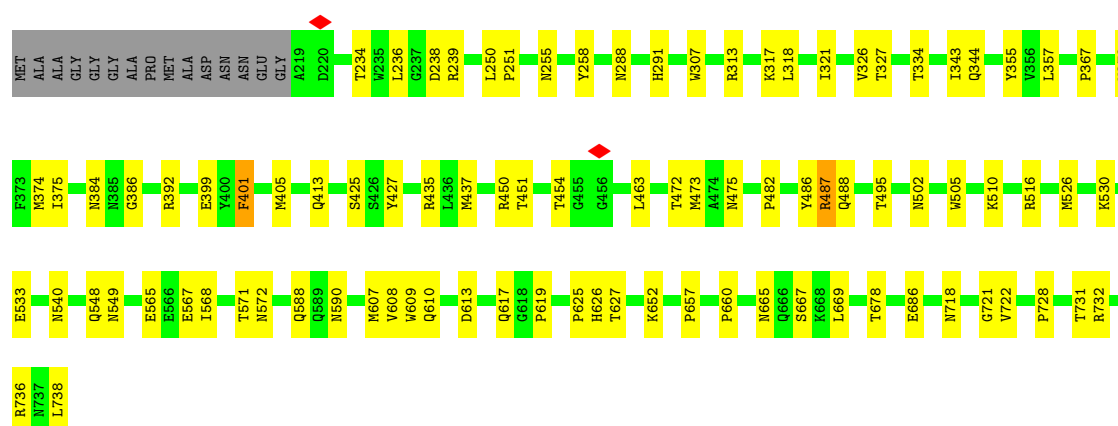
- Molecule 1: Capsid protein

Chain I:  79% 18%



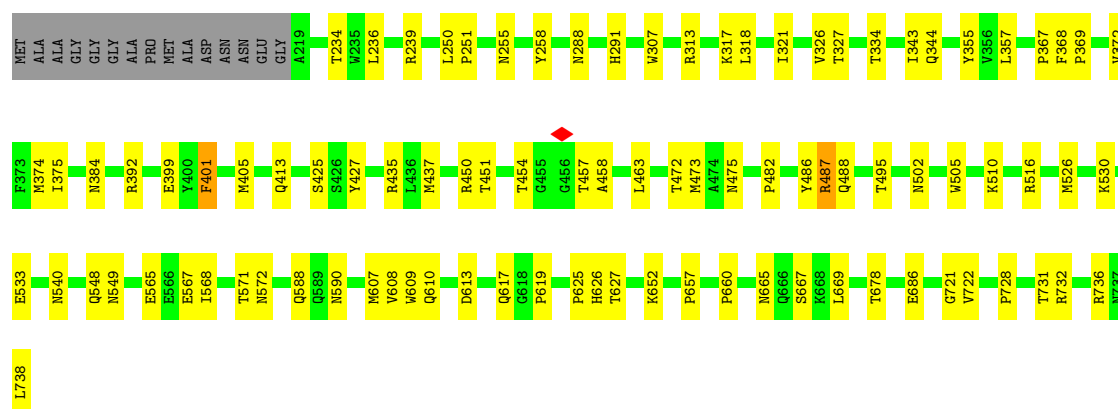
• Molecule 1: Capsid protein

Chain J:  80% 17%



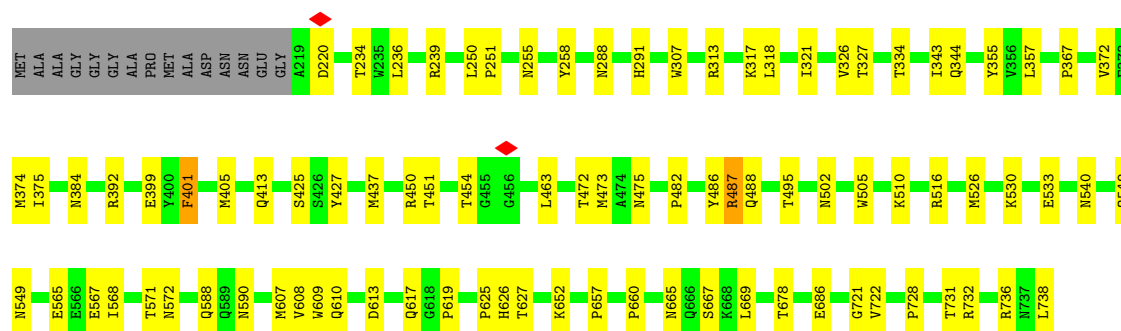
• Molecule 1: Capsid protein

Chain K:  80% 17%



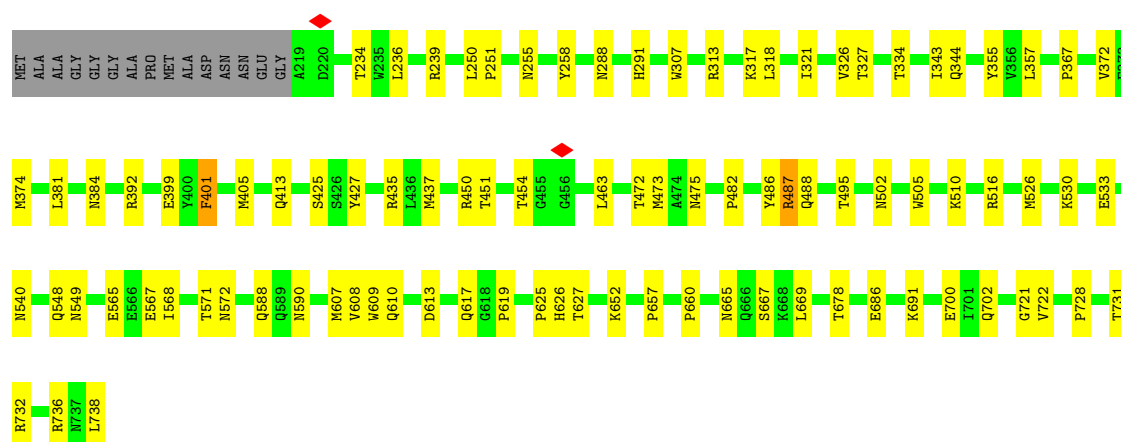
• Molecule 1: Capsid protein

Chain L:  81% 16%



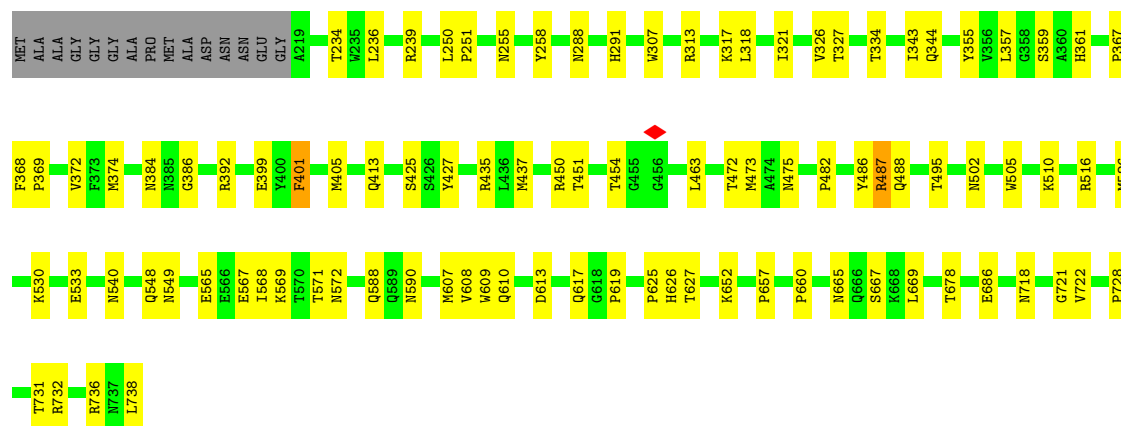
• Molecule 1: Capsid protein

Chain M:  80% 17%



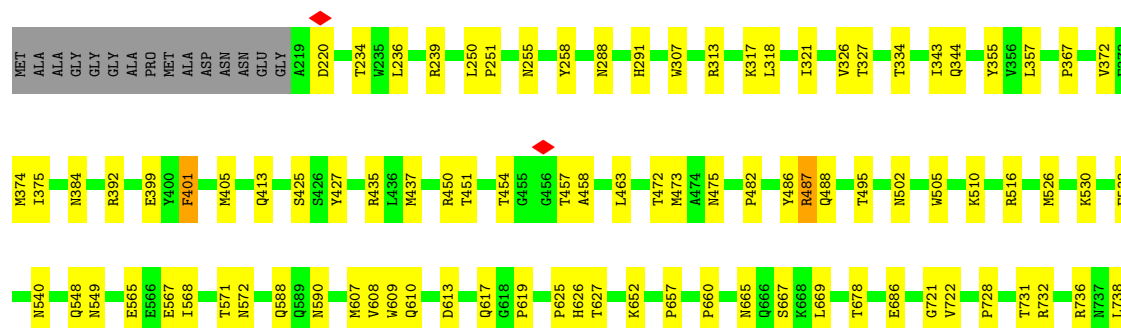
• Molecule 1: Capsid protein

Chain N:  79% 17%



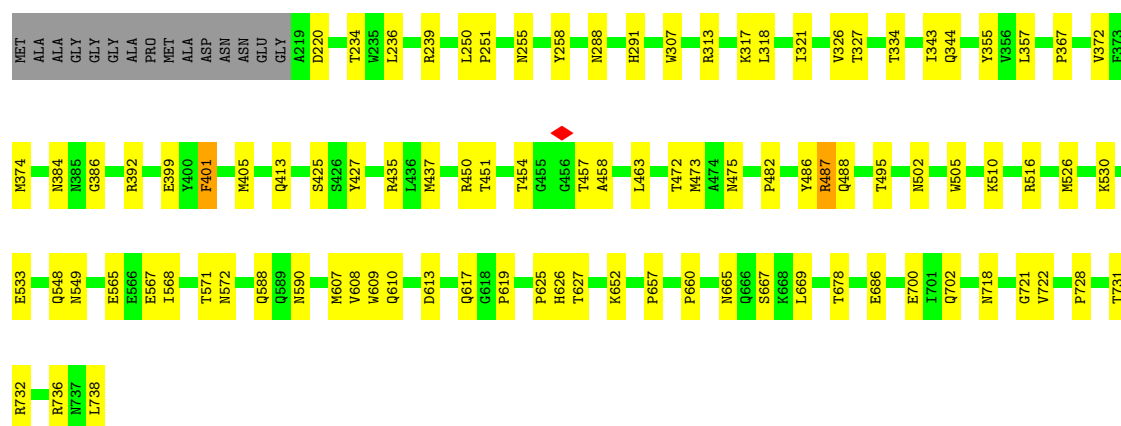
• Molecule 1: Capsid protein

Chain O:  80% 17%



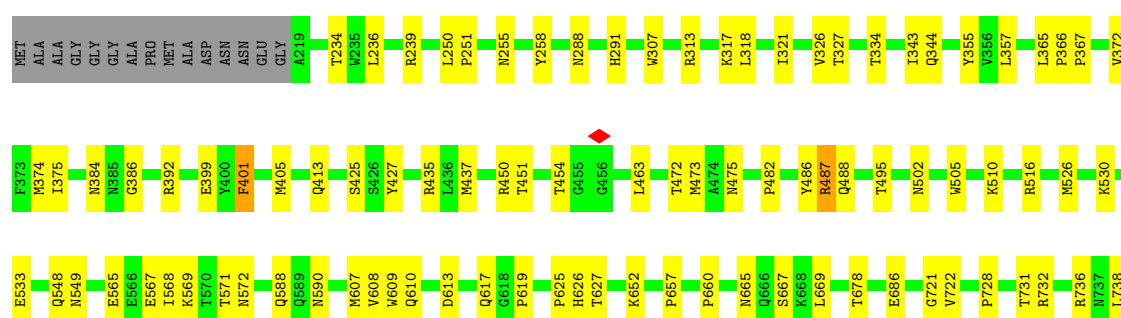
• Molecule 1: Capsid protein

Chain P: 80% 17% .



• Molecule 1: Capsid protein

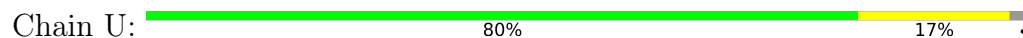
Chain Q: 80% 17% .

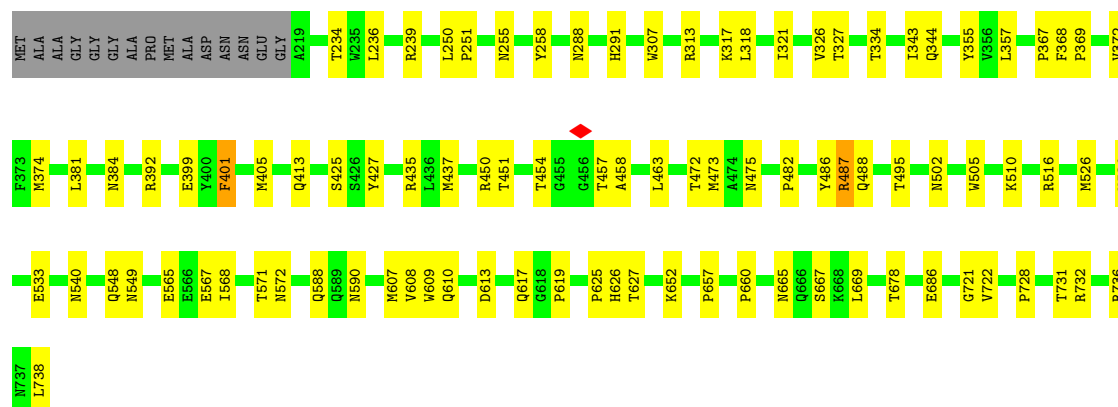


• Molecule 1: Capsid protein

Chain R: 80% 17% .

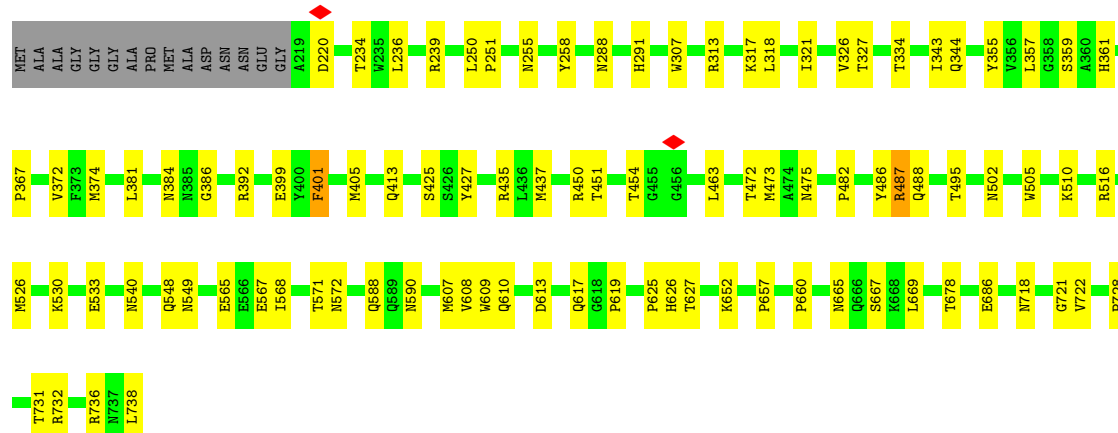






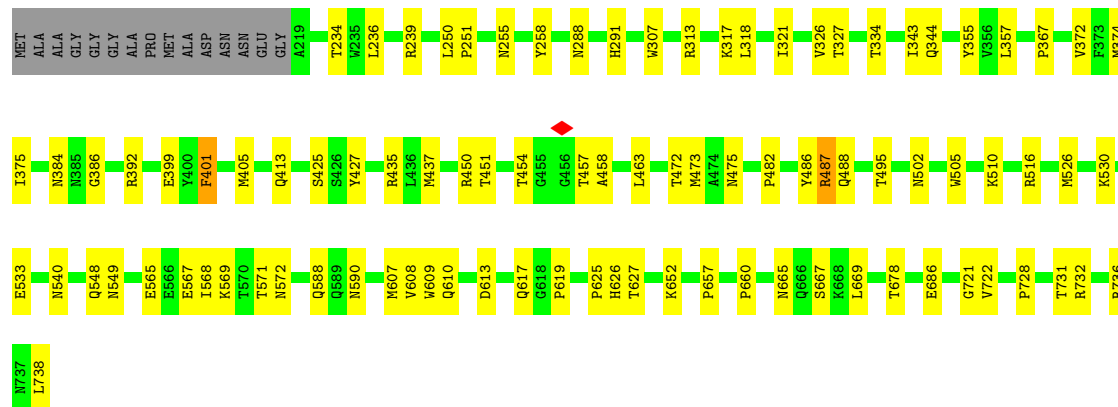
• Molecule 1: Capsid protein

Chain V: 80% 17% .



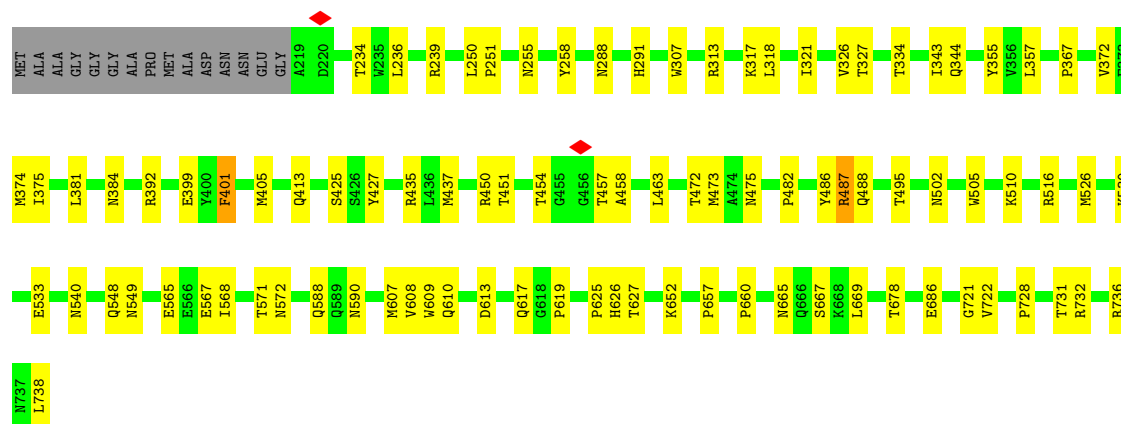
• Molecule 1: Capsid protein

Chain W: 80% 17% .



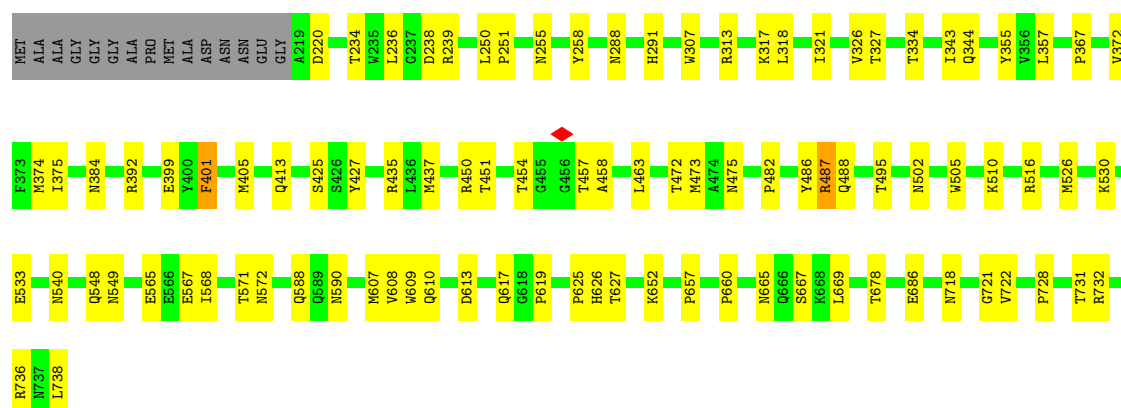
• Molecule 1: Capsid protein

Chain X: 80% 17% .



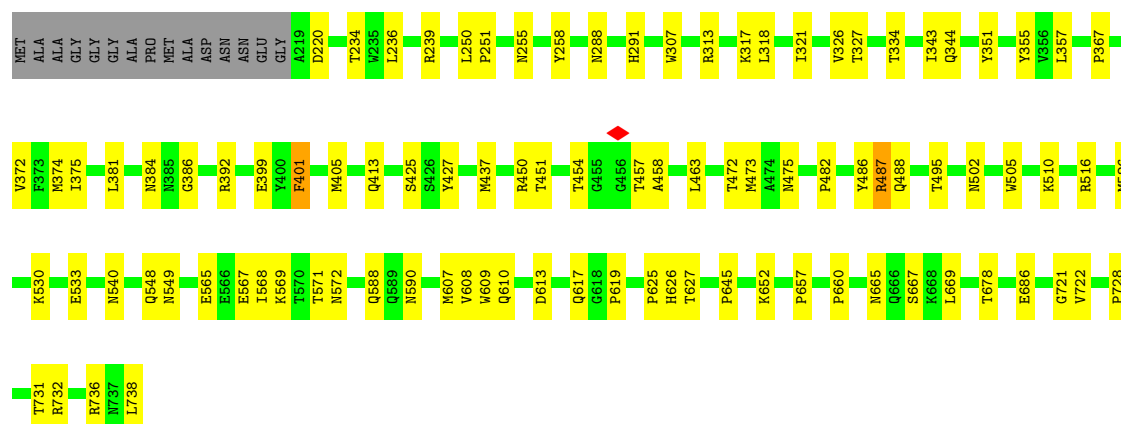
- Molecule 1: Capsid protein

Chain Y: 80% 17% .



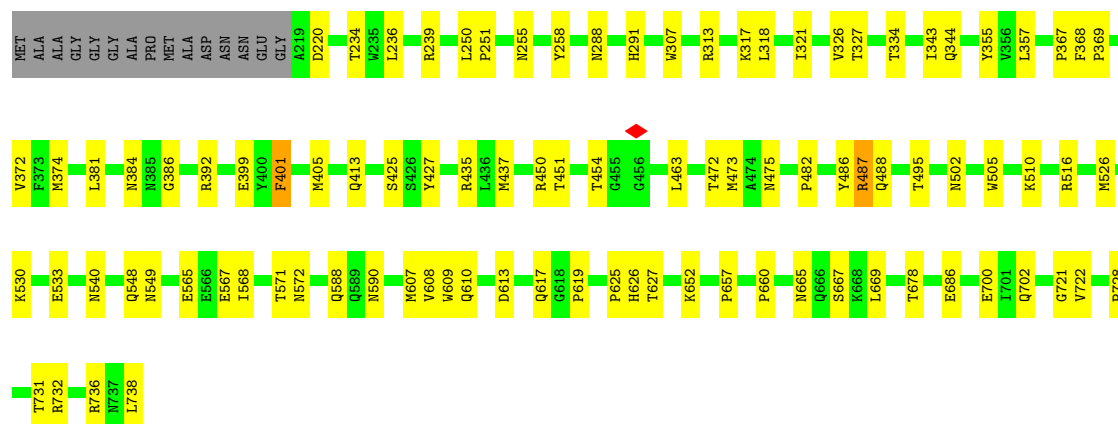
- Molecule 1: Capsid protein

Chain Z: 79% 18% .

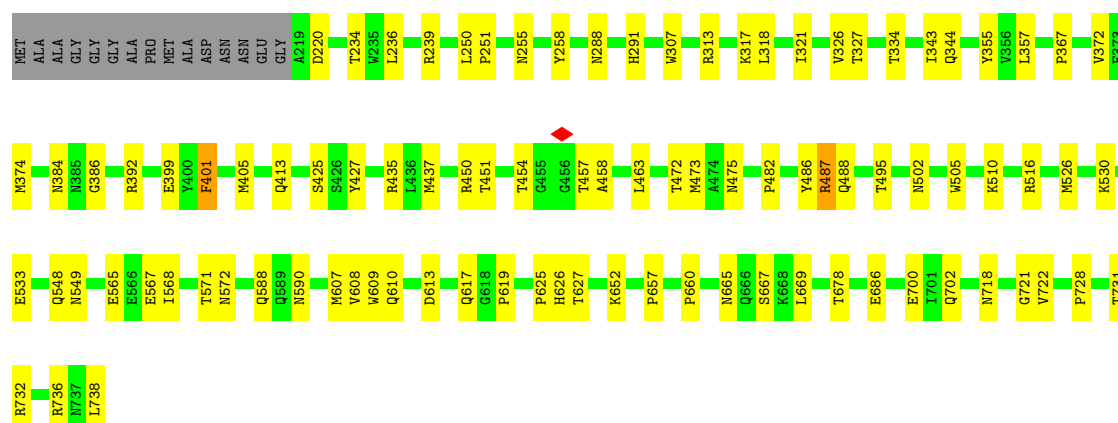
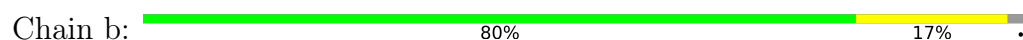


- Molecule 1: Capsid protein

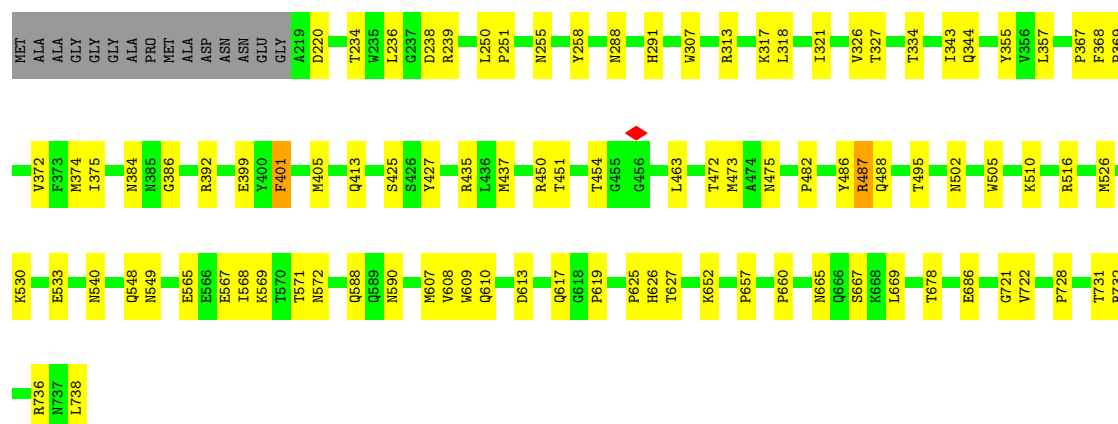
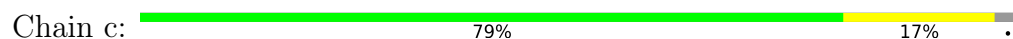
Chain a: 79% 17% .



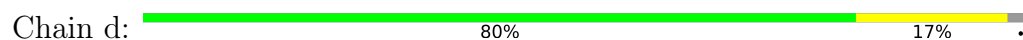
- Molecule 1: Capsid protein

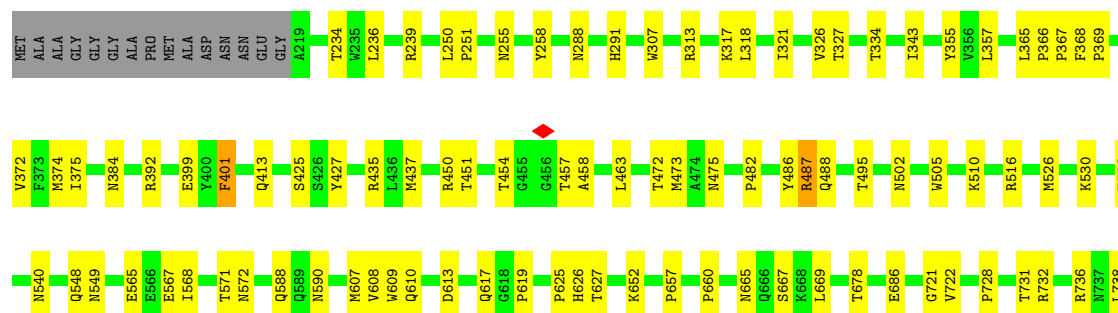


- Molecule 1: Capsid protein



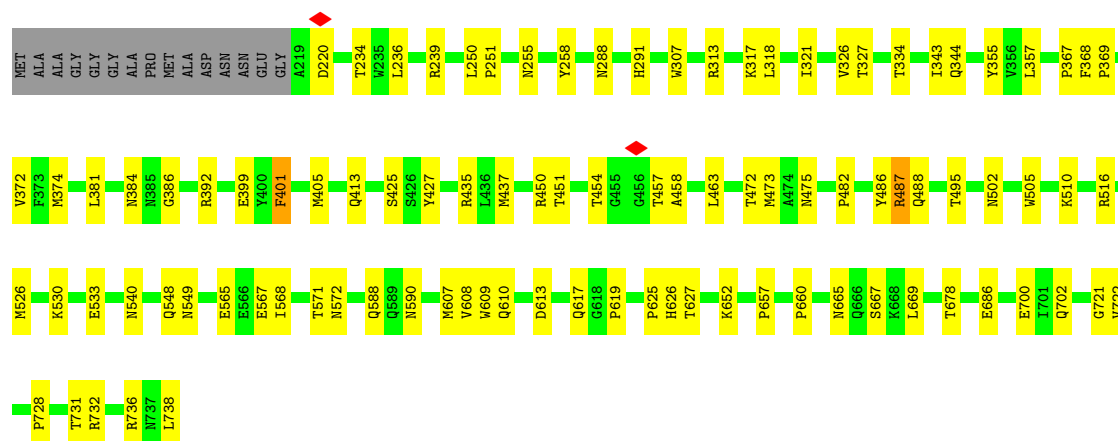
- Molecule 1: Capsid protein





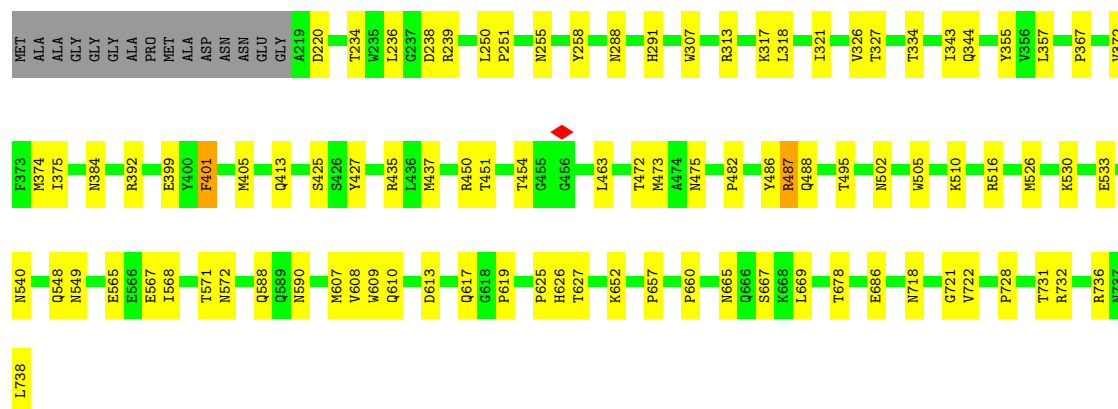
- Molecule 1: Capsid protein

Chain e: 79% 18% .



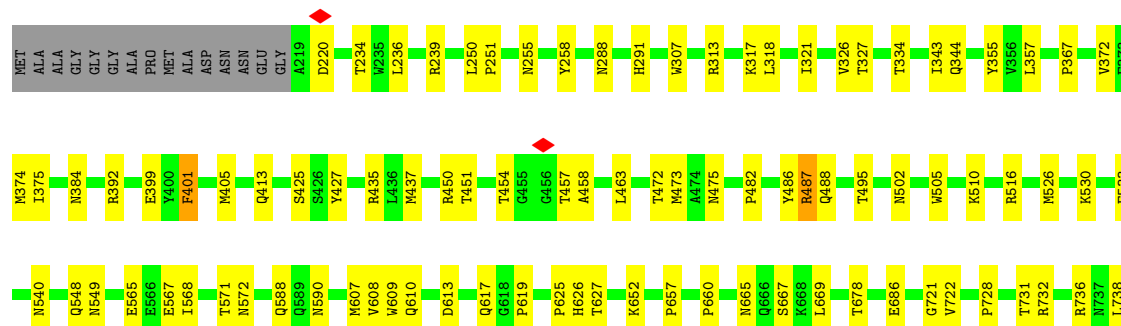
- Molecule 1: Capsid protein

Chain f: 80% 17% .



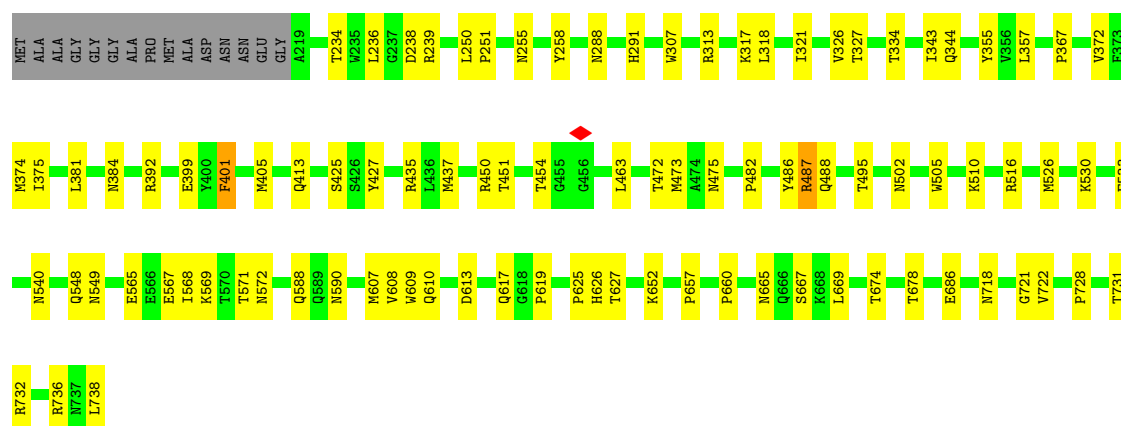
- Molecule 1: Capsid protein

Chain g: 80% 17% .



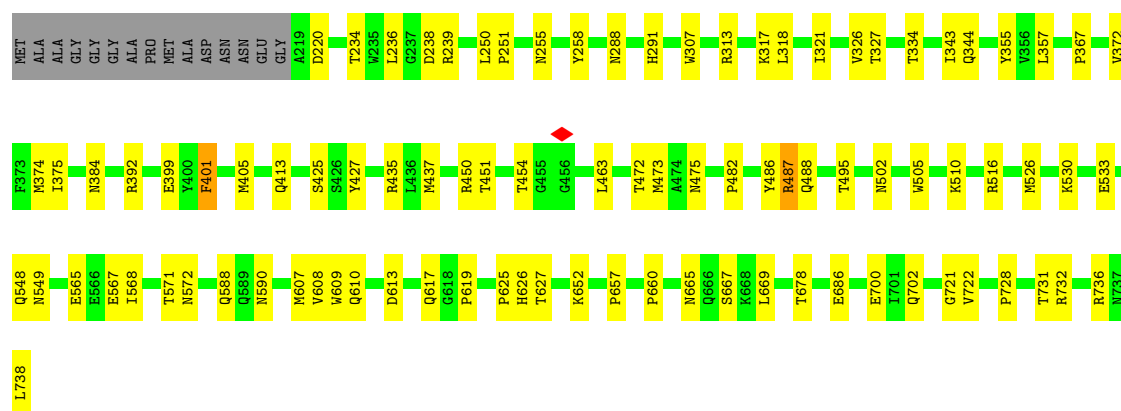
• Molecule 1: Capsid protein

Chain h: 80% 17% .



• Molecule 1: Capsid protein

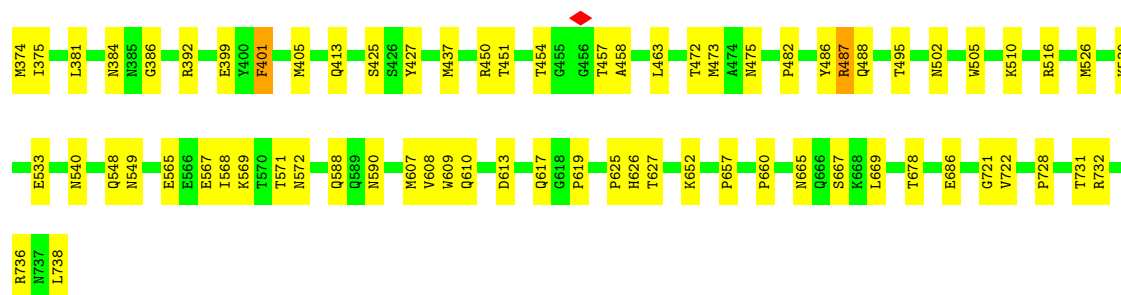
Chain i: 80% 17% .



• Molecule 1: Capsid protein

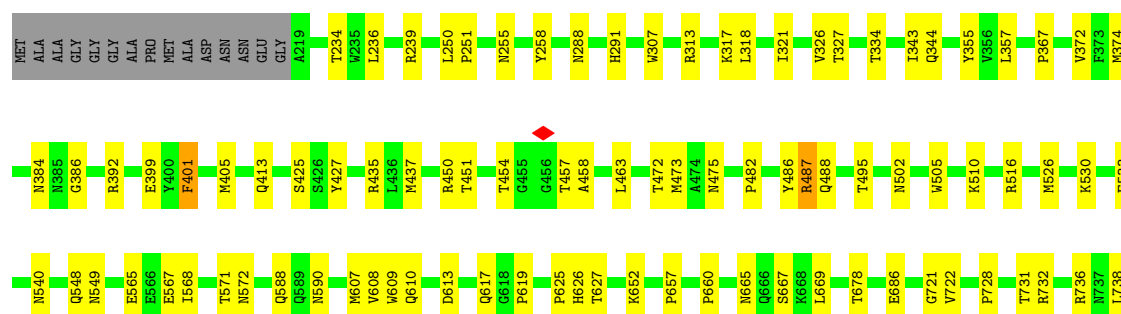
Chain j: 80% 17% .





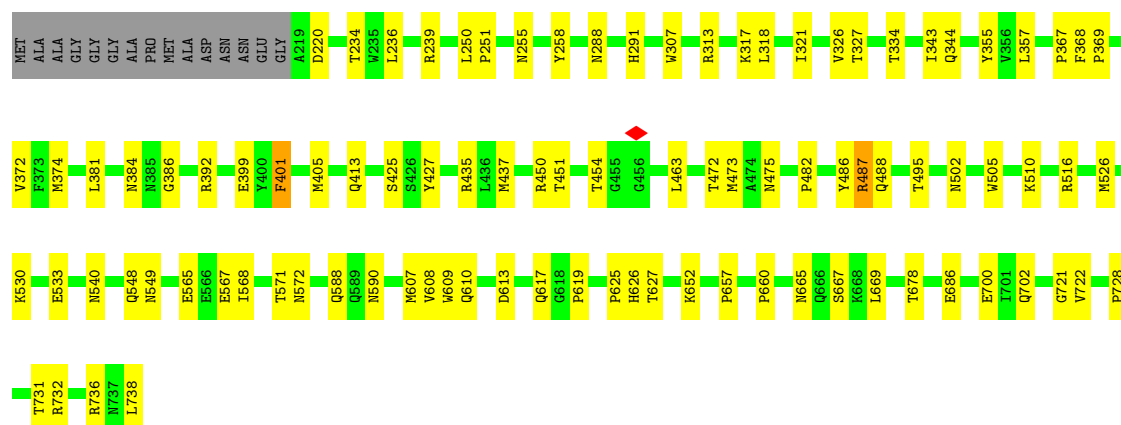
• Molecule 1: Capsid protein

Chain k: 80% 17% .



• Molecule 1: Capsid protein

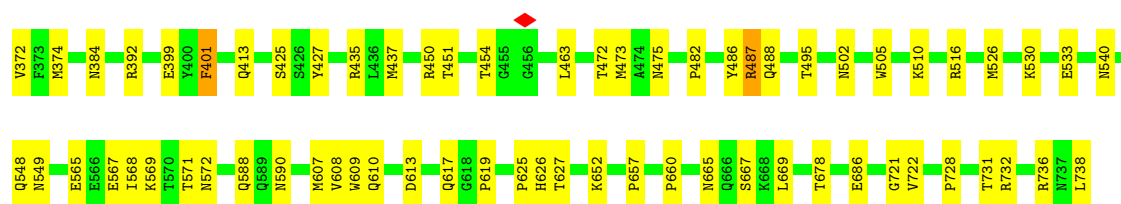
Chain l: 79% 17% .



• Molecule 1: Capsid protein

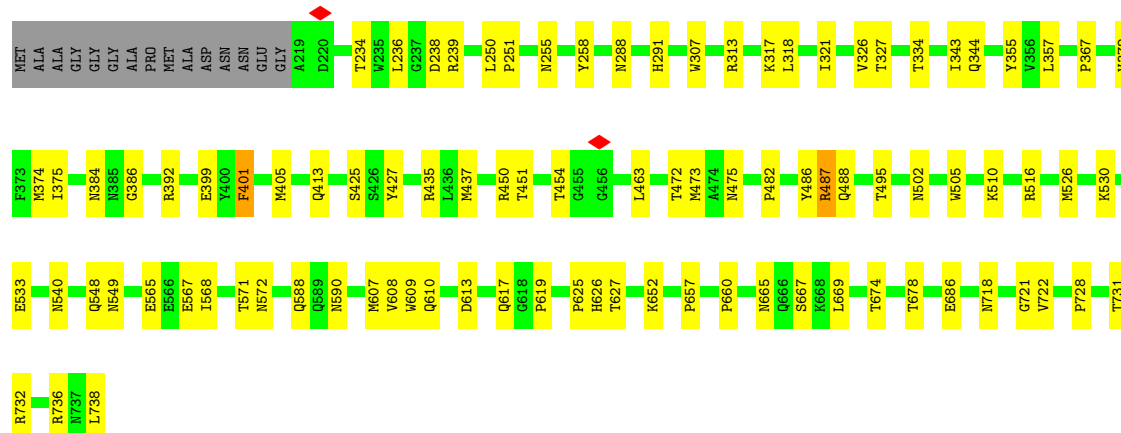
Chain m: 80% 17% .





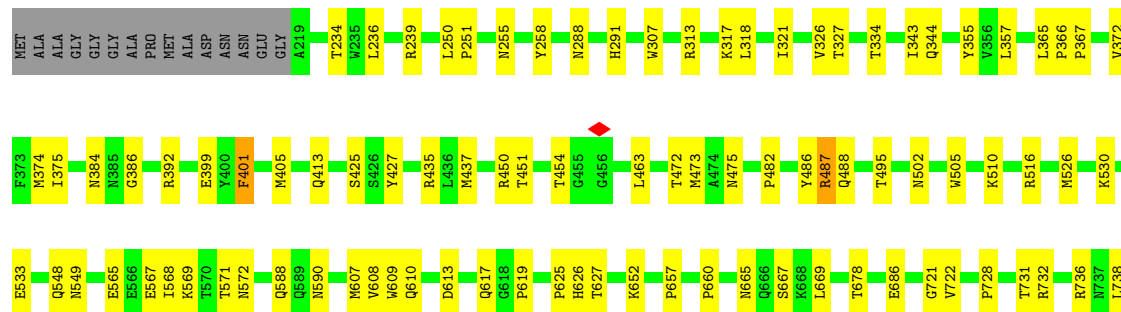
• Molecule 1: Capsid protein

Chain n: 80% 17% .



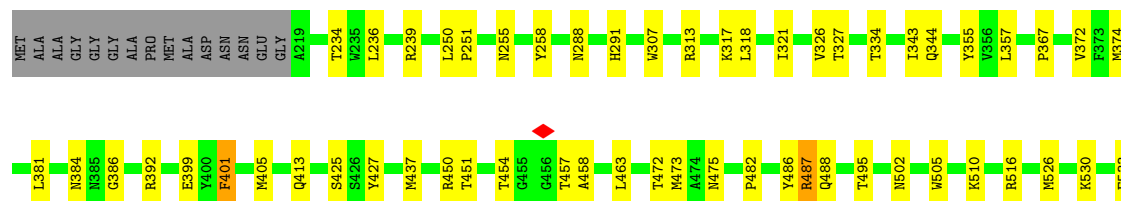
• Molecule 1: Capsid protein

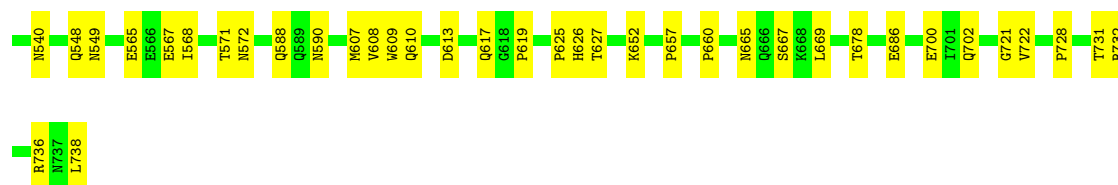
Chain o: 80% 17% .



• Molecule 1: Capsid protein

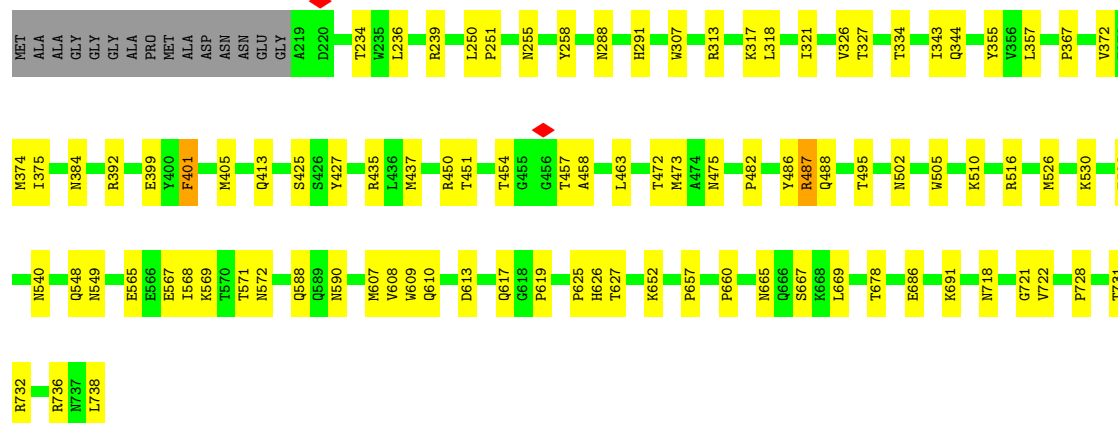
Chain p: 80% 17% .





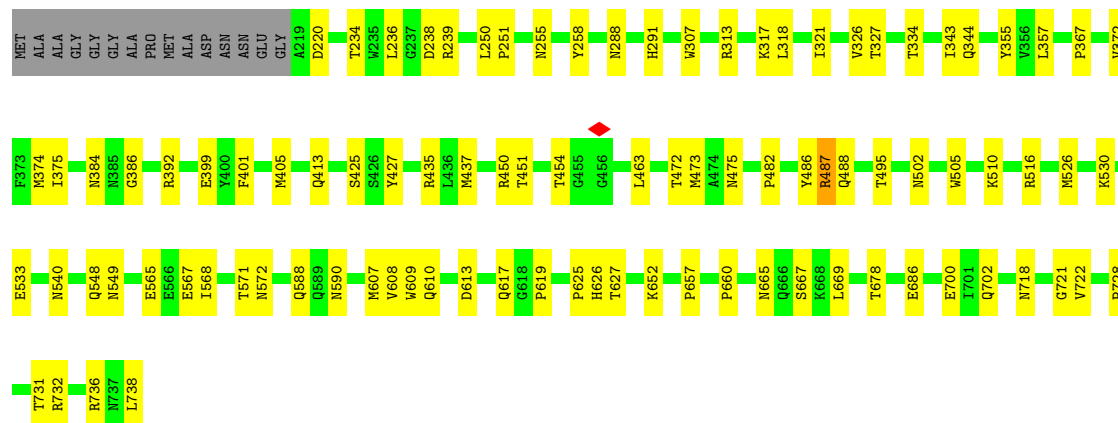
• Molecule 1: Capsid protein

Chain q: 80% 17% .



• Molecule 1: Capsid protein

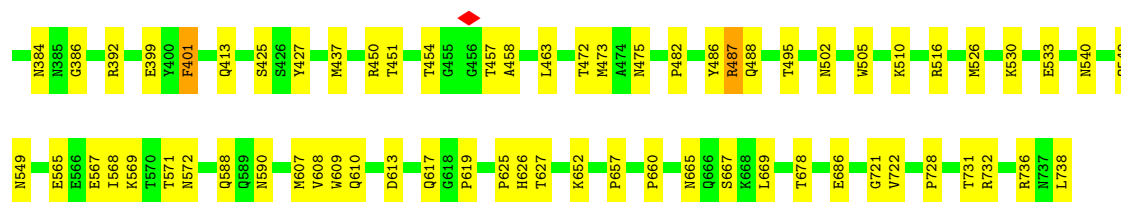
Chain r: 79% 18% .



• Molecule 1: Capsid protein

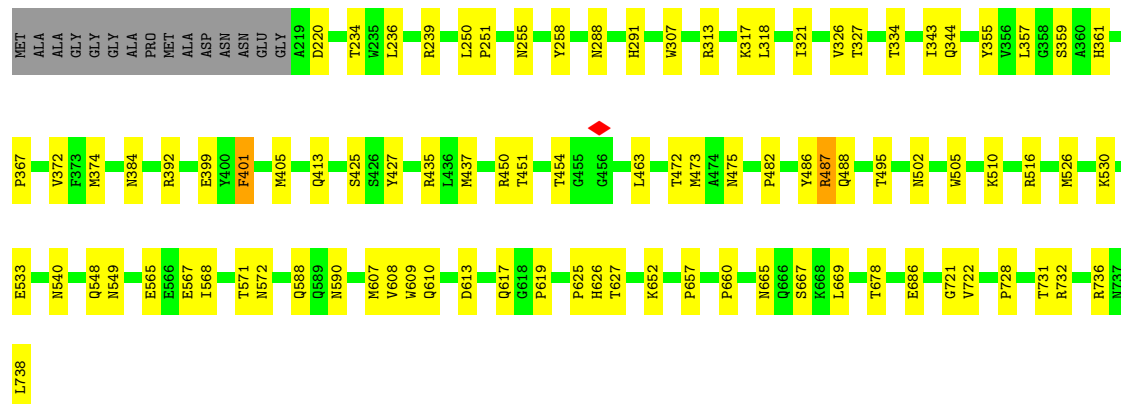
Chain s: 80% 16% .





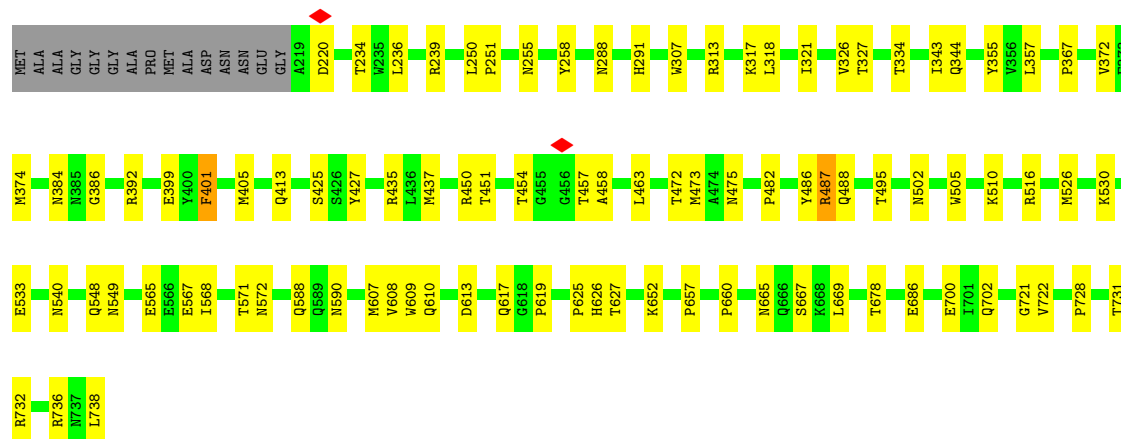
• Molecule 1: Capsid protein

Chain t: 80% 17% .



• Molecule 1: Capsid protein

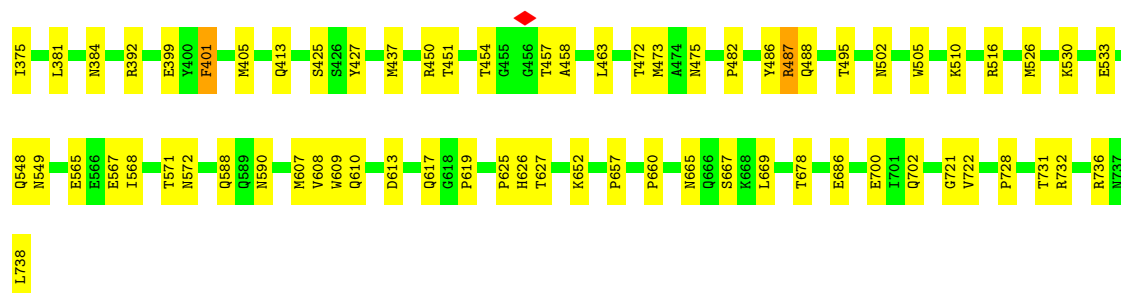
Chain u: 80% 17% .



• Molecule 1: Capsid protein

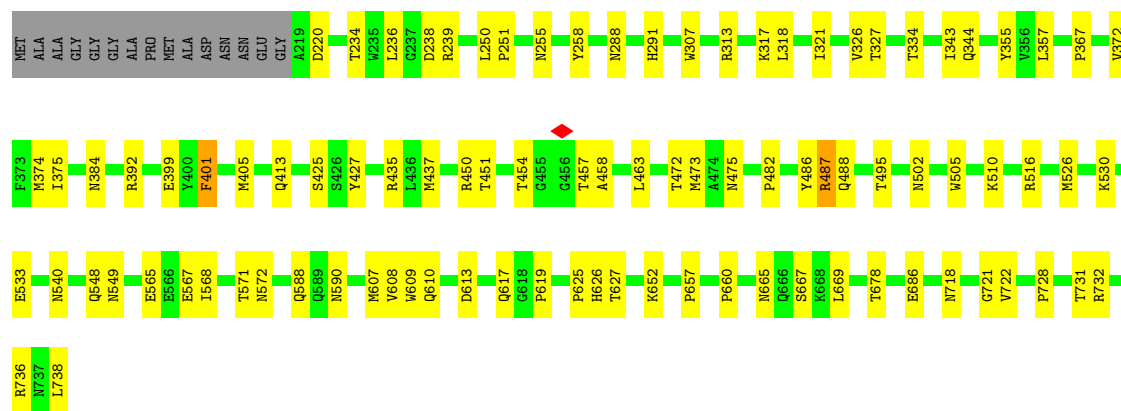
Chain v: 80% 17% .





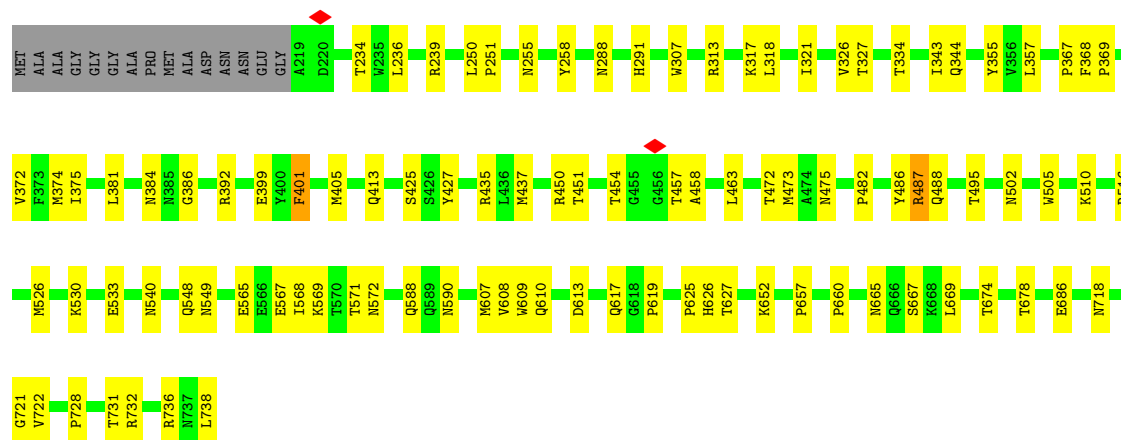
- Molecule 1: Capsid protein

Chain w: 80% 17% .



- Molecule 1: Capsid protein

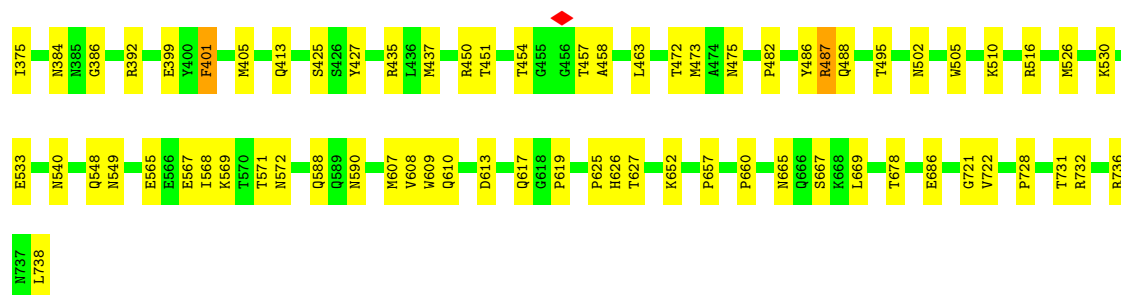
Chain x: 79% 18% .



- Molecule 1: Capsid protein

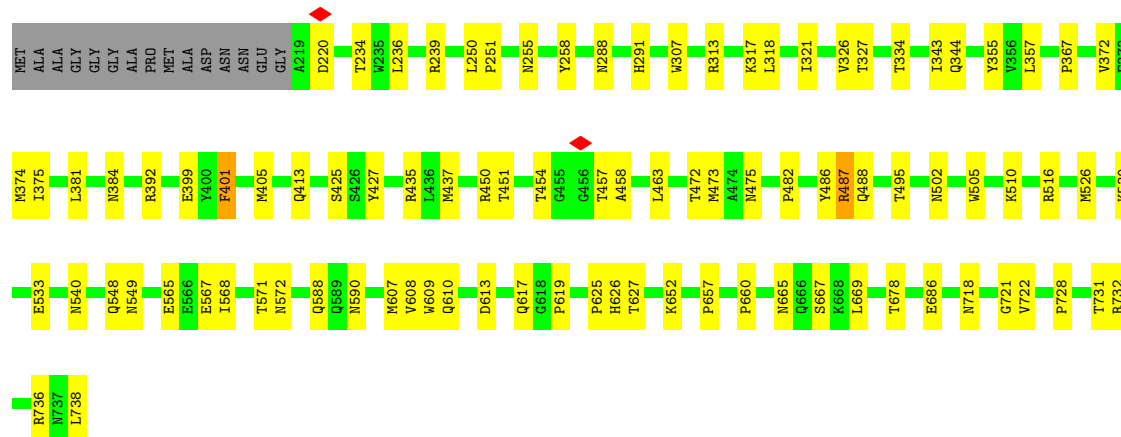
Chain y: 80% 17% .





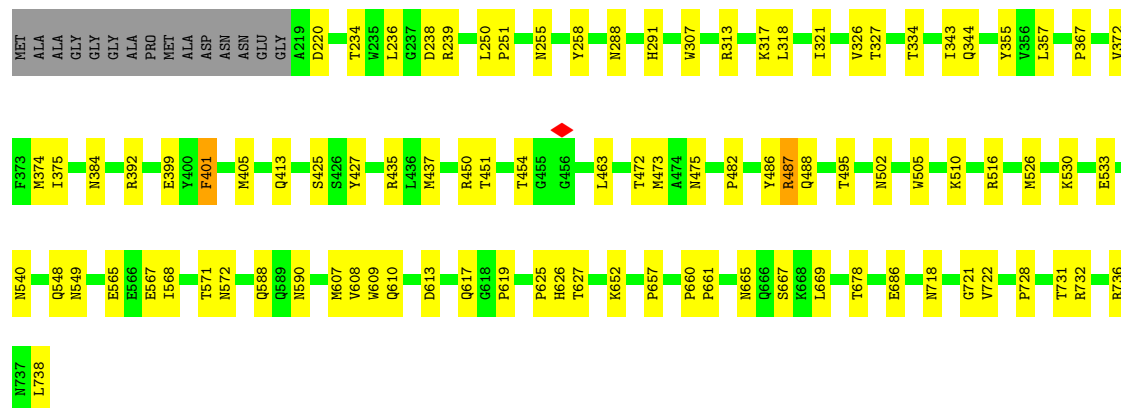
- Molecule 1: Capsid protein

Chain z: 80% 17% .



- Molecule 1: Capsid protein

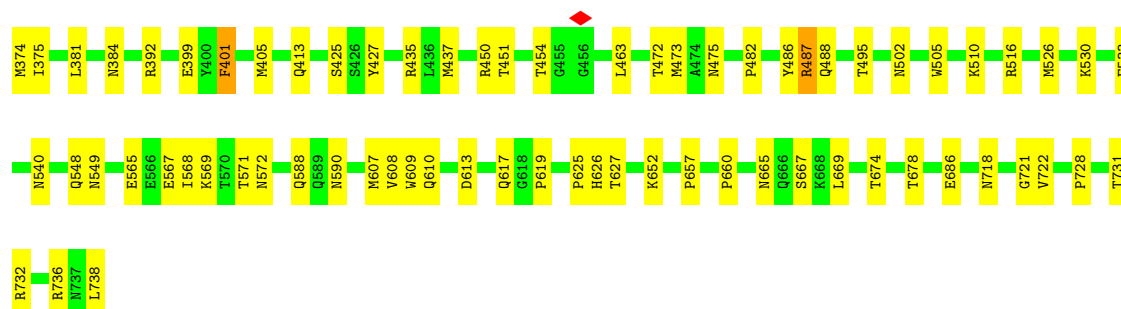
Chain 1: 80% 17% .



- Molecule 1: Capsid protein

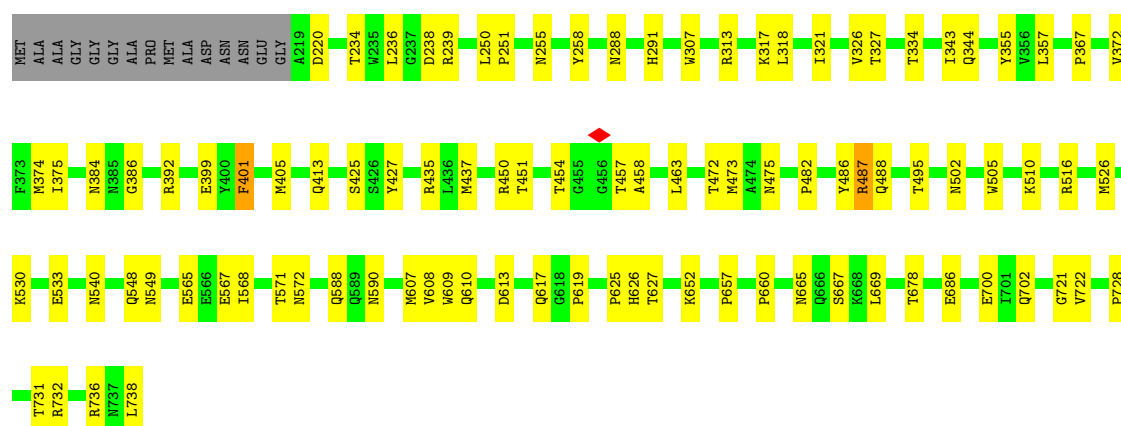
Chain 2: 80% 17% .





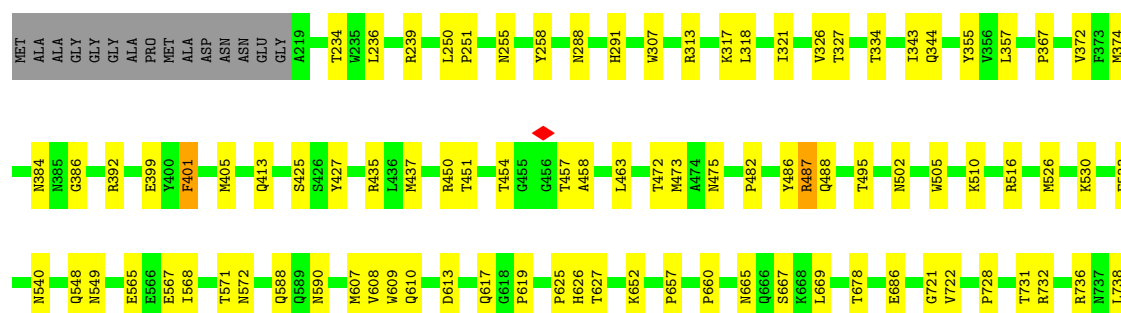
• Molecule 1: Capsid protein

Chain 3: 79% 18% .



• Molecule 1: Capsid protein

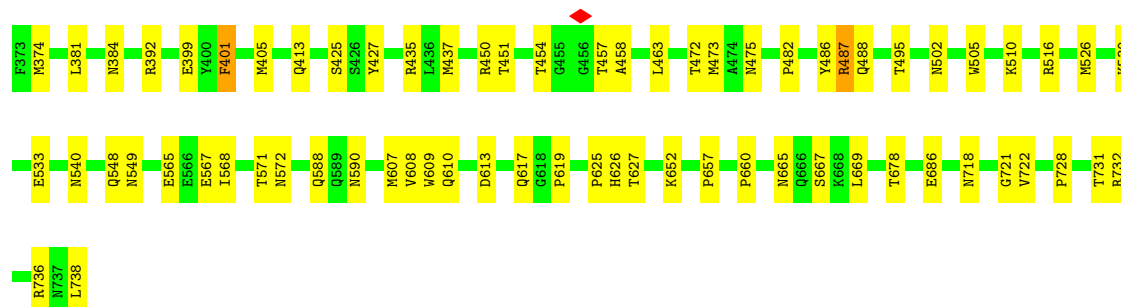
Chain 4: 80% 17% .



• Molecule 1: Capsid protein

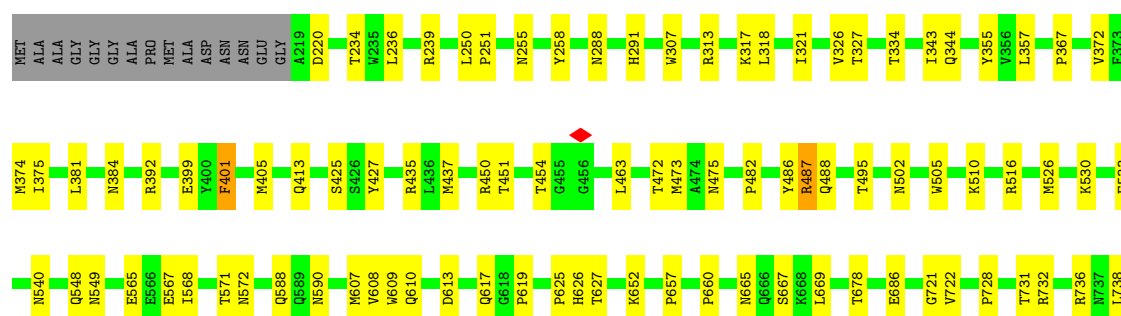
Chain 5: 80% 17% .





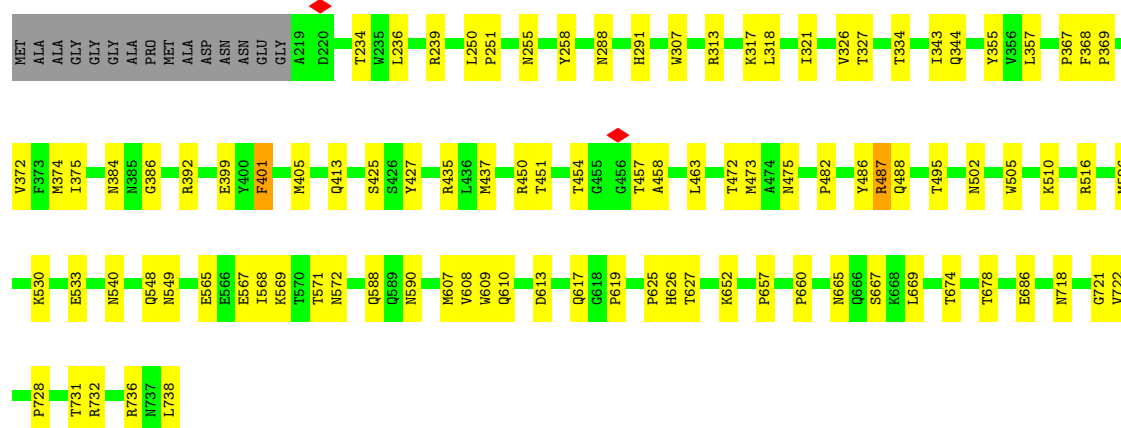
• Molecule 1: Capsid protein

Chain 6: 80% 17% .



• Molecule 1: Capsid protein

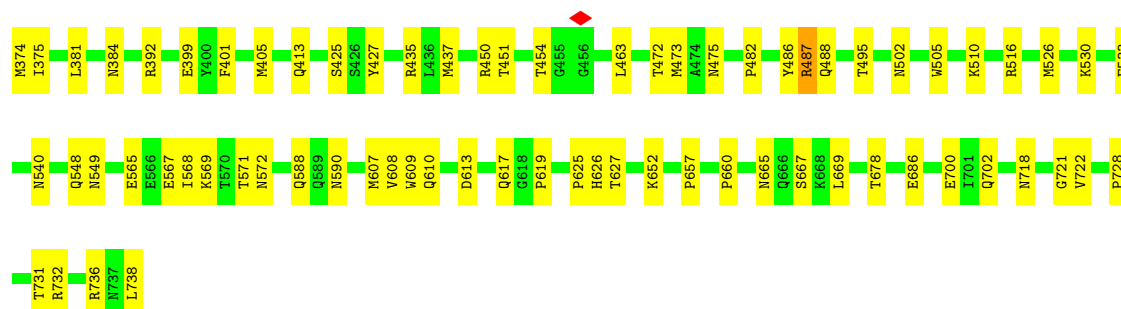
Chain 7: 79% 18% .



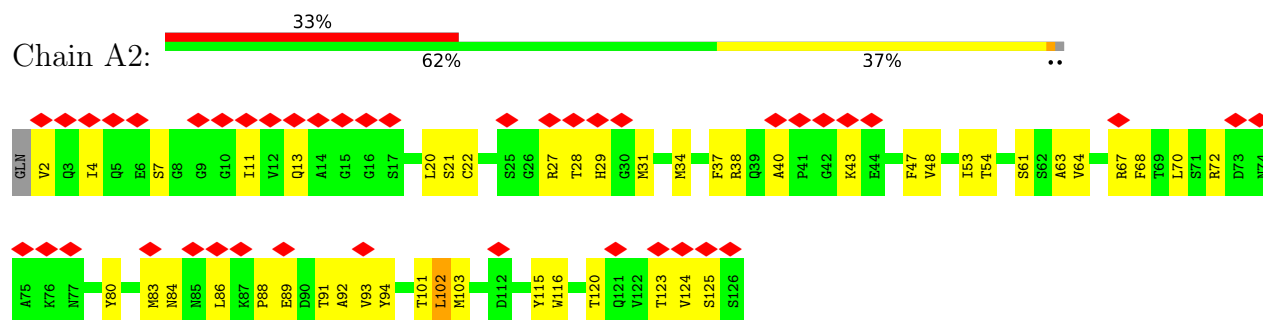
• Molecule 1: Capsid protein

Chain 8: 79% 18% .

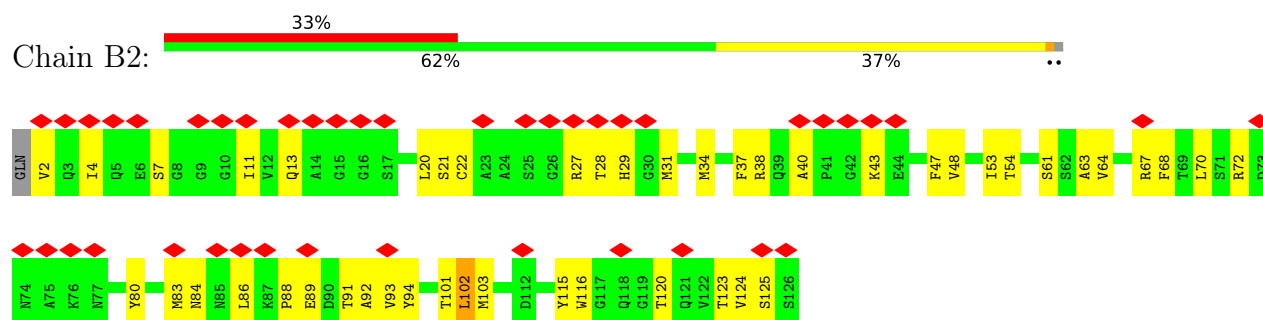




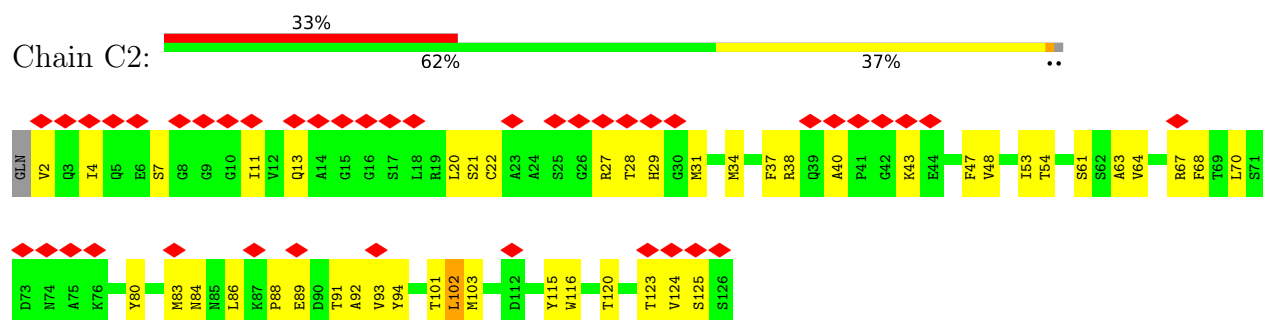
- Molecule 2: AAVX affinity ligand



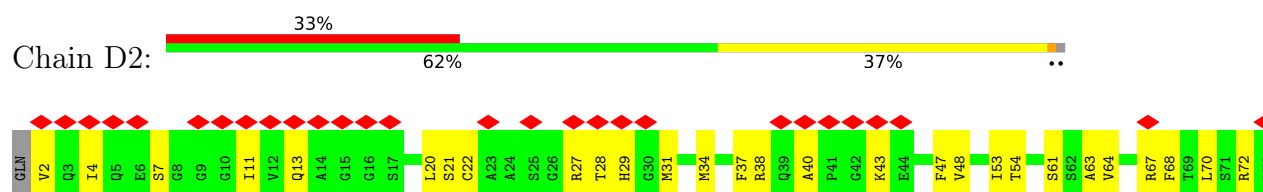
- Molecule 2: AAVX affinity ligand

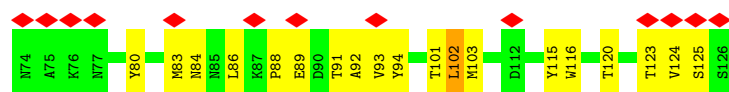


- Molecule 2: AAVX affinity ligand

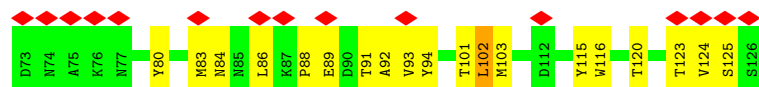


- Molecule 2: AAVX affinity ligand

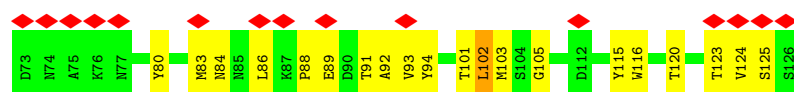




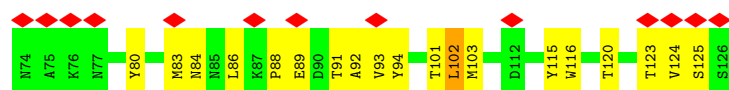
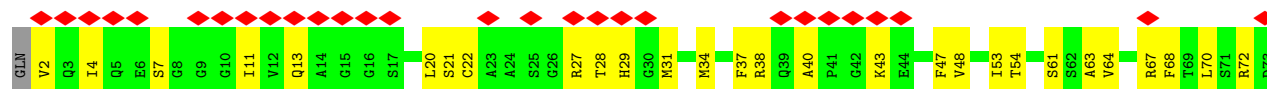
- Molecule 2: AAVX affinity ligand



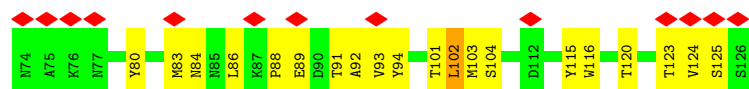
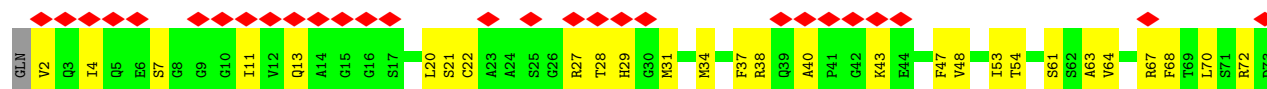
- Molecule 2: AAVX affinity ligand



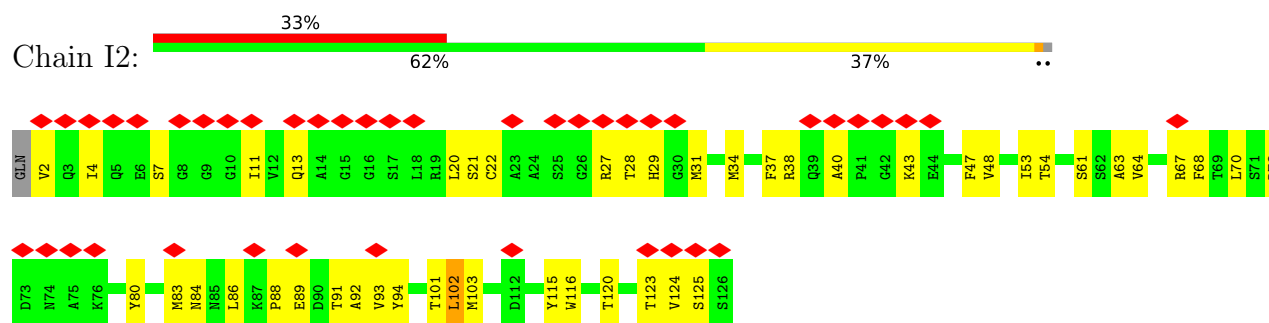
- Molecule 2: AAVX affinity ligand



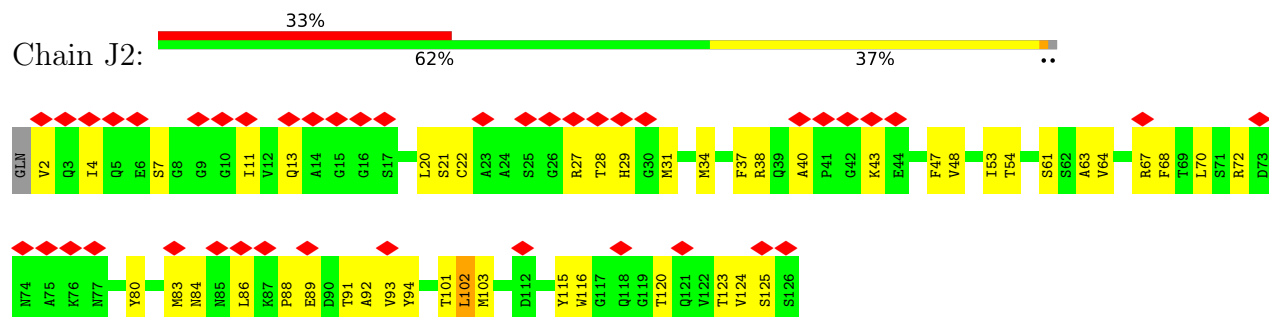
- Molecule 2: AAVX affinity ligand



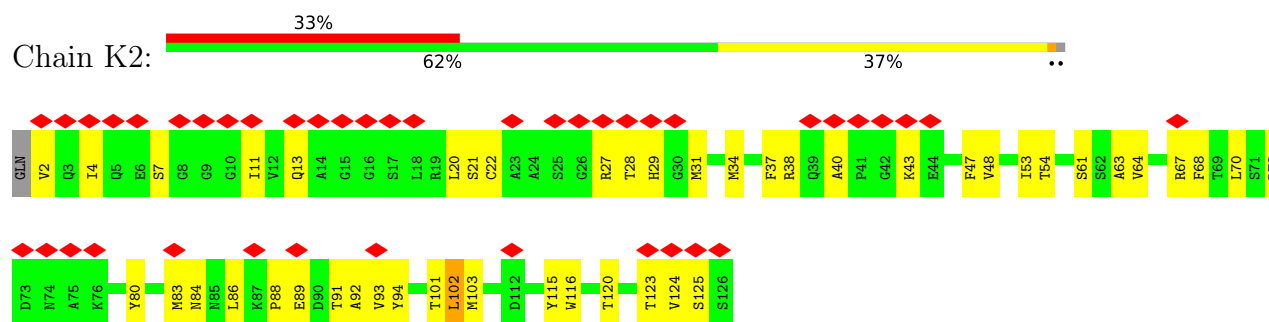
- Molecule 2: AAVX affinity ligand



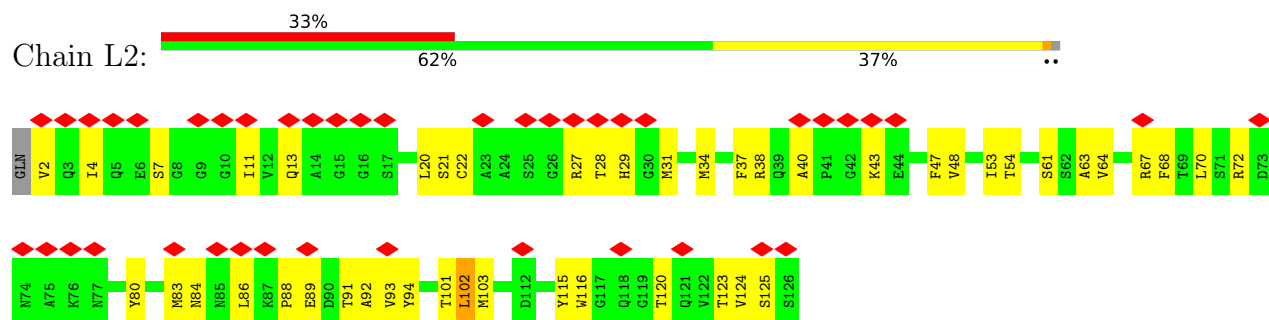
- Molecule 2: AAVX affinity ligand



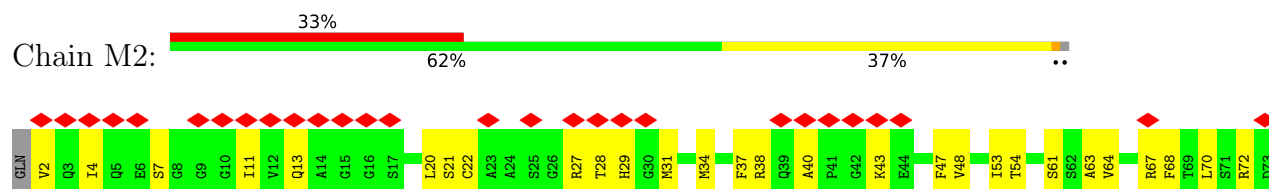
- Molecule 2: AAVX affinity ligand

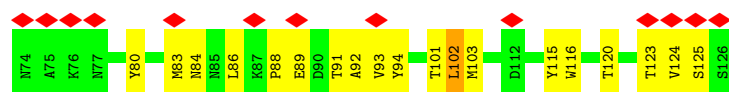


- Molecule 2: AAVX affinity ligand

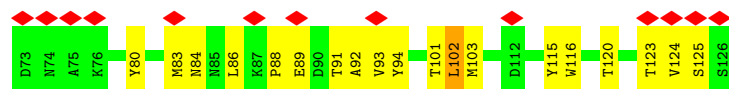


- Molecule 2: AAVX affinity ligand

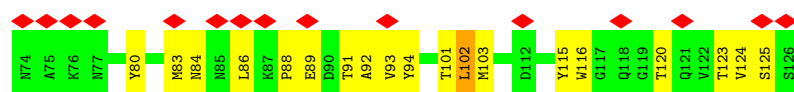
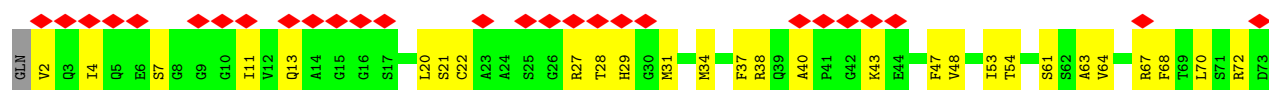




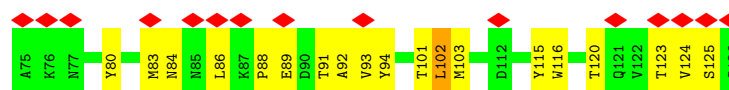
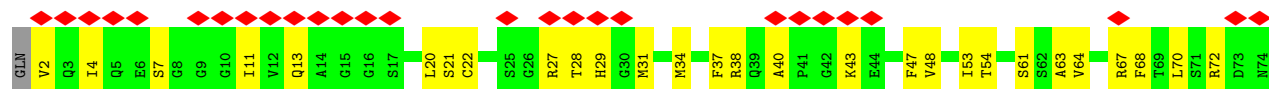
• Molecule 2: AAVX affinity ligand



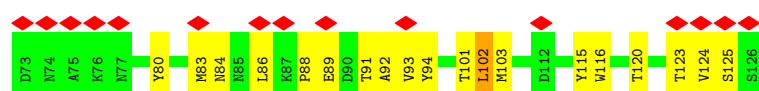
• Molecule 2: AAVX affinity ligand



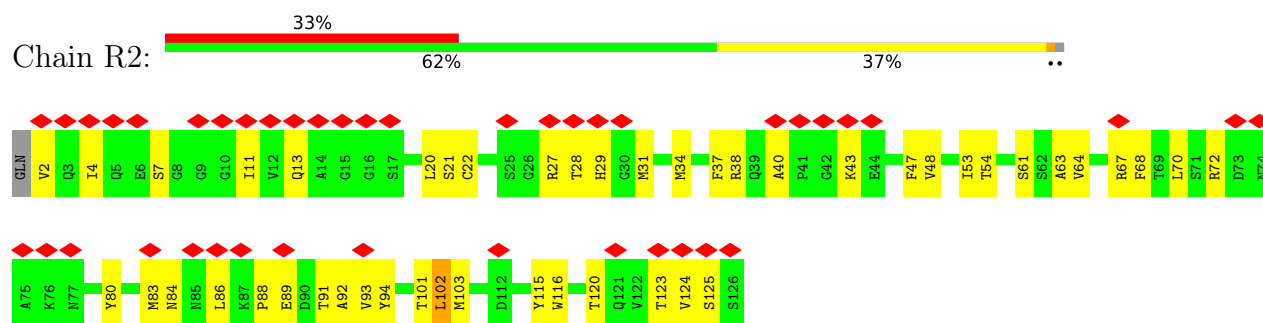
• Molecule 2: AAVX affinity ligand



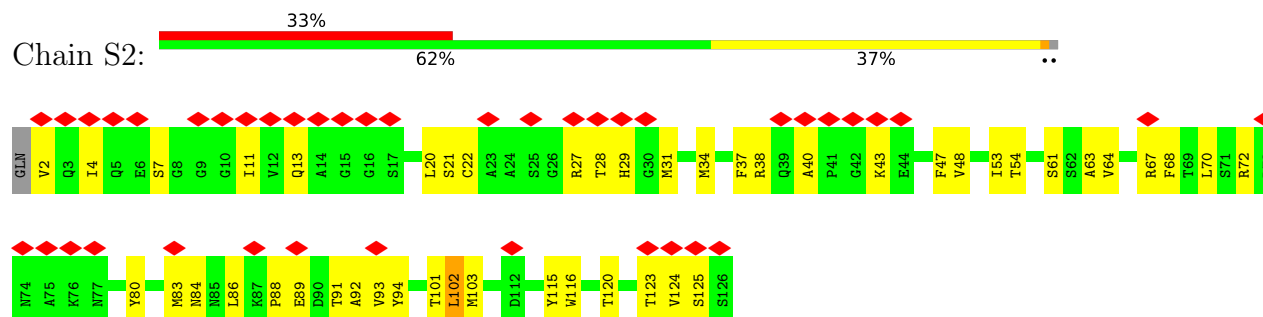
• Molecule 2: AAVX affinity ligand



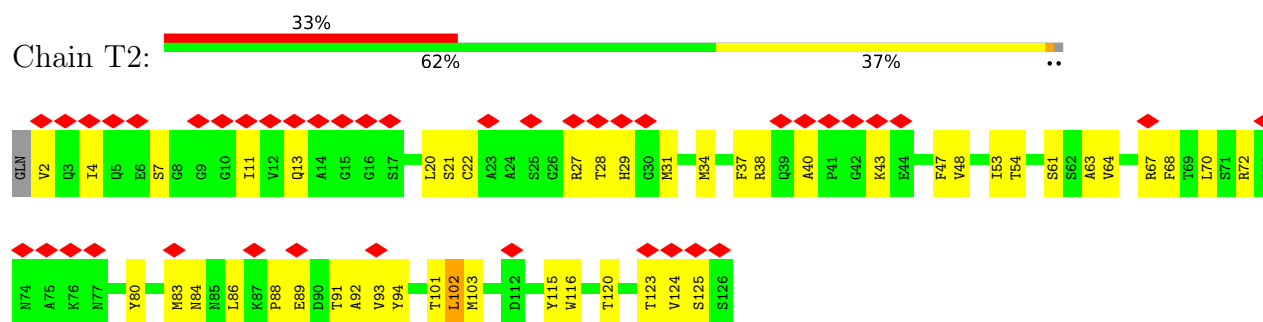
• Molecule 2: AAVX affinity ligand



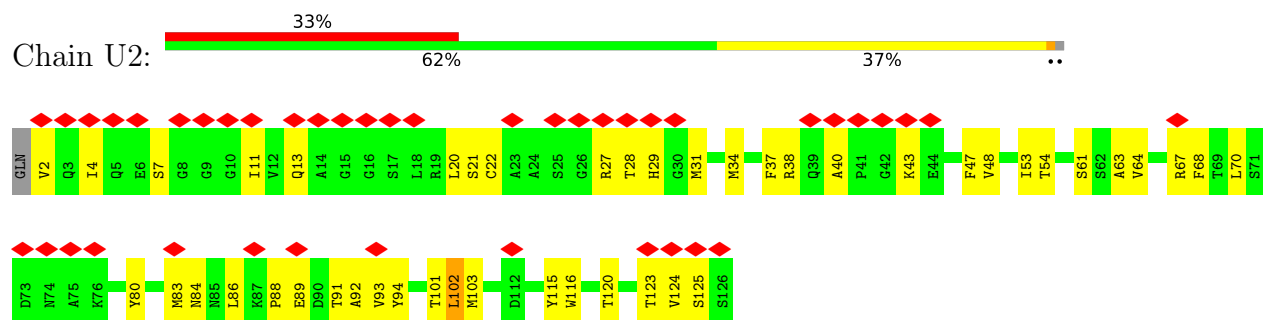
- Molecule 2: AAVX affinity ligand



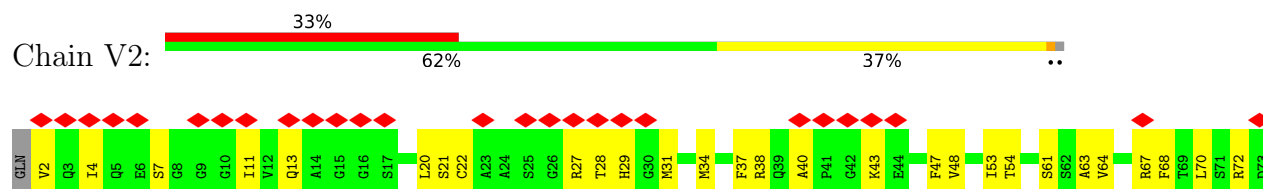
- Molecule 2: AAVX affinity ligand

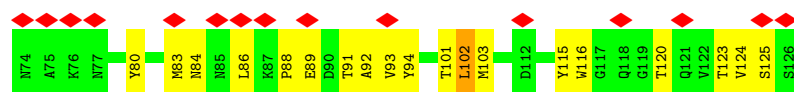


- Molecule 2: AAVX affinity ligand

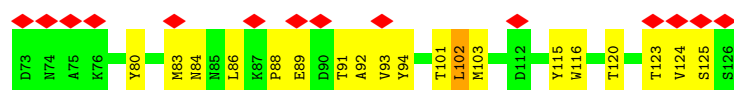
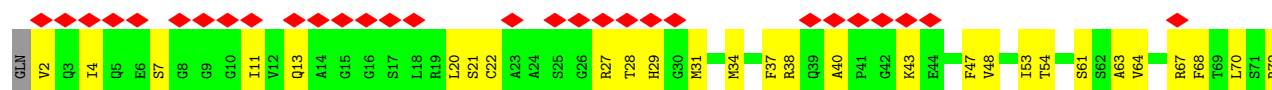


- Molecule 2: AAVX affinity ligand

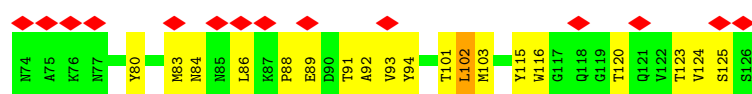




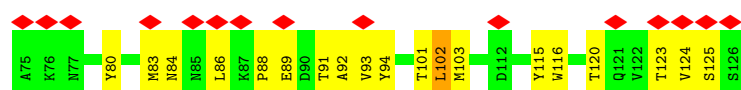
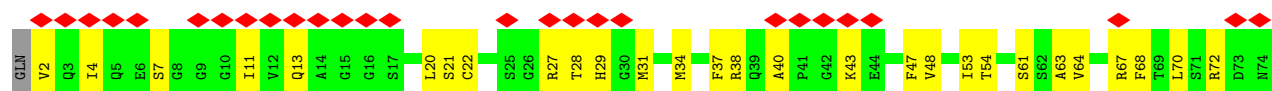
- Molecule 2: AAVX affinity ligand



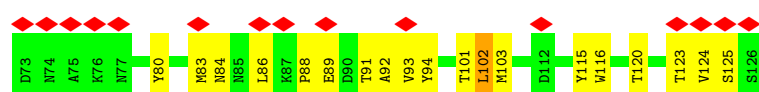
- Molecule 2: AAVX affinity ligand



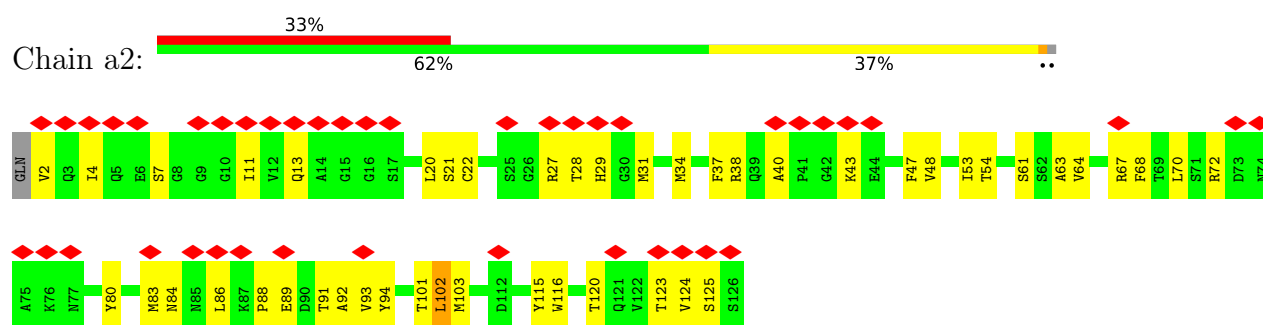
- Molecule 2: AAVX affinity ligand



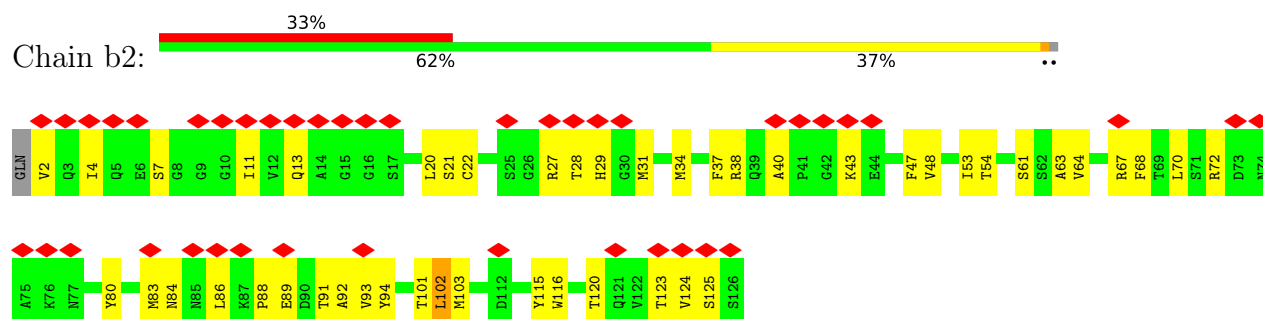
- Molecule 2: AAVX affinity ligand



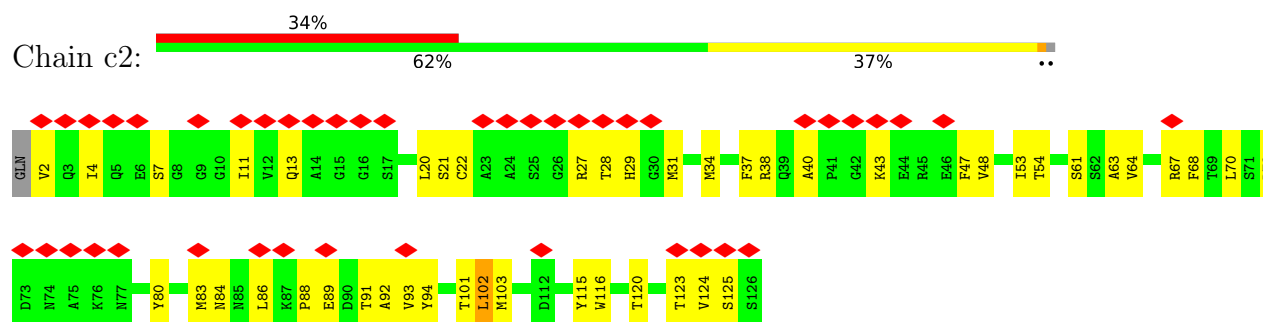
- Molecule 2: AAVX affinity ligand



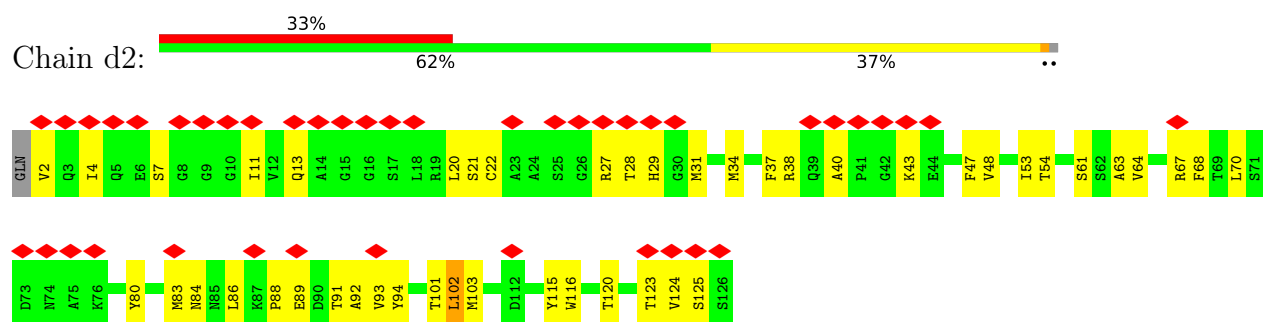
• Molecule 2: AAVX affinity ligand



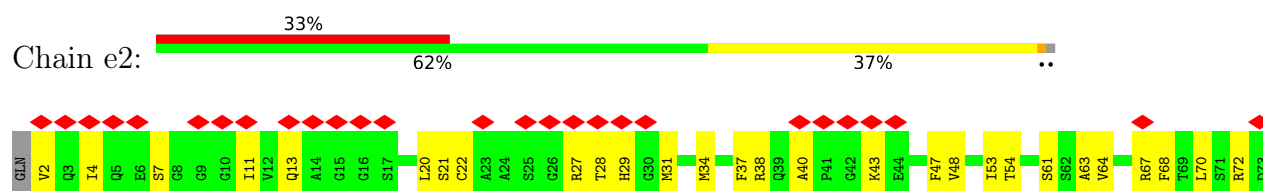
• Molecule 2: AAVX affinity ligand

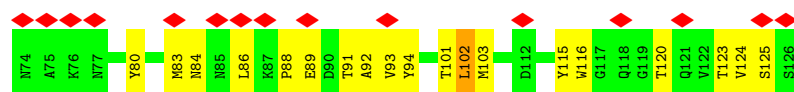


• Molecule 2: AAVX affinity ligand

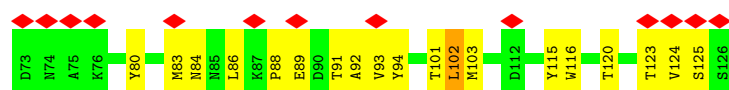
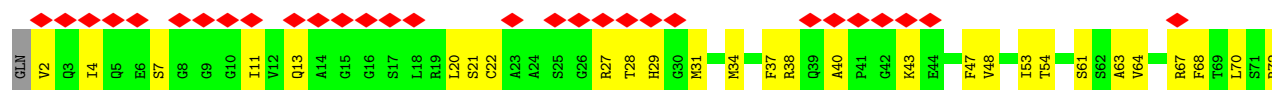


• Molecule 2: AAVX affinity ligand

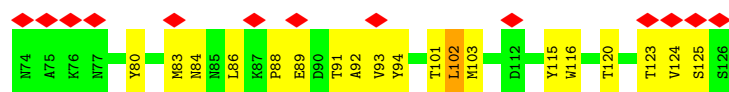




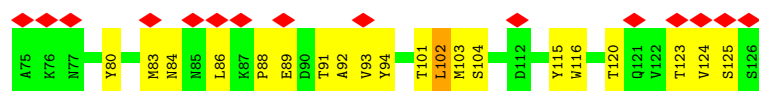
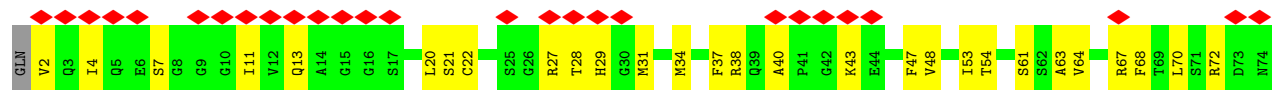
- Molecule 2: AAVX affinity ligand



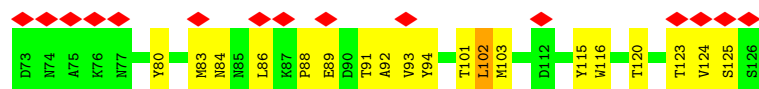
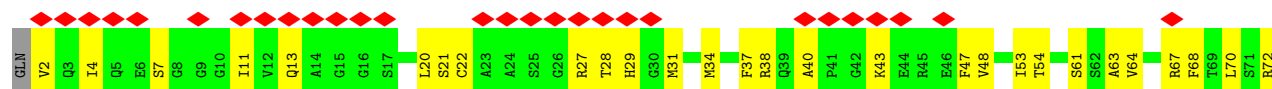
- Molecule 2: AAVX affinity ligand



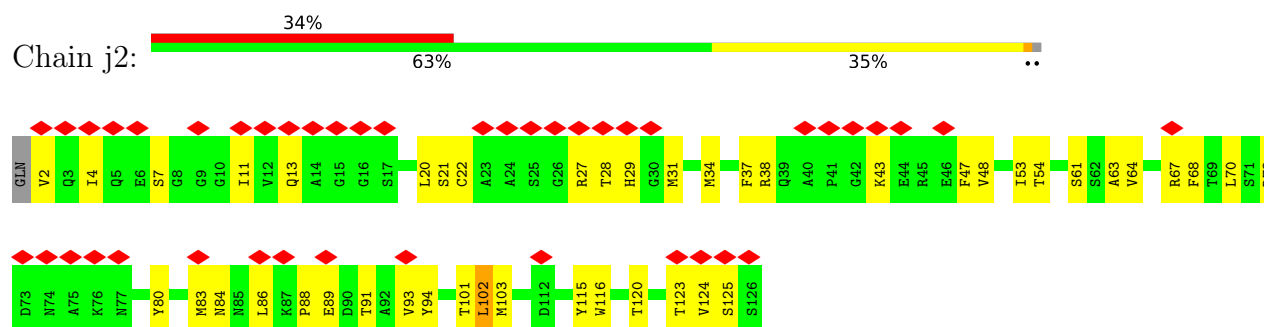
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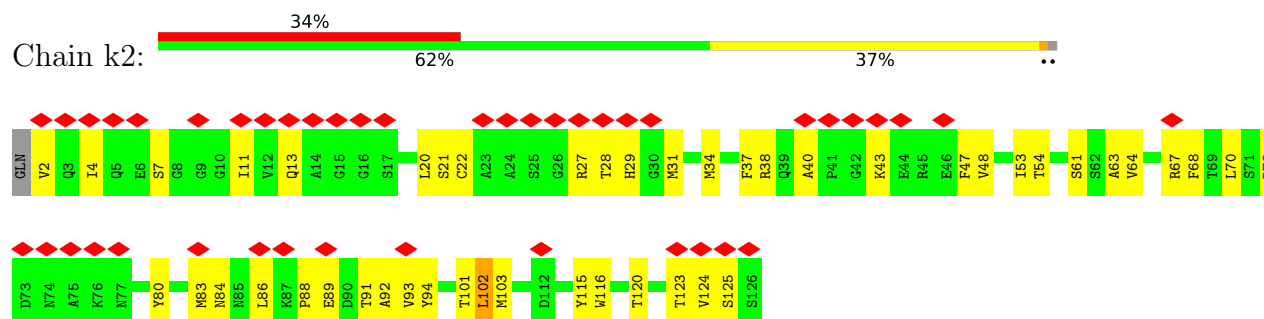
- Molecule 2: AAVX affinity ligand



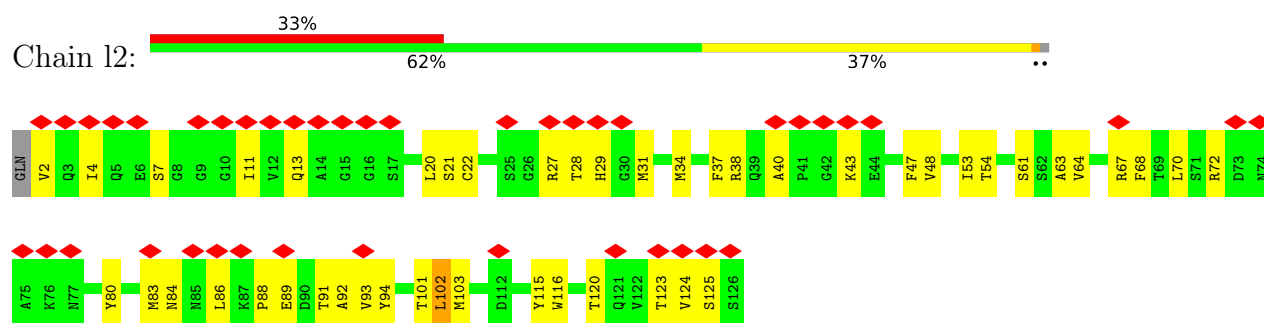
- Molecule 2: AAVX affinity ligand



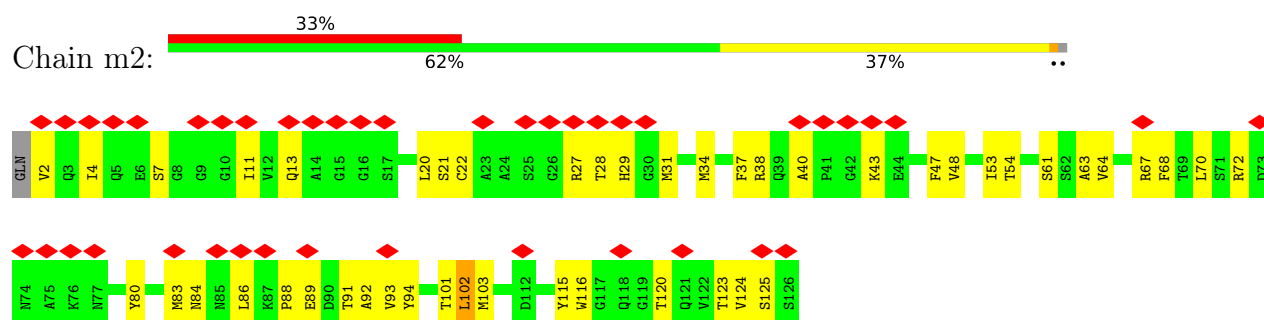
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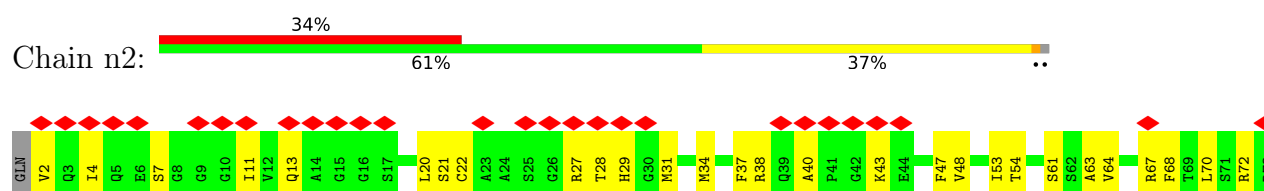
• Molecule 2: AAVX affinity ligand

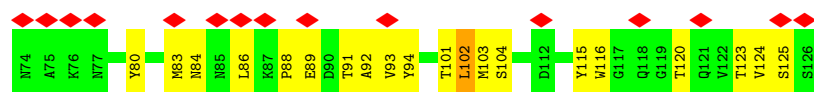


• Molecule 2: AAVX affinity ligand

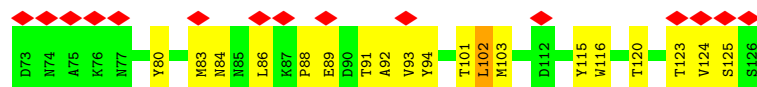


• Molecule 2: AAVX affinity ligand

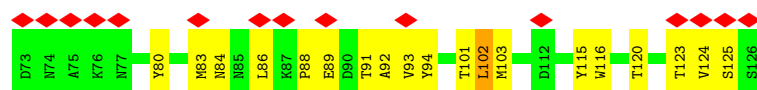




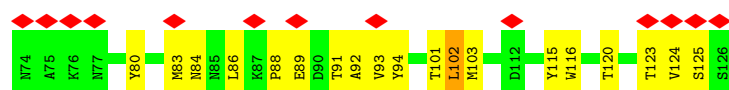
• Molecule 2: AAVX affinity ligand



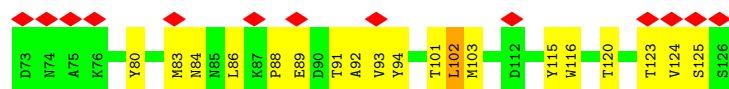
• Molecule 2: AAVX affinity ligand



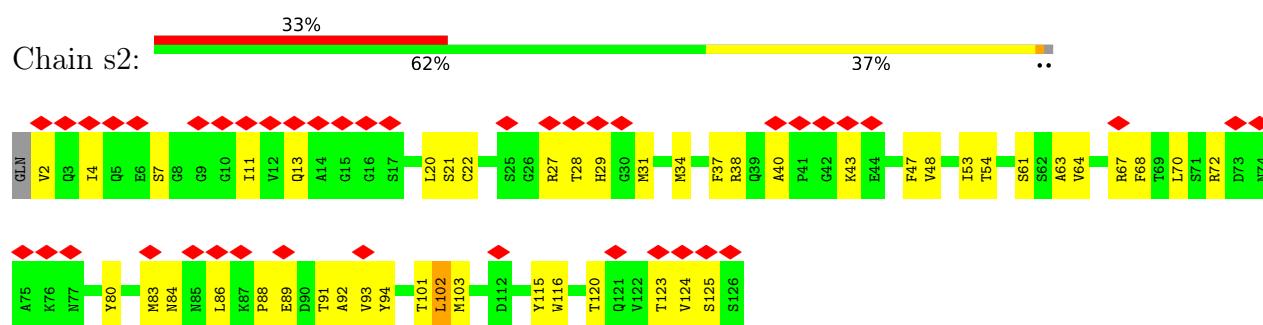
• Molecule 2: AAVX affinity ligand



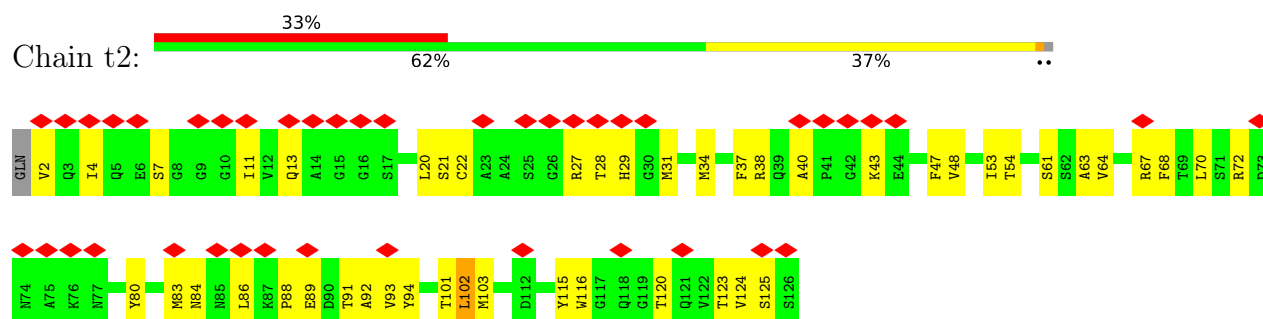
• Molecule 2: AAVX affinity ligand



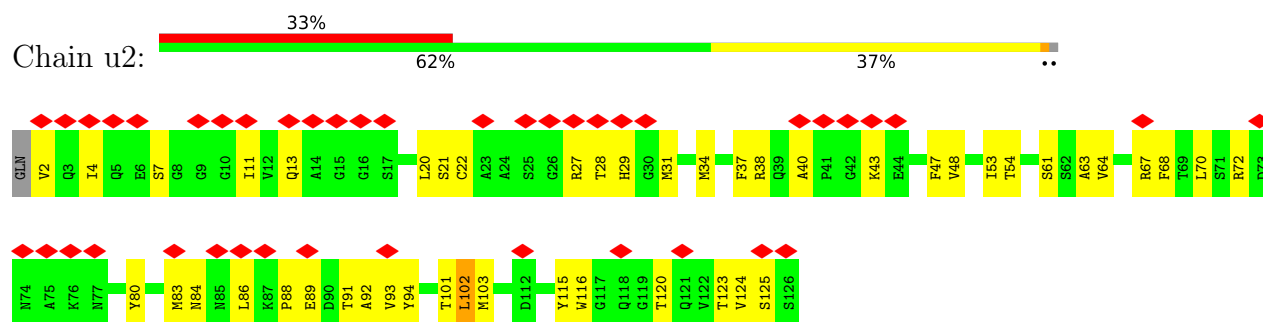
• Molecule 2: AAVX affinity ligand



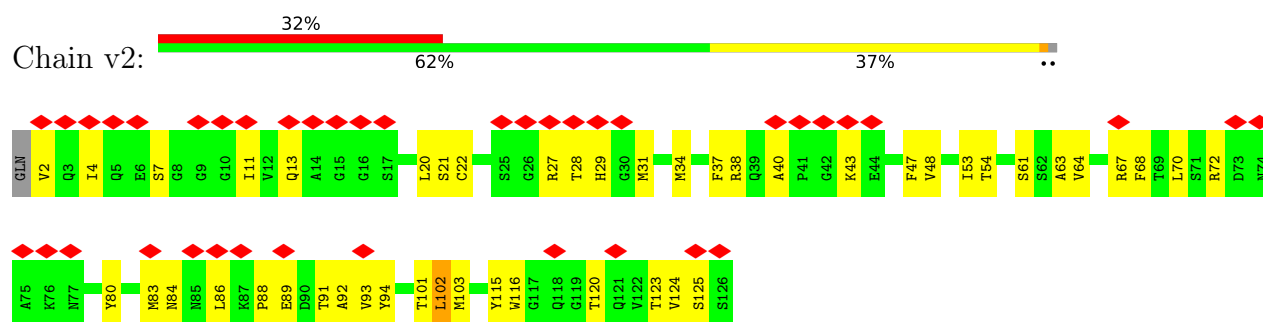
• Molecule 2: AAVX affinity ligand



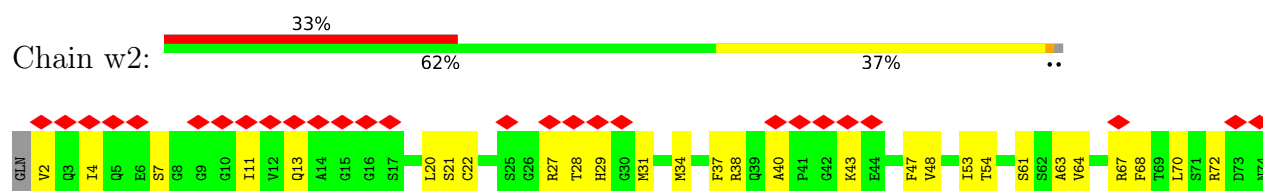
• Molecule 2: AAVX affinity ligand

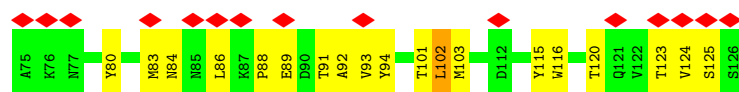


• Molecule 2: AAVX affinity ligand

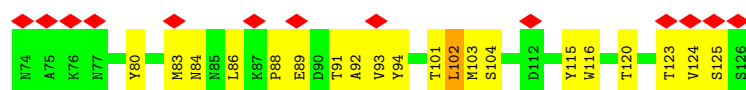


• Molecule 2: AAVX affinity ligand

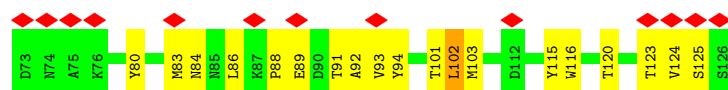




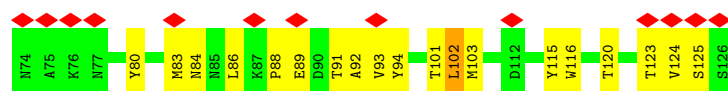
- Molecule 2: AAVX affinity ligand



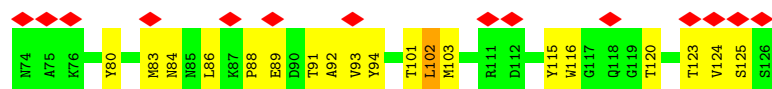
- Molecule 2: AAVX affinity ligand



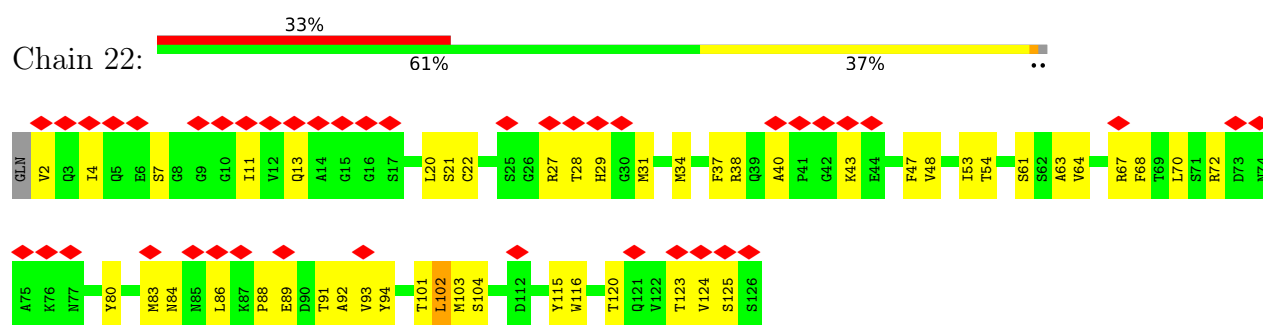
- Molecule 2: AAVX affinity ligand



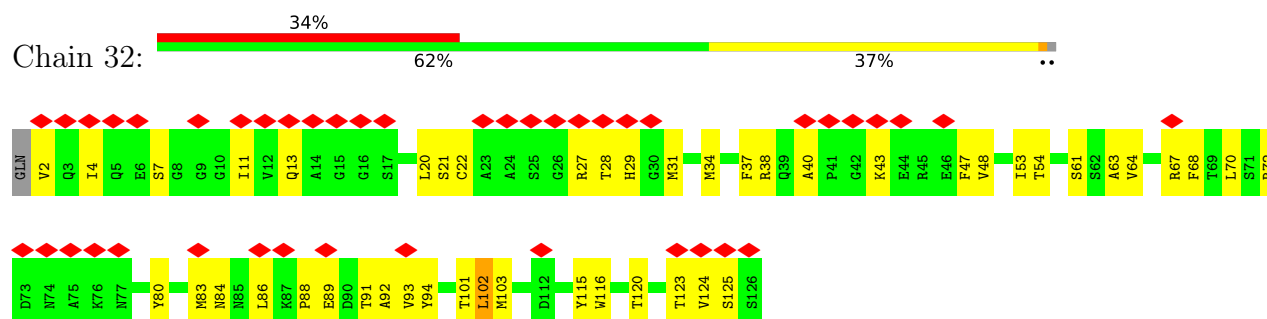
- Molecule 2: AAVX affinity ligand



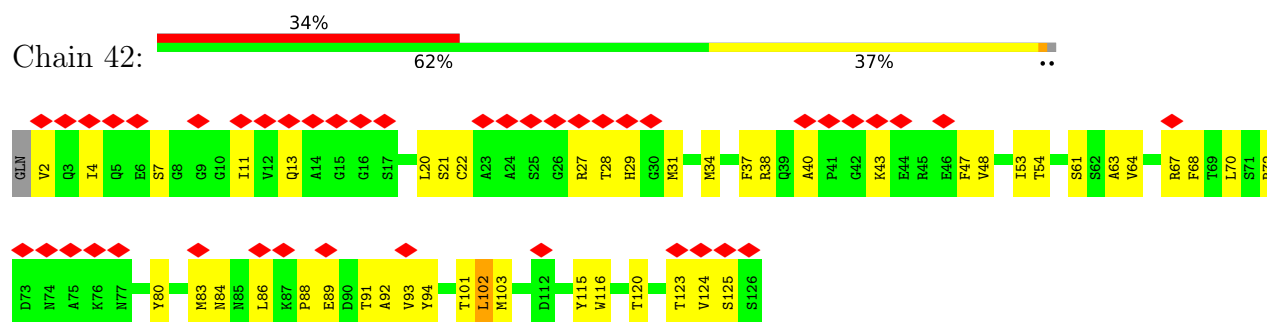
- Molecule 2: AAVX affinity ligand



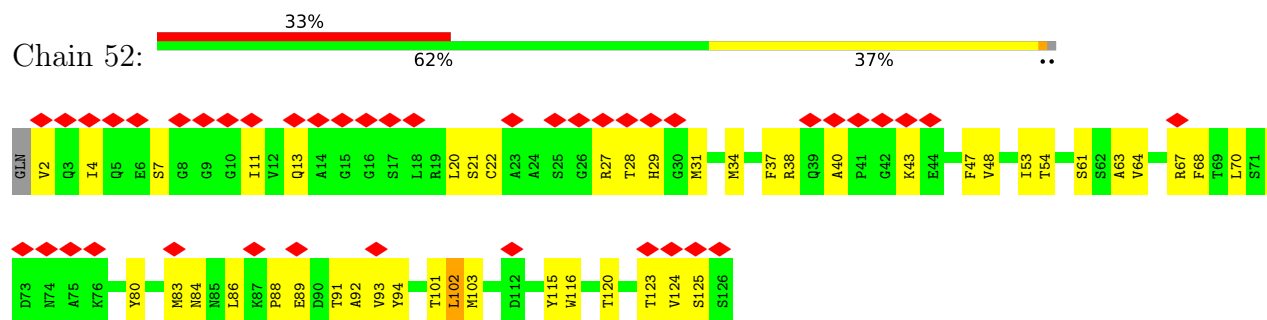
• Molecule 2: AAVX affinity ligand



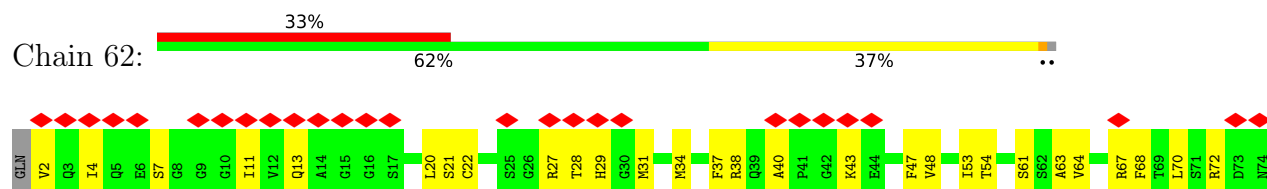
• Molecule 2: AAVX affinity ligand

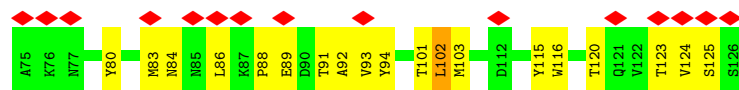


• Molecule 2: AAVX affinity ligand

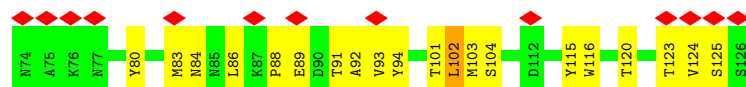


• Molecule 2: AAVX affinity ligand

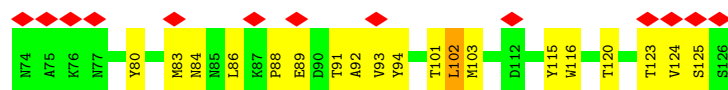




- Molecule 2: AAVX affinity ligand



- Molecule 2: AAVX affinity ligand



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	92713	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	17.458	Depositor
Minimum map value	-8.409	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.4	Depositor
Map size (Å)	420.0, 420.0, 420.0	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.84, 0.84, 0.84	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.61	0/4264	0.63	1/5818 (0.0%)
1	2	0.61	0/4264	0.63	1/5818 (0.0%)
1	3	0.61	0/4264	0.63	1/5818 (0.0%)
1	4	0.61	0/4264	0.63	1/5818 (0.0%)
1	5	0.61	0/4264	0.63	1/5818 (0.0%)
1	6	0.61	0/4264	0.63	1/5818 (0.0%)
1	7	0.61	0/4264	0.63	1/5818 (0.0%)
1	8	0.61	0/4264	0.63	1/5818 (0.0%)
1	A	0.61	0/4264	0.63	1/5818 (0.0%)
1	B	0.61	0/4264	0.63	1/5818 (0.0%)
1	C	0.61	0/4264	0.63	1/5818 (0.0%)
1	D	0.61	0/4264	0.63	1/5818 (0.0%)
1	E	0.61	0/4264	0.63	1/5818 (0.0%)
1	F	0.61	0/4264	0.63	1/5818 (0.0%)
1	G	0.61	0/4264	0.63	1/5818 (0.0%)
1	H	0.61	0/4264	0.63	1/5818 (0.0%)
1	I	0.61	0/4264	0.63	1/5818 (0.0%)
1	J	0.61	0/4264	0.63	1/5818 (0.0%)
1	K	0.61	0/4264	0.63	1/5818 (0.0%)
1	L	0.61	0/4264	0.63	1/5818 (0.0%)
1	M	0.61	0/4264	0.63	1/5818 (0.0%)
1	N	0.61	0/4264	0.63	1/5818 (0.0%)
1	O	0.61	0/4264	0.63	1/5818 (0.0%)
1	P	0.61	0/4264	0.63	1/5818 (0.0%)
1	Q	0.61	0/4264	0.63	1/5818 (0.0%)
1	R	0.61	0/4264	0.63	1/5818 (0.0%)
1	S	0.61	0/4264	0.63	1/5818 (0.0%)
1	T	0.61	0/4264	0.63	1/5818 (0.0%)
1	U	0.61	0/4264	0.63	1/5818 (0.0%)
1	V	0.61	0/4264	0.63	1/5818 (0.0%)
1	W	0.61	0/4264	0.63	1/5818 (0.0%)
1	X	0.61	0/4264	0.63	1/5818 (0.0%)
1	Y	0.61	0/4264	0.63	1/5818 (0.0%)
1	Z	0.61	0/4264	0.63	1/5818 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.61	0/4264	0.63	1/5818 (0.0%)
1	b	0.61	0/4264	0.63	1/5818 (0.0%)
1	c	0.61	0/4264	0.63	1/5818 (0.0%)
1	d	0.61	0/4264	0.63	1/5818 (0.0%)
1	e	0.61	0/4264	0.63	1/5818 (0.0%)
1	f	0.61	0/4264	0.63	1/5818 (0.0%)
1	g	0.61	0/4264	0.63	1/5818 (0.0%)
1	h	0.61	0/4264	0.63	1/5818 (0.0%)
1	i	0.61	0/4264	0.63	1/5818 (0.0%)
1	j	0.61	0/4264	0.63	1/5818 (0.0%)
1	k	0.61	0/4264	0.63	1/5818 (0.0%)
1	l	0.61	0/4264	0.63	1/5818 (0.0%)
1	m	0.61	0/4264	0.63	1/5818 (0.0%)
1	n	0.61	0/4264	0.63	1/5818 (0.0%)
1	o	0.61	0/4264	0.63	1/5818 (0.0%)
1	p	0.61	0/4264	0.63	1/5818 (0.0%)
1	q	0.61	0/4264	0.63	1/5818 (0.0%)
1	r	0.61	0/4264	0.63	1/5818 (0.0%)
1	s	0.61	0/4264	0.63	1/5818 (0.0%)
1	t	0.61	0/4264	0.63	1/5818 (0.0%)
1	u	0.61	0/4264	0.63	1/5818 (0.0%)
1	v	0.61	0/4264	0.63	1/5818 (0.0%)
1	w	0.61	0/4264	0.63	1/5818 (0.0%)
1	x	0.61	0/4264	0.63	1/5818 (0.0%)
1	y	0.61	0/4264	0.63	1/5818 (0.0%)
1	z	0.61	0/4264	0.63	1/5818 (0.0%)
2	12	0.33	0/966	0.54	0/1305
2	22	0.33	0/966	0.54	0/1305
2	32	0.33	0/966	0.54	0/1305
2	42	0.33	0/966	0.54	0/1305
2	52	0.33	0/966	0.54	0/1305
2	62	0.33	0/966	0.54	0/1305
2	72	0.33	0/966	0.54	0/1305
2	82	0.33	0/966	0.54	0/1305
2	A2	0.33	0/966	0.54	0/1305
2	B2	0.33	0/966	0.54	0/1305
2	C2	0.33	0/966	0.54	0/1305
2	D2	0.33	0/966	0.54	0/1305
2	E2	0.33	0/966	0.54	0/1305
2	F2	0.33	0/966	0.54	0/1305
2	G2	0.33	0/966	0.54	0/1305
2	H2	0.33	0/966	0.54	0/1305
2	I2	0.33	0/966	0.54	0/1305

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
2	J2	0.33	0/966	0.54	0/1305
2	K2	0.33	0/966	0.54	0/1305
2	L2	0.33	0/966	0.54	0/1305
2	M2	0.33	0/966	0.54	0/1305
2	N2	0.33	0/966	0.54	0/1305
2	O2	0.33	0/966	0.54	0/1305
2	P2	0.33	0/966	0.54	0/1305
2	Q2	0.33	0/966	0.54	0/1305
2	R2	0.33	0/966	0.54	0/1305
2	S2	0.33	0/966	0.54	0/1305
2	T2	0.33	0/966	0.54	0/1305
2	U2	0.33	0/966	0.54	0/1305
2	V2	0.33	0/966	0.54	0/1305
2	W2	0.33	0/966	0.54	0/1305
2	X2	0.33	0/966	0.54	0/1305
2	Y2	0.33	0/966	0.54	0/1305
2	Z2	0.33	0/966	0.54	0/1305
2	a2	0.33	0/966	0.54	0/1305
2	b2	0.33	0/966	0.54	0/1305
2	c2	0.33	0/966	0.54	0/1305
2	d2	0.33	0/966	0.54	0/1305
2	e2	0.33	0/966	0.54	0/1305
2	f2	0.33	0/966	0.54	0/1305
2	g2	0.33	0/966	0.54	0/1305
2	h2	0.33	0/966	0.54	0/1305
2	i2	0.33	0/966	0.54	0/1305
2	j2	0.33	0/966	0.54	0/1305
2	k2	0.33	0/966	0.54	0/1305
2	l2	0.33	0/966	0.54	0/1305
2	m2	0.33	0/966	0.54	0/1305
2	n2	0.33	0/966	0.54	0/1305
2	o2	0.33	0/966	0.54	0/1305
2	p2	0.33	0/966	0.54	0/1305
2	q2	0.33	0/966	0.54	0/1305
2	r2	0.33	0/966	0.54	0/1305
2	s2	0.33	0/966	0.54	0/1305
2	t2	0.33	0/966	0.54	0/1305
2	u2	0.33	0/966	0.54	0/1305
2	v2	0.33	0/966	0.54	0/1305
2	w2	0.33	0/966	0.54	0/1305
2	x2	0.33	0/966	0.54	0/1305
2	y2	0.33	0/966	0.54	0/1305
2	z2	0.33	0/966	0.54	0/1305

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
All	All	0.57	0/313800	0.62	60/427380 (0.0%)

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	487	ARG	CB-CG-CD	5.09	123.01	111.30
1	B	487	ARG	CB-CG-CD	5.09	123.01	111.30
1	R	487	ARG	CB-CG-CD	5.09	123.01	111.30
1	X	487	ARG	CB-CG-CD	5.09	123.01	111.30
1	m	487	ARG	CB-CG-CD	5.09	123.01	111.30
1	Q	487	ARG	CB-CG-CD	5.09	123.01	111.30
1	i	487	ARG	CB-CG-CD	5.09	123.01	111.30
1	o	487	ARG	CB-CG-CD	5.09	123.01	111.30
1	3	487	ARG	CB-CG-CD	5.09	123.01	111.30
1	G	487	ARG	CB-CG-CD	5.08	122.99	111.30
1	H	487	ARG	CB-CG-CD	5.08	122.99	111.30
1	S	487	ARG	CB-CG-CD	5.08	122.99	111.30
1	T	487	ARG	CB-CG-CD	5.08	122.99	111.30
1	q	487	ARG	CB-CG-CD	5.08	122.99	111.30
1	x	487	ARG	CB-CG-CD	5.08	122.99	111.30
1	8	487	ARG	CB-CG-CD	5.08	122.99	111.30
1	A	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	C	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	I	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	N	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	W	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	f	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	r	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	w	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	y	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	z	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	7	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	a	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	l	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	6	487	ARG	CB-CG-CD	5.08	122.98	111.30
1	2	487	ARG	CB-CG-CD	5.07	122.97	111.30
1	D	487	ARG	CB-CG-CD	5.07	122.96	111.30
1	J	487	ARG	CB-CG-CD	5.07	122.96	111.30
1	M	487	ARG	CB-CG-CD	5.07	122.96	111.30
1	V	487	ARG	CB-CG-CD	5.07	122.96	111.30
1	g	487	ARG	CB-CG-CD	5.07	122.96	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	487	ARG	CB-CG-CD	5.07	122.96	111.30
1	t	487	ARG	CB-CG-CD	5.07	122.96	111.30
1	E	487	ARG	CB-CG-CD	5.07	122.95	111.30
1	F	487	ARG	CB-CG-CD	5.07	122.95	111.30
1	Z	487	ARG	CB-CG-CD	5.07	122.95	111.30
1	c	487	ARG	CB-CG-CD	5.07	122.95	111.30
1	j	487	ARG	CB-CG-CD	5.07	122.95	111.30
1	k	487	ARG	CB-CG-CD	5.07	122.95	111.30
1	p	487	ARG	CB-CG-CD	5.07	122.95	111.30
1	4	487	ARG	CB-CG-CD	5.07	122.95	111.30
1	P	487	ARG	CB-CG-CD	5.06	122.94	111.30
1	Y	487	ARG	CB-CG-CD	5.06	122.94	111.30
1	b	487	ARG	CB-CG-CD	5.06	122.94	111.30
1	h	487	ARG	CB-CG-CD	5.06	122.94	111.30
1	s	487	ARG	CB-CG-CD	5.06	122.94	111.30
1	v	487	ARG	CB-CG-CD	5.06	122.94	111.30
1	u	487	ARG	CB-CG-CD	5.06	122.93	111.30
1	K	487	ARG	CB-CG-CD	5.05	122.92	111.30
1	U	487	ARG	CB-CG-CD	5.05	122.92	111.30
1	d	487	ARG	CB-CG-CD	5.05	122.92	111.30
1	5	487	ARG	CB-CG-CD	5.05	122.92	111.30
1	L	487	ARG	CB-CG-CD	5.05	122.91	111.30
1	O	487	ARG	CB-CG-CD	5.05	122.91	111.30
1	e	487	ARG	CB-CG-CD	5.05	122.91	111.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4141	0	3898	76	0
1	2	4141	0	3898	77	0
1	3	4141	0	3898	76	0
1	4	4141	0	3898	72	0
1	5	4141	0	3898	76	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	6	4141	0	3898	73	0
1	7	4141	0	3898	78	0
1	8	4141	0	3898	74	0
1	A	4141	0	3898	72	0
1	B	4141	0	3898	75	0
1	C	4141	0	3898	74	0
1	D	4141	0	3898	73	0
1	E	4141	0	3898	74	0
1	F	4141	0	3898	72	0
1	G	4141	0	3898	76	0
1	H	4141	0	3898	77	0
1	I	4141	0	3898	77	0
1	J	4141	0	3898	74	0
1	K	4141	0	3898	71	0
1	L	4141	0	3898	70	0
1	M	4141	0	3898	73	0
1	N	4141	0	3898	74	0
1	O	4141	0	3898	72	0
1	P	4141	0	3898	74	0
1	Q	4141	0	3898	73	0
1	R	4141	0	3898	74	0
1	S	4141	0	3898	78	0
1	T	4141	0	3898	74	0
1	U	4141	0	3898	75	0
1	V	4141	0	3898	77	0
1	W	4141	0	3898	73	0
1	X	4141	0	3898	74	0
1	Y	4141	0	3898	75	0
1	Z	4141	0	3898	76	0
1	a	4141	0	3898	74	0
1	b	4141	0	3898	74	0
1	c	4141	0	3898	74	0
1	d	4141	0	3898	72	0
1	e	4141	0	3898	76	0
1	f	4141	0	3898	75	0
1	g	4141	0	3898	71	0
1	h	4141	0	3898	75	0
1	i	4141	0	3898	74	0
1	j	4141	0	3898	74	0
1	k	4141	0	3898	71	0
1	l	4141	0	3898	75	0
1	m	4141	0	3898	74	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	n	4141	0	3898	75	0
1	o	4141	0	3898	73	0
1	p	4141	0	3898	72	0
1	q	4141	0	3898	76	0
1	r	4141	0	3898	76	0
1	s	4141	0	3898	72	0
1	t	4141	0	3898	73	0
1	u	4141	0	3898	74	0
1	v	4141	0	3898	72	0
1	w	4141	0	3898	75	0
1	x	4141	0	3898	78	0
1	y	4141	0	3898	73	0
1	z	4141	0	3898	75	0
2	12	947	0	895	46	0
2	22	947	0	895	49	0
2	32	947	0	895	49	0
2	42	947	0	895	49	0
2	52	947	0	895	48	0
2	62	947	0	895	48	0
2	72	947	0	895	50	0
2	82	947	0	895	48	0
2	A2	947	0	895	48	0
2	B2	947	0	895	49	0
2	C2	947	0	895	48	0
2	D2	947	0	895	48	0
2	E2	947	0	895	49	0
2	F2	947	0	895	49	0
2	G2	947	0	895	48	0
2	H2	947	0	895	48	0
2	I2	947	0	895	47	0
2	J2	947	0	895	49	0
2	K2	947	0	895	49	0
2	L2	947	0	895	48	0
2	M2	947	0	895	48	0
2	N2	947	0	895	48	0
2	O2	947	0	895	48	0
2	P2	947	0	895	48	0
2	Q2	947	0	895	50	0
2	R2	947	0	895	50	0
2	S2	947	0	895	48	0
2	T2	947	0	895	48	0
2	U2	947	0	895	49	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	V2	947	0	895	47	0
2	W2	947	0	895	51	0
2	X2	947	0	895	49	0
2	Y2	947	0	895	48	0
2	Z2	947	0	895	47	0
2	a2	947	0	895	51	0
2	b2	947	0	895	49	0
2	c2	947	0	895	49	0
2	d2	947	0	895	49	0
2	e2	947	0	895	48	0
2	f2	947	0	895	48	0
2	g2	947	0	895	48	0
2	h2	947	0	895	49	0
2	i2	947	0	895	49	0
2	j2	947	0	895	46	0
2	k2	947	0	895	49	0
2	l2	947	0	895	51	0
2	m2	947	0	895	49	0
2	n2	947	0	895	50	0
2	o2	947	0	895	50	0
2	p2	947	0	895	47	0
2	q2	947	0	895	47	0
2	r2	947	0	895	48	0
2	s2	947	0	895	49	0
2	t2	947	0	895	49	0
2	u2	947	0	895	50	0
2	v2	947	0	895	48	0
2	w2	947	0	895	47	0
2	x2	947	0	895	48	0
2	y2	947	0	895	51	0
2	z2	947	0	895	48	0
All	All	305280	0	287580	6066	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 10.

All (6066) 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)
2:h2:37:PHE:CD1	2:h2:47:PHE:HA	2.02	0.95
2:22:37:PHE:CD1	2:22:47:PHE:HA	2.02	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V2:37:PHE:CD1	2:V2:47:PHE:HA	2.02	0.95
2:I2:37:PHE:CD1	2:I2:47:PHE:HA	2.02	0.95
2:e2:37:PHE:CD1	2:e2:47:PHE:HA	2.02	0.95
2:j2:37:PHE:CD1	2:j2:47:PHE:HA	2.02	0.95
2:t2:37:PHE:CD1	2:t2:47:PHE:HA	2.02	0.95
2:u2:37:PHE:CD1	2:u2:47:PHE:HA	2.02	0.95
2:H2:37:PHE:CD1	2:H2:47:PHE:HA	2.02	0.95
2:L2:37:PHE:CD1	2:L2:47:PHE:HA	2.02	0.95
2:Z2:37:PHE:CD1	2:Z2:47:PHE:HA	2.02	0.95
2:B2:37:PHE:CD1	2:B2:47:PHE:HA	2.02	0.95
2:J2:37:PHE:CD1	2:J2:47:PHE:HA	2.02	0.95
2:N2:37:PHE:CD1	2:N2:47:PHE:HA	2.02	0.95
2:O2:37:PHE:CD1	2:O2:47:PHE:HA	2.02	0.95
2:W2:37:PHE:CD1	2:W2:47:PHE:HA	2.02	0.95
2:r2:37:PHE:CD1	2:r2:47:PHE:HA	2.02	0.95
2:x2:37:PHE:CD1	2:x2:47:PHE:HA	2.02	0.95
2:y2:37:PHE:CD1	2:y2:47:PHE:HA	2.02	0.95
2:C2:37:PHE:CD1	2:C2:47:PHE:HA	2.02	0.95
2:D2:37:PHE:CD1	2:D2:47:PHE:HA	2.02	0.95
2:m2:37:PHE:CD1	2:m2:47:PHE:HA	2.02	0.95
2:n2:37:PHE:CD1	2:n2:47:PHE:HA	2.02	0.95
2:M2:37:PHE:CD1	2:M2:47:PHE:HA	2.02	0.94
2:R2:37:PHE:CD1	2:R2:47:PHE:HA	2.02	0.94
2:l2:37:PHE:CD1	2:l2:47:PHE:HA	2.02	0.94
2:a2:37:PHE:CD1	2:a2:47:PHE:HA	2.02	0.94
2:s2:37:PHE:CD1	2:s2:47:PHE:HA	2.02	0.94
2:62:37:PHE:CD1	2:62:47:PHE:HA	2.02	0.94
2:K2:37:PHE:CD1	2:K2:47:PHE:HA	2.02	0.94
2:Q2:37:PHE:CD1	2:Q2:47:PHE:HA	2.02	0.94
2:d2:37:PHE:CD1	2:d2:47:PHE:HA	2.02	0.94
2:A2:37:PHE:CD1	2:A2:47:PHE:HA	2.02	0.94
2:72:37:PHE:CD1	2:72:47:PHE:HA	2.02	0.94
2:82:37:PHE:CD1	2:82:47:PHE:HA	2.02	0.94
2:T2:37:PHE:CD1	2:T2:47:PHE:HA	2.02	0.94
2:U2:37:PHE:CD1	2:U2:47:PHE:HA	2.02	0.94
2:g2:37:PHE:CD1	2:g2:47:PHE:HA	2.02	0.94
2:o2:37:PHE:CD1	2:o2:47:PHE:HA	2.02	0.94
2:q2:37:PHE:CD1	2:q2:47:PHE:HA	2.02	0.94
2:S2:37:PHE:CD1	2:S2:47:PHE:HA	2.02	0.94
2:z2:37:PHE:CD1	2:z2:47:PHE:HA	2.02	0.94
2:52:37:PHE:CD1	2:52:47:PHE:HA	2.02	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E2:37:PHE:CD1	2:E2:47:PHE:HA	2.02	0.94
2:X2:37:PHE:CD1	2:X2:47:PHE:HA	2.02	0.94
2:G2:37:PHE:CD1	2:G2:47:PHE:HA	2.02	0.94
2:c2:37:PHE:CD1	2:c2:47:PHE:HA	2.02	0.94
2:v2:37:PHE:CD1	2:v2:47:PHE:HA	2.02	0.94
2:i2:37:PHE:CD1	2:i2:47:PHE:HA	2.02	0.94
2:k2:37:PHE:CD1	2:k2:47:PHE:HA	2.02	0.94
2:w2:37:PHE:CD1	2:w2:47:PHE:HA	2.02	0.94
2:f2:37:PHE:CD1	2:f2:47:PHE:HA	2.02	0.94
2:32:37:PHE:CD1	2:32:47:PHE:HA	2.02	0.94
2:Y2:37:PHE:CD1	2:Y2:47:PHE:HA	2.02	0.93
2:l2:37:PHE:CD1	2:l2:47:PHE:HA	2.02	0.93
2:42:37:PHE:CD1	2:42:47:PHE:HA	2.02	0.93
2:F2:37:PHE:CD1	2:F2:47:PHE:HA	2.02	0.93
2:p2:37:PHE:CD1	2:p2:47:PHE:HA	2.02	0.93
2:b2:37:PHE:CD1	2:b2:47:PHE:HA	2.02	0.93
2:P2:37:PHE:CD1	2:P2:47:PHE:HA	2.02	0.93
2:i2:64:VAL:HG13	2:i2:68:PHE:CD2	2.09	0.88
2:B2:64:VAL:HG13	2:B2:68:PHE:CD2	2.09	0.88
2:L2:64:VAL:HG13	2:L2:68:PHE:CD2	2.09	0.88
2:O2:64:VAL:HG13	2:O2:68:PHE:CD2	2.09	0.88
2:P2:64:VAL:HG13	2:P2:68:PHE:CD2	2.09	0.88
2:b2:64:VAL:HG13	2:b2:68:PHE:CD2	2.09	0.88
2:l2:64:VAL:HG13	2:l2:68:PHE:CD2	2.09	0.88
2:m2:64:VAL:HG13	2:m2:68:PHE:CD2	2.09	0.88
2:32:64:VAL:HG13	2:32:68:PHE:CD2	2.09	0.88
2:U2:64:VAL:HG13	2:U2:68:PHE:CD2	2.09	0.88
2:a2:64:VAL:HG13	2:a2:68:PHE:CD2	2.09	0.88
2:h2:64:VAL:HG13	2:h2:68:PHE:CD2	2.09	0.88
2:52:64:VAL:HG13	2:52:68:PHE:CD2	2.09	0.88
2:H2:64:VAL:HG13	2:H2:68:PHE:CD2	2.09	0.88
2:d2:64:VAL:HG13	2:d2:68:PHE:CD2	2.09	0.88
2:I2:64:VAL:HG13	2:I2:68:PHE:CD2	2.09	0.88
2:r2:64:VAL:HG13	2:r2:68:PHE:CD2	2.09	0.88
2:x2:64:VAL:HG13	2:x2:68:PHE:CD2	2.09	0.88
2:22:64:VAL:HG13	2:22:68:PHE:CD2	2.09	0.88
2:K2:64:VAL:HG13	2:K2:68:PHE:CD2	2.09	0.88
2:y2:64:VAL:HG13	2:y2:68:PHE:CD2	2.09	0.88
2:82:64:VAL:HG13	2:82:68:PHE:CD2	2.09	0.88
2:D2:64:VAL:HG13	2:D2:68:PHE:CD2	2.09	0.88
2:M2:64:VAL:HG13	2:M2:68:PHE:CD2	2.09	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T2:64:VAL:HG13	2:T2:68:PHE:CD2	2.09	0.88
2:V2:64:VAL:HG13	2:V2:68:PHE:CD2	2.09	0.88
2:W2:64:VAL:HG13	2:W2:68:PHE:CD2	2.09	0.88
2:t2:64:VAL:HG13	2:t2:68:PHE:CD2	2.09	0.88
2:72:64:VAL:HG13	2:72:68:PHE:CD2	2.09	0.88
2:S2:64:VAL:HG13	2:S2:68:PHE:CD2	2.09	0.88
2:X2:64:VAL:HG13	2:X2:68:PHE:CD2	2.09	0.88
2:v2:64:VAL:HG13	2:v2:68:PHE:CD2	2.09	0.87
2:k2:64:VAL:HG13	2:k2:68:PHE:CD2	2.09	0.87
2:C2:64:VAL:HG13	2:C2:68:PHE:CD2	2.09	0.87
2:n2:64:VAL:HG13	2:n2:68:PHE:CD2	2.09	0.87
2:A2:64:VAL:HG13	2:A2:68:PHE:CD2	2.09	0.87
2:E2:64:VAL:HG13	2:E2:68:PHE:CD2	2.09	0.87
2:N2:64:VAL:HG13	2:N2:68:PHE:CD2	2.09	0.87
2:Q2:64:VAL:HG13	2:Q2:68:PHE:CD2	2.09	0.87
2:j2:64:VAL:HG13	2:j2:68:PHE:CD2	2.09	0.87
2:42:64:VAL:HG13	2:42:68:PHE:CD2	2.09	0.87
2:J2:64:VAL:HG13	2:J2:68:PHE:CD2	2.09	0.87
2:Z2:64:VAL:HG13	2:Z2:68:PHE:CD2	2.09	0.87
2:G2:64:VAL:HG13	2:G2:68:PHE:CD2	2.09	0.87
2:R2:64:VAL:HG13	2:R2:68:PHE:CD2	2.09	0.87
2:Y2:64:VAL:HG13	2:Y2:68:PHE:CD2	2.09	0.87
2:g2:64:VAL:HG13	2:g2:68:PHE:CD2	2.09	0.87
2:o2:64:VAL:HG13	2:o2:68:PHE:CD2	2.09	0.87
2:q2:64:VAL:HG13	2:q2:68:PHE:CD2	2.09	0.87
2:s2:64:VAL:HG13	2:s2:68:PHE:CD2	2.09	0.87
2:z2:64:VAL:HG13	2:z2:68:PHE:CD2	2.09	0.87
2:62:64:VAL:HG13	2:62:68:PHE:CD2	2.09	0.87
2:F2:64:VAL:HG13	2:F2:68:PHE:CD2	2.09	0.87
2:c2:64:VAL:HG13	2:c2:68:PHE:CD2	2.09	0.87
2:w2:64:VAL:HG13	2:w2:68:PHE:CD2	2.09	0.87
2:12:64:VAL:HG13	2:12:68:PHE:CD2	2.09	0.87
2:p2:64:VAL:HG13	2:p2:68:PHE:CD2	2.09	0.86
2:f2:64:VAL:HG13	2:f2:68:PHE:CD2	2.09	0.86
2:e2:64:VAL:HG13	2:e2:68:PHE:CD2	2.09	0.86
2:u2:64:VAL:HG13	2:u2:68:PHE:CD2	2.09	0.86
2:v2:11:ILE:HG12	2:v2:123:THR:HB	1.60	0.84
2:52:11:ILE:HG12	2:52:123:THR:HB	1.60	0.84
2:U2:11:ILE:HG12	2:U2:123:THR:HB	1.60	0.83
2:X2:11:ILE:HG12	2:X2:123:THR:HB	1.60	0.83
2:i2:11:ILE:HG12	2:i2:123:THR:HB	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:32:11:ILE:HG12	2:32:123:THR:HB	1.60	0.83
2:B2:11:ILE:HG12	2:B2:123:THR:HB	1.60	0.83
2:K2:11:ILE:HG12	2:K2:123:THR:HB	1.60	0.83
2:q2:11:ILE:HG12	2:q2:123:THR:HB	1.60	0.83
2:F2:11:ILE:HG12	2:F2:123:THR:HB	1.60	0.83
2:G2:11:ILE:HG12	2:G2:123:THR:HB	1.60	0.83
2:d2:11:ILE:HG12	2:d2:123:THR:HB	1.60	0.83
2:m2:11:ILE:HG12	2:m2:123:THR:HB	1.60	0.83
2:P2:11:ILE:HG12	2:P2:123:THR:HB	1.60	0.83
2:T2:11:ILE:HG12	2:T2:123:THR:HB	1.60	0.83
2:g2:11:ILE:HG12	2:g2:123:THR:HB	1.60	0.83
2:k2:11:ILE:HG12	2:k2:123:THR:HB	1.60	0.83
2:z2:11:ILE:HG12	2:z2:123:THR:HB	1.60	0.83
2:42:11:ILE:HG12	2:42:123:THR:HB	1.60	0.83
2:82:11:ILE:HG12	2:82:123:THR:HB	1.60	0.83
2:H2:11:ILE:HG12	2:H2:123:THR:HB	1.60	0.83
2:b2:11:ILE:HG12	2:b2:123:THR:HB	1.60	0.83
2:h2:11:ILE:HG12	2:h2:123:THR:HB	1.60	0.83
2:p2:11:ILE:HG12	2:p2:123:THR:HB	1.60	0.83
2:Q2:11:ILE:HG12	2:Q2:123:THR:HB	1.60	0.83
2:o2:11:ILE:HG12	2:o2:123:THR:HB	1.60	0.83
2:x2:11:ILE:HG12	2:x2:123:THR:HB	1.60	0.83
2:22:11:ILE:HG12	2:22:123:THR:HB	1.61	0.83
2:W2:11:ILE:HG12	2:W2:123:THR:HB	1.60	0.82
2:u2:11:ILE:HG12	2:u2:123:THR:HB	1.60	0.82
2:y2:11:ILE:HG12	2:y2:123:THR:HB	1.60	0.82
2:I2:11:ILE:HG12	2:I2:123:THR:HB	1.60	0.82
2:62:11:ILE:HG12	2:62:123:THR:HB	1.60	0.82
2:O2:11:ILE:HG12	2:O2:123:THR:HB	1.60	0.82
2:a2:11:ILE:HG12	2:a2:123:THR:HB	1.61	0.82
2:j2:11:ILE:HG12	2:j2:123:THR:HB	1.60	0.82
2:l2:11:ILE:HG12	2:l2:123:THR:HB	1.61	0.82
2:L2:11:ILE:HG12	2:L2:123:THR:HB	1.60	0.82
2:M2:11:ILE:HG12	2:M2:123:THR:HB	1.60	0.82
2:e2:11:ILE:HG12	2:e2:123:THR:HB	1.60	0.82
2:r2:11:ILE:HG12	2:r2:123:THR:HB	1.60	0.82
2:D2:11:ILE:HG12	2:D2:123:THR:HB	1.60	0.82
2:R2:11:ILE:HG12	2:R2:123:THR:HB	1.61	0.82
2:Z2:11:ILE:HG12	2:Z2:123:THR:HB	1.60	0.82
2:V2:11:ILE:HG12	2:V2:123:THR:HB	1.60	0.81
2:t2:11:ILE:HG12	2:t2:123:THR:HB	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:11:ILE:HG12	2:C2:123:THR:HB	1.60	0.81
2:N2:11:ILE:HG12	2:N2:123:THR:HB	1.60	0.81
2:Y2:11:ILE:HG12	2:Y2:123:THR:HB	1.60	0.81
2:72:11:ILE:HG12	2:72:123:THR:HB	1.60	0.81
2:S2:11:ILE:HG12	2:S2:123:THR:HB	1.60	0.81
2:E2:11:ILE:HG12	2:E2:123:THR:HB	1.60	0.81
2:w2:11:ILE:HG12	2:w2:123:THR:HB	1.61	0.81
2:c2:11:ILE:HG12	2:c2:123:THR:HB	1.60	0.81
2:f2:11:ILE:HG12	2:f2:123:THR:HB	1.60	0.81
2:J2:11:ILE:HG12	2:J2:123:THR:HB	1.60	0.81
2:n2:11:ILE:HG12	2:n2:123:THR:HB	1.60	0.80
2:A2:11:ILE:HG12	2:A2:123:THR:HB	1.60	0.80
2:s2:11:ILE:HG12	2:s2:123:THR:HB	1.60	0.80
2:12:11:ILE:HG12	2:12:123:THR:HB	1.60	0.80
1:Y:450:ARG:HH11	1:Y:454:THR:H	1.31	0.79
1:u:450:ARG:HH11	1:u:454:THR:H	1.31	0.79
1:w:450:ARG:HH11	1:w:454:THR:H	1.31	0.79
1:e:450:ARG:HH11	1:e:454:THR:H	1.31	0.79
1:b:450:ARG:HH11	1:b:454:THR:H	1.31	0.79
1:P:450:ARG:HH11	1:P:454:THR:H	1.31	0.79
2:J2:37:PHE:CE1	2:J2:47:PHE:HB2	2.19	0.78
2:f2:37:PHE:CE1	2:f2:47:PHE:HB2	2.19	0.78
2:n2:37:PHE:CE1	2:n2:47:PHE:HB2	2.19	0.78
1:D:450:ARG:HH11	1:D:454:THR:H	1.31	0.78
1:U:450:ARG:HH11	1:U:454:THR:H	1.31	0.78
1:5:450:ARG:HH11	1:5:454:THR:H	1.31	0.78
1:M:450:ARG:HH11	1:M:454:THR:H	1.31	0.78
2:C2:37:PHE:CE1	2:C2:47:PHE:HB2	2.19	0.78
2:N2:37:PHE:CE1	2:N2:47:PHE:HB2	2.19	0.78
2:12:37:PHE:CE1	2:12:47:PHE:HB2	2.19	0.78
1:A:450:ARG:HH11	1:A:454:THR:H	1.31	0.78
1:s:450:ARG:HH11	1:s:454:THR:H	1.31	0.78
2:E2:37:PHE:CE1	2:E2:47:PHE:HB2	2.19	0.78
2:F2:37:PHE:CE1	2:F2:47:PHE:HB2	2.19	0.78
2:O2:37:PHE:CE1	2:O2:47:PHE:HB2	2.19	0.78
2:c2:37:PHE:CE1	2:c2:47:PHE:HB2	2.19	0.78
1:p:450:ARG:HH11	1:p:454:THR:H	1.31	0.78
2:H2:37:PHE:CE1	2:H2:47:PHE:HB2	2.19	0.78
2:L2:37:PHE:CE1	2:L2:47:PHE:HB2	2.19	0.78
2:Q2:37:PHE:CE1	2:Q2:47:PHE:HB2	2.19	0.78
2:S2:37:PHE:CE1	2:S2:47:PHE:HB2	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X2:37:PHE:CE1	2:X2:47:PHE:HB2	2.19	0.78
2:o2:37:PHE:CE1	2:o2:47:PHE:HB2	2.19	0.78
2:p2:37:PHE:CE1	2:p2:47:PHE:HB2	2.19	0.78
2:72:37:PHE:CE1	2:72:47:PHE:HB2	2.19	0.78
1:l:450:ARG:HH11	1:l:454:THR:H	1.31	0.78
1:x:450:ARG:HH11	1:x:454:THR:H	1.31	0.78
2:D2:37:PHE:CE1	2:D2:47:PHE:HB2	2.19	0.78
2:M2:37:PHE:CE1	2:M2:47:PHE:HB2	2.19	0.78
2:Z2:37:PHE:CE1	2:Z2:47:PHE:HB2	2.19	0.78
2:d2:37:PHE:CE1	2:d2:47:PHE:HB2	2.18	0.78
2:j2:37:PHE:CE1	2:j2:47:PHE:HB2	2.19	0.78
2:x2:37:PHE:CE1	2:x2:47:PHE:HB2	2.19	0.78
1:F:450:ARG:HH11	1:F:454:THR:H	1.31	0.78
1:a:450:ARG:HH11	1:a:454:THR:H	1.31	0.78
1:z:450:ARG:HH11	1:z:454:THR:H	1.31	0.78
2:G2:37:PHE:CE1	2:G2:47:PHE:HB2	2.19	0.78
2:K2:37:PHE:CE1	2:K2:47:PHE:HB2	2.19	0.78
2:l2:37:PHE:CE1	2:l2:47:PHE:HB2	2.19	0.78
2:q2:37:PHE:CE1	2:q2:47:PHE:HB2	2.19	0.78
2:v2:37:PHE:CE1	2:v2:47:PHE:HB2	2.19	0.78
2:52:37:PHE:CE1	2:52:47:PHE:HB2	2.19	0.78
1:H:450:ARG:HH11	1:H:454:THR:H	1.31	0.78
1:h:450:ARG:HH11	1:h:454:THR:H	1.31	0.78
2:B2:37:PHE:CE1	2:B2:47:PHE:HB2	2.19	0.78
2:U2:37:PHE:CE1	2:U2:47:PHE:HB2	2.19	0.78
2:a2:37:PHE:CE1	2:a2:47:PHE:HB2	2.19	0.78
2:m2:37:PHE:CE1	2:m2:47:PHE:HB2	2.19	0.78
1:2:450:ARG:HH11	1:2:454:THR:H	1.31	0.78
1:O:450:ARG:HH11	1:O:454:THR:H	1.31	0.78
1:g:450:ARG:HH11	1:g:454:THR:H	1.31	0.78
1:L:450:ARG:HH11	1:L:454:THR:H	1.31	0.77
1:3:450:ARG:HH11	1:3:454:THR:H	1.31	0.77
2:t2:37:PHE:CE1	2:t2:47:PHE:HB2	2.19	0.77
2:w2:37:PHE:CE1	2:w2:47:PHE:HB2	2.19	0.77
1:i:450:ARG:HH11	1:i:454:THR:H	1.31	0.77
1:y:450:ARG:HH11	1:y:454:THR:H	1.31	0.77
2:I2:37:PHE:CE1	2:I2:47:PHE:HB2	2.19	0.77
2:P2:37:PHE:CE1	2:P2:47:PHE:HB2	2.19	0.77
2:R2:37:PHE:CE1	2:R2:47:PHE:HB2	2.19	0.77
2:Y2:37:PHE:CE1	2:Y2:47:PHE:HB2	2.19	0.77
1:c:450:ARG:HH11	1:c:454:THR:H	1.31	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:37:PHE:CE1	2:A2:47:PHE:HB2	2.19	0.77
2:b2:37:PHE:CE1	2:b2:47:PHE:HB2	2.19	0.77
2:h2:37:PHE:CE1	2:h2:47:PHE:HB2	2.19	0.77
2:s2:37:PHE:CE1	2:s2:47:PHE:HB2	2.19	0.77
2:z2:37:PHE:CE1	2:z2:47:PHE:HB2	2.19	0.77
2:32:37:PHE:CE1	2:32:47:PHE:HB2	2.19	0.77
2:62:37:PHE:CE1	2:62:47:PHE:HB2	2.19	0.77
1:E:450:ARG:HH11	1:E:454:THR:H	1.31	0.77
1:W:450:ARG:HH11	1:W:454:THR:H	1.31	0.77
1:k:450:ARG:HH11	1:k:454:THR:H	1.31	0.77
1:q:450:ARG:HH11	1:q:454:THR:H	1.31	0.77
1:r:450:ARG:HH11	1:r:454:THR:H	1.31	0.77
1:4:450:ARG:HH11	1:4:454:THR:H	1.31	0.77
2:V2:37:PHE:CE1	2:V2:47:PHE:HB2	2.19	0.77
2:W2:37:PHE:CE1	2:W2:47:PHE:HB2	2.19	0.77
2:g2:37:PHE:CE1	2:g2:47:PHE:HB2	2.19	0.77
2:k2:37:PHE:CE1	2:k2:47:PHE:HB2	2.19	0.77
2:22:37:PHE:CE1	2:22:47:PHE:HB2	2.19	0.77
2:i2:37:PHE:CE1	2:i2:47:PHE:HB2	2.19	0.77
2:r2:37:PHE:CE1	2:r2:47:PHE:HB2	2.19	0.77
2:42:37:PHE:CE1	2:42:47:PHE:HB2	2.19	0.77
1:G:450:ARG:HH11	1:G:454:THR:H	1.31	0.77
1:V:450:ARG:HH11	1:V:454:THR:H	1.31	0.77
2:y2:37:PHE:CE1	2:y2:47:PHE:HB2	2.19	0.77
1:I:450:ARG:HH11	1:I:454:THR:H	1.31	0.77
1:t:450:ARG:HH11	1:t:454:THR:H	1.31	0.77
2:u2:37:PHE:CE1	2:u2:47:PHE:HB2	2.19	0.77
2:e2:37:PHE:CE1	2:e2:47:PHE:HB2	2.19	0.77
1:S:450:ARG:HH11	1:S:454:THR:H	1.31	0.76
2:T2:37:PHE:CE1	2:T2:47:PHE:HB2	2.19	0.76
2:82:37:PHE:CE1	2:82:47:PHE:HB2	2.19	0.76
1:6:450:ARG:HH11	1:6:454:THR:H	1.31	0.76
1:R:450:ARG:HH11	1:R:454:THR:H	1.31	0.76
1:o:450:ARG:HH11	1:o:454:THR:H	1.31	0.76
1:Q:450:ARG:HH11	1:Q:454:THR:H	1.31	0.76
1:7:450:ARG:HH11	1:7:454:THR:H	1.31	0.76
1:N:450:ARG:HH11	1:N:454:THR:H	1.31	0.76
1:f:450:ARG:HH11	1:f:454:THR:H	1.31	0.76
1:n:450:ARG:HH11	1:n:454:THR:H	1.31	0.76
1:1:450:ARG:HH11	1:1:454:THR:H	1.31	0.76
1:J:450:ARG:HH11	1:J:454:THR:H	1.31	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:450:ARG:HH11	1:Z:454:THR:H	1.31	0.76
1:C:450:ARG:HH11	1:C:454:THR:H	1.31	0.76
1:j:450:ARG:HH11	1:j:454:THR:H	1.31	0.76
1:K:450:ARG:HH11	1:K:454:THR:H	1.31	0.75
1:d:450:ARG:HH11	1:d:454:THR:H	1.31	0.75
1:X:450:ARG:HH11	1:X:454:THR:H	1.31	0.75
1:v:450:ARG:HH11	1:v:454:THR:H	1.31	0.75
1:m:450:ARG:HH11	1:m:454:THR:H	1.31	0.74
1:B:450:ARG:HH11	1:B:454:THR:H	1.31	0.74
1:8:450:ARG:HH11	1:8:454:THR:H	1.31	0.74
1:T:450:ARG:HH11	1:T:454:THR:H	1.31	0.74
2:c2:37:PHE:HE1	2:c2:47:PHE:HB2	1.54	0.72
2:E2:37:PHE:HE1	2:E2:47:PHE:HB2	1.54	0.72
2:S2:37:PHE:HE1	2:S2:47:PHE:HB2	1.54	0.72
2:T2:37:PHE:HE1	2:T2:47:PHE:HB2	1.54	0.72
2:y2:37:PHE:HE1	2:y2:47:PHE:HB2	1.54	0.72
2:52:37:PHE:HE1	2:52:47:PHE:HB2	1.54	0.72
2:82:37:PHE:HE1	2:82:47:PHE:HB2	1.54	0.72
2:I2:37:PHE:HE1	2:I2:47:PHE:HB2	1.54	0.72
2:f2:37:PHE:HE1	2:f2:47:PHE:HB2	1.54	0.72
2:r2:37:PHE:HE1	2:r2:47:PHE:HB2	1.54	0.72
2:72:37:PHE:HE1	2:72:47:PHE:HB2	1.54	0.72
2:U2:37:PHE:HE1	2:U2:47:PHE:HB2	1.54	0.72
2:W2:37:PHE:HE1	2:W2:47:PHE:HB2	1.54	0.72
2:R2:37:PHE:HE1	2:R2:47:PHE:HB2	1.54	0.71
2:62:37:PHE:HE1	2:62:47:PHE:HB2	1.54	0.71
2:a2:37:PHE:HE1	2:a2:47:PHE:HB2	1.54	0.71
2:l2:37:PHE:HE1	2:l2:47:PHE:HB2	1.54	0.71
2:k2:37:PHE:HE1	2:k2:47:PHE:HB2	1.54	0.71
2:L2:37:PHE:HE1	2:L2:47:PHE:HB2	1.54	0.71
2:l2:37:PHE:HE1	2:l2:47:PHE:HB2	1.54	0.71
2:s2:37:PHE:HE1	2:s2:47:PHE:HB2	1.54	0.71
2:v2:37:PHE:HE1	2:v2:47:PHE:HB2	1.54	0.71
2:A2:37:PHE:HE1	2:A2:47:PHE:HB2	1.54	0.71
2:n2:37:PHE:HE1	2:n2:47:PHE:HB2	1.54	0.71
2:G2:37:PHE:HE1	2:G2:47:PHE:HB2	1.54	0.71
2:q2:37:PHE:HE1	2:q2:47:PHE:HB2	1.54	0.71
2:32:37:PHE:HE1	2:32:47:PHE:HB2	1.54	0.71
2:42:37:PHE:HE1	2:42:47:PHE:HB2	1.54	0.71
2:J2:37:PHE:HE1	2:J2:47:PHE:HB2	1.54	0.71
2:O2:37:PHE:HE1	2:O2:47:PHE:HB2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X2:37:PHE:HE1	2:X2:47:PHE:HB2	1.54	0.71
2:P2:37:PHE:HE1	2:P2:47:PHE:HB2	1.54	0.71
2:b2:37:PHE:HE1	2:b2:47:PHE:HB2	1.54	0.71
2:i2:37:PHE:HE1	2:i2:47:PHE:HB2	1.54	0.71
2:t2:37:PHE:HE1	2:t2:47:PHE:HB2	1.54	0.71
2:h2:37:PHE:HE1	2:h2:47:PHE:HB2	1.54	0.70
2:V2:37:PHE:HE1	2:V2:47:PHE:HB2	1.54	0.70
2:B2:37:PHE:HE1	2:B2:47:PHE:HB2	1.54	0.70
2:N2:37:PHE:HE1	2:N2:47:PHE:HB2	1.54	0.70
2:m2:37:PHE:HE1	2:m2:47:PHE:HB2	1.54	0.70
2:o2:37:PHE:HE1	2:o2:47:PHE:HB2	1.54	0.70
2:w2:37:PHE:HE1	2:w2:47:PHE:HB2	1.54	0.70
2:22:37:PHE:HE1	2:22:47:PHE:HB2	1.54	0.70
2:C2:37:PHE:HE1	2:C2:47:PHE:HB2	1.54	0.70
2:Q2:37:PHE:HE1	2:Q2:47:PHE:HB2	1.54	0.70
2:D2:37:PHE:HE1	2:D2:47:PHE:HB2	1.54	0.70
2:M2:37:PHE:HE1	2:M2:47:PHE:HB2	1.54	0.70
2:Y2:37:PHE:HE1	2:Y2:47:PHE:HB2	1.54	0.70
2:z2:37:PHE:HE1	2:z2:47:PHE:HB2	1.54	0.69
2:Z2:37:PHE:HE1	2:Z2:47:PHE:HB2	1.54	0.69
1:Q:317:LYS:NZ	1:Q:413:GLN:OE1	2.26	0.69
1:T:317:LYS:NZ	1:T:413:GLN:OE1	2.26	0.69
1:8:317:LYS:NZ	1:8:413:GLN:OE1	2.26	0.69
2:g2:37:PHE:HE1	2:g2:47:PHE:HB2	1.54	0.69
2:j2:37:PHE:HE1	2:j2:47:PHE:HB2	1.54	0.69
1:I:317:LYS:NZ	1:I:413:GLN:OE1	2.26	0.69
1:W:317:LYS:NZ	1:W:413:GLN:OE1	2.26	0.69
1:Y:317:LYS:NZ	1:Y:413:GLN:OE1	2.26	0.69
1:e:317:LYS:NZ	1:e:413:GLN:OE1	2.26	0.69
1:g:317:LYS:NZ	1:g:413:GLN:OE1	2.26	0.69
1:o:317:LYS:NZ	1:o:413:GLN:OE1	2.26	0.69
1:r:317:LYS:NZ	1:r:413:GLN:OE1	2.26	0.69
1:u:317:LYS:NZ	1:u:413:GLN:OE1	2.26	0.69
1:w:317:LYS:NZ	1:w:413:GLN:OE1	2.26	0.69
1:y:317:LYS:NZ	1:y:413:GLN:OE1	2.26	0.69
1:z:317:LYS:NZ	1:z:413:GLN:OE1	2.26	0.69
1:c:317:LYS:NZ	1:c:413:GLN:OE1	2.26	0.69
1:l:317:LYS:NZ	1:l:413:GLN:OE1	2.26	0.69
2:e2:37:PHE:HE1	2:e2:47:PHE:HB2	1.54	0.69
1:A:660:PRO:HG2	1:B:251:PRO:HB3	1.75	0.69
1:E:317:LYS:NZ	1:E:413:GLN:OE1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:317:LYS:NZ	1:Z:413:GLN:OE1	2.26	0.69
1:f:317:LYS:NZ	1:f:413:GLN:OE1	2.26	0.69
1:J:317:LYS:NZ	1:J:413:GLN:OE1	2.26	0.68
1:K:317:LYS:NZ	1:K:413:GLN:OE1	2.26	0.68
1:M:317:LYS:NZ	1:M:413:GLN:OE1	2.26	0.68
1:j:317:LYS:NZ	1:j:413:GLN:OE1	2.26	0.68
1:n:317:LYS:NZ	1:n:413:GLN:OE1	2.26	0.68
1:D:317:LYS:NZ	1:D:413:GLN:OE1	2.26	0.68
1:S:317:LYS:NZ	1:S:413:GLN:OE1	2.26	0.68
1:V:317:LYS:NZ	1:V:413:GLN:OE1	2.26	0.68
1:d:317:LYS:NZ	1:d:413:GLN:OE1	2.26	0.68
1:i:317:LYS:NZ	1:i:413:GLN:OE1	2.26	0.68
1:m:317:LYS:NZ	1:m:413:GLN:OE1	2.26	0.68
1:s:317:LYS:NZ	1:s:413:GLN:OE1	2.26	0.68
1:t:317:LYS:NZ	1:t:413:GLN:OE1	2.26	0.68
1:7:317:LYS:NZ	1:7:413:GLN:OE1	2.26	0.68
2:F2:37:PHE:HE1	2:F2:47:PHE:HB2	1.54	0.68
2:d2:37:PHE:HE1	2:d2:47:PHE:HB2	1.54	0.68
1:A:317:LYS:NZ	1:A:413:GLN:OE1	2.26	0.68
1:B:317:LYS:NZ	1:B:413:GLN:OE1	2.26	0.68
1:C:317:LYS:NZ	1:C:413:GLN:OE1	2.26	0.68
1:L:317:LYS:NZ	1:L:413:GLN:OE1	2.26	0.68
1:N:317:LYS:NZ	1:N:413:GLN:OE1	2.26	0.68
1:3:317:LYS:NZ	1:3:413:GLN:OE1	2.26	0.68
2:K2:37:PHE:HE1	2:K2:47:PHE:HB2	1.54	0.68
2:u2:37:PHE:HE1	2:u2:47:PHE:HB2	1.54	0.68
1:O:317:LYS:NZ	1:O:413:GLN:OE1	2.26	0.68
1:m:251:PRO:HB3	1:s:660:PRO:HG2	1.76	0.68
2:p2:37:PHE:HE1	2:p2:47:PHE:HB2	1.54	0.68
1:t:251:PRO:HB3	1:6:660:PRO:HG2	1.76	0.68
1:R:660:PRO:HG2	1:V:251:PRO:HB3	1.76	0.68
1:q:317:LYS:NZ	1:q:413:GLN:OE1	2.26	0.68
1:T:251:PRO:HB3	1:U:660:PRO:HG2	1.76	0.68
1:X:317:LYS:NZ	1:X:413:GLN:OE1	2.26	0.68
1:b:317:LYS:NZ	1:b:413:GLN:OE1	2.26	0.68
1:5:660:PRO:HG2	1:8:251:PRO:HB3	1.76	0.68
1:G:317:LYS:NZ	1:G:413:GLN:OE1	2.26	0.68
1:J:251:PRO:HB3	1:a:660:PRO:HG2	1.76	0.68
1:P:317:LYS:NZ	1:P:413:GLN:OE1	2.26	0.68
1:h:317:LYS:NZ	1:h:413:GLN:OE1	2.26	0.68
1:k:317:LYS:NZ	1:k:413:GLN:OE1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:317:LYS:NZ	1:2:413:GLN:OE1	2.26	0.68
1:4:317:LYS:NZ	1:4:413:GLN:OE1	2.26	0.68
1:5:317:LYS:NZ	1:5:413:GLN:OE1	2.26	0.68
2:x2:37:PHE:HE1	2:x2:47:PHE:HB2	1.54	0.68
1:Z:660:PRO:HG2	1:a:251:PRO:HB3	1.76	0.68
1:j:660:PRO:HG2	1:l:251:PRO:HB3	1.76	0.68
1:l:660:PRO:HG2	1:n:251:PRO:HB3	1.76	0.68
1:v:317:LYS:NZ	1:v:413:GLN:OE1	2.26	0.68
2:H2:37:PHE:HE1	2:H2:47:PHE:HB2	1.54	0.68
1:F:251:PRO:HB3	1:G:660:PRO:HG2	1.76	0.67
1:H:317:LYS:NZ	1:H:413:GLN:OE1	2.26	0.67
1:P:251:PRO:HB3	1:Q:660:PRO:HG2	1.76	0.67
1:U:317:LYS:NZ	1:U:413:GLN:OE1	2.26	0.67
1:b:251:PRO:HB3	1:o:660:PRO:HG2	1.76	0.67
1:p:317:LYS:NZ	1:p:413:GLN:OE1	2.26	0.67
1:p:251:PRO:HB3	1:q:660:PRO:HG2	1.76	0.67
1:u:251:PRO:HB3	1:2:660:PRO:HG2	1.76	0.67
1:F:317:LYS:NZ	1:F:413:GLN:OE1	2.26	0.67
1:M:660:PRO:HG2	1:c:251:PRO:HB3	1.76	0.67
1:e:251:PRO:HB3	1:h:660:PRO:HG2	1.76	0.67
1:f:660:PRO:HG2	1:z:251:PRO:HB3	1.76	0.67
1:2:251:PRO:HB3	1:3:660:PRO:HG2	1.76	0.67
1:D:660:PRO:HG2	1:E:251:PRO:HB3	1.76	0.67
1:g:251:PRO:HB3	1:1:660:PRO:HG2	1.76	0.67
1:h:251:PRO:HB3	1:i:660:PRO:HG2	1.76	0.67
1:x:317:LYS:NZ	1:x:413:GLN:OE1	2.26	0.67
1:C:660:PRO:HG2	1:D:251:PRO:HB3	1.76	0.67
1:H:660:PRO:HG2	1:Z:251:PRO:HB3	1.76	0.67
1:S:251:PRO:HB3	1:d:660:PRO:HG2	1.76	0.67
1:j:251:PRO:HB3	1:x:660:PRO:HG2	1.76	0.67
1:K:251:PRO:HB3	1:L:660:PRO:HG2	1.76	0.67
1:K:660:PRO:HG2	1:7:251:PRO:HB3	1.76	0.67
1:p:660:PRO:HG2	1:6:251:PRO:HB3	1.76	0.67
1:F:660:PRO:HG2	1:R:251:PRO:HB3	1.76	0.67
1:L:251:PRO:HB3	1:b:660:PRO:HG2	1.76	0.67
1:M:251:PRO:HB3	1:N:660:PRO:HG2	1.76	0.67
1:O:251:PRO:HB3	1:P:660:PRO:HG2	1.76	0.67
1:O:660:PRO:HG2	1:d:251:PRO:HB3	1.76	0.67
1:a:317:LYS:NZ	1:a:413:GLN:OE1	2.26	0.67
1:c:660:PRO:HG2	1:s:251:PRO:HB3	1.77	0.67
1:l:317:LYS:NZ	1:l:413:GLN:OE1	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:317:LYS:NZ	1:6:413:GLN:OE1	2.26	0.67
1:R:317:LYS:NZ	1:R:413:GLN:OE1	2.26	0.66
1:t:660:PRO:HG2	1:y:251:PRO:HB3	1.75	0.66
1:U:251:PRO:HB3	1:e:660:PRO:HG2	1.76	0.66
1:n:660:PRO:HG2	1:r:251:PRO:HB3	1.76	0.66
1:H:251:PRO:HB3	1:I:660:PRO:HG2	1.76	0.66
1:N:251:PRO:HB3	1:m:660:PRO:HG2	1.76	0.66
1:r:660:PRO:HG2	1:x:251:PRO:HB3	1.76	0.66
1:u:660:PRO:HG2	1:5:251:PRO:HB3	1.76	0.66
1:v:660:PRO:HG2	1:1:251:PRO:HB3	1.76	0.66
1:A:251:PRO:HB3	1:E:660:PRO:HG2	1.77	0.66
1:B:660:PRO:HG2	1:C:251:PRO:HB3	1.76	0.66
1:I:251:PRO:HB3	1:J:660:PRO:HG2	1.76	0.66
1:T:660:PRO:HG2	1:i:251:PRO:HB3	1.76	0.66
1:t:657:PRO:HD2	1:y:678:THR:HG21	1.77	0.66
1:X:251:PRO:HB3	1:Y:660:PRO:HG2	1.76	0.66
1:v:251:PRO:HB3	1:w:660:PRO:HG2	1.76	0.66
1:X:660:PRO:HG2	1:f:251:PRO:HB3	1.76	0.66
1:g:660:PRO:HG2	1:k:251:PRO:HB3	1.76	0.66
1:q:251:PRO:HB3	1:y:660:PRO:HG2	1.76	0.66
1:z:660:PRO:HG2	1:4:251:PRO:HB3	1.76	0.66
1:3:251:PRO:HB3	1:8:660:PRO:HG2	1.76	0.66
1:G:251:PRO:HB3	1:W:660:PRO:HG2	1.76	0.66
1:T:678:THR:HG21	1:U:657:PRO:HD2	1.79	0.66
1:5:657:PRO:HD2	1:8:678:THR:HG21	1.78	0.66
1:Q:251:PRO:HB3	1:S:660:PRO:HG2	1.76	0.65
1:X:678:THR:HG21	1:Y:657:PRO:HD2	1.78	0.65
1:e:678:THR:HG21	1:h:657:PRO:HD2	1.79	0.65
1:Q:678:THR:HG21	1:S:657:PRO:HD2	1.79	0.65
1:V:660:PRO:HG2	1:W:251:PRO:HB3	1.76	0.65
1:o:251:PRO:HB3	1:7:660:PRO:HG2	1.76	0.65
1:o:678:THR:HG21	1:7:657:PRO:HD2	1.79	0.65
1:u:678:THR:HG21	1:2:657:PRO:HD2	1.79	0.65
1:v:678:THR:HG21	1:w:657:PRO:HD2	1.79	0.65
1:p:678:THR:HG21	1:q:657:PRO:HD2	1.79	0.65
1:A:657:PRO:HD2	1:B:678:THR:HG21	1.78	0.65
1:F:678:THR:HG21	1:G:657:PRO:HD2	1.79	0.65
1:v:657:PRO:HD2	1:1:678:THR:HG21	1.78	0.65
1:O:657:PRO:HD2	1:d:678:THR:HG21	1.79	0.65
1:O:678:THR:HG21	1:P:657:PRO:HD2	1.79	0.65
1:f:657:PRO:HD2	1:z:678:THR:HG21	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:678:THR:HG21	1:L:657:PRO:HD2	1.79	0.65
1:L:678:THR:HG21	1:b:657:PRO:HD2	1.79	0.65
1:U:678:THR:HG21	1:e:657:PRO:HD2	1.79	0.65
1:g:678:THR:HG21	1:l:657:PRO:HD2	1.79	0.65
1:k:660:PRO:HG2	1:w:251:PRO:HB3	1.77	0.65
1:u:657:PRO:HD2	1:5:678:THR:HG21	1.79	0.65
1:T:657:PRO:HD2	1:i:678:THR:HG21	1.79	0.65
1:k:657:PRO:HD2	1:w:678:THR:HG21	1.79	0.65
1:m:678:THR:HG21	1:s:657:PRO:HD2	1.78	0.65
1:G:678:THR:HG21	1:W:657:PRO:HD2	1.79	0.65
1:V:657:PRO:HD2	1:W:678:THR:HG21	1.79	0.65
1:X:657:PRO:HD2	1:f:678:THR:HG21	1.79	0.65
1:Y:251:PRO:HB3	1:4:660:PRO:HG2	1.77	0.65
1:Y:678:THR:HG21	1:4:657:PRO:HD2	1.79	0.65
1:3:678:THR:HG21	1:8:657:PRO:HD2	1.79	0.65
1:K:657:PRO:HD2	1:7:678:THR:HG21	1.79	0.64
1:j:657:PRO:HD2	1:l:678:THR:HG21	1.79	0.64
1:q:678:THR:HG21	1:y:657:PRO:HD2	1.79	0.64
1:z:657:PRO:HD2	1:4:678:THR:HG21	1.79	0.64
1:S:678:THR:HG21	1:d:657:PRO:HD2	1.79	0.64
1:Z:657:PRO:HD2	1:a:678:THR:HG21	1.79	0.64
1:g:657:PRO:HD2	1:k:678:THR:HG21	1.79	0.64
2:G2:43:LYS:HE3	2:W2:84:ASN:OD1	1.97	0.64
1:M:678:THR:HG21	1:N:657:PRO:HD2	1.79	0.64
1:g:505:TRP:O	1:g:510:LYS:NZ	2.30	0.64
1:z:505:TRP:O	1:z:510:LYS:NZ	2.30	0.64
2:V2:84:ASN:OD1	2:W2:43:LYS:HE3	1.98	0.64
2:32:37:PHE:HD1	2:32:47:PHE:HA	1.62	0.64
1:C:657:PRO:HD2	1:D:678:THR:HG21	1.79	0.64
1:L:505:TRP:O	1:L:510:LYS:NZ	2.30	0.64
2:i2:37:PHE:HD1	2:i2:47:PHE:HA	1.62	0.64
1:B:505:TRP:O	1:B:510:LYS:NZ	2.30	0.64
1:I:678:THR:HG21	1:J:657:PRO:HD2	1.79	0.64
1:O:505:TRP:O	1:O:510:LYS:NZ	2.30	0.64
2:Y2:37:PHE:HD1	2:Y2:47:PHE:HA	1.62	0.64
2:f2:37:PHE:HD1	2:f2:47:PHE:HA	1.62	0.64
2:f2:84:ASN:OD1	2:z2:43:LYS:HE3	1.98	0.64
1:c:657:PRO:HD2	1:s:678:THR:HG21	1.79	0.64
1:m:505:TRP:O	1:m:510:LYS:NZ	2.30	0.64
1:n:657:PRO:HD2	1:r:678:THR:HG21	1.79	0.64
2:K2:84:ASN:OD1	2:72:43:LYS:HE3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S2:43:LYS:HE3	2:d2:84:ASN:OD1	1.98	0.64
2:w2:37:PHE:HD1	2:w2:47:PHE:HA	1.62	0.64
1:H:678:THR:HG21	1:I:657:PRO:HD2	1.79	0.64
1:j:678:THR:HG21	1:x:657:PRO:HD2	1.79	0.64
1:r:657:PRO:HD2	1:x:678:THR:HG21	1.79	0.64
1:H:657:PRO:HD2	1:Z:678:THR:HG21	1.79	0.64
1:p:657:PRO:HD2	1:6:678:THR:HG21	1.79	0.64
2:B2:84:ASN:OD1	2:C2:43:LYS:HE3	1.98	0.64
2:q2:43:LYS:HE3	2:y2:84:ASN:OD1	1.98	0.64
2:12:37:PHE:HD1	2:12:47:PHE:HA	1.62	0.64
1:b:678:THR:HG21	1:o:657:PRO:HD2	1.79	0.64
1:q:505:TRP:O	1:q:510:LYS:NZ	2.30	0.64
2:H2:43:LYS:HE3	2:I2:84:ASN:OD1	1.98	0.64
2:N2:43:LYS:HE3	2:m2:84:ASN:OD1	1.98	0.64
2:r2:84:ASN:OD1	2:x2:43:LYS:HE3	1.98	0.64
1:F:657:PRO:HD2	1:R:678:THR:HG21	1.79	0.64
1:2:678:THR:HG21	1:3:657:PRO:HD2	1.79	0.64
2:M2:43:LYS:HE3	2:N2:84:ASN:OD1	1.98	0.64
1:A:678:THR:HG21	1:E:657:PRO:HD2	1.79	0.63
1:C:505:TRP:O	1:C:510:LYS:NZ	2.30	0.63
1:G:505:TRP:O	1:G:510:LYS:NZ	2.30	0.63
1:P:678:THR:HG21	1:Q:657:PRO:HD2	1.79	0.63
1:l:657:PRO:HD2	1:n:678:THR:HG21	1.79	0.63
2:C2:84:ASN:OD1	2:D2:43:LYS:HE3	1.98	0.63
2:52:37:PHE:HD1	2:52:47:PHE:HA	1.62	0.63
1:E:505:TRP:O	1:E:510:LYS:NZ	2.30	0.63
1:F:572:ASN:HD21	1:F:609:TRP:HB2	1.64	0.63
1:J:678:THR:HG21	1:a:657:PRO:HD2	1.79	0.63
1:M:657:PRO:HD2	1:c:678:THR:HG21	1.79	0.63
1:c:505:TRP:O	1:c:510:LYS:NZ	2.30	0.63
1:h:678:THR:HG21	1:i:657:PRO:HD2	1.79	0.63
2:O2:84:ASN:OD1	2:d2:43:LYS:HE3	1.99	0.63
1:N:505:TRP:O	1:N:510:LYS:NZ	2.30	0.63
1:Q:572:ASN:HD21	1:Q:609:TRP:HB2	1.64	0.63
1:g:549:ASN:HB3	2:12:29:HIS:CD2	2.33	0.63
1:o:572:ASN:HD21	1:o:609:TRP:HB2	1.64	0.63
1:p:572:ASN:HD21	1:p:609:TRP:HB2	1.64	0.63
2:X2:37:PHE:HD1	2:X2:47:PHE:HA	1.62	0.63
1:D:657:PRO:HD2	1:E:678:THR:HG21	1.79	0.63
1:3:572:ASN:HD21	1:3:609:TRP:HB2	1.64	0.63
2:K2:43:LYS:HE3	2:L2:84:ASN:OD1	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U2:37:PHE:HD1	2:U2:47:PHE:HA	1.62	0.63
1:b:572:ASN:HD21	1:b:609:TRP:HB2	1.64	0.63
1:i:572:ASN:HD21	1:i:609:TRP:HB2	1.64	0.63
2:t2:84:ASN:OD1	2:y2:43:LYS:HE3	1.99	0.63
2:v2:37:PHE:HD1	2:v2:47:PHE:HA	1.62	0.63
1:J:505:TRP:O	1:J:510:LYS:NZ	2.30	0.63
1:P:572:ASN:HD21	1:P:609:TRP:HB2	1.64	0.63
1:R:657:PRO:HD2	1:V:678:THR:HG21	1.79	0.63
1:Y:572:ASN:HD21	1:Y:609:TRP:HB2	1.64	0.63
1:Z:505:TRP:O	1:Z:510:LYS:NZ	2.30	0.63
1:n:255:ASN:HB3	2:n2:101:THR:HG21	1.81	0.63
1:w:572:ASN:HD21	1:w:609:TRP:HB2	1.64	0.63
1:1:572:ASN:HD21	1:1:609:TRP:HB2	1.64	0.63
1:G:572:ASN:HD21	1:G:609:TRP:HB2	1.64	0.63
1:J:255:ASN:HB3	2:J2:101:THR:HG21	1.81	0.63
1:J:572:ASN:HD21	1:J:609:TRP:HB2	1.64	0.63
1:f:572:ASN:HD21	1:f:609:TRP:HB2	1.64	0.63
1:j:505:TRP:O	1:j:510:LYS:NZ	2.30	0.63
1:j:572:ASN:HD21	1:j:609:TRP:HB2	1.64	0.63
1:3:505:TRP:O	1:3:510:LYS:NZ	2.30	0.63
2:I2:43:LYS:HE3	2:J2:84:ASN:OD1	1.99	0.63
2:L2:37:PHE:HD1	2:L2:47:PHE:HA	1.62	0.63
2:X2:84:ASN:OD1	2:f2:43:LYS:HE3	1.98	0.63
2:a2:37:PHE:HD1	2:a2:47:PHE:HA	1.62	0.63
2:q2:37:PHE:HD1	2:q2:47:PHE:HA	1.62	0.63
1:D:505:TRP:O	1:D:510:LYS:NZ	2.30	0.63
1:V:572:ASN:HD21	1:V:609:TRP:HB2	1.64	0.63
1:Y:505:TRP:O	1:Y:510:LYS:NZ	2.30	0.63
1:Z:572:ASN:HD21	1:Z:609:TRP:HB2	1.64	0.63
1:h:572:ASN:HD21	1:h:609:TRP:HB2	1.64	0.63
1:m:255:ASN:HB3	2:m2:101:THR:HG21	1.81	0.63
1:n:505:TRP:O	1:n:510:LYS:NZ	2.30	0.63
1:n:572:ASN:HD21	1:n:609:TRP:HB2	1.64	0.63
1:w:505:TRP:O	1:w:510:LYS:NZ	2.30	0.63
1:2:572:ASN:HD21	1:2:609:TRP:HB2	1.64	0.63
1:8:505:TRP:O	1:8:510:LYS:NZ	2.30	0.63
2:l2:37:PHE:HD1	2:l2:47:PHE:HA	1.62	0.63
2:n2:84:ASN:OD1	2:r2:43:LYS:HE3	1.99	0.63
2:52:84:ASN:OD1	2:82:43:LYS:HE3	1.98	0.63
1:B:255:ASN:HB3	2:B2:101:THR:HG21	1.81	0.63
1:B:657:PRO:HD2	1:C:678:THR:HG21	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:572:ASN:HD21	1:I:609:TRP:HB2	1.64	0.63
1:K:384:ASN:OD1	1:K:516:ARG:NH2	2.32	0.63
1:R:572:ASN:HD21	1:R:609:TRP:HB2	1.64	0.63
1:T:505:TRP:O	1:T:510:LYS:NZ	2.30	0.63
1:d:384:ASN:OD1	1:d:516:ARG:NH2	2.32	0.63
1:i:505:TRP:O	1:i:510:LYS:NZ	2.30	0.63
1:q:572:ASN:HD21	1:q:609:TRP:HB2	1.64	0.63
1:r:572:ASN:HD21	1:r:609:TRP:HB2	1.64	0.63
1:t:572:ASN:HD21	1:t:609:TRP:HB2	1.64	0.63
1:t:678:THR:HG21	1:6:657:PRO:HD2	1.79	0.63
1:6:572:ASN:HD21	1:6:609:TRP:HB2	1.64	0.63
2:O2:37:PHE:HD1	2:O2:47:PHE:HA	1.62	0.63
1:D:384:ASN:OD1	1:D:516:ARG:NH2	2.32	0.62
1:G:384:ASN:OD1	1:G:516:ARG:NH2	2.32	0.62
1:M:384:ASN:OD1	1:M:516:ARG:NH2	2.32	0.62
1:M:505:TRP:O	1:M:510:LYS:NZ	2.30	0.62
1:b:505:TRP:O	1:b:510:LYS:NZ	2.30	0.62
1:q:384:ASN:OD1	1:q:516:ARG:NH2	2.32	0.62
1:v:255:ASN:HB3	2:v2:101:THR:HG21	1.81	0.62
2:G2:37:PHE:HD1	2:G2:47:PHE:HA	1.63	0.62
2:T2:43:LYS:HE3	2:U2:84:ASN:OD1	1.98	0.62
2:Y2:43:LYS:HE3	2:42:84:ASN:OD1	1.99	0.62
2:h2:43:LYS:HE3	2:i2:84:ASN:OD1	1.99	0.62
2:k2:84:ASN:OD1	2:w2:43:LYS:HE3	1.99	0.62
1:B:384:ASN:OD1	1:B:516:ARG:NH2	2.32	0.62
1:F:505:TRP:O	1:F:510:LYS:NZ	2.30	0.62
1:K:572:ASN:HD21	1:K:609:TRP:HB2	1.64	0.62
1:N:678:THR:HG21	1:m:657:PRO:HD2	1.79	0.62
1:S:505:TRP:O	1:S:510:LYS:NZ	2.30	0.62
1:c:384:ASN:OD1	1:c:516:ARG:NH2	2.32	0.62
1:e:384:ASN:OD1	1:e:516:ARG:NH2	2.32	0.62
1:g:572:ASN:HD21	1:g:609:TRP:HB2	1.64	0.62
1:i:384:ASN:OD1	1:i:516:ARG:NH2	2.32	0.62
1:s:572:ASN:HD21	1:s:609:TRP:HB2	1.64	0.62
1:z:572:ASN:HD21	1:z:609:TRP:HB2	1.64	0.62
1:3:384:ASN:OD1	1:3:516:ARG:NH2	2.32	0.62
2:Z2:84:ASN:OD1	2:a2:43:LYS:HE3	1.99	0.62
2:j2:84:ASN:OD1	2:l2:43:LYS:HE3	1.99	0.62
2:22:43:LYS:HE3	2:32:84:ASN:OD1	1.99	0.62
1:A:384:ASN:OD1	1:A:516:ARG:NH2	2.32	0.62
1:E:384:ASN:OD1	1:E:516:ARG:NH2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:572:ASN:HD21	1:E:609:TRP:HB2	1.64	0.62
1:F:384:ASN:OD1	1:F:516:ARG:NH2	2.32	0.62
1:P:505:TRP:O	1:P:510:LYS:NZ	2.30	0.62
1:W:384:ASN:OD1	1:W:516:ARG:NH2	2.32	0.62
1:e:255:ASN:HB3	2:e2:101:THR:HG21	1.81	0.62
1:m:384:ASN:OD1	1:m:516:ARG:NH2	2.32	0.62
1:p:384:ASN:OD1	1:p:516:ARG:NH2	2.32	0.62
1:s:384:ASN:OD1	1:s:516:ARG:NH2	2.32	0.62
1:u:384:ASN:OD1	1:u:516:ARG:NH2	2.32	0.62
1:y:384:ASN:OD1	1:y:516:ARG:NH2	2.32	0.62
1:7:572:ASN:HD21	1:7:609:TRP:HB2	1.64	0.62
1:8:572:ASN:HD21	1:8:609:TRP:HB2	1.64	0.62
2:D2:37:PHE:HD1	2:D2:47:PHE:HA	1.62	0.62
2:72:37:PHE:HD1	2:72:47:PHE:HA	1.62	0.62
1:S:384:ASN:OD1	1:S:516:ARG:NH2	2.32	0.62
1:X:255:ASN:HB3	2:X2:101:THR:HG21	1.81	0.62
1:d:572:ASN:HD21	1:d:609:TRP:HB2	1.64	0.62
1:f:384:ASN:OD1	1:f:516:ARG:NH2	2.32	0.62
1:p:505:TRP:O	1:p:510:LYS:NZ	2.30	0.62
1:u:255:ASN:HB3	2:u2:101:THR:HG21	1.81	0.62
1:u:505:TRP:O	1:u:510:LYS:NZ	2.30	0.62
1:1:384:ASN:OD1	1:1:516:ARG:NH2	2.32	0.62
1:4:384:ASN:OD1	1:4:516:ARG:NH2	2.32	0.62
1:4:572:ASN:HD21	1:4:609:TRP:HB2	1.64	0.62
1:7:384:ASN:OD1	1:7:516:ARG:NH2	2.32	0.62
1:C:384:ASN:OD1	1:C:516:ARG:NH2	2.32	0.62
1:H:384:ASN:OD1	1:H:516:ARG:NH2	2.32	0.62
1:J:384:ASN:OD1	1:J:516:ARG:NH2	2.32	0.62
1:S:572:ASN:HD21	1:S:609:TRP:HB2	1.64	0.62
1:T:572:ASN:HD21	1:T:609:TRP:HB2	1.64	0.62
1:c:572:ASN:HD21	1:c:609:TRP:HB2	1.64	0.62
1:e:505:TRP:O	1:e:510:LYS:NZ	2.30	0.62
1:k:384:ASN:OD1	1:k:516:ARG:NH2	2.32	0.62
1:k:572:ASN:HD21	1:k:609:TRP:HB2	1.64	0.62
1:x:384:ASN:OD1	1:x:516:ARG:NH2	2.32	0.62
1:z:384:ASN:OD1	1:z:516:ARG:NH2	2.32	0.62
1:7:505:TRP:O	1:7:510:LYS:NZ	2.30	0.62
2:R2:84:ASN:OD1	2:V2:43:LYS:HE3	2.00	0.62
2:p2:84:ASN:OD1	2:62:43:LYS:HE3	1.99	0.62
2:t2:43:LYS:HE3	2:62:84:ASN:OD1	2.00	0.62
1:A:572:ASN:HD21	1:A:609:TRP:HB2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:572:ASN:HD21	1:C:609:TRP:HB2	1.64	0.62
1:H:505:TRP:O	1:H:510:LYS:NZ	2.30	0.62
1:H:572:ASN:HD21	1:H:609:TRP:HB2	1.64	0.62
1:K:505:TRP:O	1:K:510:LYS:NZ	2.30	0.62
1:M:572:ASN:HD21	1:M:609:TRP:HB2	1.64	0.62
1:N:384:ASN:OD1	1:N:516:ARG:NH2	2.32	0.62
1:N:572:ASN:HD21	1:N:609:TRP:HB2	1.64	0.62
1:U:572:ASN:HD21	1:U:609:TRP:HB2	1.64	0.62
1:b:384:ASN:OD1	1:b:516:ARG:NH2	2.32	0.62
1:d:505:TRP:O	1:d:510:LYS:NZ	2.30	0.62
1:g:384:ASN:OD1	1:g:516:ARG:NH2	2.32	0.62
1:n:384:ASN:OD1	1:n:516:ARG:NH2	2.32	0.62
1:o:384:ASN:OD1	1:o:516:ARG:NH2	2.32	0.62
1:u:572:ASN:HD21	1:u:609:TRP:HB2	1.64	0.62
1:x:572:ASN:HD21	1:x:609:TRP:HB2	1.64	0.62
2:F2:84:ASN:OD1	2:R2:43:LYS:HE3	1.99	0.62
2:b2:43:LYS:HE3	2:o2:84:ASN:OD1	1.99	0.62
2:c2:84:ASN:OD1	2:s2:43:LYS:HE3	1.99	0.62
1:P:255:ASN:HB3	2:P2:101:THR:HG21	1.82	0.62
1:Q:384:ASN:OD1	1:Q:516:ARG:NH2	2.32	0.62
1:Y:384:ASN:OD1	1:Y:516:ARG:NH2	2.32	0.62
1:e:572:ASN:HD21	1:e:609:TRP:HB2	1.64	0.62
1:y:255:ASN:HB3	2:y2:101:THR:HG21	1.82	0.62
2:J2:37:PHE:CD1	2:J2:47:PHE:CA	2.82	0.62
2:M2:37:PHE:HD1	2:M2:47:PHE:HA	1.62	0.62
2:u2:43:LYS:HE3	2:22:84:ASN:OD1	2.00	0.62
2:z2:84:ASN:OD1	2:42:43:LYS:HE3	2.00	0.62
1:A:505:TRP:O	1:A:510:LYS:NZ	2.30	0.62
1:B:572:ASN:HD21	1:B:609:TRP:HB2	1.64	0.62
1:D:572:ASN:HD21	1:D:609:TRP:HB2	1.64	0.62
1:P:384:ASN:OD1	1:P:516:ARG:NH2	2.32	0.62
1:b:255:ASN:HB3	2:b2:101:THR:HG21	1.82	0.62
1:j:384:ASN:OD1	1:j:516:ARG:NH2	2.32	0.62
1:m:572:ASN:HD21	1:m:609:TRP:HB2	1.64	0.62
1:p:255:ASN:HB3	2:p2:101:THR:HG21	1.82	0.62
1:t:255:ASN:HB3	2:t2:101:THR:HG21	1.80	0.62
1:v:384:ASN:OD1	1:v:516:ARG:NH2	2.32	0.62
1:3:255:ASN:HB3	2:32:101:THR:HG21	1.82	0.62
1:5:572:ASN:HD21	1:5:609:TRP:HB2	1.64	0.62
2:H2:37:PHE:HD1	2:H2:47:PHE:HA	1.62	0.62
2:O2:43:LYS:HE3	2:P2:84:ASN:OD1	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P2:43:LYS:HE3	2:Q2:84:ASN:OD1	1.99	0.62
2:Q2:43:LYS:HE3	2:S2:84:ASN:OD1	1.99	0.62
2:e2:43:LYS:HE3	2:h2:84:ASN:OD1	2.00	0.62
2:n2:37:PHE:CD1	2:n2:47:PHE:CA	2.82	0.62
1:F:255:ASN:HB3	2:F2:101:THR:HG21	1.82	0.62
1:X:384:ASN:OD1	1:X:516:ARG:NH2	2.32	0.62
1:Z:384:ASN:OD1	1:Z:516:ARG:NH2	2.32	0.62
1:w:384:ASN:OD1	1:w:516:ARG:NH2	2.32	0.62
1:x:505:TRP:O	1:x:510:LYS:NZ	2.30	0.62
2:L2:43:LYS:HE3	2:b2:84:ASN:OD1	2.00	0.62
2:P2:37:PHE:HD1	2:P2:47:PHE:HA	1.62	0.62
2:g2:84:ASN:OD1	2:k2:43:LYS:HE3	2.00	0.62
2:v2:43:LYS:HE3	2:w2:84:ASN:OD1	2.00	0.62
1:U:255:ASN:HB3	2:U2:101:THR:HG21	1.82	0.62
1:U:384:ASN:OD1	1:U:516:ARG:NH2	2.32	0.62
1:Y:255:ASN:HB3	2:Y2:101:THR:HG21	1.82	0.62
1:i:255:ASN:HB3	2:i2:101:THR:HG21	1.82	0.62
1:o:255:ASN:HB3	2:o2:101:THR:HG21	1.82	0.62
2:A2:43:LYS:HE3	2:E2:84:ASN:OD1	2.00	0.62
2:m2:37:PHE:HD1	2:m2:47:PHE:HA	1.62	0.62
2:o2:43:LYS:HE3	2:72:84:ASN:OD1	2.00	0.62
1:A:255:ASN:HB3	2:A2:101:THR:HG21	1.82	0.61
1:L:255:ASN:HB3	2:L2:101:THR:HG21	1.81	0.61
1:L:572:ASN:HD21	1:L:609:TRP:HB2	1.64	0.61
1:O:572:ASN:HD21	1:O:609:TRP:HB2	1.64	0.61
1:Q:255:ASN:HB3	2:Q2:101:THR:HG21	1.82	0.61
1:V:505:TRP:O	1:V:510:LYS:NZ	2.30	0.61
1:W:255:ASN:HB3	2:W2:101:THR:HG21	1.82	0.61
1:a:384:ASN:OD1	1:a:516:ARG:NH2	2.32	0.61
1:w:255:ASN:HB3	2:w2:101:THR:HG21	1.82	0.61
1:4:505:TRP:O	1:4:510:LYS:NZ	2.30	0.61
1:5:255:ASN:HB3	2:52:101:THR:HG21	1.82	0.61
2:P2:48:VAL:HG13	2:P2:64:VAL:HG21	1.82	0.61
2:Q2:37:PHE:HD1	2:Q2:47:PHE:HA	1.62	0.61
2:V2:37:PHE:CD1	2:V2:47:PHE:CA	2.82	0.61
2:X2:43:LYS:HE3	2:Y2:84:ASN:OD1	2.00	0.61
2:b2:48:VAL:HG13	2:b2:64:VAL:HG21	1.82	0.61
2:c2:37:PHE:CD1	2:c2:47:PHE:CA	2.82	0.61
2:o2:37:PHE:HD1	2:o2:47:PHE:HA	1.62	0.61
2:v2:37:PHE:CD1	2:v2:47:PHE:CA	2.82	0.61
2:82:48:VAL:HG13	2:82:64:VAL:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:255:ASN:HB3	2:I2:101:THR:HG21	1.82	0.61
1:N:255:ASN:HB3	2:N2:101:THR:HG21	1.82	0.61
1:O:255:ASN:HB3	2:O2:101:THR:HG21	1.81	0.61
1:R:384:ASN:OD1	1:R:516:ARG:NH2	2.32	0.61
1:T:384:ASN:OD1	1:T:516:ARG:NH2	2.32	0.61
1:l:384:ASN:OD1	1:l:516:ARG:NH2	2.32	0.61
1:s:505:TRP:O	1:s:510:LYS:NZ	2.30	0.61
1:y:505:TRP:O	1:y:510:LYS:NZ	2.30	0.61
1:5:384:ASN:OD1	1:5:516:ARG:NH2	2.32	0.61
2:B2:37:PHE:HD1	2:B2:47:PHE:HA	1.62	0.61
2:E2:37:PHE:CD1	2:E2:47:PHE:CA	2.82	0.61
2:I2:48:VAL:HG13	2:I2:64:VAL:HG21	1.83	0.61
2:R2:48:VAL:HG13	2:R2:64:VAL:HG21	1.83	0.61
2:T2:48:VAL:HG13	2:T2:64:VAL:HG21	1.82	0.61
2:T2:84:ASN:OD1	2:i2:43:LYS:HE3	2.00	0.61
2:X2:37:PHE:CD1	2:X2:47:PHE:CA	2.82	0.61
2:r2:48:VAL:HG13	2:r2:64:VAL:HG21	1.83	0.61
2:t2:37:PHE:CD1	2:t2:47:PHE:CA	2.82	0.61
2:x2:37:PHE:HD1	2:x2:47:PHE:HA	1.62	0.61
2:62:48:VAL:HG13	2:62:64:VAL:HG21	1.83	0.61
1:I:384:ASN:OD1	1:I:516:ARG:NH2	2.32	0.61
1:L:384:ASN:OD1	1:L:516:ARG:NH2	2.32	0.61
1:O:384:ASN:OD1	1:O:516:ARG:NH2	2.32	0.61
1:W:505:TRP:O	1:W:510:LYS:NZ	2.30	0.61
1:X:572:ASN:HD21	1:X:609:TRP:HB2	1.64	0.61
1:h:384:ASN:OD1	1:h:516:ARG:NH2	2.32	0.61
1:k:505:TRP:O	1:k:510:LYS:NZ	2.30	0.61
1:r:255:ASN:HB3	2:r2:101:THR:HG21	1.82	0.61
1:v:572:ASN:HD21	1:v:609:TRP:HB2	1.64	0.61
1:y:572:ASN:HD21	1:y:609:TRP:HB2	1.64	0.61
1:2:384:ASN:OD1	1:2:516:ARG:NH2	2.32	0.61
1:8:384:ASN:OD1	1:8:516:ARG:NH2	2.32	0.61
2:D2:84:ASN:OD1	2:E2:43:LYS:HE3	2.00	0.61
2:M2:84:ASN:OD1	2:c2:43:LYS:HE3	2.00	0.61
2:l2:84:ASN:OD1	2:n2:43:LYS:HE3	2.00	0.61
2:32:43:LYS:HE3	2:82:84:ASN:OD1	2.00	0.61
1:C:255:ASN:HB3	2:C2:101:THR:HG21	1.82	0.61
1:W:572:ASN:HD21	1:W:609:TRP:HB2	1.64	0.61
1:k:255:ASN:HB3	2:k2:101:THR:HG21	1.82	0.61
1:t:505:TRP:O	1:t:510:LYS:NZ	2.30	0.61
1:6:384:ASN:OD1	1:6:516:ARG:NH2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D2:48:VAL:HG13	2:D2:64:VAL:HG21	1.82	0.61
2:F2:43:LYS:HE3	2:G2:84:ASN:OD1	2.00	0.61
2:M2:48:VAL:HG13	2:M2:64:VAL:HG21	1.82	0.61
2:N2:37:PHE:HD1	2:N2:47:PHE:HA	1.62	0.61
2:e2:48:VAL:HG13	2:e2:64:VAL:HG21	1.82	0.61
2:g2:48:VAL:HG13	2:g2:64:VAL:HG21	1.82	0.61
2:p2:43:LYS:HE3	2:q2:84:ASN:OD1	2.00	0.61
2:z2:48:VAL:HG13	2:z2:64:VAL:HG21	1.82	0.61
1:V:384:ASN:OD1	1:V:516:ARG:NH2	2.32	0.61
1:r:384:ASN:OD1	1:r:516:ARG:NH2	2.32	0.61
1:4:255:ASN:HB3	2:42:101:THR:HG21	1.82	0.61
2:H2:48:VAL:HG13	2:H2:64:VAL:HG21	1.82	0.61
2:J2:43:LYS:HE3	2:a2:84:ASN:OD1	2.00	0.61
2:x2:48:VAL:HG13	2:x2:64:VAL:HG21	1.82	0.61
2:22:48:VAL:HG13	2:22:64:VAL:HG21	1.82	0.61
1:a:572:ASN:HD21	1:a:609:TRP:HB2	1.64	0.61
1:t:384:ASN:OD1	1:t:516:ARG:NH2	2.32	0.61
2:C2:37:PHE:HD1	2:C2:47:PHE:HA	1.62	0.61
2:R2:37:PHE:HD1	2:R2:47:PHE:HA	1.62	0.61
2:U2:43:LYS:HE3	2:e2:84:ASN:OD1	1.99	0.61
2:h2:48:VAL:HG13	2:h2:64:VAL:HG21	1.82	0.61
2:n2:48:VAL:HG13	2:n2:64:VAL:HG21	1.82	0.61
1:l:572:ASN:HD21	1:l:609:TRP:HB2	1.64	0.61
1:s:255:ASN:HB3	2:s2:101:THR:HG21	1.82	0.61
2:J2:48:VAL:HG13	2:J2:64:VAL:HG21	1.82	0.61
2:V2:48:VAL:HG13	2:V2:64:VAL:HG21	1.82	0.61
2:c2:48:VAL:HG13	2:c2:64:VAL:HG21	1.83	0.61
2:q2:48:VAL:HG13	2:q2:64:VAL:HG21	1.82	0.61
2:s2:48:VAL:HG13	2:s2:64:VAL:HG21	1.82	0.61
2:u2:48:VAL:HG13	2:u2:64:VAL:HG21	1.83	0.61
1:Z:255:ASN:HB3	2:Z2:101:THR:HG21	1.82	0.61
1:a:255:ASN:HB3	2:a2:101:THR:HG21	1.82	0.61
1:j:255:ASN:HB3	2:j2:101:THR:HG21	1.82	0.61
2:A2:48:VAL:HG13	2:A2:64:VAL:HG21	1.83	0.61
2:E2:48:VAL:HG13	2:E2:64:VAL:HG21	1.83	0.61
2:G2:48:VAL:HG13	2:G2:64:VAL:HG21	1.83	0.61
2:H2:84:ASN:OD1	2:Z2:43:LYS:HE3	2.00	0.61
2:N2:48:VAL:HG13	2:N2:64:VAL:HG21	1.82	0.61
2:O2:48:VAL:HG13	2:O2:64:VAL:HG21	1.82	0.61
2:j2:43:LYS:HE3	2:x2:84:ASN:OD1	2.00	0.61
2:m2:43:LYS:HE3	2:s2:84:ASN:OD1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:t2:48:VAL:HG13	2:t2:64:VAL:HG21	1.83	0.61
2:u2:84:ASN:OD1	2:52:43:LYS:HE3	1.99	0.61
2:72:48:VAL:HG13	2:72:64:VAL:HG21	1.82	0.61
2:K2:48:VAL:HG13	2:K2:64:VAL:HG21	1.83	0.61
2:L2:48:VAL:HG13	2:L2:64:VAL:HG21	1.82	0.61
2:S2:48:VAL:HG13	2:S2:64:VAL:HG21	1.83	0.61
2:y2:48:VAL:HG13	2:y2:64:VAL:HG21	1.83	0.61
1:V:255:ASN:HB3	2:V2:101:THR:HG21	1.81	0.61
1:d:255:ASN:HB3	2:d2:101:THR:HG21	1.82	0.61
1:l:255:ASN:HB3	2:l2:101:THR:HG21	1.82	0.61
2:C2:48:VAL:HG13	2:C2:64:VAL:HG21	1.83	0.61
2:W2:48:VAL:HG13	2:W2:64:VAL:HG21	1.83	0.61
2:Y2:48:VAL:HG13	2:Y2:64:VAL:HG21	1.82	0.61
2:a2:48:VAL:HG13	2:a2:64:VAL:HG21	1.83	0.61
2:d2:48:VAL:HG13	2:d2:64:VAL:HG21	1.83	0.61
2:i2:37:PHE:CD1	2:i2:47:PHE:CA	2.82	0.61
2:j2:37:PHE:CD1	2:j2:47:PHE:CA	2.82	0.61
2:l2:48:VAL:HG13	2:l2:64:VAL:HG21	1.83	0.61
2:62:37:PHE:HD1	2:62:47:PHE:HA	1.62	0.61
1:D:255:ASN:HB3	2:D2:101:THR:HG21	1.83	0.60
1:E:255:ASN:HB3	2:E2:101:THR:HG21	1.82	0.60
1:c:255:ASN:HB3	2:c2:101:THR:HG21	1.82	0.60
1:q:255:ASN:HB3	2:q2:101:THR:HG21	1.83	0.60
2:A2:84:ASN:OD1	2:B2:43:LYS:HE3	2.00	0.60
2:Q2:48:VAL:HG13	2:Q2:64:VAL:HG21	1.83	0.60
2:h2:37:PHE:HD1	2:h2:47:PHE:HA	1.62	0.60
2:w2:48:VAL:HG13	2:w2:64:VAL:HG21	1.83	0.60
2:32:37:PHE:CD1	2:32:47:PHE:CA	2.82	0.60
1:G:255:ASN:HB3	2:G2:101:THR:HG21	1.83	0.60
1:M:255:ASN:HB3	2:M2:101:THR:HG21	1.83	0.60
2:Z2:37:PHE:CD1	2:Z2:47:PHE:CA	2.82	0.60
2:x2:37:PHE:CD1	2:x2:47:PHE:CA	2.82	0.60
2:82:37:PHE:HD1	2:82:47:PHE:HA	1.62	0.60
1:K:255:ASN:HB3	2:K2:101:THR:HG21	1.82	0.60
2:B2:48:VAL:HG13	2:B2:64:VAL:HG21	1.82	0.60
2:N2:37:PHE:CD1	2:N2:47:PHE:CA	2.82	0.60
2:O2:37:PHE:CD1	2:O2:47:PHE:CA	2.82	0.60
2:m2:48:VAL:HG13	2:m2:64:VAL:HG21	1.83	0.60
2:H2:37:PHE:CD1	2:H2:47:PHE:CA	2.82	0.60
2:U2:48:VAL:HG13	2:U2:64:VAL:HG21	1.83	0.60
2:X2:48:VAL:HG13	2:X2:64:VAL:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:22:37:PHE:HD1	2:22:47:PHE:HA	1.62	0.60
2:L2:37:PHE:CD1	2:L2:47:PHE:CA	2.82	0.60
2:o2:48:VAL:HG13	2:o2:64:VAL:HG21	1.83	0.60
2:p2:48:VAL:HG13	2:p2:64:VAL:HG21	1.83	0.60
1:I:505:TRP:O	1:I:510:LYS:NZ	2.30	0.60
1:h:255:ASN:HB3	2:h2:101:THR:HG21	1.82	0.60
1:2:255:ASN:HB3	2:22:101:THR:HG21	1.82	0.60
2:C2:37:PHE:CD1	2:C2:47:PHE:CA	2.82	0.60
2:T2:37:PHE:HD1	2:T2:47:PHE:HA	1.62	0.60
2:v2:48:VAL:HG13	2:v2:64:VAL:HG21	1.83	0.60
1:a:505:TRP:O	1:a:510:LYS:NZ	2.30	0.60
1:r:505:TRP:O	1:r:510:LYS:NZ	2.30	0.60
1:v:505:TRP:O	1:v:510:LYS:NZ	2.30	0.60
1:6:255:ASN:HB3	2:62:101:THR:HG21	1.82	0.60
2:F2:48:VAL:HG13	2:F2:64:VAL:HG21	1.83	0.60
2:d2:37:PHE:HD1	2:d2:47:PHE:HA	1.62	0.60
2:r2:37:PHE:CD1	2:r2:47:PHE:CA	2.82	0.60
2:32:48:VAL:HG13	2:32:64:VAL:HG21	1.82	0.60
2:52:48:VAL:HG13	2:52:64:VAL:HG21	1.83	0.60
2:b2:37:PHE:CD1	2:b2:47:PHE:CA	2.82	0.60
2:f2:48:VAL:HG13	2:f2:64:VAL:HG21	1.83	0.60
1:Q:505:TRP:O	1:Q:510:LYS:NZ	2.30	0.60
1:X:505:TRP:O	1:X:510:LYS:NZ	2.30	0.60
1:f:255:ASN:HB3	2:f2:101:THR:HG21	1.82	0.60
2:s2:37:PHE:CD1	2:s2:47:PHE:CA	2.82	0.60
2:z2:37:PHE:HD1	2:z2:47:PHE:HA	1.62	0.60
2:42:37:PHE:HD1	2:42:47:PHE:HA	1.62	0.60
1:l:505:TRP:O	1:l:510:LYS:NZ	2.30	0.60
1:o:505:TRP:O	1:o:510:LYS:NZ	2.30	0.60
2:I2:37:PHE:CD1	2:I2:47:PHE:CA	2.82	0.60
2:g2:37:PHE:CD1	2:g2:47:PHE:CA	2.82	0.60
2:u2:37:PHE:CD1	2:u2:47:PHE:CA	2.82	0.60
2:z2:37:PHE:CD1	2:z2:47:PHE:CA	2.82	0.60
2:12:48:VAL:HG13	2:12:64:VAL:HG21	1.82	0.60
1:R:255:ASN:HB3	2:R2:101:THR:HG21	1.82	0.59
1:5:505:TRP:O	1:5:510:LYS:NZ	2.30	0.59
2:A2:37:PHE:CD1	2:A2:47:PHE:CA	2.82	0.59
2:P2:37:PHE:CD1	2:P2:47:PHE:CA	2.82	0.59
2:K2:37:PHE:HD1	2:K2:47:PHE:HA	1.62	0.59
2:e2:37:PHE:CD1	2:e2:47:PHE:CA	2.82	0.59
2:i2:48:VAL:HG13	2:i2:64:VAL:HG21	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l2:37:PHE:CD1	2:l2:47:PHE:CA	2.82	0.59
2:w2:37:PHE:CD1	2:w2:47:PHE:CA	2.82	0.59
1:U:505:TRP:O	1:U:510:LYS:NZ	2.30	0.59
2:g2:37:PHE:HD1	2:g2:47:PHE:HA	1.62	0.59
2:k2:37:PHE:HD1	2:k2:47:PHE:HA	1.62	0.59
1:h:505:TRP:O	1:h:510:LYS:NZ	2.30	0.59
2:E2:64:VAL:HG13	2:E2:68:PHE:HD2	1.67	0.59
2:Y2:37:PHE:CD1	2:Y2:47:PHE:CA	2.82	0.59
2:j2:48:VAL:HG13	2:j2:64:VAL:HG21	1.83	0.59
1:g:255:ASN:HB3	2:g2:101:THR:HG21	1.83	0.59
1:z:255:ASN:HB3	2:z2:101:THR:HG21	1.83	0.59
1:6:505:TRP:O	1:6:510:LYS:NZ	2.30	0.59
2:a2:37:PHE:CD1	2:a2:47:PHE:CA	2.82	0.59
1:R:505:TRP:O	1:R:510:LYS:NZ	2.30	0.59
1:T:255:ASN:HB3	2:T2:101:THR:HG21	1.83	0.59
1:g:549:ASN:HB3	2:12:29:HIS:HD2	1.66	0.59
1:2:674:THR:H	2:22:104:SER:HG	1.49	0.59
1:8:255:ASN:HB3	2:82:101:THR:HG21	1.83	0.59
2:l2:37:PHE:HD1	2:l2:47:PHE:HA	1.62	0.59
2:Z2:48:VAL:HG13	2:Z2:64:VAL:HG21	1.83	0.59
2:A2:64:VAL:HG13	2:A2:68:PHE:HD2	1.67	0.59
1:H:255:ASN:HB3	2:H2:101:THR:HG21	1.83	0.59
1:S:255:ASN:HB3	2:S2:101:THR:HG21	1.83	0.59
1:7:255:ASN:HB3	2:72:101:THR:HG21	1.83	0.59
2:L2:64:VAL:HG13	2:L2:68:PHE:HD2	1.67	0.59
2:g2:43:LYS:HE3	2:12:84:ASN:OD1	2.03	0.59
2:k2:37:PHE:CD1	2:k2:47:PHE:CA	2.82	0.59
2:42:37:PHE:CD1	2:42:47:PHE:CA	2.82	0.59
2:52:37:PHE:CD1	2:52:47:PHE:CA	2.82	0.59
1:x:255:ASN:HB3	2:x2:101:THR:HG21	1.83	0.59
1:2:505:TRP:O	1:2:510:LYS:NZ	2.30	0.59
2:O2:64:VAL:HG13	2:O2:68:PHE:HD2	1.68	0.59
2:y2:37:PHE:CD1	2:y2:47:PHE:CA	2.82	0.59
1:f:505:TRP:O	1:f:510:LYS:NZ	2.30	0.58
1:n:674:THR:H	2:n2:104:SER:HG	1.50	0.58
2:U2:37:PHE:CD1	2:U2:47:PHE:CA	2.82	0.58
2:r2:37:PHE:HD1	2:r2:47:PHE:HA	1.62	0.58
2:s2:64:VAL:HG13	2:s2:68:PHE:HD2	1.68	0.58
2:42:48:VAL:HG13	2:42:64:VAL:HG21	1.83	0.58
2:S2:4:ILE:HG23	2:S2:22:CYS:SG	2.44	0.58
2:W2:4:ILE:HG23	2:W2:22:CYS:SG	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W2:37:PHE:CD1	2:W2:47:PHE:CA	2.82	0.58
2:k2:48:VAL:HG13	2:k2:64:VAL:HG21	1.82	0.58
2:p2:37:PHE:CD1	2:p2:47:PHE:CA	2.82	0.58
2:72:4:ILE:HG23	2:72:22:CYS:SG	2.44	0.58
1:1:505:TRP:O	1:1:510:LYS:NZ	2.30	0.58
2:D2:4:ILE:HG23	2:D2:22:CYS:SG	2.44	0.58
2:M2:4:ILE:HG23	2:M2:22:CYS:SG	2.44	0.58
2:a2:4:ILE:HG23	2:a2:22:CYS:SG	2.44	0.58
2:l2:4:ILE:HG23	2:l2:22:CYS:SG	2.44	0.58
2:u2:4:ILE:HG23	2:u2:22:CYS:SG	2.44	0.58
2:y2:4:ILE:HG23	2:y2:22:CYS:SG	2.44	0.58
2:22:4:ILE:HG23	2:22:22:CYS:SG	2.44	0.58
2:P2:4:ILE:HG23	2:P2:22:CYS:SG	2.44	0.58
2:T2:4:ILE:HG23	2:T2:22:CYS:SG	2.44	0.58
2:c2:4:ILE:HG23	2:c2:22:CYS:SG	2.44	0.58
2:e2:4:ILE:HG23	2:e2:22:CYS:SG	2.44	0.58
2:h2:4:ILE:HG23	2:h2:22:CYS:SG	2.44	0.58
2:12:64:VAL:HG13	2:12:68:PHE:HD2	1.68	0.58
2:82:4:ILE:HG23	2:82:22:CYS:SG	2.44	0.58
2:E2:4:ILE:HG23	2:E2:22:CYS:SG	2.44	0.58
2:F2:37:PHE:CD1	2:F2:47:PHE:CA	2.82	0.58
2:I2:4:ILE:HG23	2:I2:22:CYS:SG	2.44	0.58
2:R2:37:PHE:CD1	2:R2:47:PHE:CA	2.82	0.58
2:U2:4:ILE:HG23	2:U2:22:CYS:SG	2.44	0.58
2:b2:4:ILE:HG23	2:b2:22:CYS:SG	2.44	0.58
2:b2:37:PHE:HD1	2:b2:47:PHE:HA	1.62	0.58
2:r2:4:ILE:HG23	2:r2:22:CYS:SG	2.44	0.58
2:62:37:PHE:CD1	2:62:47:PHE:CA	2.82	0.58
2:B2:4:ILE:HG23	2:B2:22:CYS:SG	2.44	0.58
2:G2:64:VAL:HG13	2:G2:68:PHE:HD2	1.68	0.58
2:X2:4:ILE:HG23	2:X2:22:CYS:SG	2.44	0.58
2:f2:64:VAL:HG13	2:f2:68:PHE:HD2	1.68	0.58
2:i2:4:ILE:HG23	2:i2:22:CYS:SG	2.44	0.58
2:m2:4:ILE:HG23	2:m2:22:CYS:SG	2.44	0.58
2:q2:64:VAL:HG13	2:q2:68:PHE:HD2	1.68	0.58
2:v2:84:ASN:OD1	2:12:43:LYS:HE3	2.03	0.58
2:52:4:ILE:HG23	2:52:22:CYS:SG	2.44	0.58
2:62:4:ILE:HG23	2:62:22:CYS:SG	2.44	0.58
2:G2:4:ILE:HG23	2:G2:22:CYS:SG	2.44	0.58
2:N2:4:ILE:HG23	2:N2:22:CYS:SG	2.44	0.58
2:O2:4:ILE:HG23	2:O2:22:CYS:SG	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R2:4:ILE:HG23	2:R2:22:CYS:SG	2.44	0.58
2:V2:4:ILE:HG23	2:V2:22:CYS:SG	2.44	0.58
2:Z2:37:PHE:HD1	2:Z2:47:PHE:HA	1.62	0.58
2:h2:37:PHE:CD1	2:h2:47:PHE:CA	2.82	0.58
2:q2:4:ILE:HG23	2:q2:22:CYS:SG	2.44	0.58
2:t2:4:ILE:HG23	2:t2:22:CYS:SG	2.44	0.58
2:v2:4:ILE:HG23	2:v2:22:CYS:SG	2.44	0.58
2:C2:4:ILE:HG23	2:C2:22:CYS:SG	2.44	0.58
2:C2:64:VAL:HG13	2:C2:68:PHE:HD2	1.67	0.58
2:F2:4:ILE:HG23	2:F2:22:CYS:SG	2.44	0.58
2:L2:4:ILE:HG23	2:L2:22:CYS:SG	2.44	0.58
2:N2:64:VAL:HG13	2:N2:68:PHE:HD2	1.68	0.58
2:Q2:4:ILE:HG23	2:Q2:22:CYS:SG	2.44	0.58
2:V2:37:PHE:HD1	2:V2:47:PHE:HA	1.62	0.58
2:Z2:4:ILE:HG23	2:Z2:22:CYS:SG	2.44	0.58
2:j2:4:ILE:HG23	2:j2:22:CYS:SG	2.44	0.58
2:j2:37:PHE:HD1	2:j2:47:PHE:HA	1.62	0.58
2:o2:4:ILE:HG23	2:o2:22:CYS:SG	2.44	0.58
2:A2:4:ILE:HG23	2:A2:22:CYS:SG	2.44	0.58
2:d2:4:ILE:HG23	2:d2:22:CYS:SG	2.44	0.58
2:e2:37:PHE:HD1	2:e2:47:PHE:HA	1.62	0.58
2:p2:4:ILE:HG23	2:p2:22:CYS:SG	2.44	0.58
2:p2:37:PHE:HD1	2:p2:47:PHE:HA	1.62	0.58
2:32:4:ILE:HG23	2:32:22:CYS:SG	2.44	0.58
2:82:37:PHE:CD1	2:82:47:PHE:CA	2.82	0.58
2:K2:4:ILE:HG23	2:K2:22:CYS:SG	2.44	0.57
2:s2:4:ILE:HG23	2:s2:22:CYS:SG	2.44	0.57
2:H2:4:ILE:HG23	2:H2:22:CYS:SG	2.44	0.57
2:N2:63:ALA:O	2:N2:67:ARG:NH2	2.36	0.57
2:Q2:63:ALA:O	2:Q2:67:ARG:NH2	2.36	0.57
2:S2:37:PHE:HD1	2:S2:47:PHE:HA	1.62	0.57
2:o2:63:ALA:O	2:o2:67:ARG:NH2	2.36	0.57
2:p2:63:ALA:O	2:p2:67:ARG:NH2	2.36	0.57
2:q2:37:PHE:CD1	2:q2:47:PHE:CA	2.82	0.57
2:22:37:PHE:CD1	2:22:47:PHE:CA	2.82	0.57
1:Y:372:VAL:HG12	1:4:669:LEU:HD12	1.87	0.57
1:k:669:LEU:HD12	1:w:372:VAL:HG12	1.87	0.57
2:C2:63:ALA:O	2:C2:67:ARG:NH2	2.36	0.57
2:F2:37:PHE:HD1	2:F2:47:PHE:HA	1.62	0.57
2:F2:63:ALA:O	2:F2:67:ARG:NH2	2.36	0.57
2:T2:37:PHE:CD1	2:T2:47:PHE:CA	2.82	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W2:37:PHE:HD1	2:W2:47:PHE:HA	1.62	0.57
2:x2:4:ILE:HG23	2:x2:22:CYS:SG	2.44	0.57
2:H2:64:VAL:HG13	2:H2:68:PHE:HD2	1.67	0.57
2:J2:4:ILE:HG23	2:J2:22:CYS:SG	2.44	0.57
2:u2:37:PHE:HD1	2:u2:47:PHE:HA	1.62	0.57
2:E2:37:PHE:HD1	2:E2:47:PHE:HA	1.62	0.57
2:G2:37:PHE:CD1	2:G2:47:PHE:CA	2.82	0.57
2:M2:63:ALA:O	2:M2:67:ARG:NH2	2.36	0.57
2:T2:64:VAL:HG13	2:T2:68:PHE:HD2	1.68	0.57
2:c2:37:PHE:HD1	2:c2:47:PHE:HA	1.62	0.57
2:n2:4:ILE:HG23	2:n2:22:CYS:SG	2.44	0.57
2:t2:37:PHE:HD1	2:t2:47:PHE:HA	1.62	0.57
1:P:372:VAL:HG12	1:Q:669:LEU:HD12	1.87	0.57
2:k2:4:ILE:HG23	2:k2:22:CYS:SG	2.44	0.57
2:42:4:ILE:HG23	2:42:22:CYS:SG	2.44	0.57
2:82:64:VAL:HG13	2:82:68:PHE:HD2	1.68	0.57
1:K:372:VAL:HG12	1:L:669:LEU:HD12	1.87	0.57
1:b:372:VAL:HG12	1:o:669:LEU:HD12	1.87	0.57
2:Y2:4:ILE:HG23	2:Y2:22:CYS:SG	2.44	0.57
2:w2:4:ILE:HG23	2:w2:22:CYS:SG	2.44	0.57
1:O:669:LEU:HD12	1:d:372:VAL:HG12	1.87	0.57
1:U:372:VAL:HG12	1:e:669:LEU:HD12	1.87	0.57
1:Z:669:LEU:HD12	1:a:372:VAL:HG12	1.87	0.57
1:h:372:VAL:HG12	1:i:669:LEU:HD12	1.87	0.57
2:D2:63:ALA:O	2:D2:67:ARG:NH2	2.36	0.57
2:X2:63:ALA:O	2:X2:67:ARG:NH2	2.36	0.57
2:Y2:64:VAL:HG13	2:Y2:68:PHE:HD2	1.68	0.57
2:Z2:64:VAL:HG13	2:Z2:68:PHE:HD2	1.67	0.57
2:g2:4:ILE:HG23	2:g2:22:CYS:SG	2.44	0.57
2:y2:37:PHE:HD1	2:y2:47:PHE:HA	1.62	0.57
1:T:669:LEU:HD12	1:i:372:VAL:HG12	1.87	0.57
1:X:372:VAL:HG12	1:Y:669:LEU:HD12	1.87	0.57
1:j:669:LEU:HD12	1:l:372:VAL:HG12	1.87	0.57
1:2:372:VAL:HG12	1:3:669:LEU:HD12	1.87	0.57
1:3:372:VAL:HG12	1:8:669:LEU:HD12	1.87	0.57
2:L2:63:ALA:O	2:L2:67:ARG:NH2	2.36	0.57
2:R2:64:VAL:HG13	2:R2:68:PHE:HD2	1.68	0.57
2:f2:4:ILE:HG23	2:f2:22:CYS:SG	2.44	0.57
2:n2:63:ALA:O	2:n2:67:ARG:NH2	2.36	0.57
2:n2:64:VAL:HG13	2:n2:68:PHE:HD2	1.67	0.57
2:w2:63:ALA:O	2:w2:67:ARG:NH2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:w2:64:VAL:HG13	2:w2:68:PHE:HD2	1.68	0.57
2:z2:4:ILE:HG23	2:z2:22:CYS:SG	2.44	0.57
1:A:669:LEU:HD12	1:B:372:VAL:HG12	1.87	0.57
1:Q:372:VAL:HG12	1:S:669:LEU:HD12	1.87	0.57
1:R:669:LEU:HD12	1:V:372:VAL:HG12	1.87	0.57
1:g:548:GLN:HG3	2:12:29:HIS:CD2	2.40	0.57
1:o:372:VAL:HG12	1:7:669:LEU:HD12	1.87	0.57
2:S2:64:VAL:HG13	2:S2:68:PHE:HD2	1.68	0.57
2:U2:63:ALA:O	2:U2:67:ARG:NH2	2.36	0.57
2:v2:63:ALA:O	2:v2:67:ARG:NH2	2.36	0.57
2:x2:64:VAL:HG13	2:x2:68:PHE:HD2	1.68	0.57
2:12:4:ILE:HG23	2:12:22:CYS:SG	2.44	0.57
2:12:37:PHE:CD1	2:12:47:PHE:CA	2.82	0.57
1:C:669:LEU:HD12	1:D:372:VAL:HG12	1.87	0.56
1:v:669:LEU:HD12	1:1:372:VAL:HG12	1.87	0.56
2:H2:63:ALA:O	2:H2:67:ARG:NH2	2.36	0.56
2:J2:63:ALA:O	2:J2:67:ARG:NH2	2.36	0.56
2:O2:63:ALA:O	2:O2:67:ARG:NH2	2.36	0.56
2:x2:63:ALA:O	2:x2:67:ARG:NH2	2.36	0.56
1:M:372:VAL:HG12	1:N:669:LEU:HD12	1.87	0.56
1:e:372:VAL:HG12	1:h:669:LEU:HD12	1.87	0.56
1:u:669:LEU:HD12	1:5:372:VAL:HG12	1.87	0.56
2:j2:64:VAL:HG13	2:j2:68:PHE:HD2	1.68	0.56
2:52:63:ALA:O	2:52:67:ARG:NH2	2.36	0.56
1:A:372:VAL:HG12	1:E:669:LEU:HD12	1.87	0.56
1:G:372:VAL:HG12	1:W:669:LEU:HD12	1.87	0.56
1:K:669:LEU:HD12	1:7:372:VAL:HG12	1.87	0.56
1:S:372:VAL:HG12	1:d:669:LEU:HD12	1.87	0.56
1:X:669:LEU:HD12	1:f:372:VAL:HG12	1.87	0.56
1:c:669:LEU:HD12	1:s:372:VAL:HG12	1.87	0.56
1:m:372:VAL:HG12	1:s:669:LEU:HD12	1.87	0.56
1:q:372:VAL:HG12	1:y:669:LEU:HD12	1.87	0.56
1:t:372:VAL:HG12	1:6:669:LEU:HD12	1.87	0.56
1:u:372:VAL:HG12	1:2:669:LEU:HD12	1.87	0.56
1:v:372:VAL:HG12	1:w:669:LEU:HD12	1.88	0.56
2:J2:64:VAL:HG13	2:J2:68:PHE:HD2	1.68	0.56
2:Q2:37:PHE:CD1	2:Q2:47:PHE:CA	2.82	0.56
2:o2:37:PHE:CD1	2:o2:47:PHE:CA	2.82	0.56
2:62:64:VAL:HG13	2:62:68:PHE:HD2	1.68	0.56
2:72:37:PHE:CD1	2:72:47:PHE:CA	2.82	0.56
2:72:64:VAL:HG13	2:72:68:PHE:HD2	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f2:37:PHE:CD1	2:f2:47:PHE:CA	2.82	0.56
2:v2:64:VAL:HG13	2:v2:68:PHE:HD2	1.68	0.56
1:L:372:VAL:HG12	1:b:669:LEU:HD12	1.87	0.56
1:p:372:VAL:HG12	1:q:669:LEU:HD12	1.87	0.56
2:S2:37:PHE:CD1	2:S2:47:PHE:CA	2.82	0.56
2:d2:37:PHE:CD1	2:d2:47:PHE:CA	2.82	0.56
1:F:372:VAL:HG12	1:G:669:LEU:HD12	1.87	0.56
1:O:372:VAL:HG12	1:P:669:LEU:HD12	1.87	0.56
1:7:674:THR:H	2:72:104:SER:HG	1.52	0.56
2:d2:64:VAL:HG13	2:d2:68:PHE:HD2	1.67	0.56
2:J2:37:PHE:HD1	2:J2:47:PHE:HA	1.62	0.56
2:K2:64:VAL:HG13	2:K2:68:PHE:HD2	1.68	0.56
1:f:669:LEU:HD12	1:z:372:VAL:HG12	1.87	0.56
1:g:669:LEU:HD12	1:k:372:VAL:HG12	1.87	0.56
2:K2:37:PHE:CD1	2:K2:47:PHE:CA	2.82	0.56
2:P2:53:ILE:HG23	2:P2:54:THR:HG23	1.88	0.56
2:b2:53:ILE:HG23	2:b2:54:THR:HG23	1.88	0.56
2:22:53:ILE:HG23	2:22:54:THR:HG23	1.88	0.56
1:F:669:LEU:HD12	1:R:372:VAL:HG12	1.87	0.55
1:I:372:VAL:HG12	1:J:669:LEU:HD12	1.87	0.55
1:V:669:LEU:HD12	1:W:372:VAL:HG12	1.87	0.55
1:g:372:VAL:HG12	1:1:669:LEU:HD12	1.87	0.55
1:n:669:LEU:HD12	1:r:372:VAL:HG12	1.87	0.55
1:p:669:LEU:HD12	1:6:372:VAL:HG12	1.87	0.55
2:B2:64:VAL:HG13	2:B2:68:PHE:HD2	1.67	0.55
2:D2:53:ILE:HG23	2:D2:54:THR:HG23	1.88	0.55
2:M2:53:ILE:HG23	2:M2:54:THR:HG23	1.88	0.55
2:h2:53:ILE:HG23	2:h2:54:THR:HG23	1.89	0.55
2:q2:53:ILE:HG23	2:q2:54:THR:HG23	1.88	0.55
2:t2:63:ALA:O	2:t2:67:ARG:NH2	2.36	0.55
2:22:64:VAL:HG13	2:22:68:PHE:HD2	1.68	0.55
2:32:53:ILE:HG23	2:32:54:THR:HG23	1.89	0.55
1:z:669:LEU:HD12	1:4:372:VAL:HG12	1.87	0.55
2:D2:37:PHE:CD1	2:D2:47:PHE:CA	2.82	0.55
2:G2:53:ILE:HG23	2:G2:54:THR:HG23	1.88	0.55
2:V2:53:ILE:HG23	2:V2:54:THR:HG23	1.88	0.55
2:Z2:53:ILE:HG23	2:Z2:54:THR:HG23	1.88	0.55
2:i2:53:ILE:HG23	2:i2:54:THR:HG23	1.88	0.55
2:m2:37:PHE:CD1	2:m2:47:PHE:CA	2.82	0.55
2:C2:53:ILE:HG23	2:C2:54:THR:HG23	1.88	0.55
2:M2:37:PHE:CD1	2:M2:47:PHE:CA	2.82	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N2:53:ILE:HG23	2:N2:54:THR:HG23	1.88	0.55
2:c2:63:ALA:O	2:c2:67:ARG:NH2	2.36	0.55
2:h2:64:VAL:HG13	2:h2:68:PHE:HD2	1.67	0.55
2:j2:53:ILE:HG23	2:j2:54:THR:HG23	1.88	0.55
2:n2:37:PHE:HD1	2:n2:47:PHE:HA	1.62	0.55
2:t2:53:ILE:HG23	2:t2:54:THR:HG23	1.88	0.55
1:M:669:LEU:HD12	1:c:372:VAL:HG12	1.87	0.55
1:l:669:LEU:HD12	1:n:372:VAL:HG12	1.87	0.55
2:I2:53:ILE:HG23	2:I2:54:THR:HG23	1.89	0.55
2:V2:63:ALA:O	2:V2:67:ARG:NH2	2.36	0.55
2:r2:53:ILE:HG23	2:r2:54:THR:HG23	1.89	0.55
2:y2:63:ALA:O	2:y2:67:ARG:NH2	2.36	0.55
1:D:669:LEU:HD12	1:E:372:VAL:HG12	1.87	0.55
1:r:669:LEU:HD12	1:x:372:VAL:HG12	1.87	0.55
2:A2:37:PHE:HD1	2:A2:47:PHE:HA	1.62	0.55
2:G2:63:ALA:O	2:G2:67:ARG:NH2	2.36	0.55
2:K2:53:ILE:HG23	2:K2:54:THR:HG23	1.88	0.55
2:e2:53:ILE:HG23	2:e2:54:THR:HG23	1.88	0.55
2:q2:63:ALA:O	2:q2:67:ARG:NH2	2.36	0.55
2:u2:53:ILE:HG23	2:u2:54:THR:HG23	1.88	0.55
1:B:669:LEU:HD12	1:C:372:VAL:HG12	1.87	0.55
1:H:372:VAL:HG12	1:I:669:LEU:HD12	1.87	0.55
1:J:372:VAL:HG12	1:a:669:LEU:HD12	1.87	0.55
1:N:372:VAL:HG12	1:m:669:LEU:HD12	1.87	0.55
1:T:372:VAL:HG12	1:U:669:LEU:HD12	1.87	0.55
1:5:669:LEU:HD12	1:8:372:VAL:HG12	1.87	0.55
2:B2:37:PHE:CD1	2:B2:47:PHE:CA	2.82	0.55
2:E2:63:ALA:O	2:E2:67:ARG:NH2	2.36	0.55
2:W2:63:ALA:O	2:W2:67:ARG:NH2	2.36	0.55
2:W2:64:VAL:HG13	2:W2:68:PHE:HD2	1.68	0.55
2:d2:53:ILE:HG23	2:d2:54:THR:HG23	1.88	0.55
2:m2:64:VAL:HG13	2:m2:68:PHE:HD2	1.68	0.55
2:32:64:VAL:HG13	2:32:68:PHE:HD2	1.68	0.55
1:H:669:LEU:HD12	1:Z:372:VAL:HG12	1.87	0.55
1:j:372:VAL:HG12	1:x:669:LEU:HD12	1.87	0.55
2:A2:53:ILE:HG23	2:A2:54:THR:HG23	1.88	0.55
2:B2:53:ILE:HG23	2:B2:54:THR:HG23	1.88	0.55
2:E2:53:ILE:HG23	2:E2:54:THR:HG23	1.88	0.55
2:c2:53:ILE:HG23	2:c2:54:THR:HG23	1.88	0.55
2:i2:64:VAL:HG13	2:i2:68:PHE:HD2	1.67	0.55
2:m2:53:ILE:HG23	2:m2:54:THR:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s2:37:PHE:HD1	2:s2:47:PHE:HA	1.62	0.55
2:12:63:ALA:O	2:12:67:ARG:NH2	2.36	0.55
1:t:669:LEU:HD12	1:y:372:VAL:HG12	1.88	0.55
2:g2:53:ILE:HG23	2:g2:54:THR:HG23	1.88	0.55
2:s2:53:ILE:HG23	2:s2:54:THR:HG23	1.88	0.55
2:z2:53:ILE:HG23	2:z2:54:THR:HG23	1.88	0.55
2:72:53:ILE:HG23	2:72:54:THR:HG23	1.88	0.55
2:L2:93:VAL:HA	2:L2:120:THR:O	2.07	0.55
2:O2:93:VAL:HA	2:O2:120:THR:O	2.07	0.55
2:R2:53:ILE:HG23	2:R2:54:THR:HG23	1.88	0.55
2:V2:93:VAL:HA	2:V2:120:THR:O	2.07	0.55
2:e2:93:VAL:HA	2:e2:120:THR:O	2.07	0.55
2:t2:93:VAL:HA	2:t2:120:THR:O	2.07	0.55
2:u2:93:VAL:HA	2:u2:120:THR:O	2.07	0.55
2:y2:64:VAL:HG13	2:y2:68:PHE:HD2	1.68	0.55
2:32:93:VAL:HA	2:32:120:THR:O	2.07	0.55
2:P2:93:VAL:HA	2:P2:120:THR:O	2.07	0.55
2:S2:53:ILE:HG23	2:S2:54:THR:HG23	1.89	0.55
2:T2:53:ILE:HG23	2:T2:54:THR:HG23	1.88	0.55
2:U2:64:VAL:HG13	2:U2:68:PHE:HD2	1.68	0.55
2:Z2:93:VAL:HA	2:Z2:120:THR:O	2.07	0.55
2:b2:93:VAL:HA	2:b2:120:THR:O	2.07	0.55
2:i2:93:VAL:HA	2:i2:120:THR:O	2.07	0.55
2:j2:93:VAL:HA	2:j2:120:THR:O	2.07	0.55
2:k2:53:ILE:HG23	2:k2:54:THR:HG23	1.88	0.55
2:42:53:ILE:HG23	2:42:54:THR:HG23	1.88	0.55
2:62:53:ILE:HG23	2:62:54:THR:HG23	1.88	0.55
2:J2:53:ILE:HG23	2:J2:54:THR:HG23	1.88	0.54
2:J2:93:VAL:HA	2:J2:120:THR:O	2.07	0.54
2:f2:63:ALA:O	2:f2:67:ARG:NH2	2.36	0.54
2:n2:53:ILE:HG23	2:n2:54:THR:HG23	1.88	0.54
2:o2:53:ILE:HG23	2:o2:54:THR:HG23	1.88	0.54
2:p2:53:ILE:HG23	2:p2:54:THR:HG23	1.88	0.54
2:12:53:ILE:HG23	2:12:54:THR:HG23	1.88	0.54
2:82:53:ILE:HG23	2:82:54:THR:HG23	1.88	0.54
1:L:425:SER:HB2	1:L:427:TYR:CE2	2.43	0.54
2:F2:53:ILE:HG23	2:F2:54:THR:HG23	1.89	0.54
2:H2:93:VAL:HA	2:H2:120:THR:O	2.07	0.54
2:Q2:53:ILE:HG23	2:Q2:54:THR:HG23	1.88	0.54
2:a2:53:ILE:HG23	2:a2:54:THR:HG23	1.88	0.54
2:n2:93:VAL:HA	2:n2:120:THR:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:425:SER:HB2	1:O:427:TYR:CE2	2.43	0.54
1:Y:425:SER:HB2	1:Y:427:TYR:CE2	2.43	0.54
1:w:425:SER:HB2	1:w:427:TYR:CE2	2.43	0.54
2:W2:53:ILE:HG23	2:W2:54:THR:HG23	1.88	0.54
2:Y2:93:VAL:HA	2:Y2:120:THR:O	2.07	0.54
2:h2:93:VAL:HA	2:h2:120:THR:O	2.07	0.54
2:l2:53:ILE:HG23	2:l2:54:THR:HG23	1.88	0.54
2:w2:93:VAL:HA	2:w2:120:THR:O	2.07	0.54
2:x2:93:VAL:HA	2:x2:120:THR:O	2.07	0.54
2:62:63:ALA:O	2:62:67:ARG:NH2	2.36	0.54
1:Q:425:SER:HB2	1:Q:427:TYR:CE2	2.43	0.54
1:h:425:SER:HB2	1:h:427:TYR:CE2	2.43	0.54
1:y:425:SER:HB2	1:y:427:TYR:CE2	2.43	0.54
2:f2:53:ILE:HG23	2:f2:54:THR:HG23	1.88	0.54
2:v2:53:ILE:HG23	2:v2:54:THR:HG23	1.88	0.54
2:22:93:VAL:HA	2:22:120:THR:O	2.07	0.54
2:52:64:VAL:HG13	2:52:68:PHE:HD2	1.68	0.54
1:W:425:SER:HB2	1:W:427:TYR:CE2	2.43	0.54
1:X:425:SER:HB2	1:X:427:TYR:CE2	2.43	0.54
1:i:425:SER:HB2	1:i:427:TYR:CE2	2.43	0.54
1:o:425:SER:HB2	1:o:427:TYR:CE2	2.43	0.54
1:2:425:SER:HB2	1:2:427:TYR:CE2	2.43	0.54
2:H2:53:ILE:HG23	2:H2:54:THR:HG23	1.88	0.54
2:R2:63:ALA:O	2:R2:67:ARG:NH2	2.36	0.54
2:X2:53:ILE:HG23	2:X2:54:THR:HG23	1.88	0.54
2:d2:93:VAL:HA	2:d2:120:THR:O	2.07	0.54
2:k2:63:ALA:O	2:k2:67:ARG:NH2	2.36	0.54
2:x2:53:ILE:HG23	2:x2:54:THR:HG23	1.88	0.54
1:D:425:SER:HB2	1:D:427:TYR:CE2	2.43	0.54
1:L:250:LEU:HD12	1:L:251:PRO:HD2	1.90	0.54
1:M:425:SER:HB2	1:M:427:TYR:CE2	2.43	0.54
1:O:250:LEU:HD12	1:O:251:PRO:HD2	1.90	0.54
1:X:250:LEU:HD12	1:X:251:PRO:HD2	1.90	0.54
1:Z:425:SER:HB2	1:Z:427:TYR:CE2	2.43	0.54
1:j:425:SER:HB2	1:j:427:TYR:CE2	2.43	0.54
1:v:425:SER:HB2	1:v:427:TYR:CE2	2.43	0.54
1:3:425:SER:HB2	1:3:427:TYR:CE2	2.43	0.54
2:A2:93:VAL:HA	2:A2:120:THR:O	2.07	0.54
2:I2:93:VAL:HA	2:I2:120:THR:O	2.07	0.54
2:K2:93:VAL:HA	2:K2:120:THR:O	2.07	0.54
2:S2:93:VAL:HA	2:S2:120:THR:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y2:53:ILE:HG23	2:Y2:54:THR:HG23	1.88	0.54
2:y2:53:ILE:HG23	2:y2:54:THR:HG23	1.89	0.54
1:F:549:ASN:HB3	2:G2:29:HIS:CD2	2.43	0.54
1:I:250:LEU:HD12	1:I:251:PRO:HD2	1.90	0.54
1:c:549:ASN:HB3	2:M2:29:HIS:CD2	2.43	0.54
1:g:425:SER:HB2	1:g:427:TYR:CE2	2.43	0.54
1:p:549:ASN:HB3	2:q2:29:HIS:CD2	2.43	0.54
1:q:425:SER:HB2	1:q:427:TYR:CE2	2.43	0.54
1:w:250:LEU:HD12	1:w:251:PRO:HD2	1.90	0.54
2:K2:63:ALA:O	2:K2:67:ARG:NH2	2.36	0.54
2:U2:53:ILE:HG23	2:U2:54:THR:HG23	1.88	0.54
2:e2:64:VAL:HG13	2:e2:68:PHE:HD2	1.68	0.54
2:h2:63:ALA:O	2:h2:67:ARG:NH2	2.36	0.54
2:u2:64:VAL:HG13	2:u2:68:PHE:HD2	1.67	0.54
2:22:63:ALA:O	2:22:67:ARG:NH2	2.36	0.54
2:42:63:ALA:O	2:42:67:ARG:NH2	2.36	0.54
2:72:93:VAL:HA	2:72:120:THR:O	2.07	0.54
1:B:250:LEU:HD12	1:B:251:PRO:HD2	1.90	0.54
1:E:549:ASN:HB3	2:D2:29:HIS:CD2	2.43	0.54
1:G:425:SER:HB2	1:G:427:TYR:CE2	2.43	0.54
1:I:425:SER:HB2	1:I:427:TYR:CE2	2.43	0.54
1:R:250:LEU:HD12	1:R:251:PRO:HD2	1.90	0.54
1:Y:250:LEU:HD12	1:Y:251:PRO:HD2	1.90	0.54
1:i:250:LEU:HD12	1:i:251:PRO:HD2	1.90	0.54
1:k:425:SER:HB2	1:k:427:TYR:CE2	2.43	0.54
1:r:250:LEU:HD12	1:r:251:PRO:HD2	1.90	0.54
1:v:250:LEU:HD12	1:v:251:PRO:HD2	1.90	0.54
1:z:425:SER:HB2	1:z:427:TYR:CE2	2.43	0.54
1:4:425:SER:HB2	1:4:427:TYR:CE2	2.43	0.54
1:6:250:LEU:HD12	1:6:251:PRO:HD2	1.90	0.54
1:6:425:SER:HB2	1:6:427:TYR:CE2	2.43	0.54
2:O2:53:ILE:HG23	2:O2:54:THR:HG23	1.88	0.54
2:S2:63:ALA:O	2:S2:67:ARG:NH2	2.36	0.54
2:X2:93:VAL:HA	2:X2:120:THR:O	2.07	0.54
2:c2:93:VAL:HA	2:c2:120:THR:O	2.07	0.54
2:d2:63:ALA:O	2:d2:67:ARG:NH2	2.36	0.54
2:r2:93:VAL:HA	2:r2:120:THR:O	2.07	0.54
2:s2:93:VAL:HA	2:s2:120:THR:O	2.07	0.54
2:w2:53:ILE:HG23	2:w2:54:THR:HG23	1.89	0.54
2:12:93:VAL:HA	2:12:120:THR:O	2.07	0.54
1:R:425:SER:HB2	1:R:427:TYR:CE2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:250:LEU:HD12	1:m:251:PRO:HD2	1.90	0.54
1:r:425:SER:HB2	1:r:427:TYR:CE2	2.43	0.54
1:t:549:ASN:HB3	2:62:29:HIS:CD2	2.43	0.54
1:3:250:LEU:HD12	1:3:251:PRO:HD2	1.90	0.54
2:E2:93:VAL:HA	2:E2:120:THR:O	2.07	0.54
2:L2:53:ILE:HG23	2:L2:54:THR:HG23	1.88	0.54
2:y2:93:VAL:HA	2:y2:120:THR:O	2.07	0.54
2:z2:93:VAL:HA	2:z2:120:THR:O	2.07	0.54
2:32:63:ALA:O	2:32:67:ARG:NH2	2.36	0.54
2:42:64:VAL:HG13	2:42:68:PHE:HD2	1.67	0.54
1:A:427:TYR:H	1:A:732:ARG:HG2	1.73	0.54
1:H:425:SER:HB2	1:H:427:TYR:CE2	2.43	0.54
1:Q:549:ASN:HB3	2:S2:29:HIS:CD2	2.43	0.54
1:S:425:SER:HB2	1:S:427:TYR:CE2	2.43	0.54
1:V:425:SER:HB2	1:V:427:TYR:CE2	2.43	0.54
1:e:250:LEU:HD12	1:e:251:PRO:HD2	1.90	0.54
1:e:427:TYR:H	1:e:732:ARG:HG2	1.74	0.54
1:i:549:ASN:HB3	2:T2:29:HIS:CD2	2.43	0.54
1:p:250:LEU:HD12	1:p:251:PRO:HD2	1.90	0.54
1:t:425:SER:HB2	1:t:427:TYR:CE2	2.43	0.54
1:u:250:LEU:HD12	1:u:251:PRO:HD2	1.90	0.54
1:u:427:TYR:H	1:u:732:ARG:HG2	1.73	0.54
1:x:425:SER:HB2	1:x:427:TYR:CE2	2.43	0.54
1:7:425:SER:HB2	1:7:427:TYR:CE2	2.43	0.54
2:f2:93:VAL:HA	2:f2:120:THR:O	2.07	0.54
2:g2:93:VAL:HA	2:g2:120:THR:O	2.07	0.54
2:k2:64:VAL:HG13	2:k2:68:PHE:HD2	1.67	0.54
2:52:53:ILE:HG23	2:52:54:THR:HG23	1.89	0.54
2:82:63:ALA:O	2:82:67:ARG:NH2	2.36	0.54
1:B:425:SER:HB2	1:B:427:TYR:CE2	2.43	0.53
1:C:425:SER:HB2	1:C:427:TYR:CE2	2.43	0.53
1:F:250:LEU:HD12	1:F:251:PRO:HD2	1.90	0.53
1:F:425:SER:HB2	1:F:427:TYR:CE2	2.43	0.53
1:V:250:LEU:HD12	1:V:251:PRO:HD2	1.90	0.53
1:c:425:SER:HB2	1:c:427:TYR:CE2	2.43	0.53
1:g:250:LEU:HD12	1:g:251:PRO:HD2	1.90	0.53
1:k:427:TYR:H	1:k:732:ARG:HG2	1.74	0.53
1:o:549:ASN:HB3	2:72:29:HIS:CD2	2.43	0.53
1:p:425:SER:HB2	1:p:427:TYR:CE2	2.43	0.53
1:s:427:TYR:H	1:s:732:ARG:HG2	1.73	0.53
1:t:625:PRO:HB3	1:v:738:LEU:HD23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G2:93:VAL:HA	2:G2:120:THR:O	2.07	0.53
2:v2:93:VAL:HA	2:v2:120:THR:O	2.07	0.53
2:42:93:VAL:HA	2:42:120:THR:O	2.07	0.53
2:72:63:ALA:O	2:72:67:ARG:NH2	2.36	0.53
1:A:250:LEU:HD12	1:A:251:PRO:HD2	1.90	0.53
1:E:425:SER:HB2	1:E:427:TYR:CE2	2.43	0.53
1:N:425:SER:HB2	1:N:427:TYR:CE2	2.43	0.53
1:t:250:LEU:HD12	1:t:251:PRO:HD2	1.90	0.53
1:z:250:LEU:HD12	1:z:251:PRO:HD2	1.90	0.53
1:3:549:ASN:HB3	2:82:29:HIS:CD2	2.43	0.53
1:4:427:TYR:H	1:4:732:ARG:HG2	1.74	0.53
1:5:425:SER:HB2	1:5:427:TYR:CE2	2.43	0.53
2:C2:93:VAL:HA	2:C2:120:THR:O	2.07	0.53
2:D2:93:VAL:HA	2:D2:120:THR:O	2.07	0.53
2:M2:93:VAL:HA	2:M2:120:THR:O	2.07	0.53
2:T2:63:ALA:O	2:T2:67:ARG:NH2	2.36	0.53
2:W2:93:VAL:HA	2:W2:120:THR:O	2.07	0.53
2:a2:93:VAL:HA	2:a2:120:THR:O	2.07	0.53
2:i2:63:ALA:O	2:i2:67:ARG:NH2	2.36	0.53
2:l2:93:VAL:HA	2:l2:120:THR:O	2.07	0.53
2:m2:93:VAL:HA	2:m2:120:THR:O	2.07	0.53
2:q2:93:VAL:HA	2:q2:120:THR:O	2.07	0.53
2:52:93:VAL:HA	2:52:120:THR:O	2.07	0.53
1:K:425:SER:HB2	1:K:427:TYR:CE2	2.43	0.53
1:P:425:SER:HB2	1:P:427:TYR:CE2	2.43	0.53
1:T:250:LEU:HD12	1:T:251:PRO:HD2	1.90	0.53
1:T:425:SER:HB2	1:T:427:TYR:CE2	2.43	0.53
1:X:427:TYR:H	1:X:732:ARG:HG2	1.74	0.53
1:a:425:SER:HB2	1:a:427:TYR:CE2	2.43	0.53
1:l:425:SER:HB2	1:l:427:TYR:CE2	2.43	0.53
1:m:425:SER:HB2	1:m:427:TYR:CE2	2.43	0.53
1:s:250:LEU:HD12	1:s:251:PRO:HD2	1.90	0.53
1:s:425:SER:HB2	1:s:427:TYR:CE2	2.43	0.53
2:B2:93:VAL:HA	2:B2:120:THR:O	2.07	0.53
2:N2:93:VAL:HA	2:N2:120:THR:O	2.07	0.53
2:X2:64:VAL:HG13	2:X2:68:PHE:HD2	1.68	0.53
2:62:93:VAL:HA	2:62:120:THR:O	2.07	0.53
1:A:425:SER:HB2	1:A:427:TYR:CE2	2.43	0.53
1:D:427:TYR:H	1:D:732:ARG:HG2	1.74	0.53
1:F:427:TYR:H	1:F:732:ARG:HG2	1.74	0.53
1:K:250:LEU:HD12	1:K:251:PRO:HD2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:427:TYR:H	1:M:732:ARG:HG2	1.74	0.53
1:U:425:SER:HB2	1:U:427:TYR:CE2	2.43	0.53
1:b:425:SER:HB2	1:b:427:TYR:CE2	2.43	0.53
1:p:427:TYR:H	1:p:732:ARG:HG2	1.74	0.53
1:v:427:TYR:H	1:v:732:ARG:HG2	1.74	0.53
1:8:250:LEU:HD12	1:8:251:PRO:HD2	1.90	0.53
2:Q2:93:VAL:HA	2:Q2:120:THR:O	2.07	0.53
2:g2:63:ALA:O	2:g2:67:ARG:NH2	2.36	0.53
2:g2:64:VAL:HG13	2:g2:68:PHE:HD2	1.68	0.53
2:k2:93:VAL:HA	2:k2:120:THR:O	2.07	0.53
1:J:427:TYR:H	1:J:732:ARG:HG2	1.73	0.53
1:S:427:TYR:H	1:S:732:ARG:HG2	1.74	0.53
1:d:425:SER:HB2	1:d:427:TYR:CE2	2.43	0.53
1:x:674:THR:H	2:x2:104:SER:HG	1.56	0.53
1:8:425:SER:HB2	1:8:427:TYR:CE2	2.43	0.53
2:R2:93:VAL:HA	2:R2:120:THR:O	2.07	0.53
2:T2:93:VAL:HA	2:T2:120:THR:O	2.07	0.53
2:U2:93:VAL:HA	2:U2:120:THR:O	2.07	0.53
2:o2:93:VAL:HA	2:o2:120:THR:O	2.07	0.53
1:J:425:SER:HB2	1:J:427:TYR:CE2	2.43	0.53
1:K:427:TYR:H	1:K:732:ARG:HG2	1.74	0.53
1:W:250:LEU:HD12	1:W:251:PRO:HD2	1.90	0.53
1:Z:250:LEU:HD12	1:Z:251:PRO:HD2	1.90	0.53
1:d:250:LEU:HD12	1:d:251:PRO:HD2	1.90	0.53
1:d:427:TYR:H	1:d:732:ARG:HG2	1.74	0.53
1:f:425:SER:HB2	1:f:427:TYR:CE2	2.43	0.53
1:j:250:LEU:HD12	1:j:251:PRO:HD2	1.90	0.53
1:m:427:TYR:H	1:m:732:ARG:HG2	1.74	0.53
1:n:427:TYR:H	1:n:732:ARG:HG2	1.73	0.53
1:q:250:LEU:HD12	1:q:251:PRO:HD2	1.90	0.53
1:w:427:TYR:H	1:w:732:ARG:HG2	1.73	0.53
1:7:427:TYR:H	1:7:732:ARG:HG2	1.74	0.53
2:M2:64:VAL:HG13	2:M2:68:PHE:HD2	1.68	0.53
2:z2:64:VAL:HG13	2:z2:68:PHE:HD2	1.68	0.53
2:82:93:VAL:HA	2:82:120:THR:O	2.07	0.53
1:G:250:LEU:HD12	1:G:251:PRO:HD2	1.90	0.53
1:H:250:LEU:HD12	1:H:251:PRO:HD2	1.90	0.53
1:T:427:TYR:H	1:T:732:ARG:HG2	1.74	0.53
1:Y:427:TYR:H	1:Y:732:ARG:HG2	1.73	0.53
1:Z:549:ASN:HB3	2:H2:29:HIS:CD2	2.43	0.53
1:e:425:SER:HB2	1:e:427:TYR:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:250:LEU:HD12	1:n:251:PRO:HD2	1.90	0.53
1:n:425:SER:HB2	1:n:427:TYR:CE2	2.43	0.53
1:u:425:SER:HB2	1:u:427:TYR:CE2	2.43	0.53
1:x:427:TYR:H	1:x:732:ARG:HG2	1.73	0.53
1:y:250:LEU:HD12	1:y:251:PRO:HD2	1.90	0.53
1:1:250:LEU:HD12	1:1:251:PRO:HD2	1.90	0.53
2:p2:93:VAL:HA	2:p2:120:THR:O	2.07	0.53
1:B:427:TYR:H	1:B:732:ARG:HG2	1.74	0.53
1:B:549:ASN:HB3	2:A2:29:HIS:CD2	2.44	0.53
1:C:250:LEU:HD12	1:C:251:PRO:HD2	1.90	0.53
1:H:674:THR:H	2:H2:104:SER:HG	1.56	0.53
1:J:250:LEU:HD12	1:J:251:PRO:HD2	1.90	0.53
1:J:549:ASN:HB3	2:a2:29:HIS:CD2	2.44	0.53
1:b:427:TYR:H	1:b:732:ARG:HG2	1.73	0.53
1:j:549:ASN:HB3	2:x2:29:HIS:CD2	2.43	0.53
1:n:549:ASN:HB3	2:l2:29:HIS:CD2	2.44	0.53
1:1:425:SER:HB2	1:1:427:TYR:CE2	2.43	0.53
2:F2:93:VAL:HA	2:F2:120:THR:O	2.07	0.53
2:z2:63:ALA:O	2:z2:67:ARG:NH2	2.36	0.53
1:H:427:TYR:H	1:H:732:ARG:HG2	1.73	0.53
1:M:250:LEU:HD12	1:M:251:PRO:HD2	1.90	0.53
1:f:250:LEU:HD12	1:f:251:PRO:HD2	1.90	0.53
1:g:427:TYR:H	1:g:732:ARG:HG2	1.74	0.53
1:m:549:ASN:HB3	2:s2:29:HIS:CD2	2.44	0.53
1:x:250:LEU:HD12	1:x:251:PRO:HD2	1.90	0.53
1:2:250:LEU:HD12	1:2:251:PRO:HD2	1.90	0.53
1:8:427:TYR:H	1:8:732:ARG:HG2	1.74	0.53
2:l2:63:ALA:O	2:l2:67:ARG:NH2	2.36	0.53
1:D:250:LEU:HD12	1:D:251:PRO:HD2	1.90	0.53
1:N:250:LEU:HD12	1:N:251:PRO:HD2	1.90	0.53
1:P:427:TYR:H	1:P:732:ARG:HG2	1.73	0.53
1:U:427:TYR:H	1:U:732:ARG:HG2	1.74	0.53
1:W:427:TYR:H	1:W:732:ARG:HG2	1.73	0.53
1:e:549:ASN:HB3	2:h2:29:HIS:CD2	2.44	0.53
1:o:250:LEU:HD12	1:o:251:PRO:HD2	1.90	0.53
1:u:549:ASN:HB3	2:22:29:HIS:CD2	2.44	0.53
1:z:427:TYR:H	1:z:732:ARG:HG2	1.74	0.53
1:2:427:TYR:H	1:2:732:ARG:HG2	1.73	0.53
2:A2:31:MET:O	2:A2:72:ARG:NH2	2.42	0.53
2:e2:31:MET:O	2:e2:72:ARG:NH2	2.42	0.53
2:s2:31:MET:O	2:s2:72:ARG:NH2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:u2:31:MET:O	2:u2:72:ARG:NH2	2.42	0.53
2:82:31:MET:O	2:82:72:ARG:NH2	2.43	0.53
1:Q:250:LEU:HD12	1:Q:251:PRO:HD2	1.90	0.52
1:S:250:LEU:HD12	1:S:251:PRO:HD2	1.90	0.52
1:U:250:LEU:HD12	1:U:251:PRO:HD2	1.90	0.52
1:W:239:ARG:HD2	1:W:686:GLU:OE2	2.10	0.52
1:Y:239:ARG:HD2	1:Y:686:GLU:OE2	2.10	0.52
1:h:250:LEU:HD12	1:h:251:PRO:HD2	1.90	0.52
1:h:427:TYR:H	1:h:732:ARG:HG2	1.73	0.52
1:k:549:ASN:HB3	2:g2:29:HIS:CD2	2.43	0.52
1:w:239:ARG:HD2	1:w:686:GLU:OE2	2.10	0.52
1:y:239:ARG:HD2	1:y:686:GLU:OE2	2.10	0.52
1:z:239:ARG:HD2	1:z:686:GLU:OE2	2.10	0.52
1:4:250:LEU:HD12	1:4:251:PRO:HD2	1.90	0.52
1:5:427:TYR:H	1:5:732:ARG:HG2	1.73	0.52
1:7:250:LEU:HD12	1:7:251:PRO:HD2	1.90	0.52
2:D2:64:VAL:HG13	2:D2:68:PHE:HD2	1.68	0.52
2:G2:31:MET:O	2:G2:72:ARG:NH2	2.43	0.52
2:S2:31:MET:O	2:S2:72:ARG:NH2	2.42	0.52
2:T2:31:MET:O	2:T2:72:ARG:NH2	2.43	0.52
2:g2:31:MET:O	2:g2:72:ARG:NH2	2.42	0.52
2:n2:37:PHE:CD2	2:n2:116:TRP:CH2	2.98	0.52
2:q2:31:MET:O	2:q2:72:ARG:NH2	2.43	0.52
2:y2:37:PHE:CD2	2:y2:116:TRP:CH2	2.98	0.52
2:z2:31:MET:O	2:z2:72:ARG:NH2	2.42	0.52
1:U:239:ARG:HD2	1:U:686:GLU:OE2	2.10	0.52
1:V:239:ARG:HD2	1:V:686:GLU:OE2	2.10	0.52
1:V:549:ASN:HB3	2:R2:29:HIS:CD2	2.44	0.52
1:c:427:TYR:H	1:c:732:ARG:HG2	1.74	0.52
1:e:239:ARG:HD2	1:e:686:GLU:OE2	2.10	0.52
1:k:250:LEU:HD12	1:k:251:PRO:HD2	1.90	0.52
1:t:239:ARG:HD2	1:t:686:GLU:OE2	2.10	0.52
1:u:239:ARG:HD2	1:u:686:GLU:OE2	2.10	0.52
1:y:427:TYR:H	1:y:732:ARG:HG2	1.73	0.52
1:5:239:ARG:HD2	1:5:686:GLU:OE2	2.10	0.52
2:W2:37:PHE:CD2	2:W2:116:TRP:CH2	2.98	0.52
2:X2:31:MET:O	2:X2:72:ARG:NH2	2.42	0.52
2:a2:63:ALA:O	2:a2:67:ARG:NH2	2.36	0.52
2:i2:37:PHE:CD2	2:i2:116:TRP:CH2	2.98	0.52
2:v2:31:MET:O	2:v2:72:ARG:NH2	2.42	0.52
2:12:31:MET:O	2:12:72:ARG:NH2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:37:PHE:CD2	2:12:116:TRP:CH2	2.98	0.52
2:32:37:PHE:CD2	2:32:116:TRP:CH2	2.98	0.52
2:72:31:MET:O	2:72:72:ARG:NH2	2.43	0.52
1:A:239:ARG:HD2	1:A:686:GLU:OE2	2.10	0.52
1:G:427:TYR:H	1:G:732:ARG:HG2	1.73	0.52
1:R:549:ASN:HB3	2:F2:29:HIS:CD2	2.45	0.52
1:X:239:ARG:HD2	1:X:686:GLU:OE2	2.10	0.52
1:g:239:ARG:HD2	1:g:686:GLU:OE2	2.10	0.52
1:o:427:TYR:H	1:o:732:ARG:HG2	1.73	0.52
1:q:427:TYR:H	1:q:732:ARG:HG2	1.73	0.52
1:s:239:ARG:HD2	1:s:686:GLU:OE2	2.10	0.52
1:3:427:TYR:H	1:3:732:ARG:HG2	1.73	0.52
1:4:549:ASN:HB3	2:z2:29:HIS:CD2	2.43	0.52
1:5:625:PRO:HB3	1:7:738:LEU:HD23	1.92	0.52
1:6:427:TYR:H	1:6:732:ARG:HG2	1.73	0.52
1:7:239:ARG:HD2	1:7:686:GLU:OE2	2.10	0.52
2:I2:31:MET:O	2:I2:72:ARG:NH2	2.42	0.52
2:J2:31:MET:O	2:J2:72:ARG:NH2	2.42	0.52
2:J2:37:PHE:CD2	2:J2:116:TRP:CH2	2.98	0.52
2:N2:31:MET:O	2:N2:72:ARG:NH2	2.43	0.52
2:U2:37:PHE:CD2	2:U2:116:TRP:CH2	2.98	0.52
2:f2:31:MET:O	2:f2:72:ARG:NH2	2.42	0.52
2:f2:37:PHE:CD2	2:f2:116:TRP:CH2	2.98	0.52
2:h2:31:MET:O	2:h2:72:ARG:NH2	2.42	0.52
2:r2:31:MET:O	2:r2:72:ARG:NH2	2.42	0.52
2:t2:31:MET:O	2:t2:72:ARG:NH2	2.42	0.52
2:52:37:PHE:CD2	2:52:116:TRP:CH2	2.98	0.52
1:E:250:LEU:HD12	1:E:251:PRO:HD2	1.90	0.52
1:E:427:TYR:H	1:E:732:ARG:HG2	1.74	0.52
1:L:239:ARG:HD2	1:L:686:GLU:OE2	2.10	0.52
1:O:239:ARG:HD2	1:O:686:GLU:OE2	2.10	0.52
1:Q:427:TYR:H	1:Q:732:ARG:HG2	1.73	0.52
1:S:239:ARG:HD2	1:S:686:GLU:OE2	2.10	0.52
1:a:250:LEU:HD12	1:a:251:PRO:HD2	1.90	0.52
1:a:427:TYR:H	1:a:732:ARG:HG2	1.73	0.52
1:i:239:ARG:HD2	1:i:686:GLU:OE2	2.09	0.52
1:t:738:LEU:HD23	1:u:625:PRO:HB3	1.91	0.52
1:v:239:ARG:HD2	1:v:686:GLU:OE2	2.10	0.52
1:3:239:ARG:HD2	1:3:686:GLU:OE2	2.09	0.52
1:5:250:LEU:HD12	1:5:251:PRO:HD2	1.90	0.52
2:C2:31:MET:O	2:C2:72:ARG:NH2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L2:37:PHE:CD2	2:L2:116:TRP:CH2	2.98	0.52
2:O2:37:PHE:CD2	2:O2:116:TRP:CH2	2.98	0.52
2:P2:64:VAL:HG13	2:P2:68:PHE:HD2	1.68	0.52
2:V2:31:MET:O	2:V2:72:ARG:NH2	2.42	0.52
2:d2:31:MET:O	2:d2:72:ARG:NH2	2.42	0.52
2:k2:31:MET:O	2:k2:72:ARG:NH2	2.42	0.52
2:n2:31:MET:O	2:n2:72:ARG:NH2	2.42	0.52
2:22:31:MET:O	2:22:72:ARG:NH2	2.43	0.52
2:22:37:PHE:CD2	2:22:116:TRP:CH2	2.98	0.52
1:B:738:LEU:HD23	1:J:625:PRO:HB3	1.92	0.52
1:I:239:ARG:HD2	1:I:686:GLU:OE2	2.10	0.52
1:I:427:TYR:H	1:I:732:ARG:HG2	1.73	0.52
1:R:427:TYR:H	1:R:732:ARG:HG2	1.73	0.52
1:a:549:ASN:HB3	2:Z2:29:HIS:CD2	2.45	0.52
1:c:250:LEU:HD12	1:c:251:PRO:HD2	1.90	0.52
1:f:738:LEU:HD23	1:h:625:PRO:HB3	1.92	0.52
1:i:427:TYR:H	1:i:732:ARG:HG2	1.73	0.52
1:j:427:TYR:H	1:j:732:ARG:HG2	1.74	0.52
1:l:250:LEU:HD12	1:l:251:PRO:HD2	1.90	0.52
1:l:427:TYR:H	1:l:732:ARG:HG2	1.73	0.52
1:l:549:ASN:HB3	2:j2:29:HIS:CD2	2.45	0.52
1:m:738:LEU:HD23	1:n:625:PRO:HB3	1.92	0.52
1:r:239:ARG:HD2	1:r:686:GLU:OE2	2.10	0.52
1:r:738:LEU:HD23	1:s:625:PRO:HB3	1.92	0.52
1:s:549:ASN:HB3	2:c2:29:HIS:CD2	2.45	0.52
1:1:427:TYR:H	1:1:732:ARG:HG2	1.74	0.52
1:6:549:ASN:HB3	2:p2:29:HIS:CD2	2.45	0.52
2:F2:37:PHE:CD2	2:F2:116:TRP:CH2	2.98	0.52
2:F2:64:VAL:HG13	2:F2:68:PHE:HD2	1.67	0.52
2:W2:31:MET:O	2:W2:72:ARG:NH2	2.42	0.52
2:Y2:37:PHE:CD2	2:Y2:116:TRP:CH2	2.98	0.52
2:h2:37:PHE:CD2	2:h2:116:TRP:CH2	2.98	0.52
2:j2:37:PHE:CD2	2:j2:116:TRP:CH2	2.98	0.52
2:p2:37:PHE:CD2	2:p2:116:TRP:CH2	2.98	0.52
2:z2:37:PHE:CD2	2:z2:116:TRP:CH2	2.98	0.52
2:42:31:MET:O	2:42:72:ARG:NH2	2.42	0.52
1:E:239:ARG:HD2	1:E:686:GLU:OE2	2.10	0.52
1:L:549:ASN:HB3	2:b2:29:HIS:CD2	2.44	0.52
1:N:239:ARG:HD2	1:N:686:GLU:OE2	2.10	0.52
1:S:738:LEU:HD23	1:U:625:PRO:HB3	1.92	0.52
1:T:239:ARG:HD2	1:T:686:GLU:OE2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:427:TYR:H	1:V:732:ARG:HG2	1.73	0.52
1:W:738:LEU:HD23	1:Y:625:PRO:HB3	1.92	0.52
1:Y:549:ASN:HB3	2:42:29:HIS:CD2	2.45	0.52
1:Z:427:TYR:H	1:Z:732:ARG:HG2	1.74	0.52
1:f:239:ARG:HD2	1:f:686:GLU:OE2	2.10	0.52
1:f:427:TYR:H	1:f:732:ARG:HG2	1.74	0.52
1:h:239:ARG:HD2	1:h:686:GLU:OE2	2.10	0.52
1:w:625:PRO:HB3	1:y:738:LEU:HD23	1.92	0.52
1:1:239:ARG:HD2	1:1:686:GLU:OE2	2.10	0.52
1:1:255:ASN:HB3	2:12:101:THR:HG21	1.91	0.52
1:1:738:LEU:HD23	1:2:625:PRO:HB3	1.92	0.52
1:2:239:ARG:HD2	1:2:686:GLU:OE2	2.10	0.52
1:8:239:ARG:HD2	1:8:686:GLU:OE2	2.10	0.52
2:E2:37:PHE:CD2	2:E2:116:TRP:CH2	2.98	0.52
2:G2:37:PHE:CD2	2:G2:116:TRP:CH2	2.98	0.52
2:H2:37:PHE:CD2	2:H2:116:TRP:CH2	2.98	0.52
2:K2:31:MET:O	2:K2:72:ARG:NH2	2.42	0.52
2:S2:37:PHE:CD2	2:S2:116:TRP:CH2	2.98	0.52
2:Z2:31:MET:O	2:Z2:72:ARG:NH2	2.42	0.52
2:Z2:37:PHE:CD2	2:Z2:116:TRP:CH2	2.98	0.52
2:a2:37:PHE:CD2	2:a2:116:TRP:CH2	2.98	0.52
2:b2:31:MET:O	2:b2:72:ARG:NH2	2.42	0.52
2:c2:37:PHE:CD2	2:c2:116:TRP:CH2	2.98	0.52
2:j2:31:MET:O	2:j2:72:ARG:NH2	2.42	0.52
2:w2:37:PHE:CD2	2:w2:116:TRP:CH2	2.98	0.52
2:x2:37:PHE:CD2	2:x2:116:TRP:CH2	2.98	0.52
2:52:31:MET:O	2:52:72:ARG:NH2	2.42	0.52
2:62:31:MET:O	2:62:72:ARG:NH2	2.42	0.52
1:A:549:ASN:HB3	2:E2:29:HIS:CD2	2.45	0.52
1:C:239:ARG:HD2	1:C:686:GLU:OE2	2.10	0.52
1:O:549:ASN:HB3	2:P2:29:HIS:CD2	2.44	0.52
1:m:239:ARG:HD2	1:m:686:GLU:OE2	2.10	0.52
1:r:427:TYR:H	1:r:732:ARG:HG2	1.73	0.52
1:v:549:ASN:HB3	2:w2:29:HIS:CD2	2.44	0.52
1:w:549:ASN:HB3	2:k2:29:HIS:CD2	2.45	0.52
2:D2:31:MET:O	2:D2:72:ARG:NH2	2.42	0.52
2:E2:31:MET:O	2:E2:72:ARG:NH2	2.42	0.52
2:H2:31:MET:O	2:H2:72:ARG:NH2	2.43	0.52
2:L2:31:MET:O	2:L2:72:ARG:NH2	2.42	0.52
2:M2:31:MET:O	2:M2:72:ARG:NH2	2.42	0.52
2:P2:31:MET:O	2:P2:72:ARG:NH2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R2:31:MET:O	2:R2:72:ARG:NH2	2.42	0.52
2:R2:37:PHE:CD2	2:R2:116:TRP:CH2	2.98	0.52
2:a2:13:GLN:NE2	2:a2:125:SER:OG	2.43	0.52
2:b2:64:VAL:HG13	2:b2:68:PHE:HD2	1.68	0.52
2:g2:37:PHE:CD2	2:g2:116:TRP:CH2	2.98	0.52
2:l2:13:GLN:NE2	2:l2:125:SER:OG	2.43	0.52
2:l2:37:PHE:CD2	2:l2:116:TRP:CH2	2.98	0.52
2:p2:64:VAL:HG13	2:p2:68:PHE:HD2	1.68	0.52
2:q2:37:PHE:CD2	2:q2:116:TRP:CH2	2.98	0.52
2:w2:31:MET:O	2:w2:72:ARG:NH2	2.43	0.52
2:w2:88:PRO:HA	2:w2:124:VAL:HB	1.92	0.52
2:x2:31:MET:O	2:x2:72:ARG:NH2	2.43	0.52
2:y2:31:MET:O	2:y2:72:ARG:NH2	2.42	0.52
1:A:625:PRO:HB3	1:I:738:LEU:HD23	1.92	0.52
1:B:239:ARG:HD2	1:B:686:GLU:OE2	2.10	0.52
1:G:239:ARG:HD2	1:G:686:GLU:OE2	2.10	0.52
1:H:738:LEU:HD23	1:W:625:PRO:HB3	1.92	0.52
1:J:239:ARG:HD2	1:J:686:GLU:OE2	2.10	0.52
1:O:427:TYR:H	1:O:732:ARG:HG2	1.74	0.52
1:P:239:ARG:HD2	1:P:686:GLU:OE2	2.10	0.52
1:R:625:PRO:HB3	1:U:738:LEU:HD23	1.92	0.52
1:X:549:ASN:HB3	2:Y2:29:HIS:CD2	2.44	0.52
1:b:250:LEU:HD12	1:b:251:PRO:HD2	1.90	0.52
1:c:239:ARG:HD2	1:c:686:GLU:OE2	2.10	0.52
1:p:239:ARG:HD2	1:p:686:GLU:OE2	2.10	0.52
1:q:239:ARG:HD2	1:q:686:GLU:OE2	2.10	0.52
1:5:738:LEU:HD23	1:6:625:PRO:HB3	1.92	0.52
2:E2:13:GLN:NE2	2:E2:125:SER:OG	2.43	0.52
2:J2:13:GLN:NE2	2:J2:125:SER:OG	2.43	0.52
2:N2:13:GLN:NE2	2:N2:125:SER:OG	2.43	0.52
2:O2:31:MET:O	2:O2:72:ARG:NH2	2.42	0.52
2:U2:31:MET:O	2:U2:72:ARG:NH2	2.42	0.52
2:Y2:13:GLN:NE2	2:Y2:125:SER:OG	2.43	0.52
2:Y2:31:MET:O	2:Y2:72:ARG:NH2	2.42	0.52
2:Y2:88:PRO:HA	2:Y2:124:VAL:HB	1.92	0.52
2:c2:31:MET:O	2:c2:72:ARG:NH2	2.42	0.52
2:d2:37:PHE:CD2	2:d2:116:TRP:CH2	2.98	0.52
2:n2:13:GLN:NE2	2:n2:125:SER:OG	2.43	0.52
2:r2:64:VAL:HG13	2:r2:68:PHE:HD2	1.68	0.52
2:t2:37:PHE:CD2	2:t2:116:TRP:CH2	2.98	0.52
2:v2:13:GLN:NE2	2:v2:125:SER:OG	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v2:37:PHE:CD2	2:v2:116:TRP:CH2	2.98	0.52
2:w2:13:GLN:NE2	2:w2:125:SER:OG	2.43	0.52
2:42:13:GLN:NE2	2:42:125:SER:OG	2.43	0.52
2:62:37:PHE:CD2	2:62:116:TRP:CH2	2.98	0.52
2:72:37:PHE:CD2	2:72:116:TRP:CH2	2.98	0.52
1:F:239:ARG:HD2	1:F:686:GLU:OE2	2.10	0.52
1:K:625:PRO:HB3	1:8:738:LEU:HD23	1.92	0.52
1:L:427:TYR:H	1:L:732:ARG:HG2	1.74	0.52
1:P:250:LEU:HD12	1:P:251:PRO:HD2	1.90	0.52
1:T:738:LEU:HD23	1:d:625:PRO:HB3	1.92	0.52
1:Z:738:LEU:HD23	1:4:625:PRO:HB3	1.92	0.52
1:b:239:ARG:HD2	1:b:686:GLU:OE2	2.10	0.52
1:j:738:LEU:HD23	1:k:625:PRO:HB3	1.92	0.52
1:n:239:ARG:HD2	1:n:686:GLU:OE2	2.10	0.52
1:t:427:TYR:H	1:t:732:ARG:HG2	1.74	0.52
1:7:549:ASN:HB3	2:K2:29:HIS:CD2	2.45	0.52
2:B2:31:MET:O	2:B2:72:ARG:NH2	2.42	0.52
2:C2:13:GLN:NE2	2:C2:125:SER:OG	2.43	0.52
2:E2:88:PRO:HA	2:E2:124:VAL:HB	1.92	0.52
2:F2:88:PRO:HA	2:F2:124:VAL:HB	1.92	0.52
2:K2:37:PHE:CD2	2:K2:116:TRP:CH2	2.98	0.52
2:V2:37:PHE:CD2	2:V2:116:TRP:CH2	2.98	0.52
2:X2:13:GLN:NE2	2:X2:125:SER:OG	2.43	0.52
2:X2:37:PHE:CD2	2:X2:116:TRP:CH2	2.98	0.52
2:g2:13:GLN:NE2	2:g2:125:SER:OG	2.43	0.52
2:p2:88:PRO:HA	2:p2:124:VAL:HB	1.92	0.52
2:z2:13:GLN:NE2	2:z2:125:SER:OG	2.43	0.52
1:F:549:ASN:HB3	2:G2:29:HIS:HD2	1.75	0.52
1:P:549:ASN:HB3	2:Q2:29:HIS:CD2	2.45	0.52
1:T:613:ASP:OD1	1:T:731:THR:OG1	2.28	0.52
1:V:625:PRO:HB3	1:X:738:LEU:HD23	1.92	0.52
1:d:738:LEU:HD23	1:l:625:PRO:HB3	1.92	0.52
1:o:239:ARG:HD2	1:o:686:GLU:OE2	2.09	0.52
1:p:549:ASN:HB3	2:q2:29:HIS:HD2	1.75	0.52
1:x:738:LEU:HD23	1:y:625:PRO:HB3	1.92	0.52
1:z:549:ASN:HB3	2:f2:29:HIS:CD2	2.45	0.52
1:8:613:ASP:OD1	1:8:731:THR:OG1	2.28	0.52
2:A2:37:PHE:CD2	2:A2:116:TRP:CH2	2.98	0.52
2:B2:13:GLN:NE2	2:B2:125:SER:OG	2.43	0.52
2:B2:37:PHE:CD2	2:B2:116:TRP:CH2	2.98	0.52
2:C2:37:PHE:CD2	2:C2:116:TRP:CH2	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F2:31:MET:O	2:F2:72:ARG:NH2	2.42	0.52
2:I2:64:VAL:HG13	2:I2:68:PHE:HD2	1.68	0.52
2:N2:37:PHE:CD2	2:N2:116:TRP:CH2	2.98	0.52
2:R2:13:GLN:NE2	2:R2:125:SER:OG	2.43	0.52
2:W2:13:GLN:NE2	2:W2:125:SER:OG	2.43	0.52
2:Z2:13:GLN:NE2	2:Z2:125:SER:OG	2.43	0.52
2:b2:13:GLN:NE2	2:b2:125:SER:OG	2.43	0.52
2:c2:13:GLN:NE2	2:c2:125:SER:OG	2.43	0.52
2:c2:88:PRO:HA	2:c2:124:VAL:HB	1.92	0.52
2:i2:31:MET:O	2:i2:72:ARG:NH2	2.42	0.52
2:j2:13:GLN:NE2	2:j2:125:SER:OG	2.43	0.52
2:k2:13:GLN:NE2	2:k2:125:SER:OG	2.43	0.52
2:m2:13:GLN:NE2	2:m2:125:SER:OG	2.43	0.52
2:m2:31:MET:O	2:m2:72:ARG:NH2	2.42	0.52
2:m2:37:PHE:CD2	2:m2:116:TRP:CH2	2.98	0.52
2:o2:31:MET:O	2:o2:72:ARG:NH2	2.42	0.52
2:p2:31:MET:O	2:p2:72:ARG:NH2	2.42	0.52
2:q2:61:SER:HB3	2:q2:64:VAL:HG23	1.93	0.52
2:s2:37:PHE:CD2	2:s2:116:TRP:CH2	2.98	0.52
2:y2:13:GLN:NE2	2:y2:125:SER:OG	2.43	0.52
2:62:13:GLN:NE2	2:62:125:SER:OG	2.43	0.52
1:E:613:ASP:OD1	1:E:731:THR:OG1	2.29	0.51
1:K:738:LEU:HD23	1:a:625:PRO:HB3	1.92	0.51
1:Q:239:ARG:HD2	1:Q:686:GLU:OE2	2.09	0.51
1:R:239:ARG:HD2	1:R:686:GLU:OE2	2.10	0.51
1:S:549:ASN:HB3	2:d2:29:HIS:CD2	2.45	0.51
1:T:549:ASN:HB3	2:U2:29:HIS:CD2	2.45	0.51
1:b:549:ASN:HB3	2:o2:29:HIS:CD2	2.45	0.51
1:c:613:ASP:OD1	1:c:731:THR:OG1	2.29	0.51
1:x:239:ARG:HD2	1:x:686:GLU:OE2	2.10	0.51
1:3:625:PRO:HB3	1:4:738:LEU:HD23	1.92	0.51
1:8:549:ASN:HB3	2:52:29:HIS:CD2	2.45	0.51
2:A2:63:ALA:O	2:A2:67:ARG:NH2	2.36	0.51
2:B2:61:SER:HB3	2:B2:64:VAL:HG23	1.93	0.51
2:D2:13:GLN:NE2	2:D2:125:SER:OG	2.43	0.51
2:G2:61:SER:HB3	2:G2:64:VAL:HG23	1.93	0.51
2:M2:13:GLN:NE2	2:M2:125:SER:OG	2.43	0.51
2:P2:13:GLN:NE2	2:P2:125:SER:OG	2.43	0.51
2:Q2:31:MET:O	2:Q2:72:ARG:NH2	2.42	0.51
2:S2:13:GLN:NE2	2:S2:125:SER:OG	2.43	0.51
2:k2:37:PHE:CD2	2:k2:116:TRP:CH2	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m2:61:SER:HB3	2:m2:64:VAL:HG23	1.92	0.51
2:x2:13:GLN:NE2	2:x2:125:SER:OG	2.43	0.51
2:22:61:SER:HB3	2:22:64:VAL:HG23	1.93	0.51
2:42:88:PRO:HA	2:42:124:VAL:HB	1.92	0.51
1:D:549:ASN:HB3	2:C2:29:HIS:CD2	2.45	0.51
1:H:239:ARG:HD2	1:H:686:GLU:OE2	2.10	0.51
1:H:549:ASN:HB3	2:I2:29:HIS:CD2	2.45	0.51
1:R:738:LEU:HD23	1:S:625:PRO:HB3	1.92	0.51
1:i:625:PRO:HB3	1:k:738:LEU:HD23	1.92	0.51
1:l:239:ARG:HD2	1:l:686:GLU:OE2	2.10	0.51
1:v:613:ASP:OD1	1:v:731:THR:OG1	2.28	0.51
1:x:613:ASP:OD1	1:x:731:THR:OG1	2.29	0.51
1:2:549:ASN:HB3	2:32:29:HIS:CD2	2.45	0.51
2:D2:88:PRO:HA	2:D2:124:VAL:HB	1.92	0.51
2:H2:13:GLN:NE2	2:H2:125:SER:OG	2.43	0.51
2:I2:37:PHE:CD2	2:I2:116:TRP:CH2	2.98	0.51
2:J2:61:SER:HB3	2:J2:64:VAL:HG23	1.92	0.51
2:M2:88:PRO:HA	2:M2:124:VAL:HB	1.92	0.51
2:U2:13:GLN:NE2	2:U2:125:SER:OG	2.43	0.51
2:V2:88:PRO:HA	2:V2:124:VAL:HB	1.92	0.51
2:f2:13:GLN:NE2	2:f2:125:SER:OG	2.43	0.51
2:l2:31:MET:O	2:l2:72:ARG:NH2	2.42	0.51
2:r2:37:PHE:CD2	2:r2:116:TRP:CH2	2.98	0.51
2:12:13:GLN:NE2	2:12:125:SER:OG	2.43	0.51
2:32:31:MET:O	2:32:72:ARG:NH2	2.42	0.51
2:42:37:PHE:CD2	2:42:116:TRP:CH2	2.98	0.51
2:52:13:GLN:NE2	2:52:125:SER:OG	2.43	0.51
2:62:61:SER:HB3	2:62:64:VAL:HG23	1.93	0.51
2:72:13:GLN:NE2	2:72:125:SER:OG	2.43	0.51
2:72:61:SER:HB3	2:72:64:VAL:HG23	1.92	0.51
1:E:450:ARG:NH1	1:E:454:THR:OG1	2.44	0.51
1:H:613:ASP:OD1	1:H:731:THR:OG1	2.29	0.51
1:O:625:PRO:HB3	1:n:738:LEU:HD23	1.92	0.51
1:V:738:LEU:HD23	1:e:625:PRO:HB3	1.92	0.51
1:X:613:ASP:OD1	1:X:731:THR:OG1	2.29	0.51
1:c:450:ARG:NH1	1:c:454:THR:OG1	2.44	0.51
1:f:450:ARG:NH1	1:f:454:THR:OG1	2.44	0.51
1:k:450:ARG:NH1	1:k:454:THR:OG1	2.44	0.51
1:q:549:ASN:HB3	2:y2:29:HIS:CD2	2.45	0.51
1:x:549:ASN:HB3	2:r2:29:HIS:CD2	2.45	0.51
1:4:450:ARG:NH1	1:4:454:THR:OG1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:239:ARG:HD2	1:6:686:GLU:OE2	2.10	0.51
1:6:450:ARG:NH1	1:6:454:THR:OG1	2.44	0.51
2:A2:13:GLN:NE2	2:A2:125:SER:OG	2.43	0.51
2:L2:13:GLN:NE2	2:L2:125:SER:OG	2.43	0.51
2:P2:63:ALA:O	2:P2:67:ARG:NH2	2.36	0.51
2:R2:61:SER:HB3	2:R2:64:VAL:HG23	1.93	0.51
2:S2:61:SER:HB3	2:S2:64:VAL:HG23	1.93	0.51
2:T2:13:GLN:NE2	2:T2:125:SER:OG	2.43	0.51
2:Y2:63:ALA:O	2:Y2:67:ARG:NH2	2.36	0.51
2:Z2:63:ALA:O	2:Z2:67:ARG:NH2	2.36	0.51
2:d2:13:GLN:NE2	2:d2:125:SER:OG	2.43	0.51
2:e2:13:GLN:NE2	2:e2:125:SER:OG	2.43	0.51
2:h2:61:SER:HB3	2:h2:64:VAL:HG23	1.93	0.51
2:k2:88:PRO:HA	2:k2:124:VAL:HB	1.92	0.51
2:n2:61:SER:HB3	2:n2:64:VAL:HG23	1.93	0.51
2:s2:13:GLN:NE2	2:s2:125:SER:OG	2.43	0.51
2:12:61:SER:HB3	2:12:64:VAL:HG23	1.92	0.51
2:52:88:PRO:HA	2:52:124:VAL:HB	1.92	0.51
2:82:13:GLN:NE2	2:82:125:SER:OG	2.43	0.51
1:J:738:LEU:HD23	1:L:625:PRO:HB3	1.92	0.51
1:M:549:ASN:HB3	2:N2:29:HIS:CD2	2.45	0.51
1:R:450:ARG:NH1	1:R:454:THR:OG1	2.44	0.51
1:T:450:ARG:NH1	1:T:454:THR:OG1	2.44	0.51
1:a:239:ARG:HD2	1:a:686:GLU:OE2	2.10	0.51
1:a:239:ARG:NH1	1:a:686:GLU:OE2	2.42	0.51
1:c:738:LEU:HD23	1:o:625:PRO:HB3	1.92	0.51
1:k:239:ARG:HD2	1:k:686:GLU:OE2	2.10	0.51
1:1:450:ARG:NH1	1:1:454:THR:OG1	2.44	0.51
1:6:738:LEU:HD23	1:7:625:PRO:HB3	1.92	0.51
1:8:450:ARG:NH1	1:8:454:THR:OG1	2.44	0.51
2:G2:88:PRO:HA	2:G2:124:VAL:HB	1.92	0.51
2:K2:13:GLN:NE2	2:K2:125:SER:OG	2.43	0.51
2:M2:37:PHE:CD2	2:M2:116:TRP:CH2	2.98	0.51
2:O2:13:GLN:NE2	2:O2:125:SER:OG	2.43	0.51
2:U2:61:SER:HB3	2:U2:64:VAL:HG23	1.93	0.51
2:U2:88:PRO:HA	2:U2:124:VAL:HB	1.92	0.51
2:W2:88:PRO:HA	2:W2:124:VAL:HB	1.92	0.51
2:X2:83:MET:HB3	2:X2:86:LEU:HD21	1.93	0.51
2:a2:31:MET:O	2:a2:72:ARG:NH2	2.43	0.51
2:f2:61:SER:HB3	2:f2:64:VAL:HG23	1.93	0.51
2:h2:13:GLN:NE2	2:h2:125:SER:OG	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i2:13:GLN:NE2	2:i2:125:SER:OG	2.43	0.51
2:j2:63:ALA:O	2:j2:67:ARG:NH2	2.36	0.51
2:q2:88:PRO:HA	2:q2:124:VAL:HB	1.92	0.51
2:s2:63:ALA:O	2:s2:67:ARG:NH2	2.36	0.51
2:t2:88:PRO:HA	2:t2:124:VAL:HB	1.92	0.51
2:u2:13:GLN:NE2	2:u2:125:SER:OG	2.43	0.51
2:y2:88:PRO:HA	2:y2:124:VAL:HB	1.92	0.51
2:22:13:GLN:NE2	2:22:125:SER:OG	2.43	0.51
1:B:450:ARG:NH1	1:B:454:THR:OG1	2.44	0.51
1:D:239:ARG:HD2	1:D:686:GLU:OE2	2.10	0.51
1:D:625:PRO:HB3	1:P:738:LEU:HD23	1.92	0.51
1:E:738:LEU:HD23	1:Q:625:PRO:HB3	1.92	0.51
1:G:549:ASN:HB3	2:W2:29:HIS:CD2	2.45	0.51
1:M:613:ASP:OD1	1:M:731:THR:OG1	2.29	0.51
1:Z:549:ASN:HB3	2:H2:29:HIS:HD2	1.75	0.51
1:h:239:ARG:NH1	1:h:686:GLU:OE2	2.42	0.51
1:h:549:ASN:HB3	2:i2:29:HIS:CD2	2.45	0.51
1:m:450:ARG:NH1	1:m:454:THR:OG1	2.44	0.51
1:y:450:ARG:NH1	1:y:454:THR:OG1	2.44	0.51
1:z:450:ARG:NH1	1:z:454:THR:OG1	2.44	0.51
1:2:450:ARG:NH1	1:2:454:THR:OG1	2.44	0.51
1:4:239:ARG:HD2	1:4:686:GLU:OE2	2.10	0.51
2:I2:61:SER:HB3	2:I2:64:VAL:HG23	1.93	0.51
2:K2:83:MET:HB3	2:K2:86:LEU:HD21	1.93	0.51
2:P2:37:PHE:CD2	2:P2:116:TRP:CH2	2.98	0.51
2:R2:83:MET:HB3	2:R2:86:LEU:HD21	1.93	0.51
2:T2:37:PHE:CD2	2:T2:116:TRP:CH2	2.98	0.51
2:X2:61:SER:HB3	2:X2:64:VAL:HG23	1.93	0.51
2:b2:63:ALA:O	2:b2:67:ARG:NH2	2.36	0.51
2:c2:83:MET:HB3	2:c2:86:LEU:HD21	1.93	0.51
2:e2:63:ALA:O	2:e2:67:ARG:NH2	2.36	0.51
2:g2:83:MET:HB3	2:g2:86:LEU:HD21	1.93	0.51
2:i2:88:PRO:HA	2:i2:124:VAL:HB	1.92	0.51
2:k2:83:MET:HB3	2:k2:86:LEU:HD21	1.93	0.51
2:o2:13:GLN:NE2	2:o2:125:SER:OG	2.43	0.51
2:32:13:GLN:NE2	2:32:125:SER:OG	2.43	0.51
2:42:83:MET:HB3	2:42:86:LEU:HD21	1.93	0.51
2:52:61:SER:HB3	2:52:64:VAL:HG23	1.93	0.51
2:62:83:MET:HB3	2:62:86:LEU:HD21	1.93	0.51
2:82:37:PHE:CD2	2:82:116:TRP:CH2	2.98	0.51
1:D:613:ASP:OD1	1:D:731:THR:OG1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:625:PRO:HB3	1:F:738:LEU:HD23	1.92	0.51
1:M:239:ARG:HD2	1:M:686:GLU:OE2	2.10	0.51
1:N:427:TYR:H	1:N:732:ARG:HG2	1.74	0.51
1:U:613:ASP:OD1	1:U:731:THR:OG1	2.28	0.51
1:W:450:ARG:NH1	1:W:454:THR:OG1	2.44	0.51
1:c:625:PRO:HB3	1:p:738:LEU:HD23	1.92	0.51
1:f:613:ASP:OD1	1:f:731:THR:OG1	2.28	0.51
1:g:450:ARG:NH1	1:g:454:THR:OG1	2.44	0.51
1:g:625:PRO:HB3	1:h:738:LEU:HD23	1.92	0.51
1:h:450:ARG:NH1	1:h:454:THR:OG1	2.44	0.51
1:j:549:ASN:HB3	2:x2:29:HIS:HD2	1.75	0.51
1:l:239:ARG:NH1	1:l:686:GLU:OE2	2.42	0.51
1:t:450:ARG:NH1	1:t:454:THR:OG1	2.44	0.51
1:2:239:ARG:NH1	1:2:686:GLU:OE2	2.42	0.51
1:5:613:ASP:OD1	1:5:731:THR:OG1	2.29	0.51
2:D2:83:MET:HB3	2:D2:86:LEU:HD21	1.93	0.51
2:E2:83:MET:HB3	2:E2:86:LEU:HD21	1.93	0.51
2:I2:13:GLN:NE2	2:I2:125:SER:OG	2.43	0.51
2:I2:63:ALA:O	2:I2:67:ARG:NH2	2.36	0.51
2:J2:83:MET:HB3	2:J2:86:LEU:HD21	1.93	0.51
2:N2:83:MET:HB3	2:N2:86:LEU:HD21	1.93	0.51
2:O2:61:SER:HB3	2:O2:64:VAL:HG23	1.93	0.51
2:Q2:13:GLN:NE2	2:Q2:125:SER:OG	2.43	0.51
2:b2:37:PHE:CD2	2:b2:116:TRP:CH2	2.98	0.51
2:d2:83:MET:HB3	2:d2:86:LEU:HD21	1.93	0.51
2:n2:83:MET:HB3	2:n2:86:LEU:HD21	1.93	0.51
2:o2:61:SER:HB3	2:o2:64:VAL:HG23	1.92	0.51
2:r2:61:SER:HB3	2:r2:64:VAL:HG23	1.93	0.51
2:r2:63:ALA:O	2:r2:67:ARG:NH2	2.36	0.51
2:r2:88:PRO:HA	2:r2:124:VAL:HB	1.92	0.51
2:v2:83:MET:HB3	2:v2:86:LEU:HD21	1.93	0.51
2:z2:83:MET:HB3	2:z2:86:LEU:HD21	1.93	0.51
2:32:88:PRO:HA	2:32:124:VAL:HB	1.92	0.51
1:C:625:PRO:HB3	1:M:738:LEU:HD23	1.92	0.51
1:M:625:PRO:HB3	1:b:738:LEU:HD23	1.92	0.51
1:N:613:ASP:OD1	1:N:731:THR:OG1	2.28	0.51
1:Q:450:ARG:NH1	1:Q:454:THR:OG1	2.44	0.51
1:V:450:ARG:NH1	1:V:454:THR:OG1	2.44	0.51
1:Y:450:ARG:NH1	1:Y:454:THR:OG1	2.44	0.51
1:Z:450:ARG:NH1	1:Z:454:THR:OG1	2.44	0.51
1:j:450:ARG:NH1	1:j:454:THR:OG1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:613:ASP:OD1	1:n:731:THR:OG1	2.28	0.51
1:o:450:ARG:NH1	1:o:454:THR:OG1	2.44	0.51
1:q:738:LEU:HD23	1:r:625:PRO:HB3	1.92	0.51
1:w:450:ARG:NH1	1:w:454:THR:OG1	2.44	0.51
1:w:613:ASP:OD1	1:w:731:THR:OG1	2.28	0.51
1:1:613:ASP:OD1	1:1:731:THR:OG1	2.28	0.51
1:7:450:ARG:NH1	1:7:454:THR:OG1	2.44	0.51
2:C2:83:MET:HB3	2:C2:86:LEU:HD21	1.93	0.51
2:D2:37:PHE:CD2	2:D2:116:TRP:CH2	2.98	0.51
2:I2:88:PRO:HA	2:I2:124:VAL:HB	1.92	0.51
2:L2:61:SER:HB3	2:L2:64:VAL:HG23	1.93	0.51
2:N2:61:SER:HB3	2:N2:64:VAL:HG23	1.92	0.51
2:g2:88:PRO:HA	2:g2:124:VAL:HB	1.92	0.51
2:j2:83:MET:HB3	2:j2:86:LEU:HD21	1.93	0.51
2:o2:37:PHE:CD2	2:o2:116:TRP:CH2	2.98	0.51
2:q2:13:GLN:NE2	2:q2:125:SER:OG	2.43	0.51
2:r2:13:GLN:NE2	2:r2:125:SER:OG	2.43	0.51
2:v2:61:SER:HB3	2:v2:64:VAL:HG23	1.93	0.51
1:A:450:ARG:NH1	1:A:454:THR:OG1	2.44	0.51
1:B:625:PRO:HB3	1:L:738:LEU:HD23	1.92	0.51
1:C:427:TYR:H	1:C:732:ARG:HG2	1.74	0.51
1:C:613:ASP:OD1	1:C:731:THR:OG1	2.28	0.51
1:D:450:ARG:NH1	1:D:454:THR:OG1	2.44	0.51
1:K:239:ARG:HD2	1:K:686:GLU:OE2	2.10	0.51
1:O:738:LEU:HD23	1:m:625:PRO:HB3	1.92	0.51
1:P:450:ARG:NH1	1:P:454:THR:OG1	2.44	0.51
1:S:450:ARG:NH1	1:S:454:THR:OG1	2.44	0.51
1:a:450:ARG:NH1	1:a:454:THR:OG1	2.44	0.51
1:i:450:ARG:NH1	1:i:454:THR:OG1	2.44	0.51
1:l:450:ARG:NH1	1:l:454:THR:OG1	2.44	0.51
1:l:613:ASP:OD1	1:l:731:THR:OG1	2.28	0.51
1:r:613:ASP:OD1	1:r:731:THR:OG1	2.28	0.51
1:u:738:LEU:HD23	1:v:625:PRO:HB3	1.92	0.51
1:z:625:PRO:HB3	1:2:738:LEU:HD23	1.92	0.51
1:z:738:LEU:HD23	1:1:625:PRO:HB3	1.92	0.51
1:3:450:ARG:NH1	1:3:454:THR:OG1	2.44	0.51
2:M2:83:MET:HB3	2:M2:86:LEU:HD21	1.93	0.51
2:Q2:37:PHE:CD2	2:Q2:116:TRP:CH2	2.98	0.51
2:e2:37:PHE:CD2	2:e2:116:TRP:CH2	2.98	0.51
2:g2:61:SER:HB3	2:g2:64:VAL:HG23	1.93	0.51
2:u2:88:PRO:HA	2:u2:124:VAL:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x2:88:PRO:HA	2:x2:124:VAL:HB	1.92	0.51
2:y2:83:MET:HB3	2:y2:86:LEU:HD21	1.93	0.51
2:z2:88:PRO:HA	2:z2:124:VAL:HB	1.92	0.51
1:D:738:LEU:HD23	1:N:625:PRO:HB3	1.92	0.51
1:E:549:ASN:HB3	2:D2:29:HIS:HD2	1.75	0.51
1:G:738:LEU:HD23	1:I:625:PRO:HB3	1.92	0.51
1:I:613:ASP:OD1	1:I:731:THR:OG1	2.28	0.51
1:J:613:ASP:OD1	1:J:731:THR:OG1	2.28	0.51
1:M:450:ARG:NH1	1:M:454:THR:OG1	2.44	0.51
1:Q:549:ASN:HB3	2:S2:29:HIS:HD2	1.75	0.51
1:X:450:ARG:NH1	1:X:454:THR:OG1	2.44	0.51
1:Y:613:ASP:OD1	1:Y:731:THR:OG1	2.29	0.51
1:Z:239:ARG:HD2	1:Z:686:GLU:OE2	2.10	0.51
1:a:613:ASP:OD1	1:a:731:THR:OG1	2.28	0.51
1:a:738:LEU:HD23	1:8:625:PRO:HB3	1.92	0.51
1:b:450:ARG:NH1	1:b:454:THR:OG1	2.44	0.51
1:c:549:ASN:HB3	2:M2:29:HIS:HD2	1.75	0.51
1:d:239:ARG:HD2	1:d:686:GLU:OE2	2.10	0.51
1:o:549:ASN:HB3	2:72:29:HIS:HD2	1.75	0.51
1:s:450:ARG:NH1	1:s:454:THR:OG1	2.44	0.51
1:v:450:ARG:NH1	1:v:454:THR:OG1	2.44	0.51
1:x:450:ARG:NH1	1:x:454:THR:OG1	2.44	0.51
1:7:239:ARG:NH1	1:7:686:GLU:OE2	2.42	0.51
2:C2:61:SER:HB3	2:C2:64:VAL:HG23	1.93	0.51
2:F2:13:GLN:NE2	2:F2:125:SER:OG	2.43	0.51
2:G2:13:GLN:NE2	2:G2:125:SER:OG	2.43	0.51
2:H2:88:PRO:HA	2:H2:124:VAL:HB	1.92	0.51
2:X2:88:PRO:HA	2:X2:124:VAL:HB	1.92	0.51
2:Z2:83:MET:HB3	2:Z2:86:LEU:HD21	1.93	0.51
2:a2:83:MET:HB3	2:a2:86:LEU:HD21	1.93	0.51
2:m2:83:MET:HB3	2:m2:86:LEU:HD21	1.93	0.51
2:u2:37:PHE:CD2	2:u2:116:TRP:CH2	2.98	0.51
2:v2:88:PRO:HA	2:v2:124:VAL:HB	1.92	0.51
2:72:83:MET:HB3	2:72:86:LEU:HD21	1.93	0.51
1:H:450:ARG:NH1	1:H:454:THR:OG1	2.44	0.51
1:N:738:LEU:HD23	1:P:625:PRO:HB3	1.92	0.51
1:e:450:ARG:NH1	1:e:454:THR:OG1	2.44	0.51
1:f:625:PRO:HB3	1:g:738:LEU:HD23	1.92	0.51
1:r:450:ARG:NH1	1:r:454:THR:OG1	2.44	0.51
1:s:613:ASP:OD1	1:s:731:THR:OG1	2.29	0.51
1:u:450:ARG:NH1	1:u:454:THR:OG1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:613:ASP:OD1	1:y:731:THR:OG1	2.28	0.51
2:A2:88:PRO:HA	2:A2:124:VAL:HB	1.92	0.51
2:B2:83:MET:HB3	2:B2:86:LEU:HD21	1.93	0.51
2:C2:88:PRO:HA	2:C2:124:VAL:HB	1.92	0.51
2:Q2:61:SER:HB3	2:Q2:64:VAL:HG23	1.93	0.51
2:Q2:64:VAL:HG13	2:Q2:68:PHE:HD2	1.67	0.51
2:S2:83:MET:HB3	2:S2:86:LEU:HD21	1.93	0.51
2:U2:83:MET:HB3	2:U2:86:LEU:HD21	1.93	0.51
2:W2:83:MET:HB3	2:W2:86:LEU:HD21	1.93	0.51
2:l2:83:MET:HB3	2:l2:86:LEU:HD21	1.93	0.51
2:p2:13:GLN:NE2	2:p2:125:SER:OG	2.43	0.51
2:t2:13:GLN:NE2	2:t2:125:SER:OG	2.43	0.51
2:u2:63:ALA:O	2:u2:67:ARG:NH2	2.36	0.51
2:z2:61:SER:HB3	2:z2:64:VAL:HG23	1.93	0.51
2:52:83:MET:HB3	2:52:86:LEU:HD21	1.93	0.51
1:A:613:ASP:OD1	1:A:731:THR:OG1	2.29	0.50
1:C:450:ARG:NH1	1:C:454:THR:OG1	2.44	0.50
1:C:738:LEU:HD23	1:b:625:PRO:HB3	1.92	0.50
1:I:239:ARG:NH1	1:I:686:GLU:OE2	2.42	0.50
1:I:450:ARG:NH1	1:I:454:THR:OG1	2.44	0.50
1:I:549:ASN:HB3	2:J2:29:HIS:CD2	2.47	0.50
1:N:450:ARG:NH1	1:N:454:THR:OG1	2.44	0.50
1:T:625:PRO:HB3	1:l:738:LEU:HD23	1.92	0.50
1:W:549:ASN:HB3	2:V2:29:HIS:CD2	2.47	0.50
1:X:625:PRO:HB3	1:e:738:LEU:HD23	1.92	0.50
1:Z:239:ARG:NH1	1:Z:686:GLU:OE2	2.42	0.50
1:Z:625:PRO:HB3	1:3:738:LEU:HD23	1.92	0.50
1:i:549:ASN:HB3	2:T2:29:HIS:HD2	1.75	0.50
1:j:239:ARG:HD2	1:j:686:GLU:OE2	2.10	0.50
1:q:450:ARG:NH1	1:q:454:THR:OG1	2.44	0.50
1:q:625:PRO:HB3	1:s:738:LEU:HD23	1.92	0.50
1:3:549:ASN:HB3	2:82:29:HIS:HD2	1.75	0.50
2:N2:88:PRO:HA	2:N2:124:VAL:HB	1.92	0.50
2:T2:83:MET:HB3	2:T2:86:LEU:HD21	1.93	0.50
2:X2:89:GLU:HG3	2:X2:89:GLU:O	2.12	0.50
2:e2:88:PRO:HA	2:e2:124:VAL:HB	1.92	0.50
2:h2:88:PRO:HA	2:h2:124:VAL:HB	1.92	0.50
2:s2:83:MET:HB3	2:s2:86:LEU:HD21	1.93	0.50
2:s2:88:PRO:HA	2:s2:124:VAL:HB	1.92	0.50
2:22:88:PRO:HA	2:22:124:VAL:HB	1.92	0.50
2:82:83:MET:HB3	2:82:86:LEU:HD21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:ARG:HG2	1:A:488:GLN:N	2.27	0.50
1:F:613:ASP:OD1	1:F:731:THR:OG1	2.29	0.50
1:G:450:ARG:NH1	1:G:454:THR:OG1	2.44	0.50
1:O:239:ARG:NH1	1:O:686:GLU:OE2	2.42	0.50
1:S:239:ARG:NH1	1:S:686:GLU:OE2	2.42	0.50
1:W:613:ASP:OD1	1:W:731:THR:OG1	2.28	0.50
1:f:549:ASN:HB3	2:X2:29:HIS:CD2	2.46	0.50
1:h:613:ASP:OD1	1:h:731:THR:OG1	2.29	0.50
1:j:239:ARG:NH1	1:j:686:GLU:OE2	2.42	0.50
1:r:239:ARG:NH1	1:r:686:GLU:OE2	2.42	0.50
1:r:549:ASN:HB3	2:n2:29:HIS:CD2	2.47	0.50
1:s:487:ARG:HG2	1:s:488:GLN:N	2.27	0.50
1:t:549:ASN:HB3	2:62:29:HIS:HD2	1.76	0.50
1:y:549:ASN:HB3	2:t2:29:HIS:CD2	2.47	0.50
1:5:549:ASN:HB3	2:u2:29:HIS:CD2	2.46	0.50
2:A2:83:MET:HB3	2:A2:86:LEU:HD21	1.93	0.50
2:D2:89:GLU:HG3	2:D2:89:GLU:O	2.12	0.50
2:I2:83:MET:HB3	2:I2:86:LEU:HD21	1.93	0.50
2:J2:89:GLU:HG3	2:J2:89:GLU:O	2.12	0.50
2:R2:89:GLU:HG3	2:R2:89:GLU:O	2.12	0.50
2:S2:89:GLU:HG3	2:S2:89:GLU:O	2.12	0.50
2:V2:13:GLN:NE2	2:V2:125:SER:OG	2.43	0.50
2:V2:61:SER:HB3	2:V2:64:VAL:HG23	1.92	0.50
2:i2:61:SER:HB3	2:i2:64:VAL:HG23	1.92	0.50
2:i2:83:MET:HB3	2:i2:86:LEU:HD21	1.93	0.50
2:n2:89:GLU:HG3	2:n2:89:GLU:O	2.12	0.50
2:t2:61:SER:HB3	2:t2:64:VAL:HG23	1.92	0.50
2:32:61:SER:HB3	2:32:64:VAL:HG23	1.92	0.50
2:32:83:MET:HB3	2:32:86:LEU:HD21	1.93	0.50
2:72:89:GLU:HG3	2:72:89:GLU:O	2.12	0.50
1:J:450:ARG:NH1	1:J:454:THR:OG1	2.44	0.50
1:T:487:ARG:HG2	1:T:488:GLN:N	2.27	0.50
1:U:549:ASN:HB3	2:e2:29:HIS:CD2	2.46	0.50
1:W:487:ARG:HG2	1:W:488:GLN:N	2.27	0.50
1:d:613:ASP:OD1	1:d:731:THR:OG1	2.28	0.50
1:i:738:LEU:HD23	1:j:625:PRO:HB3	1.92	0.50
1:p:613:ASP:OD1	1:p:731:THR:OG1	2.29	0.50
1:w:738:LEU:HD23	1:x:625:PRO:HB3	1.92	0.50
1:y:487:ARG:HG2	1:y:488:GLN:N	2.27	0.50
1:1:549:ASN:HB3	2:v2:29:HIS:CD2	2.47	0.50
1:2:613:ASP:OD1	1:2:731:THR:OG1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:487:ARG:HG2	1:8:488:GLN:N	2.27	0.50
2:K2:88:PRO:HA	2:K2:124:VAL:HB	1.92	0.50
2:M2:89:GLU:HG3	2:M2:89:GLU:O	2.12	0.50
2:O2:88:PRO:HA	2:O2:124:VAL:HB	1.92	0.50
2:d2:88:PRO:HA	2:d2:124:VAL:HB	1.92	0.50
2:l2:88:PRO:HA	2:l2:124:VAL:HB	1.92	0.50
2:r2:83:MET:HB3	2:r2:86:LEU:HD21	1.93	0.50
2:v2:89:GLU:HG3	2:v2:89:GLU:O	2.12	0.50
2:62:89:GLU:O	2:62:89:GLU:HG3	2.12	0.50
1:A:738:LEU:HD23	1:G:625:PRO:HB3	1.92	0.50
1:D:239:ARG:NH1	1:D:686:GLU:OE2	2.42	0.50
1:K:487:ARG:HG2	1:K:488:GLN:N	2.27	0.50
1:L:239:ARG:NH1	1:L:686:GLU:OE2	2.42	0.50
1:X:487:ARG:HG2	1:X:488:GLN:N	2.27	0.50
1:d:487:ARG:HG2	1:d:488:GLN:N	2.27	0.50
1:k:549:ASN:HB3	2:g2:29:HIS:HD2	1.75	0.50
1:l:487:ARG:HG2	1:l:488:GLN:N	2.26	0.50
1:v:487:ARG:HG2	1:v:488:GLN:N	2.27	0.50
1:v:549:ASN:HB3	2:w2:29:HIS:HD2	1.76	0.50
1:4:613:ASP:OD1	1:4:731:THR:OG1	2.29	0.50
2:A2:2:VAL:HB	2:A2:115:TYR:CE1	2.47	0.50
2:A2:61:SER:HB3	2:A2:64:VAL:HG23	1.93	0.50
2:B2:2:VAL:HB	2:B2:115:TYR:CE1	2.47	0.50
2:J2:2:VAL:HB	2:J2:115:TYR:CE1	2.47	0.50
2:J2:88:PRO:HA	2:J2:124:VAL:HB	1.92	0.50
2:L2:88:PRO:HA	2:L2:124:VAL:HB	1.92	0.50
2:P2:61:SER:HB3	2:P2:64:VAL:HG23	1.93	0.50
2:U2:2:VAL:HB	2:U2:115:TYR:CE1	2.47	0.50
2:V2:89:GLU:O	2:V2:89:GLU:HG3	2.12	0.50
2:a2:88:PRO:HA	2:a2:124:VAL:HB	1.92	0.50
2:f2:88:PRO:HA	2:f2:124:VAL:HB	1.92	0.50
2:m2:89:GLU:HG3	2:m2:89:GLU:O	2.12	0.50
2:n2:88:PRO:HA	2:n2:124:VAL:HB	1.92	0.50
2:o2:64:VAL:HG13	2:o2:68:PHE:HD2	1.67	0.50
2:s2:2:VAL:HB	2:s2:115:TYR:CE1	2.47	0.50
2:t2:89:GLU:O	2:t2:89:GLU:HG3	2.12	0.50
2:w2:89:GLU:HG3	2:w2:89:GLU:O	2.12	0.50
2:12:2:VAL:HB	2:12:115:TYR:CE1	2.47	0.50
2:22:2:VAL:HB	2:22:115:TYR:CE1	2.47	0.50
2:52:2:VAL:HB	2:52:115:TYR:CE1	2.47	0.50
2:82:61:SER:HB3	2:82:64:VAL:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:613:ASP:OD1	1:K:731:THR:OG1	2.28	0.50
1:a:450:ARG:NH1	1:a:454:THR:H	2.07	0.50
1:a:487:ARG:HG2	1:a:488:GLN:N	2.26	0.50
1:j:613:ASP:OD1	1:j:731:THR:OG1	2.29	0.50
1:k:613:ASP:OD1	1:k:731:THR:OG1	2.29	0.50
1:n:450:ARG:NH1	1:n:454:THR:OG1	2.44	0.50
1:p:450:ARG:NH1	1:p:454:THR:OG1	2.44	0.50
1:t:495:THR:HG22	1:v:463:LEU:HD13	1.93	0.50
1:4:549:ASN:HB3	2:z2:29:HIS:HD2	1.75	0.50
2:B2:89:GLU:HG3	2:B2:89:GLU:O	2.12	0.50
2:D2:2:VAL:HB	2:D2:115:TYR:CE1	2.47	0.50
2:H2:61:SER:HB3	2:H2:64:VAL:HG23	1.93	0.50
2:P2:88:PRO:HA	2:P2:124:VAL:HB	1.92	0.50
2:R2:2:VAL:HB	2:R2:115:TYR:CE1	2.47	0.50
2:R2:88:PRO:HA	2:R2:124:VAL:HB	1.92	0.50
2:T2:61:SER:HB3	2:T2:64:VAL:HG23	1.93	0.50
2:Y2:89:GLU:O	2:Y2:89:GLU:HG3	2.12	0.50
2:Z2:61:SER:HB3	2:Z2:64:VAL:HG23	1.92	0.50
2:b2:88:PRO:HA	2:b2:124:VAL:HB	1.92	0.50
2:h2:2:VAL:HB	2:h2:115:TYR:CE1	2.47	0.50
2:n2:2:VAL:HB	2:n2:115:TYR:CE1	2.47	0.50
2:s2:61:SER:HB3	2:s2:64:VAL:HG23	1.93	0.50
2:u2:83:MET:HB3	2:u2:86:LEU:HD21	1.93	0.50
2:w2:61:SER:HB3	2:w2:64:VAL:HG23	1.93	0.50
2:12:88:PRO:HA	2:12:124:VAL:HB	1.92	0.50
2:62:2:VAL:HB	2:62:115:TYR:CE1	2.47	0.50
1:B:613:ASP:OD1	1:B:731:THR:OG1	2.29	0.50
1:F:450:ARG:NH1	1:F:454:THR:OG1	2.44	0.50
1:H:487:ARG:HG2	1:H:488:GLN:N	2.27	0.50
1:H:625:PRO:HB3	1:Y:738:LEU:HD23	1.92	0.50
1:J:487:ARG:HG2	1:J:488:GLN:N	2.27	0.50
1:M:239:ARG:NH1	1:M:686:GLU:OE2	2.42	0.50
1:V:613:ASP:OD1	1:V:731:THR:OG1	2.28	0.50
1:Y:487:ARG:HG2	1:Y:488:GLN:N	2.27	0.50
1:m:613:ASP:OD1	1:m:731:THR:OG1	2.29	0.50
1:n:399:GLU:OE2	1:n:652:LYS:NZ	2.45	0.50
1:n:487:ARG:HG2	1:n:488:GLN:N	2.27	0.50
1:t:613:ASP:OD1	1:t:731:THR:OG1	2.29	0.50
1:u:549:ASN:HB3	2:22:29:HIS:HD2	1.77	0.50
1:x:487:ARG:HG2	1:x:488:GLN:N	2.27	0.50
1:5:450:ARG:NH1	1:5:454:THR:OG1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:399:GLU:OE2	1:8:652:LYS:NZ	2.45	0.50
2:F2:61:SER:HB3	2:F2:64:VAL:HG23	1.92	0.50
2:M2:2:VAL:HB	2:M2:115:TYR:CE1	2.47	0.50
2:Y2:61:SER:HB3	2:Y2:64:VAL:HG23	1.93	0.50
2:a2:2:VAL:HB	2:a2:115:TYR:CE1	2.47	0.50
2:b2:61:SER:HB3	2:b2:64:VAL:HG23	1.93	0.50
2:e2:83:MET:HB3	2:e2:86:LEU:HD21	1.93	0.50
2:i2:2:VAL:HB	2:i2:115:TYR:CE1	2.47	0.50
2:l2:2:VAL:HB	2:l2:115:TYR:CE1	2.47	0.50
2:m2:2:VAL:HB	2:m2:115:TYR:CE1	2.47	0.50
2:o2:88:PRO:HA	2:o2:124:VAL:HB	1.92	0.50
2:x2:61:SER:HB3	2:x2:64:VAL:HG23	1.93	0.50
2:32:2:VAL:HB	2:32:115:TYR:CE1	2.47	0.50
2:62:88:PRO:HA	2:62:124:VAL:HB	1.92	0.50
1:J:399:GLU:OE2	1:J:652:LYS:NZ	2.45	0.50
1:K:450:ARG:NH1	1:K:454:THR:H	2.07	0.50
1:O:450:ARG:NH1	1:O:454:THR:OG1	2.44	0.50
1:T:399:GLU:OE2	1:T:652:LYS:NZ	2.45	0.50
1:U:450:ARG:NH1	1:U:454:THR:OG1	2.44	0.50
1:W:450:ARG:NH1	1:W:454:THR:H	2.07	0.50
1:X:549:ASN:HB3	2:Y2:29:HIS:HD2	1.76	0.50
1:Z:613:ASP:OD1	1:Z:731:THR:OG1	2.29	0.50
1:e:549:ASN:HB3	2:h2:29:HIS:HD2	1.77	0.50
1:h:487:ARG:HG2	1:h:488:GLN:N	2.27	0.50
1:k:399:GLU:OE2	1:k:652:LYS:NZ	2.45	0.50
1:o:613:ASP:OD1	1:o:731:THR:OG1	2.29	0.50
1:w:487:ARG:HG2	1:w:488:GLN:N	2.27	0.50
1:y:450:ARG:NH1	1:y:454:THR:H	2.07	0.50
1:z:613:ASP:OD1	1:z:731:THR:OG1	2.29	0.50
2:B2:63:ALA:O	2:B2:67:ARG:NH2	2.36	0.50
2:C2:2:VAL:HB	2:C2:115:TYR:CE1	2.47	0.50
2:D2:61:SER:HB3	2:D2:64:VAL:HG23	1.93	0.50
2:Z2:88:PRO:HA	2:Z2:124:VAL:HB	1.92	0.50
2:f2:2:VAL:HB	2:f2:115:TYR:CE1	2.47	0.50
2:j2:61:SER:HB3	2:j2:64:VAL:HG23	1.92	0.50
2:k2:2:VAL:HB	2:k2:115:TYR:CE1	2.47	0.50
2:p2:61:SER:HB3	2:p2:64:VAL:HG23	1.92	0.50
2:v2:2:VAL:HB	2:v2:115:TYR:CE1	2.47	0.50
2:42:2:VAL:HB	2:42:115:TYR:CE1	2.47	0.50
2:42:61:SER:HB3	2:42:64:VAL:HG23	1.92	0.50
2:82:89:GLU:HG3	2:82:89:GLU:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:399:GLU:OE2	1:D:652:LYS:NZ	2.45	0.50
1:I:487:ARG:HG2	1:I:488:GLN:N	2.27	0.50
1:L:450:ARG:NH1	1:L:454:THR:OG1	2.44	0.50
1:M:399:GLU:OE2	1:M:652:LYS:NZ	2.45	0.50
1:N:549:ASN:HB3	2:m2:29:HIS:CD2	2.46	0.50
1:Q:613:ASP:OD1	1:Q:731:THR:OG1	2.29	0.50
1:i:487:ARG:HG2	1:i:488:GLN:N	2.27	0.50
1:r:487:ARG:HG2	1:r:488:GLN:N	2.27	0.50
1:3:399:GLU:OE2	1:3:652:LYS:NZ	2.45	0.50
1:3:487:ARG:HG2	1:3:488:GLN:N	2.27	0.50
1:4:399:GLU:OE2	1:4:652:LYS:NZ	2.45	0.50
1:4:487:ARG:HG2	1:4:488:GLN:N	2.27	0.50
2:I2:2:VAL:HB	2:I2:115:TYR:CE1	2.47	0.50
2:L2:2:VAL:HB	2:L2:115:TYR:CE1	2.47	0.50
2:N2:2:VAL:HB	2:N2:115:TYR:CE1	2.47	0.50
2:Q2:2:VAL:HB	2:Q2:115:TYR:CE1	2.47	0.50
2:Q2:88:PRO:HA	2:Q2:124:VAL:HB	1.92	0.50
2:Q2:89:GLU:O	2:Q2:89:GLU:HG3	2.12	0.50
2:V2:83:MET:HB3	2:V2:86:LEU:HD21	1.93	0.50
2:X2:2:VAL:HB	2:X2:115:TYR:CE1	2.47	0.50
2:Y2:2:VAL:HB	2:Y2:115:TYR:CE1	2.47	0.50
2:d2:89:GLU:HG3	2:d2:89:GLU:O	2.12	0.50
2:m2:88:PRO:HA	2:m2:124:VAL:HB	1.92	0.50
2:o2:2:VAL:HB	2:o2:115:TYR:CE1	2.47	0.50
2:o2:89:GLU:HG3	2:o2:89:GLU:O	2.12	0.50
2:r2:2:VAL:HB	2:r2:115:TYR:CE1	2.47	0.50
2:t2:83:MET:HB3	2:t2:86:LEU:HD21	1.93	0.50
1:C:549:ASN:HB3	2:B2:29:HIS:CD2	2.46	0.50
1:g:613:ASP:OD1	1:g:731:THR:OG1	2.29	0.50
1:i:399:GLU:OE2	1:i:652:LYS:NZ	2.45	0.50
1:k:487:ARG:HG2	1:k:488:GLN:N	2.27	0.50
1:2:487:ARG:HG2	1:2:488:GLN:N	2.27	0.50
1:6:613:ASP:OD1	1:6:731:THR:OG1	2.29	0.50
2:E2:61:SER:HB3	2:E2:64:VAL:HG23	1.93	0.50
2:F2:2:VAL:HB	2:F2:115:TYR:CE1	2.47	0.50
2:H2:83:MET:HB3	2:H2:86:LEU:HD21	1.93	0.50
2:K2:61:SER:HB3	2:K2:64:VAL:HG23	1.93	0.50
2:K2:89:GLU:HG3	2:K2:89:GLU:O	2.12	0.50
2:M2:61:SER:HB3	2:M2:64:VAL:HG23	1.93	0.50
2:P2:83:MET:HB3	2:P2:86:LEU:HD21	1.93	0.50
2:S2:2:VAL:HB	2:S2:115:TYR:CE1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T2:89:GLU:HG3	2:T2:89:GLU:O	2.12	0.50
2:W2:61:SER:HB3	2:W2:64:VAL:HG23	1.93	0.50
2:a2:61:SER:HB3	2:a2:64:VAL:HG23	1.93	0.50
2:c2:61:SER:HB3	2:c2:64:VAL:HG23	1.93	0.50
2:d2:61:SER:HB3	2:d2:64:VAL:HG23	1.93	0.50
2:j2:88:PRO:HA	2:j2:124:VAL:HB	1.92	0.50
2:m2:63:ALA:O	2:m2:67:ARG:NH2	2.36	0.50
2:x2:83:MET:HB3	2:x2:86:LEU:HD21	1.93	0.50
2:y2:61:SER:HB3	2:y2:64:VAL:HG23	1.93	0.50
2:12:89:GLU:HG3	2:12:89:GLU:O	2.11	0.50
2:72:2:VAL:HB	2:72:115:TYR:CE1	2.47	0.50
2:82:88:PRO:HA	2:82:124:VAL:HB	1.92	0.50
1:D:549:ASN:HB3	2:C2:29:HIS:HD2	1.77	0.49
1:J:239:ARG:NH1	1:J:686:GLU:OE2	2.42	0.49
1:K:549:ASN:HB3	2:L2:29:HIS:CD2	2.46	0.49
1:L:613:ASP:OD1	1:L:731:THR:OG1	2.28	0.49
1:S:613:ASP:OD1	1:S:731:THR:OG1	2.28	0.49
1:d:450:ARG:NH1	1:d:454:THR:H	2.07	0.49
1:e:487:ARG:HG2	1:e:488:GLN:N	2.27	0.49
1:f:239:ARG:NH1	1:f:686:GLU:OE2	2.42	0.49
1:p:450:ARG:NH1	1:p:454:THR:H	2.07	0.49
1:q:399:GLU:OE2	1:q:652:LYS:NZ	2.45	0.49
1:z:450:ARG:NH1	1:z:454:THR:H	2.07	0.49
2:C2:89:GLU:O	2:C2:89:GLU:HG3	2.12	0.49
2:N2:89:GLU:O	2:N2:89:GLU:HG3	2.12	0.49
2:O2:2:VAL:HB	2:O2:115:TYR:CE1	2.47	0.49
2:S2:88:PRO:HA	2:S2:124:VAL:HB	1.92	0.49
2:g2:89:GLU:HG3	2:g2:89:GLU:O	2.12	0.49
2:k2:61:SER:HB3	2:k2:64:VAL:HG23	1.93	0.49
2:l2:61:SER:HB3	2:l2:64:VAL:HG23	1.93	0.49
2:p2:2:VAL:HB	2:p2:115:TYR:CE1	2.47	0.49
2:t2:2:VAL:HB	2:t2:115:TYR:CE1	2.47	0.49
2:w2:2:VAL:HB	2:w2:115:TYR:CE1	2.47	0.49
2:z2:89:GLU:HG3	2:z2:89:GLU:O	2.12	0.49
1:E:291:HIS:CG	1:E:367:PRO:HB3	2.48	0.49
1:F:399:GLU:OE2	1:F:652:LYS:NZ	2.45	0.49
1:F:450:ARG:NH1	1:F:454:THR:H	2.07	0.49
1:F:625:PRO:HB3	1:Q:738:LEU:HD23	1.92	0.49
1:G:399:GLU:OE2	1:G:652:LYS:NZ	2.45	0.49
1:G:487:ARG:HG2	1:G:488:GLN:N	2.27	0.49
1:K:450:ARG:NH1	1:K:454:THR:OG1	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:613:ASP:OD1	1:O:731:THR:OG1	2.28	0.49
1:Q:399:GLU:OE2	1:Q:652:LYS:NZ	2.45	0.49
1:R:613:ASP:OD1	1:R:731:THR:OG1	2.28	0.49
1:T:549:ASN:HB3	2:U2:29:HIS:HD2	1.78	0.49
1:U:399:GLU:OE2	1:U:652:LYS:NZ	2.45	0.49
1:U:549:ASN:HB2	2:e2:28:THR:OG1	2.13	0.49
1:o:738:LEU:HD23	1:p:625:PRO:HB3	1.92	0.49
1:z:549:ASN:HB3	2:f2:29:HIS:HD2	1.77	0.49
1:5:399:GLU:OE2	1:5:652:LYS:NZ	2.45	0.49
1:6:291:HIS:CG	1:6:367:PRO:HB3	2.48	0.49
1:7:487:ARG:HG2	1:7:488:GLN:N	2.27	0.49
1:7:613:ASP:OD1	1:7:731:THR:OG1	2.28	0.49
2:B2:88:PRO:HA	2:B2:124:VAL:HB	1.92	0.49
2:F2:83:MET:HB3	2:F2:86:LEU:HD21	1.93	0.49
2:G2:89:GLU:HG3	2:G2:89:GLU:O	2.12	0.49
2:H2:2:VAL:HB	2:H2:115:TYR:CE1	2.47	0.49
2:T2:88:PRO:HA	2:T2:124:VAL:HB	1.92	0.49
2:V2:2:VAL:HB	2:V2:115:TYR:CE1	2.47	0.49
2:b2:83:MET:HB3	2:b2:86:LEU:HD21	1.93	0.49
2:f2:89:GLU:HG3	2:f2:89:GLU:O	2.12	0.49
2:h2:89:GLU:HG3	2:h2:89:GLU:O	2.12	0.49
2:q2:89:GLU:O	2:q2:89:GLU:HG3	2.12	0.49
2:x2:2:VAL:HB	2:x2:115:TYR:CE1	2.47	0.49
2:22:89:GLU:HG3	2:22:89:GLU:O	2.12	0.49
1:C:487:ARG:HG2	1:C:488:GLN:N	2.27	0.49
1:C:549:ASN:HB2	2:B2:28:THR:OG1	2.13	0.49
1:D:463:LEU:HD13	1:N:495:THR:HG22	1.94	0.49
1:E:472:THR:HB	1:E:475:ASN:HD22	1.78	0.49
1:I:291:HIS:CG	1:I:367:PRO:HB3	2.48	0.49
1:L:399:GLU:OE2	1:L:652:LYS:NZ	2.45	0.49
1:O:399:GLU:OE2	1:O:652:LYS:NZ	2.45	0.49
1:P:399:GLU:OE2	1:P:652:LYS:NZ	2.45	0.49
1:Q:313:ARG:NE	1:Q:686:GLU:OE1	2.46	0.49
1:Q:472:THR:HB	1:Q:475:ASN:HD22	1.78	0.49
1:R:291:HIS:CG	1:R:367:PRO:HB3	2.48	0.49
1:R:313:ARG:NE	1:R:686:GLU:OE1	2.46	0.49
1:S:487:ARG:HG2	1:S:488:GLN:N	2.27	0.49
1:V:549:ASN:HB3	2:R2:29:HIS:HD2	1.77	0.49
1:X:399:GLU:OE2	1:X:652:LYS:NZ	2.45	0.49
1:Y:239:ARG:NH1	1:Y:686:GLU:OE2	2.42	0.49
1:b:291:HIS:CG	1:b:367:PRO:HB3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:291:HIS:CG	1:c:367:PRO:HB3	2.48	0.49
1:c:472:THR:HB	1:c:475:ASN:HD22	1.78	0.49
1:d:450:ARG:NH1	1:d:454:THR:OG1	2.44	0.49
1:d:549:ASN:HB3	2:O2:29:HIS:CD2	2.46	0.49
1:e:313:ARG:NE	1:e:686:GLU:OE1	2.46	0.49
1:h:472:THR:HB	1:h:475:ASN:HD22	1.78	0.49
1:o:313:ARG:NE	1:o:686:GLU:OE1	2.46	0.49
1:o:399:GLU:OE2	1:o:652:LYS:NZ	2.45	0.49
1:o:472:THR:HB	1:o:475:ASN:HD22	1.78	0.49
1:p:399:GLU:OE2	1:p:652:LYS:NZ	2.45	0.49
1:q:487:ARG:HG2	1:q:488:GLN:N	2.27	0.49
1:r:291:HIS:CG	1:r:367:PRO:HB3	2.48	0.49
1:u:487:ARG:HG2	1:u:488:GLN:N	2.27	0.49
1:v:399:GLU:OE2	1:v:652:LYS:NZ	2.45	0.49
1:w:239:ARG:NH1	1:w:686:GLU:OE2	2.42	0.49
1:1:239:ARG:NH1	1:1:686:GLU:OE2	2.42	0.49
1:2:472:THR:HB	1:2:475:ASN:HD22	1.78	0.49
1:5:549:ASN:HB2	2:u2:28:THR:OG1	2.13	0.49
1:6:313:ARG:NE	1:6:686:GLU:OE1	2.46	0.49
1:8:549:ASN:HB3	2:52:29:HIS:HD2	1.78	0.49
2:F2:89:GLU:O	2:F2:89:GLU:HG3	2.12	0.49
2:c2:2:VAL:HB	2:c2:115:TYR:CE1	2.47	0.49
2:j2:2:VAL:HB	2:j2:115:TYR:CE1	2.47	0.49
2:u2:61:SER:HB3	2:u2:64:VAL:HG23	1.93	0.49
2:12:83:MET:HB3	2:12:86:LEU:HD21	1.93	0.49
1:A:399:GLU:OE2	1:A:652:LYS:NZ	2.45	0.49
1:C:495:THR:HG22	1:M:463:LEU:HD13	1.94	0.49
1:D:472:THR:HB	1:D:475:ASN:HD22	1.78	0.49
1:G:463:LEU:HD13	1:I:495:THR:HG22	1.94	0.49
1:H:313:ARG:NE	1:H:686:GLU:OE1	2.46	0.49
1:J:291:HIS:CG	1:J:367:PRO:HB3	2.48	0.49
1:J:472:THR:HB	1:J:475:ASN:HD22	1.78	0.49
1:K:291:HIS:CG	1:K:367:PRO:HB3	2.48	0.49
1:K:472:THR:HB	1:K:475:ASN:HD22	1.78	0.49
1:M:291:HIS:CG	1:M:367:PRO:HB3	2.48	0.49
1:M:472:THR:HB	1:M:475:ASN:HD22	1.78	0.49
1:M:487:ARG:HG2	1:M:488:GLN:N	2.27	0.49
1:M:549:ASN:HB3	2:N2:29:HIS:HD2	1.78	0.49
1:N:399:GLU:OE2	1:N:652:LYS:NZ	2.45	0.49
1:N:549:ASN:HB2	2:m2:28:THR:OG1	2.13	0.49
1:P:291:HIS:CG	1:P:367:PRO:HB3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:487:ARG:HG2	1:Q:488:GLN:N	2.27	0.49
1:S:472:THR:HB	1:S:475:ASN:HD22	1.78	0.49
1:d:472:THR:HB	1:d:475:ASN:HD22	1.78	0.49
1:h:674:THR:H	2:h2:104:SER:HG	1.57	0.49
1:i:613:ASP:OD1	1:i:731:THR:OG1	2.29	0.49
1:n:239:ARG:NH1	1:n:686:GLU:OE2	2.42	0.49
1:n:291:HIS:CG	1:n:367:PRO:HB3	2.48	0.49
1:o:487:ARG:HG2	1:o:488:GLN:N	2.27	0.49
1:u:313:ARG:NE	1:u:686:GLU:OE1	2.46	0.49
1:x:313:ARG:NE	1:x:686:GLU:OE1	2.46	0.49
1:5:472:THR:HB	1:5:475:ASN:HD22	1.78	0.49
2:E2:2:VAL:HB	2:E2:115:TYR:CE1	2.47	0.49
2:G2:83:MET:HB3	2:G2:86:LEU:HD21	1.93	0.49
2:I2:89:GLU:HG3	2:I2:89:GLU:O	2.12	0.49
2:K2:2:VAL:HB	2:K2:115:TYR:CE1	2.47	0.49
2:O2:83:MET:HB3	2:O2:86:LEU:HD21	1.93	0.49
2:Z2:2:VAL:HB	2:Z2:115:TYR:CE1	2.47	0.49
2:b2:2:VAL:HB	2:b2:115:TYR:CE1	2.47	0.49
2:d2:2:VAL:HB	2:d2:115:TYR:CE1	2.47	0.49
2:e2:61:SER:HB3	2:e2:64:VAL:HG23	1.93	0.49
2:f2:83:MET:HB3	2:f2:86:LEU:HD21	1.93	0.49
2:i2:89:GLU:O	2:i2:89:GLU:HG3	2.12	0.49
2:p2:83:MET:HB3	2:p2:86:LEU:HD21	1.93	0.49
2:32:89:GLU:O	2:32:89:GLU:HG3	2.12	0.49
2:72:88:PRO:HA	2:72:124:VAL:HB	1.92	0.49
1:A:291:HIS:CG	1:A:367:PRO:HB3	2.48	0.49
1:C:399:GLU:OE2	1:C:652:LYS:NZ	2.45	0.49
1:D:291:HIS:CG	1:D:367:PRO:HB3	2.48	0.49
1:D:487:ARG:HG2	1:D:488:GLN:N	2.27	0.49
1:H:472:THR:HB	1:H:475:ASN:HD22	1.78	0.49
1:N:487:ARG:HG2	1:N:488:GLN:N	2.27	0.49
1:O:549:ASN:HB3	2:P2:29:HIS:HD2	1.77	0.49
1:P:549:ASN:HB3	2:Q2:29:HIS:HD2	1.77	0.49
1:R:463:LEU:HD13	1:S:495:THR:HG22	1.95	0.49
1:T:239:ARG:NH1	1:T:686:GLU:OE2	2.42	0.49
1:U:291:HIS:CG	1:U:367:PRO:HB3	2.48	0.49
1:V:291:HIS:CG	1:V:367:PRO:HB3	2.48	0.49
1:V:313:ARG:NE	1:V:686:GLU:OE1	2.46	0.49
1:Y:291:HIS:CG	1:Y:367:PRO:HB3	2.48	0.49
1:Y:313:ARG:NE	1:Y:686:GLU:OE1	2.46	0.49
1:a:313:ARG:NE	1:a:686:GLU:OE1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:399:GLU:OE2	1:b:652:LYS:NZ	2.45	0.49
1:d:291:HIS:CG	1:d:367:PRO:HB3	2.48	0.49
1:f:487:ARG:HG2	1:f:488:GLN:N	2.27	0.49
1:g:722:VAL:HG11	2:12:29:HIS:ND1	2.28	0.49
1:i:472:THR:HB	1:i:475:ASN:HD22	1.78	0.49
1:k:291:HIS:CG	1:k:367:PRO:HB3	2.48	0.49
1:m:399:GLU:OE2	1:m:652:LYS:NZ	2.45	0.49
1:n:472:THR:HB	1:n:475:ASN:HD22	1.78	0.49
1:q:463:LEU:HD13	1:r:495:THR:HG22	1.94	0.49
1:s:399:GLU:OE2	1:s:652:LYS:NZ	2.45	0.49
1:t:291:HIS:CG	1:t:367:PRO:HB3	2.48	0.49
1:t:626:HIS:CE1	1:v:736:ARG:HH11	2.31	0.49
1:w:291:HIS:CG	1:w:367:PRO:HB3	2.48	0.49
1:w:313:ARG:NE	1:w:686:GLU:OE1	2.46	0.49
1:3:291:HIS:CG	1:3:367:PRO:HB3	2.48	0.49
1:4:291:HIS:CG	1:4:367:PRO:HB3	2.48	0.49
1:6:463:LEU:HD13	1:7:495:THR:HG22	1.95	0.49
1:7:472:THR:HB	1:7:475:ASN:HD22	1.78	0.49
2:L2:83:MET:HB3	2:L2:86:LEU:HD21	1.93	0.49
2:P2:2:VAL:HB	2:P2:115:TYR:CE1	2.47	0.49
2:Q2:83:MET:HB3	2:Q2:86:LEU:HD21	1.93	0.49
2:T2:2:VAL:HB	2:T2:115:TYR:CE1	2.47	0.49
2:l2:89:GLU:HG3	2:l2:89:GLU:O	2.12	0.49
2:q2:83:MET:HB3	2:q2:86:LEU:HD21	1.93	0.49
2:r2:89:GLU:HG3	2:r2:89:GLU:O	2.12	0.49
2:s2:89:GLU:HG3	2:s2:89:GLU:O	2.12	0.49
2:82:2:VAL:HB	2:82:115:TYR:CE1	2.47	0.49
1:B:399:GLU:OE2	1:B:652:LYS:NZ	2.45	0.49
1:C:291:HIS:CG	1:C:367:PRO:HB3	2.48	0.49
1:G:472:THR:HB	1:G:475:ASN:HD22	1.78	0.49
1:M:450:ARG:NH1	1:M:454:THR:H	2.07	0.49
1:N:291:HIS:CG	1:N:367:PRO:HB3	2.48	0.49
1:O:472:THR:HB	1:O:475:ASN:HD22	1.78	0.49
1:O:495:THR:HG22	1:n:463:LEU:HD13	1.95	0.49
1:U:472:THR:HB	1:U:475:ASN:HD22	1.78	0.49
1:Z:463:LEU:HD13	1:4:495:THR:HG22	1.95	0.49
1:b:549:ASN:HB3	2:o2:29:HIS:HD2	1.77	0.49
1:d:239:ARG:NH1	1:d:686:GLU:OE2	2.42	0.49
1:d:549:ASN:HB2	2:O2:28:THR:OG1	2.13	0.49
1:e:399:GLU:OE2	1:e:652:LYS:NZ	2.45	0.49
1:g:399:GLU:OE2	1:g:652:LYS:NZ	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:291:HIS:CG	1:i:367:PRO:HB3	2.48	0.49
1:j:313:ARG:NE	1:j:686:GLU:OE1	2.46	0.49
1:j:463:LEU:HD13	1:k:495:THR:HG22	1.95	0.49
1:l:313:ARG:NE	1:l:686:GLU:OE1	2.46	0.49
1:q:472:THR:HB	1:q:475:ASN:HD22	1.78	0.49
1:s:291:HIS:CG	1:s:367:PRO:HB3	2.48	0.49
1:u:399:GLU:OE2	1:u:652:LYS:NZ	2.45	0.49
1:x:472:THR:HB	1:x:475:ASN:HD22	1.78	0.49
1:z:399:GLU:OE2	1:z:652:LYS:NZ	2.45	0.49
1:1:487:ARG:HG2	1:1:488:GLN:N	2.27	0.49
1:3:472:THR:HB	1:3:475:ASN:HD22	1.78	0.49
1:3:613:ASP:OD1	1:3:731:THR:OG1	2.29	0.49
1:6:399:GLU:OE2	1:6:652:LYS:NZ	2.45	0.49
2:A2:89:GLU:HG3	2:A2:89:GLU:O	2.12	0.49
2:H2:89:GLU:HG3	2:H2:89:GLU:O	2.12	0.49
2:p2:89:GLU:HG3	2:p2:89:GLU:O	2.12	0.49
2:52:89:GLU:HG3	2:52:89:GLU:O	2.12	0.49
1:A:472:THR:HB	1:A:475:ASN:HD22	1.78	0.49
1:B:463:LEU:HD13	1:J:495:THR:HG22	1.95	0.49
1:H:399:GLU:OE2	1:H:652:LYS:NZ	2.45	0.49
1:J:463:LEU:HD13	1:L:495:THR:HG22	1.95	0.49
1:K:239:ARG:NH1	1:K:686:GLU:OE2	2.42	0.49
1:K:549:ASN:HB2	2:L2:28:THR:OG1	2.13	0.49
1:L:472:THR:HB	1:L:475:ASN:HD22	1.78	0.49
1:L:549:ASN:HB3	2:b2:29:HIS:HD2	1.77	0.49
1:O:313:ARG:NE	1:O:686:GLU:OE1	2.46	0.49
1:R:399:GLU:OE2	1:R:652:LYS:NZ	2.45	0.49
1:R:495:THR:HG22	1:U:463:LEU:HD13	1.94	0.49
1:S:399:GLU:OE2	1:S:652:LYS:NZ	2.45	0.49
1:T:472:THR:HB	1:T:475:ASN:HD22	1.78	0.49
1:U:487:ARG:HG2	1:U:488:GLN:N	2.27	0.49
1:V:463:LEU:HD13	1:e:495:THR:HG22	1.95	0.49
1:X:313:ARG:NE	1:X:686:GLU:OE1	2.46	0.49
1:X:450:ARG:NH1	1:X:454:THR:H	2.07	0.49
1:X:472:THR:HB	1:X:475:ASN:HD22	1.78	0.49
1:Z:291:HIS:CG	1:Z:367:PRO:HB3	2.48	0.49
1:Z:313:ARG:NE	1:Z:686:GLU:OE1	2.46	0.49
1:a:472:THR:HB	1:a:475:ASN:HD22	1.78	0.49
1:a:549:ASN:HB3	2:Z2:29:HIS:HD2	1.78	0.49
1:g:313:ARG:NE	1:g:686:GLU:OE1	2.46	0.49
1:i:313:ARG:NE	1:i:686:GLU:OE1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:291:HIS:CG	1:j:367:PRO:HB3	2.48	0.49
1:j:399:GLU:OE2	1:j:652:LYS:NZ	2.45	0.49
1:m:463:LEU:HD13	1:n:495:THR:HG22	1.95	0.49
1:n:549:ASN:HB3	2:l2:29:HIS:HD2	1.77	0.49
1:p:472:THR:HB	1:p:475:ASN:HD22	1.78	0.49
1:q:495:THR:HG22	1:s:463:LEU:HD13	1.95	0.49
1:s:313:ARG:NE	1:s:686:GLU:OE1	2.46	0.49
1:s:472:THR:HB	1:s:475:ASN:HD22	1.78	0.49
1:t:313:ARG:NE	1:t:686:GLU:OE1	2.46	0.49
1:u:291:HIS:CG	1:u:367:PRO:HB3	2.48	0.49
1:v:313:ARG:NE	1:v:686:GLU:OE1	2.46	0.49
1:v:472:THR:HB	1:v:475:ASN:HD22	1.78	0.49
1:z:313:ARG:NE	1:z:686:GLU:OE1	2.46	0.49
1:1:313:ARG:NE	1:1:686:GLU:OE1	2.46	0.49
1:1:399:GLU:OE2	1:1:652:LYS:NZ	2.45	0.49
1:3:313:ARG:NE	1:3:686:GLU:OE1	2.46	0.49
1:5:291:HIS:CG	1:5:367:PRO:HB3	2.48	0.49
1:5:463:LEU:HD13	1:6:495:THR:HG22	1.94	0.49
1:5:487:ARG:HG2	1:5:488:GLN:N	2.27	0.49
1:8:239:ARG:NH1	1:8:686:GLU:OE2	2.42	0.49
2:W2:89:GLU:HG3	2:W2:89:GLU:O	2.12	0.49
2:Z2:89:GLU:HG3	2:Z2:89:GLU:O	2.12	0.49
2:h2:83:MET:HB3	2:h2:86:LEU:HD21	1.93	0.49
2:j2:89:GLU:HG3	2:j2:89:GLU:O	2.12	0.49
2:o2:83:MET:HB3	2:o2:86:LEU:HD21	1.93	0.49
2:u2:89:GLU:HG3	2:u2:89:GLU:O	2.12	0.49
2:y2:89:GLU:O	2:y2:89:GLU:HG3	2.12	0.49
2:22:83:MET:HB3	2:22:86:LEU:HD21	1.93	0.49
1:A:313:ARG:NE	1:A:686:GLU:OE1	2.46	0.49
1:B:239:ARG:NH1	1:B:686:GLU:OE2	2.42	0.49
1:B:472:THR:HB	1:B:475:ASN:HD22	1.78	0.49
1:B:549:ASN:HB3	2:A2:29:HIS:HD2	1.76	0.49
1:G:313:ARG:NE	1:G:686:GLU:OE1	2.46	0.49
1:H:251:PRO:HG3	1:H:374:MET:HE3	1.95	0.49
1:H:549:ASN:HB3	2:I2:29:HIS:HD2	1.78	0.49
1:J:549:ASN:HB3	2:a2:29:HIS:HD2	1.77	0.49
1:K:495:THR:HG22	1:8:463:LEU:HD13	1.95	0.49
1:L:313:ARG:NE	1:L:686:GLU:OE1	2.46	0.49
1:P:472:THR:HB	1:P:475:ASN:HD22	1.78	0.49
1:R:472:THR:HB	1:R:475:ASN:HD22	1.78	0.49
1:W:399:GLU:OE2	1:W:652:LYS:NZ	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:617:GLN:HE22	1:a:728:PRO:HA	1.78	0.49
1:e:291:HIS:CG	1:e:367:PRO:HB3	2.48	0.49
1:f:291:HIS:CG	1:f:367:PRO:HB3	2.48	0.49
1:f:313:ARG:NE	1:f:686:GLU:OE1	2.46	0.49
1:f:399:GLU:OE2	1:f:652:LYS:NZ	2.45	0.49
1:l:472:THR:HB	1:l:475:ASN:HD22	1.78	0.49
1:l:549:ASN:HB3	2:j:2:29:HIS:HD2	1.78	0.49
1:l:617:GLN:HE22	1:l:728:PRO:HA	1.78	0.49
1:m:549:ASN:HB3	2:s:2:29:HIS:HD2	1.76	0.49
1:p:313:ARG:NE	1:p:686:GLU:OE1	2.46	0.49
1:r:399:GLU:OE2	1:r:652:LYS:NZ	2.45	0.49
1:t:399:GLU:OE2	1:t:652:LYS:NZ	2.45	0.49
1:t:463:LEU:HD13	1:u:495:THR:HG22	1.95	0.49
1:w:399:GLU:OE2	1:w:652:LYS:NZ	2.45	0.49
1:x:251:PRO:HG3	1:x:374:MET:HE3	1.95	0.49
1:x:399:GLU:OE2	1:x:652:LYS:NZ	2.45	0.49
1:y:251:PRO:HG3	1:y:374:MET:HE3	1.95	0.49
1:y:399:GLU:OE2	1:y:652:LYS:NZ	2.45	0.49
1:1:291:HIS:CG	1:1:367:PRO:HB3	2.48	0.49
1:5:239:ARG:NH1	1:5:686:GLU:OE2	2.42	0.49
1:8:472:THR:HB	1:8:475:ASN:HD22	1.78	0.49
2:G2:2:VAL:HB	2:G2:115:TYR:CE1	2.47	0.49
2:U2:89:GLU:HG3	2:U2:89:GLU:O	2.12	0.49
2:W2:2:VAL:HB	2:W2:115:TYR:CE1	2.47	0.49
2:q2:2:VAL:HB	2:q2:115:TYR:CE1	2.47	0.49
2:x2:89:GLU:HG3	2:x2:89:GLU:O	2.12	0.49
1:A:463:LEU:HD13	1:G:495:THR:HG22	1.95	0.49
1:F:313:ARG:NE	1:F:686:GLU:OE1	2.46	0.49
1:F:472:THR:HB	1:F:475:ASN:HD22	1.78	0.49
1:G:291:HIS:CG	1:G:367:PRO:HB3	2.48	0.49
1:I:549:ASN:HB2	2:J2:28:THR:OG1	2.12	0.49
1:K:313:ARG:NE	1:K:686:GLU:OE1	2.46	0.49
1:S:291:HIS:CG	1:S:367:PRO:HB3	2.48	0.49
1:T:463:LEU:HD13	1:d:495:THR:HG22	1.95	0.49
1:V:399:GLU:OE2	1:V:652:LYS:NZ	2.45	0.49
1:W:251:PRO:HG3	1:W:374:MET:HE3	1.95	0.49
1:Y:399:GLU:OE2	1:Y:652:LYS:NZ	2.45	0.49
1:Y:549:ASN:HB3	2:42:29:HIS:HD2	1.78	0.49
1:Z:399:GLU:OE2	1:Z:652:LYS:NZ	2.45	0.49
1:b:613:ASP:OD1	1:b:731:THR:OG1	2.29	0.49
1:c:313:ARG:NE	1:c:686:GLU:OE1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:487:ARG:HG2	1:c:488:GLN:N	2.27	0.49
1:d:313:ARG:NE	1:d:686:GLU:OE1	2.46	0.49
1:h:313:ARG:NE	1:h:686:GLU:OE1	2.46	0.49
1:i:251:PRO:HG3	1:i:374:MET:HE3	1.95	0.49
1:l:291:HIS:CG	1:l:367:PRO:HB3	2.48	0.49
1:n:617:GLN:HE22	1:n:728:PRO:HA	1.78	0.49
1:q:291:HIS:CG	1:q:367:PRO:HB3	2.48	0.49
1:q:313:ARG:NE	1:q:686:GLU:OE1	2.46	0.49
1:v:291:HIS:CG	1:v:367:PRO:HB3	2.48	0.49
1:w:472:THR:HB	1:w:475:ASN:HD22	1.78	0.49
1:x:549:ASN:HB3	2:r2:29:HIS:HD2	1.78	0.49
1:2:313:ARG:NE	1:2:686:GLU:OE1	2.46	0.49
1:2:549:ASN:HB3	2:32:29:HIS:HD2	1.77	0.49
1:6:472:THR:HB	1:6:475:ASN:HD22	1.78	0.49
1:7:399:GLU:OE2	1:7:652:LYS:NZ	2.45	0.49
2:E2:89:GLU:HG3	2:E2:89:GLU:O	2.12	0.49
2:L2:89:GLU:HG3	2:L2:89:GLU:O	2.12	0.49
2:O2:89:GLU:HG3	2:O2:89:GLU:O	2.12	0.49
2:V2:68:PHE:CD1	2:V2:83:MET:HA	2.48	0.49
2:Y2:83:MET:HB3	2:Y2:86:LEU:HD21	1.93	0.49
2:e2:2:VAL:HB	2:e2:115:TYR:CE1	2.47	0.49
2:e2:89:GLU:HG3	2:e2:89:GLU:O	2.12	0.49
2:g2:2:VAL:HB	2:g2:115:TYR:CE1	2.47	0.49
2:k2:68:PHE:CD1	2:k2:83:MET:HA	2.48	0.49
2:z2:2:VAL:HB	2:z2:115:TYR:CE1	2.47	0.49
2:52:31:MET:HE3	2:52:34:MET:SD	2.53	0.49
1:D:450:ARG:NH1	1:D:454:THR:H	2.07	0.49
1:E:313:ARG:NE	1:E:686:GLU:OE1	2.46	0.49
1:E:487:ARG:HG2	1:E:488:GLN:N	2.27	0.49
1:F:487:ARG:HG2	1:F:488:GLN:N	2.27	0.49
1:I:399:GLU:OE2	1:I:652:LYS:NZ	2.45	0.49
1:J:617:GLN:HE22	1:J:728:PRO:HA	1.78	0.49
1:K:399:GLU:OE2	1:K:652:LYS:NZ	2.45	0.49
1:O:487:ARG:HG2	1:O:488:GLN:N	2.27	0.49
1:U:313:ARG:NE	1:U:686:GLU:OE1	2.46	0.49
1:U:617:GLN:HE22	1:U:728:PRO:HA	1.78	0.49
1:Y:472:THR:HB	1:Y:475:ASN:HD22	1.78	0.49
1:Y:617:GLN:HE22	1:Y:728:PRO:HA	1.78	0.49
1:a:291:HIS:CG	1:a:367:PRO:HB3	2.48	0.49
1:b:472:THR:HB	1:b:475:ASN:HD22	1.78	0.49
1:d:251:PRO:HG3	1:d:374:MET:HE3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:399:GLU:OE2	1:d:652:LYS:NZ	2.45	0.49
1:i:617:GLN:HE22	1:i:728:PRO:HA	1.78	0.49
1:j:487:ARG:HG2	1:j:488:GLN:N	2.27	0.49
1:m:291:HIS:CG	1:m:367:PRO:HB3	2.48	0.49
1:m:472:THR:HB	1:m:475:ASN:HD22	1.78	0.49
1:t:736:ARG:HH11	1:u:626:HIS:CE1	2.31	0.49
1:v:450:ARG:NH1	1:v:454:THR:H	2.07	0.49
1:w:617:GLN:HE22	1:w:728:PRO:HA	1.78	0.49
1:3:251:PRO:HG3	1:3:374:MET:HE3	1.95	0.49
1:3:617:GLN:HE22	1:3:728:PRO:HA	1.78	0.49
1:4:251:PRO:HG3	1:4:374:MET:HE3	1.95	0.49
1:5:313:ARG:NE	1:5:686:GLU:OE1	2.46	0.49
1:7:291:HIS:CG	1:7:367:PRO:HB3	2.48	0.49
2:J2:31:MET:HE3	2:J2:34:MET:SD	2.53	0.49
2:U2:68:PHE:CD1	2:U2:83:MET:HA	2.48	0.49
2:Z2:68:PHE:CD1	2:Z2:83:MET:HA	2.48	0.49
2:c2:89:GLU:HG3	2:c2:89:GLU:O	2.12	0.49
2:j2:68:PHE:CD1	2:j2:83:MET:HA	2.48	0.49
2:n2:31:MET:HE3	2:n2:34:MET:SD	2.53	0.49
2:u2:2:VAL:HB	2:u2:115:TYR:CE1	2.47	0.49
2:y2:2:VAL:HB	2:y2:115:TYR:CE1	2.47	0.49
2:z2:68:PHE:CD1	2:z2:83:MET:HA	2.48	0.49
2:42:68:PHE:CD1	2:42:83:MET:HA	2.48	0.49
1:B:291:HIS:CG	1:B:367:PRO:HB3	2.48	0.48
1:C:463:LEU:HD13	1:b:495:THR:HG22	1.94	0.48
1:F:291:HIS:CG	1:F:367:PRO:HB3	2.48	0.48
1:K:251:PRO:HG3	1:K:374:MET:HE3	1.95	0.48
1:L:487:ARG:HG2	1:L:488:GLN:N	2.27	0.48
1:P:613:ASP:OD1	1:P:731:THR:OG1	2.29	0.48
1:S:617:GLN:HE22	1:S:728:PRO:HA	1.78	0.48
1:U:239:ARG:NH1	1:U:686:GLU:OE2	2.42	0.48
1:V:495:THR:HG22	1:X:463:LEU:HD13	1.95	0.48
1:W:472:THR:HB	1:W:475:ASN:HD22	1.78	0.48
1:X:291:HIS:CG	1:X:367:PRO:HB3	2.48	0.48
1:Z:487:ARG:HG2	1:Z:488:GLN:N	2.27	0.48
1:g:617:GLN:HE22	1:g:728:PRO:HA	1.78	0.48
1:h:291:HIS:CG	1:h:367:PRO:HB3	2.48	0.48
1:h:549:ASN:HB3	2:i2:29:HIS:HD2	1.77	0.48
1:k:251:PRO:HG3	1:k:374:MET:HE3	1.95	0.48
1:m:239:ARG:NH1	1:m:686:GLU:OE2	2.42	0.48
1:o:291:HIS:CG	1:o:367:PRO:HB3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:487:ARG:HG2	1:p:488:GLN:N	2.27	0.48
1:q:549:ASN:HB3	2:y:29:HIS:HD2	1.78	0.48
1:r:549:ASN:HB2	2:n2:28:THR:OG1	2.12	0.48
1:t:617:GLN:HE22	1:t:728:PRO:HA	1.78	0.48
1:u:472:THR:HB	1:u:475:ASN:HD22	1.78	0.48
1:w:549:ASN:HB3	2:k2:29:HIS:HD2	1.78	0.48
1:y:472:THR:HB	1:y:475:ASN:HD22	1.78	0.48
1:z:495:THR:HG22	1:2:463:LEU:HD13	1.95	0.48
1:z:617:GLN:HE22	1:z:728:PRO:HA	1.78	0.48
1:7:617:GLN:HE22	1:7:728:PRO:HA	1.78	0.48
2:G2:31:MET:HE3	2:G2:34:MET:SD	2.53	0.48
2:H2:68:PHE:CD1	2:H2:83:MET:HA	2.48	0.48
2:L2:31:MET:HE3	2:L2:34:MET:SD	2.53	0.48
2:P2:31:MET:HE3	2:P2:34:MET:SD	2.53	0.48
2:U2:31:MET:HE3	2:U2:34:MET:SD	2.53	0.48
2:b2:31:MET:HE3	2:b2:34:MET:SD	2.53	0.48
2:f2:31:MET:HE3	2:f2:34:MET:SD	2.53	0.48
2:g2:68:PHE:CD1	2:g2:83:MET:HA	2.48	0.48
2:q2:31:MET:HE3	2:q2:34:MET:SD	2.53	0.48
2:t2:68:PHE:CD1	2:t2:83:MET:HA	2.48	0.48
2:w2:83:MET:HB3	2:w2:86:LEU:HD21	1.93	0.48
2:42:89:GLU:HG3	2:42:89:GLU:O	2.12	0.48
2:52:68:PHE:CD1	2:52:83:MET:HA	2.48	0.48
1:G:549:ASN:HB3	2:W2:29:HIS:HD2	1.78	0.48
1:H:617:GLN:HE22	1:H:728:PRO:HA	1.78	0.48
1:I:472:THR:HB	1:I:475:ASN:HD22	1.78	0.48
1:N:463:LEU:HD13	1:P:495:THR:HG22	1.94	0.48
1:R:487:ARG:HG2	1:R:488:GLN:N	2.26	0.48
1:R:549:ASN:HB3	2:F2:29:HIS:HD2	1.77	0.48
1:V:251:PRO:HG3	1:V:374:MET:HE3	1.95	0.48
1:Z:472:THR:HB	1:Z:475:ASN:HD22	1.78	0.48
1:c:239:ARG:NH1	1:c:686:GLU:OE2	2.42	0.48
1:c:463:LEU:HD13	1:o:495:THR:HG22	1.95	0.48
1:e:472:THR:HB	1:e:475:ASN:HD22	1.78	0.48
1:g:495:THR:HG22	1:h:463:LEU:HD13	1.95	0.48
1:j:472:THR:HB	1:j:475:ASN:HD22	1.78	0.48
1:p:291:HIS:CG	1:p:367:PRO:HB3	2.48	0.48
1:r:251:PRO:HG3	1:r:374:MET:HE3	1.95	0.48
1:t:487:ARG:HG2	1:t:488:GLN:N	2.27	0.48
1:u:617:GLN:HE22	1:u:728:PRO:HA	1.78	0.48
1:z:291:HIS:CG	1:z:367:PRO:HB3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:617:GLN:HE22	1:2:728:PRO:HA	1.78	0.48
1:5:617:GLN:HE22	1:5:728:PRO:HA	1.78	0.48
1:6:549:ASN:HB3	2:p2:29:HIS:HD2	1.78	0.48
2:C2:31:MET:HE3	2:C2:34:MET:SD	2.53	0.48
2:I2:31:MET:HE3	2:I2:34:MET:SD	2.53	0.48
2:O2:31:MET:HE3	2:O2:34:MET:SD	2.53	0.48
2:R2:31:MET:HE3	2:R2:34:MET:SD	2.53	0.48
2:d2:31:MET:HE3	2:d2:34:MET:SD	2.53	0.48
2:e2:68:PHE:CD1	2:e2:83:MET:HA	2.48	0.48
2:h2:31:MET:HE3	2:h2:34:MET:SD	2.53	0.48
2:r2:31:MET:HE3	2:r2:34:MET:SD	2.53	0.48
2:u2:68:PHE:CD1	2:u2:83:MET:HA	2.48	0.48
2:x2:68:PHE:CD1	2:x2:83:MET:HA	2.48	0.48
2:y2:68:PHE:CD1	2:y2:83:MET:HA	2.48	0.48
2:22:70:LEU:HD12	2:22:80:TYR:O	2.14	0.48
2:62:31:MET:HE3	2:62:34:MET:SD	2.53	0.48
1:A:495:THR:HG22	1:I:463:LEU:HD13	1.94	0.48
1:B:487:ARG:HG2	1:B:488:GLN:N	2.27	0.48
1:E:463:LEU:HD13	1:Q:495:THR:HG22	1.95	0.48
1:I:251:PRO:HG3	1:I:374:MET:HE3	1.95	0.48
1:Q:291:HIS:CG	1:Q:367:PRO:HB3	2.48	0.48
1:V:487:ARG:HG2	1:V:488:GLN:N	2.27	0.48
1:V:617:GLN:HE22	1:V:728:PRO:HA	1.78	0.48
1:W:549:ASN:HB2	2:V2:28:THR:OG1	2.12	0.48
1:b:251:PRO:HG3	1:b:374:MET:HE3	1.95	0.48
1:b:549:ASN:HB2	2:o2:28:THR:OG1	2.13	0.48
1:e:617:GLN:HE22	1:e:728:PRO:HA	1.78	0.48
1:f:472:THR:HB	1:f:475:ASN:HD22	1.78	0.48
1:h:617:GLN:HE22	1:h:728:PRO:HA	1.78	0.48
1:s:251:PRO:HG3	1:s:374:MET:HE3	1.95	0.48
1:s:549:ASN:HB3	2:c2:29:HIS:HD2	1.78	0.48
1:t:251:PRO:HG3	1:t:374:MET:HE3	1.95	0.48
1:x:617:GLN:HE22	1:x:728:PRO:HA	1.78	0.48
1:y:549:ASN:HB2	2:t2:28:THR:OG1	2.12	0.48
1:1:472:THR:HB	1:1:475:ASN:HD22	1.78	0.48
1:2:251:PRO:HG3	1:2:374:MET:HE3	1.95	0.48
1:2:291:HIS:CG	1:2:367:PRO:HB3	2.48	0.48
1:6:487:ARG:HG2	1:6:488:GLN:N	2.26	0.48
2:B2:31:MET:HE3	2:B2:34:MET:SD	2.53	0.48
2:B2:68:PHE:CD1	2:B2:83:MET:HA	2.48	0.48
2:C2:84:ASN:ND2	2:D2:43:LYS:HD3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I2:70:LEU:HD12	2:I2:80:TYR:O	2.14	0.48
2:K2:31:MET:HE3	2:K2:34:MET:SD	2.53	0.48
2:N2:31:MET:HE3	2:N2:34:MET:SD	2.53	0.48
2:N2:68:PHE:CD1	2:N2:83:MET:HA	2.48	0.48
2:R2:68:PHE:CD1	2:R2:83:MET:HA	2.48	0.48
2:W2:68:PHE:CD1	2:W2:83:MET:HA	2.48	0.48
2:X2:68:PHE:CD1	2:X2:83:MET:HA	2.48	0.48
2:a2:89:GLU:O	2:a2:89:GLU:HG3	2.12	0.48
2:e2:31:MET:HE3	2:e2:34:MET:SD	2.53	0.48
2:h2:70:LEU:HD12	2:h2:80:TYR:O	2.14	0.48
2:k2:89:GLU:HG3	2:k2:89:GLU:O	2.12	0.48
2:m2:31:MET:HE3	2:m2:34:MET:SD	2.53	0.48
2:u2:70:LEU:HD12	2:u2:80:TYR:O	2.14	0.48
2:w2:31:MET:HE3	2:w2:34:MET:SD	2.53	0.48
2:w2:68:PHE:CD1	2:w2:83:MET:HA	2.48	0.48
2:12:31:MET:HE3	2:12:34:MET:SD	2.53	0.48
2:22:31:MET:HE3	2:22:34:MET:SD	2.53	0.48
2:62:68:PHE:CD1	2:62:83:MET:HA	2.48	0.48
1:A:251:PRO:HG3	1:A:374:MET:HE3	1.95	0.48
1:A:549:ASN:HB2	2:E2:28:THR:OG1	2.13	0.48
1:C:472:THR:HB	1:C:475:ASN:HD22	1.78	0.48
1:I:617:GLN:HE22	1:I:728:PRO:HA	1.78	0.48
1:P:251:PRO:HG3	1:P:374:MET:HE3	1.95	0.48
1:P:313:ARG:NE	1:P:686:GLU:OE1	2.46	0.48
1:S:251:PRO:HG3	1:S:374:MET:HE3	1.95	0.48
1:a:251:PRO:HG3	1:a:374:MET:HE3	1.95	0.48
1:b:487:ARG:HG2	1:b:488:GLN:N	2.27	0.48
1:c:399:GLU:OE2	1:c:652:LYS:NZ	2.45	0.48
1:e:251:PRO:HG3	1:e:374:MET:HE3	1.95	0.48
1:g:291:HIS:CG	1:g:367:PRO:HB3	2.48	0.48
1:h:251:PRO:HG3	1:h:374:MET:HE3	1.95	0.48
1:l:251:PRO:HG3	1:l:374:MET:HE3	1.95	0.48
1:m:487:ARG:HG2	1:m:488:GLN:N	2.27	0.48
1:r:472:THR:HB	1:r:475:ASN:HD22	1.78	0.48
1:t:450:ARG:NH1	1:t:454:THR:H	2.07	0.48
1:u:251:PRO:HG3	1:u:374:MET:HE3	1.95	0.48
1:y:291:HIS:CG	1:y:367:PRO:HB3	2.48	0.48
1:z:472:THR:HB	1:z:475:ASN:HD22	1.78	0.48
1:7:549:ASN:HB3	2:K2:29:HIS:HD2	1.78	0.48
1:8:291:HIS:CG	1:8:367:PRO:HB3	2.48	0.48
2:C2:68:PHE:CD1	2:C2:83:MET:HA	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F2:68:PHE:CD1	2:F2:83:MET:HA	2.48	0.48
2:K2:70:LEU:HD12	2:K2:80:TYR:O	2.14	0.48
2:K2:84:ASN:ND2	2:72:43:LYS:HD3	2.29	0.48
2:Q2:31:MET:HE3	2:Q2:34:MET:SD	2.53	0.48
2:S2:70:LEU:HD12	2:S2:80:TYR:O	2.14	0.48
2:T2:68:PHE:CD1	2:T2:83:MET:HA	2.48	0.48
2:Y2:68:PHE:CD1	2:Y2:83:MET:HA	2.48	0.48
2:Z2:31:MET:HE3	2:Z2:34:MET:SD	2.53	0.48
2:e2:70:LEU:HD12	2:e2:80:TYR:O	2.14	0.48
2:j2:31:MET:HE3	2:j2:34:MET:SD	2.53	0.48
2:m2:68:PHE:CD1	2:m2:83:MET:HA	2.48	0.48
2:p2:68:PHE:CD1	2:p2:83:MET:HA	2.48	0.48
2:r2:70:LEU:HD12	2:r2:80:TYR:O	2.14	0.48
2:t2:31:MET:HE3	2:t2:34:MET:SD	2.53	0.48
2:u2:31:MET:HE3	2:u2:34:MET:SD	2.53	0.48
2:v2:68:PHE:CD1	2:v2:83:MET:HA	2.48	0.48
2:x2:70:LEU:HD12	2:x2:80:TYR:O	2.14	0.48
2:72:70:LEU:HD12	2:72:80:TYR:O	2.14	0.48
2:82:68:PHE:CD1	2:82:83:MET:HA	2.48	0.48
1:A:549:ASN:HB3	2:E2:29:HIS:HD2	1.78	0.48
1:A:617:GLN:HE22	1:A:728:PRO:HA	1.78	0.48
1:H:291:HIS:CG	1:H:367:PRO:HB3	2.48	0.48
1:H:463:LEU:HD13	1:W:495:THR:HG22	1.94	0.48
1:P:549:ASN:HB2	2:Q2:28:THR:OG1	2.13	0.48
1:W:291:HIS:CG	1:W:367:PRO:HB3	2.48	0.48
1:a:399:GLU:OE2	1:a:652:LYS:NZ	2.45	0.48
1:b:313:ARG:NE	1:b:686:GLU:OE1	2.46	0.48
1:f:617:GLN:HE22	1:f:728:PRO:HA	1.78	0.48
1:g:487:ARG:HG2	1:g:488:GLN:N	2.27	0.48
1:k:617:GLN:HE22	1:k:728:PRO:HA	1.78	0.48
1:l:549:ASN:HB2	2:j2:28:THR:OG1	2.13	0.48
1:r:617:GLN:HE22	1:r:728:PRO:HA	1.78	0.48
1:s:617:GLN:HE22	1:s:728:PRO:HA	1.78	0.48
1:z:487:ARG:HG2	1:z:488:GLN:N	2.27	0.48
1:1:617:GLN:HE22	1:1:728:PRO:HA	1.78	0.48
1:6:549:ASN:HB2	2:p2:28:THR:OG1	2.13	0.48
1:7:251:PRO:HG3	1:7:374:MET:HE3	1.95	0.48
1:8:313:ARG:NE	1:8:686:GLU:OE1	2.46	0.48
2:A2:31:MET:HE3	2:A2:34:MET:SD	2.53	0.48
2:H2:70:LEU:HD12	2:H2:80:TYR:O	2.14	0.48
2:M2:43:LYS:HD3	2:N2:84:ASN:ND2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M2:68:PHE:CD1	2:M2:83:MET:HA	2.48	0.48
2:S2:43:LYS:HD3	2:d2:84:ASN:ND2	2.29	0.48
2:Y2:31:MET:HE3	2:Y2:34:MET:SD	2.53	0.48
2:c2:64:VAL:HG13	2:c2:68:PHE:HD2	1.68	0.48
2:g2:31:MET:HE3	2:g2:34:MET:SD	2.53	0.48
2:o2:31:MET:HE3	2:o2:34:MET:SD	2.53	0.48
2:s2:70:LEU:HD12	2:s2:80:TYR:O	2.14	0.48
1:D:617:GLN:HE22	1:D:728:PRO:HA	1.78	0.48
1:E:251:PRO:HG3	1:E:374:MET:HE3	1.95	0.48
1:E:399:GLU:OE2	1:E:652:LYS:NZ	2.45	0.48
1:H:495:THR:HG22	1:Y:463:LEU:HD13	1.95	0.48
1:M:617:GLN:HE22	1:M:728:PRO:HA	1.78	0.48
1:N:472:THR:HB	1:N:475:ASN:HD22	1.78	0.48
1:P:487:ARG:HG2	1:P:488:GLN:N	2.27	0.48
1:S:313:ARG:NE	1:S:686:GLU:OE1	2.46	0.48
1:T:291:HIS:CG	1:T:367:PRO:HB3	2.48	0.48
1:T:313:ARG:NE	1:T:686:GLU:OE1	2.46	0.48
1:U:251:PRO:HG3	1:U:374:MET:HE3	1.95	0.48
1:V:472:THR:HB	1:V:475:ASN:HD22	1.78	0.48
1:Z:495:THR:HG22	1:3:463:LEU:HD13	1.95	0.48
1:a:549:ASN:HB2	2:Z2:28:THR:OG1	2.13	0.48
1:c:251:PRO:HG3	1:c:374:MET:HE3	1.95	0.48
1:g:472:THR:HB	1:g:475:ASN:HD22	1.78	0.48
1:j:251:PRO:HG3	1:j:374:MET:HE3	1.95	0.48
1:l:399:GLU:OE2	1:l:652:LYS:NZ	2.45	0.48
1:o:617:GLN:HE22	1:o:728:PRO:HA	1.78	0.48
1:t:472:THR:HB	1:t:475:ASN:HD22	1.78	0.48
1:w:463:LEU:HD13	1:x:495:THR:HG22	1.95	0.48
1:w:549:ASN:HB2	2:k2:28:THR:OG1	2.13	0.48
1:4:617:GLN:HE22	1:4:728:PRO:HA	1.78	0.48
1:5:251:PRO:HG3	1:5:374:MET:HE3	1.95	0.48
2:A2:70:LEU:HD12	2:A2:80:TYR:O	2.14	0.48
2:B2:84:ASN:ND2	2:C2:43:LYS:HD3	2.29	0.48
2:D2:68:PHE:CD1	2:D2:83:MET:HA	2.48	0.48
2:V2:31:MET:HE3	2:V2:34:MET:SD	2.53	0.48
2:Y2:70:LEU:HD12	2:Y2:80:TYR:O	2.14	0.48
2:d2:70:LEU:HD12	2:d2:80:TYR:O	2.14	0.48
2:l2:68:PHE:CD1	2:l2:83:MET:HA	2.48	0.48
2:o2:68:PHE:CD1	2:o2:83:MET:HA	2.48	0.48
2:p2:70:LEU:HD12	2:p2:80:TYR:O	2.14	0.48
2:s2:31:MET:HE3	2:s2:34:MET:SD	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:z2:31:MET:HE3	2:z2:34:MET:SD	2.53	0.48
2:32:31:MET:HE3	2:32:34:MET:SD	2.53	0.48
1:B:495:THR:HG22	1:L:463:LEU:HD13	1.95	0.48
1:B:626:HIS:CE1	1:L:736:ARG:HH11	2.32	0.48
1:C:321:ILE:HD13	1:C:343:ILE:HD11	1.96	0.48
1:C:617:GLN:HE22	1:C:728:PRO:HA	1.78	0.48
1:D:321:ILE:HD13	1:D:343:ILE:HD11	1.96	0.48
1:G:617:GLN:HE22	1:G:728:PRO:HA	1.78	0.48
1:H:736:ARG:HH11	1:W:626:HIS:CE1	2.32	0.48
1:K:463:LEU:HD13	1:a:495:THR:HG22	1.94	0.48
1:M:313:ARG:NE	1:M:686:GLU:OE1	2.46	0.48
1:M:321:ILE:HD13	1:M:343:ILE:HD11	1.96	0.48
1:M:626:HIS:CE1	1:b:736:ARG:HH11	2.32	0.48
1:O:736:ARG:HH11	1:m:626:HIS:CE1	2.32	0.48
1:Q:617:GLN:HE22	1:Q:728:PRO:HA	1.78	0.48
1:R:549:ASN:HB2	2:F2:28:THR:OG1	2.13	0.48
1:S:549:ASN:HB3	2:d2:29:HIS:HD2	1.78	0.48
1:V:450:ARG:NH1	1:V:454:THR:H	2.07	0.48
1:V:626:HIS:CE1	1:X:736:ARG:HH11	2.32	0.48
1:Y:549:ASN:HB2	2:42:28:THR:OG1	2.13	0.48
1:Z:251:PRO:HG3	1:Z:374:MET:HE3	1.95	0.48
1:b:617:GLN:HE22	1:b:728:PRO:HA	1.78	0.48
1:c:617:GLN:HE22	1:c:728:PRO:HA	1.78	0.48
1:d:463:LEU:HD13	1:l:495:THR:HG22	1.94	0.48
1:f:321:ILE:HD13	1:f:343:ILE:HD11	1.96	0.48
1:f:463:LEU:HD13	1:h:495:THR:HG22	1.94	0.48
1:g:251:PRO:HG3	1:g:374:MET:HE3	1.95	0.48
1:h:399:GLU:OE2	1:h:652:LYS:NZ	2.45	0.48
1:i:463:LEU:HD13	1:j:495:THR:HG22	1.95	0.48
1:n:313:ARG:NE	1:n:686:GLU:OE1	2.46	0.48
1:s:549:ASN:HB2	2:c2:28:THR:OG1	2.13	0.48
1:x:291:HIS:CG	1:x:367:PRO:HB3	2.48	0.48
1:x:463:LEU:HD13	1:y:495:THR:HG22	1.94	0.48
1:x:736:ARG:HH11	1:y:626:HIS:CE1	2.32	0.48
1:z:251:PRO:HG3	1:z:374:MET:HE3	1.95	0.48
1:5:549:ASN:HB3	2:u2:29:HIS:HD2	1.79	0.48
2:N2:43:LYS:HD3	2:m2:84:ASN:ND2	2.29	0.48
2:W2:31:MET:HE3	2:W2:34:MET:SD	2.53	0.48
2:W2:70:LEU:HD12	2:W2:80:TYR:O	2.14	0.48
2:i2:31:MET:HE3	2:i2:34:MET:SD	2.53	0.48
2:v2:31:MET:HE3	2:v2:34:MET:SD	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:y2:31:MET:HE3	2:y2:34:MET:SD	2.53	0.48
2:y2:70:LEU:HD12	2:y2:80:TYR:O	2.14	0.48
2:32:68:PHE:CD1	2:32:83:MET:HA	2.48	0.48
1:C:736:ARG:HH11	1:b:626:HIS:CE1	2.32	0.48
1:D:313:ARG:NE	1:D:686:GLU:OE1	2.46	0.48
1:D:626:HIS:CE1	1:P:736:ARG:HH11	2.32	0.48
1:E:617:GLN:HE22	1:E:728:PRO:HA	1.78	0.48
1:G:251:PRO:HG3	1:G:374:MET:HE3	1.95	0.48
1:J:313:ARG:NE	1:J:686:GLU:OE1	2.46	0.48
1:L:321:ILE:HD13	1:L:343:ILE:HD11	1.96	0.48
1:N:321:ILE:HD13	1:N:343:ILE:HD11	1.96	0.48
1:N:617:GLN:HE22	1:N:728:PRO:HA	1.78	0.48
1:N:736:ARG:HH11	1:P:626:HIS:CE1	2.32	0.48
1:O:321:ILE:HD13	1:O:343:ILE:HD11	1.96	0.48
1:R:321:ILE:HD13	1:R:343:ILE:HD11	1.96	0.48
1:W:239:ARG:NH1	1:W:686:GLU:OE2	2.42	0.48
1:W:463:LEU:HD13	1:Y:495:THR:HG22	1.95	0.48
1:f:549:ASN:HB3	2:X2:29:HIS:HD2	1.79	0.48
1:g:626:HIS:CE1	1:h:736:ARG:HH11	2.32	0.48
1:k:472:THR:HB	1:k:475:ASN:HD22	1.78	0.48
1:q:617:GLN:HE22	1:q:728:PRO:HA	1.78	0.48
1:r:313:ARG:NE	1:r:686:GLU:OE1	2.46	0.48
1:r:463:LEU:HD13	1:s:495:THR:HG22	1.95	0.48
1:s:321:ILE:HD13	1:s:343:ILE:HD11	1.96	0.48
1:w:495:THR:HG22	1:y:463:LEU:HD13	1.94	0.48
1:z:626:HIS:CE1	1:2:736:ARG:HH11	2.32	0.48
1:1:321:ILE:HD13	1:1:343:ILE:HD11	1.96	0.48
1:1:463:LEU:HD13	1:2:495:THR:HG22	1.95	0.48
1:4:472:THR:HB	1:4:475:ASN:HD22	1.78	0.48
1:6:321:ILE:HD13	1:6:343:ILE:HD11	1.96	0.48
1:7:313:ARG:NE	1:7:686:GLU:OE1	2.46	0.48
1:8:549:ASN:HB2	2:52:28:THR:OG1	2.14	0.48
2:F2:70:LEU:HD12	2:F2:80:TYR:O	2.14	0.48
2:G2:43:LYS:HD3	2:W2:84:ASN:ND2	2.28	0.48
2:K2:68:PHE:CD1	2:K2:83:MET:HA	2.48	0.48
2:Q2:68:PHE:CD1	2:Q2:83:MET:HA	2.48	0.48
2:V2:64:VAL:HG13	2:V2:68:PHE:HD2	1.67	0.48
2:X2:31:MET:HE3	2:X2:34:MET:SD	2.53	0.48
2:a2:68:PHE:CD1	2:a2:83:MET:HA	2.48	0.48
2:i2:68:PHE:CD1	2:i2:83:MET:HA	2.48	0.48
2:k2:31:MET:HE3	2:k2:34:MET:SD	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:w2:70:LEU:HD12	2:w2:80:TYR:O	2.14	0.48
2:72:31:MET:HE3	2:72:34:MET:SD	2.53	0.48
1:A:321:ILE:HD13	1:A:343:ILE:HD11	1.96	0.48
1:C:313:ARG:NE	1:C:686:GLU:OE1	2.46	0.48
1:I:313:ARG:NE	1:I:686:GLU:OE1	2.46	0.48
1:I:549:ASN:HB3	2:J2:29:HIS:HD2	1.79	0.48
1:J:251:PRO:HG3	1:J:374:MET:HE3	1.95	0.48
1:J:736:ARG:HH11	1:L:626:HIS:CE1	2.32	0.48
1:N:313:ARG:NE	1:N:686:GLU:OE1	2.46	0.48
1:O:251:PRO:HG3	1:O:374:MET:HE3	1.95	0.48
1:O:463:LEU:HD13	1:m:495:THR:HG22	1.95	0.48
1:O:626:HIS:CE1	1:n:736:ARG:HH11	2.32	0.48
1:P:617:GLN:HE22	1:P:728:PRO:HA	1.78	0.48
1:S:463:LEU:HD13	1:U:495:THR:HG22	1.95	0.48
1:T:251:PRO:HG3	1:T:374:MET:HE3	1.95	0.48
1:T:549:ASN:HB2	2:U2:28:THR:OG1	2.14	0.48
1:U:549:ASN:HB3	2:e2:29:HIS:HD2	1.79	0.48
1:V:736:ARG:HH11	1:e:626:HIS:CE1	2.32	0.48
1:d:736:ARG:HH11	1:l:626:HIS:CE1	2.32	0.48
1:f:495:THR:HG22	1:g:463:LEU:HD13	1.94	0.48
1:f:736:ARG:HH11	1:h:626:HIS:CE1	2.32	0.48
1:h:549:ASN:HB2	2:i2:28:THR:OG1	2.13	0.48
1:j:321:ILE:HD13	1:j:343:ILE:HD11	1.96	0.48
1:m:313:ARG:NE	1:m:686:GLU:OE1	2.46	0.48
1:o:239:ARG:NH1	1:o:686:GLU:OE2	2.42	0.48
1:q:251:PRO:HG3	1:q:374:MET:HE3	1.95	0.48
1:r:549:ASN:HB3	2:n2:29:HIS:HD2	1.79	0.48
1:w:626:HIS:CE1	1:y:736:ARG:HH11	2.32	0.48
1:y:239:ARG:NH1	1:y:686:GLU:OE2	2.42	0.48
1:y:313:ARG:NE	1:y:686:GLU:OE1	2.46	0.48
1:z:463:LEU:HD13	1:1:495:THR:HG22	1.95	0.48
1:2:399:GLU:OE2	1:2:652:LYS:NZ	2.45	0.48
1:4:313:ARG:NE	1:4:686:GLU:OE1	2.46	0.48
1:5:626:HIS:CE1	1:7:736:ARG:HH11	2.32	0.48
2:A2:68:PHE:CD1	2:A2:83:MET:HA	2.48	0.48
2:E2:68:PHE:CD1	2:E2:83:MET:HA	2.48	0.48
2:G2:68:PHE:CD1	2:G2:83:MET:HA	2.48	0.48
2:T2:31:MET:HE3	2:T2:34:MET:SD	2.53	0.48
2:b2:68:PHE:CD1	2:b2:83:MET:HA	2.48	0.48
2:b2:89:GLU:HG3	2:b2:89:GLU:O	2.12	0.48
2:c2:31:MET:HE3	2:c2:34:MET:SD	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d2:68:PHE:CD1	2:d2:83:MET:HA	2.48	0.48
2:l2:31:MET:HE3	2:l2:34:MET:SD	2.53	0.48
2:q2:68:PHE:CD1	2:q2:83:MET:HA	2.48	0.48
2:42:31:MET:HE3	2:42:34:MET:SD	2.54	0.48
2:82:31:MET:HE3	2:82:34:MET:SD	2.53	0.48
1:B:251:PRO:HG3	1:B:374:MET:HE3	1.95	0.48
1:B:313:ARG:NE	1:B:686:GLU:OE1	2.46	0.48
1:E:321:ILE:HD13	1:E:343:ILE:HD11	1.96	0.48
1:F:626:HIS:CE1	1:Q:736:ARG:HH11	2.32	0.48
1:L:251:PRO:HG3	1:L:374:MET:HE3	1.95	0.48
1:M:549:ASN:HB2	2:N2:28:THR:OG1	2.14	0.48
1:R:251:PRO:HG3	1:R:374:MET:HE3	1.95	0.48
1:R:450:ARG:NH1	1:R:454:THR:H	2.07	0.48
1:R:617:GLN:HE22	1:R:728:PRO:HA	1.78	0.48
1:S:736:ARG:HH11	1:U:626:HIS:CE1	2.32	0.48
1:T:495:THR:HG22	1:l:463:LEU:HD13	1.95	0.48
1:W:313:ARG:NE	1:W:686:GLU:OE1	2.46	0.48
1:W:736:ARG:HH11	1:Y:626:HIS:CE1	2.32	0.48
1:X:626:HIS:CE1	1:e:736:ARG:HH11	2.32	0.48
1:Z:321:ILE:HD13	1:Z:343:ILE:HD11	1.96	0.48
1:a:463:LEU:HD13	1:8:495:THR:HG22	1.95	0.48
1:i:495:THR:HG22	1:k:463:LEU:HD13	1.95	0.48
1:n:251:PRO:HG3	1:n:374:MET:HE3	1.95	0.48
1:o:736:ARG:HH11	1:p:626:HIS:CE1	2.32	0.48
1:t:321:ILE:HD13	1:t:343:ILE:HD11	1.96	0.48
1:z:549:ASN:HB2	2:f2:28:THR:OG1	2.14	0.48
1:1:549:ASN:HB3	2:v2:29:HIS:HD2	1.79	0.48
1:1:736:ARG:HH11	1:2:626:HIS:CE1	2.32	0.48
1:2:549:ASN:HB2	2:32:28:THR:OG1	2.13	0.48
1:5:495:THR:HG22	1:7:463:LEU:HD13	1.95	0.48
1:6:251:PRO:HG3	1:6:374:MET:HE3	1.95	0.48
1:6:450:ARG:NH1	1:6:454:THR:H	2.07	0.48
1:8:251:PRO:HG3	1:8:374:MET:HE3	1.95	0.48
2:F2:31:MET:HE3	2:F2:34:MET:SD	2.53	0.48
2:M2:70:LEU:HD12	2:M2:80:TYR:O	2.14	0.48
2:P2:68:PHE:CD1	2:P2:83:MET:HA	2.48	0.48
2:P2:89:GLU:HG3	2:P2:89:GLU:O	2.12	0.48
2:S2:68:PHE:CD1	2:S2:83:MET:HA	2.48	0.48
2:V2:84:ASN:ND2	2:W2:43:LYS:HD3	2.28	0.48
2:a2:31:MET:HE3	2:a2:34:MET:SD	2.53	0.48
2:f2:84:ASN:ND2	2:z2:43:LYS:HD3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m2:70:LEU:HD12	2:m2:80:TYR:O	2.14	0.48
2:t2:64:VAL:HG13	2:t2:68:PHE:HD2	1.68	0.48
1:B:327:THR:HG22	1:B:334:THR:HG23	1.96	0.47
1:D:549:ASN:HB2	2:C2:28:THR:OG1	2.14	0.47
1:E:495:THR:HG22	1:F:463:LEU:HD13	1.95	0.47
1:G:239:ARG:NH1	1:G:686:GLU:OE2	2.42	0.47
1:J:321:ILE:HD13	1:J:343:ILE:HD11	1.96	0.47
1:J:549:ASN:HB2	2:a2:28:THR:OG1	2.14	0.47
1:K:736:ARG:HH11	1:a:626:HIS:CE1	2.32	0.47
1:L:291:HIS:CG	1:L:367:PRO:HB3	2.48	0.47
1:M:327:THR:HG22	1:M:334:THR:HG23	1.96	0.47
1:N:450:ARG:NH1	1:N:454:THR:H	2.07	0.47
1:O:291:HIS:CG	1:O:367:PRO:HB3	2.48	0.47
1:O:549:ASN:HB2	2:P2:28:THR:OG1	2.14	0.47
1:O:617:GLN:HE22	1:O:728:PRO:HA	1.78	0.47
1:R:626:HIS:CE1	1:U:736:ARG:HH11	2.32	0.47
1:S:321:ILE:HD13	1:S:343:ILE:HD11	1.96	0.47
1:V:321:ILE:HD13	1:V:343:ILE:HD11	1.96	0.47
1:Y:321:ILE:HD13	1:Y:343:ILE:HD11	1.96	0.47
1:Z:736:ARG:HH11	1:4:626:HIS:CE1	2.32	0.47
1:a:321:ILE:HD13	1:a:343:ILE:HD11	1.96	0.47
1:c:321:ILE:HD13	1:c:343:ILE:HD11	1.96	0.47
1:c:495:THR:HG22	1:p:463:LEU:HD13	1.95	0.47
1:f:626:HIS:CE1	1:g:736:ARG:HH11	2.32	0.47
1:k:313:ARG:NE	1:k:686:GLU:OE1	2.46	0.47
1:l:321:ILE:HD13	1:l:343:ILE:HD11	1.96	0.47
1:m:327:THR:HG22	1:m:334:THR:HG23	1.96	0.47
1:n:321:ILE:HD13	1:n:343:ILE:HD11	1.96	0.47
1:q:736:ARG:HH11	1:r:626:HIS:CE1	2.32	0.47
1:w:321:ILE:HD13	1:w:343:ILE:HD11	1.96	0.47
1:3:495:THR:HG22	1:4:463:LEU:HD13	1.95	0.47
1:6:617:GLN:HE22	1:6:728:PRO:HA	1.78	0.47
2:B2:70:LEU:HD12	2:B2:80:TYR:O	2.14	0.47
2:D2:70:LEU:HD12	2:D2:80:TYR:O	2.14	0.47
2:O2:84:ASN:ND2	2:d2:43:LYS:HD3	2.29	0.47
2:S2:31:MET:HE3	2:S2:34:MET:SD	2.54	0.47
2:T2:70:LEU:HD12	2:T2:80:TYR:O	2.14	0.47
2:X2:70:LEU:HD12	2:X2:80:TYR:O	2.14	0.47
2:c2:68:PHE:CD1	2:c2:83:MET:HA	2.48	0.47
2:f2:70:LEU:HD12	2:f2:80:TYR:O	2.14	0.47
2:g2:70:LEU:HD12	2:g2:80:TYR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h2:68:PHE:CD1	2:h2:83:MET:HA	2.48	0.47
2:l2:70:LEU:HD12	2:l2:80:TYR:O	2.14	0.47
2:s2:68:PHE:CD1	2:s2:83:MET:HA	2.48	0.47
2:12:70:LEU:HD12	2:12:80:TYR:O	2.14	0.47
2:72:68:PHE:CD1	2:72:83:MET:HA	2.48	0.47
1:A:626:HIS:CE1	1:I:736:ARG:HH11	2.32	0.47
1:D:251:PRO:HG3	1:D:374:MET:HE3	1.95	0.47
1:D:327:THR:HG22	1:D:334:THR:HG23	1.96	0.47
1:E:327:THR:HG22	1:E:334:THR:HG23	1.96	0.47
1:E:626:HIS:CE1	1:F:736:ARG:HH11	2.32	0.47
1:E:736:ARG:HH11	1:Q:626:HIS:CE1	2.32	0.47
1:G:736:ARG:HH11	1:I:626:HIS:CE1	2.32	0.47
1:K:617:GLN:HE22	1:K:728:PRO:HA	1.78	0.47
1:L:549:ASN:HB2	2:b2:28:THR:OG1	2.14	0.47
1:M:495:THR:HG22	1:b:463:LEU:HD13	1.95	0.47
1:Q:239:ARG:NH1	1:Q:686:GLU:OE2	2.42	0.47
1:Q:251:PRO:HG3	1:Q:374:MET:HE3	1.95	0.47
1:S:549:ASN:HB2	2:d2:28:THR:OG1	2.14	0.47
1:U:327:THR:HG22	1:U:334:THR:HG23	1.96	0.47
1:X:549:ASN:HB2	2:Y2:28:THR:OG1	2.15	0.47
1:c:327:THR:HG22	1:c:334:THR:HG23	1.96	0.47
1:i:736:ARG:HH11	1:j:626:HIS:CE1	2.32	0.47
1:j:736:ARG:HH11	1:k:626:HIS:CE1	2.32	0.47
1:m:251:PRO:HG3	1:m:374:MET:HE3	1.95	0.47
1:n:549:ASN:HB2	2:l2:28:THR:OG1	2.14	0.47
1:o:251:PRO:HG3	1:o:374:MET:HE3	1.95	0.47
1:q:239:ARG:NH1	1:q:686:GLU:OE2	2.42	0.47
1:q:549:ASN:HB2	2:y2:28:THR:OG1	2.14	0.47
1:u:239:ARG:NH1	1:u:686:GLU:OE2	2.42	0.47
1:u:463:LEU:HD13	1:v:495:THR:HG22	1.95	0.47
1:u:736:ARG:HH11	1:v:626:HIS:CE1	2.32	0.47
1:v:617:GLN:HE22	1:v:728:PRO:HA	1.78	0.47
1:5:736:ARG:HH11	1:6:626:HIS:CE1	2.32	0.47
1:7:549:ASN:HB2	2:K2:28:THR:OG1	2.14	0.47
1:8:617:GLN:HE22	1:8:728:PRO:HA	1.78	0.47
2:G2:70:LEU:HD12	2:G2:80:TYR:O	2.14	0.47
2:H2:31:MET:HE3	2:H2:34:MET:SD	2.53	0.47
2:I2:68:PHE:CD1	2:I2:83:MET:HA	2.48	0.47
2:J2:68:PHE:CD1	2:J2:83:MET:HA	2.48	0.47
2:Z2:70:LEU:HD12	2:Z2:80:TYR:O	2.14	0.47
2:p2:31:MET:HE3	2:p2:34:MET:SD	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v2:70:LEU:HD12	2:v2:80:TYR:O	2.14	0.47
1:C:626:HIS:CE1	1:M:736:ARG:HH11	2.32	0.47
1:D:495:THR:HG22	1:P:463:LEU:HD13	1.95	0.47
1:D:736:ARG:HH11	1:N:626:HIS:CE1	2.32	0.47
1:G:321:ILE:HD13	1:G:343:ILE:HD11	1.96	0.47
1:L:450:ARG:NH1	1:L:454:THR:H	2.07	0.47
1:L:617:GLN:HE22	1:L:728:PRO:HA	1.78	0.47
1:M:251:PRO:HG3	1:M:374:MET:HE3	1.95	0.47
1:Q:450:ARG:NH1	1:Q:454:THR:H	2.07	0.47
1:T:617:GLN:HE22	1:T:728:PRO:HA	1.78	0.47
1:X:251:PRO:HG3	1:X:374:MET:HE3	1.95	0.47
1:Z:626:HIS:CE1	1:3:736:ARG:HH11	2.32	0.47
1:c:626:HIS:CE1	1:p:736:ARG:HH11	2.32	0.47
1:c:736:ARG:HH11	1:o:626:HIS:CE1	2.32	0.47
1:q:626:HIS:CE1	1:s:736:ARG:HH11	2.32	0.47
1:s:327:THR:HG22	1:s:334:THR:HG23	1.96	0.47
1:v:251:PRO:HG3	1:v:374:MET:HE3	1.95	0.47
1:v:549:ASN:HB2	2:w2:28:THR:OG1	2.15	0.47
1:z:736:ARG:HH11	1:1:626:HIS:CE1	2.32	0.47
1:1:549:ASN:HB2	2:v2:28:THR:OG1	2.13	0.47
1:5:327:THR:HG22	1:5:334:THR:HG23	1.97	0.47
1:7:321:ILE:HD13	1:7:343:ILE:HD11	1.96	0.47
2:E2:31:MET:HE3	2:E2:34:MET:SD	2.54	0.47
2:K2:43:LYS:HD3	2:L2:84:ASN:ND2	2.29	0.47
2:a2:70:LEU:HD12	2:a2:80:TYR:O	2.14	0.47
2:q2:70:LEU:HD12	2:q2:80:TYR:O	2.14	0.47
2:z2:70:LEU:HD12	2:z2:80:TYR:O	2.14	0.47
2:52:70:LEU:HD12	2:52:80:TYR:O	2.14	0.47
2:82:70:LEU:HD12	2:82:80:TYR:O	2.14	0.47
1:A:327:THR:HG22	1:A:334:THR:HG23	1.96	0.47
1:C:450:ARG:NH1	1:C:454:THR:H	2.07	0.47
1:G:549:ASN:HB2	2:W2:28:THR:OG1	2.14	0.47
1:K:327:THR:HG22	1:K:334:THR:HG23	1.96	0.47
1:P:327:THR:HG22	1:P:334:THR:HG23	1.97	0.47
1:W:549:ASN:HB3	2:V2:29:HIS:HD2	1.79	0.47
1:Y:450:ARG:NH1	1:Y:454:THR:H	2.07	0.47
1:b:327:THR:HG22	1:b:334:THR:HG23	1.97	0.47
1:d:327:THR:HG22	1:d:334:THR:HG23	1.96	0.47
1:m:617:GLN:HE22	1:m:728:PRO:HA	1.78	0.47
1:q:321:ILE:HD13	1:q:343:ILE:HD11	1.96	0.47
1:r:736:ARG:HH11	1:s:626:HIS:CE1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:549:ASN:HB3	2:t:29:HIS:HD2	1.79	0.47
1:2:450:ARG:NH1	1:2:454:THR:H	2.07	0.47
2:E2:70:LEU:HD12	2:E2:80:TYR:O	2.14	0.47
2:J2:70:LEU:HD12	2:J2:80:TYR:O	2.14	0.47
2:O2:68:PHE:CD1	2:O2:83:MET:HA	2.48	0.47
2:U2:70:LEU:HD12	2:U2:80:TYR:O	2.14	0.47
2:X2:84:ASN:ND2	2:f2:43:LYS:HD3	2.29	0.47
2:b2:70:LEU:HD12	2:b2:80:TYR:O	2.14	0.47
2:f2:68:PHE:CD1	2:f2:83:MET:HA	2.48	0.47
2:j2:70:LEU:HD12	2:j2:80:TYR:O	2.14	0.47
2:n2:68:PHE:CD1	2:n2:83:MET:HA	2.48	0.47
2:n2:70:LEU:HD12	2:n2:80:TYR:O	2.14	0.47
2:q2:43:LYS:HD3	2:y2:84:ASN:ND2	2.29	0.47
2:r2:68:PHE:CD1	2:r2:83:MET:HA	2.48	0.47
2:t2:70:LEU:HD12	2:t2:80:TYR:O	2.14	0.47
2:u2:84:ASN:ND2	2:52:43:LYS:HD3	2.29	0.47
2:x2:31:MET:HE3	2:x2:34:MET:SD	2.53	0.47
2:22:68:PHE:CD1	2:22:83:MET:HA	2.48	0.47
1:A:736:ARG:HH11	1:G:626:HIS:CE1	2.32	0.47
1:B:321:ILE:HD13	1:B:343:ILE:HD11	1.96	0.47
1:B:617:GLN:HE22	1:B:728:PRO:HA	1.78	0.47
1:F:251:PRO:HG3	1:F:374:MET:HE3	1.95	0.47
1:F:327:THR:HG22	1:F:334:THR:HG23	1.96	0.47
1:F:617:GLN:HE22	1:F:728:PRO:HA	1.78	0.47
1:V:327:THR:HG22	1:V:334:THR:HG23	1.96	0.47
1:X:495:THR:HG22	1:e:463:LEU:HD13	1.95	0.47
1:X:617:GLN:HE22	1:X:728:PRO:HA	1.78	0.47
1:d:617:GLN:HE22	1:d:728:PRO:HA	1.78	0.47
1:f:549:ASN:HB2	2:X2:28:THR:OG1	2.13	0.47
1:i:327:THR:HG22	1:i:334:THR:HG23	1.96	0.47
1:o:463:LEU:HD13	1:p:495:THR:HG22	1.95	0.47
1:p:617:GLN:HE22	1:p:728:PRO:HA	1.78	0.47
2:M2:31:MET:HE3	2:M2:34:MET:SD	2.53	0.47
2:V2:70:LEU:HD12	2:V2:80:TYR:O	2.14	0.47
2:12:68:PHE:CD1	2:12:83:MET:HA	2.48	0.47
1:F:495:THR:HG22	1:Q:463:LEU:HD13	1.95	0.47
1:N:327:THR:HG22	1:N:334:THR:HG23	1.97	0.47
1:O:450:ARG:NH1	1:O:454:THR:H	2.07	0.47
1:d:549:ASN:HB3	2:O2:29:HIS:HD2	1.79	0.47
1:e:239:ARG:NH1	1:e:686:GLU:OE2	2.42	0.47
1:f:251:PRO:HG3	1:f:374:MET:HE3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:450:ARG:NH1	1:h:454:THR:H	2.07	0.47
1:m:321:ILE:HD13	1:m:343:ILE:HD11	1.96	0.47
1:p:327:THR:HG22	1:p:334:THR:HG23	1.96	0.47
1:3:327:THR:HG22	1:3:334:THR:HG23	1.96	0.47
2:D2:31:MET:HE3	2:D2:34:MET:SD	2.53	0.47
2:L2:68:PHE:CD1	2:L2:83:MET:HA	2.48	0.47
2:P2:70:LEU:HD12	2:P2:80:TYR:O	2.14	0.47
2:U2:43:LYS:HD3	2:e2:84:ASN:ND2	2.30	0.47
2:c2:70:LEU:HD12	2:c2:80:TYR:O	2.14	0.47
2:i2:70:LEU:HD12	2:i2:80:TYR:O	2.14	0.47
1:B:450:ARG:NH1	1:B:454:THR:H	2.07	0.47
1:B:549:ASN:HB2	2:A2:28:THR:OG1	2.14	0.47
1:C:327:THR:HG22	1:C:334:THR:HG23	1.97	0.47
1:H:239:ARG:NH1	1:H:686:GLU:OE2	2.42	0.47
1:H:321:ILE:HD13	1:H:343:ILE:HD11	1.96	0.47
1:K:549:ASN:HB3	2:L2:29:HIS:HD2	1.79	0.47
1:T:626:HIS:CE1	1:l:736:ARG:HH11	2.32	0.47
1:W:617:GLN:HE22	1:W:728:PRO:HA	1.78	0.47
1:X:321:ILE:HD13	1:X:343:ILE:HD11	1.96	0.47
1:a:736:ARG:HH11	1:8:626:HIS:CE1	2.32	0.47
1:e:321:ILE:HD13	1:e:343:ILE:HD11	1.96	0.47
1:e:613:ASP:OD1	1:e:731:THR:OG1	2.28	0.47
1:f:327:THR:HG22	1:f:334:THR:HG23	1.97	0.47
1:g:327:THR:HG22	1:g:334:THR:HG23	1.96	0.47
1:h:321:ILE:HD13	1:h:343:ILE:HD11	1.96	0.47
1:i:626:HIS:CE1	1:k:736:ARG:HH11	2.32	0.47
1:m:549:ASN:HB2	2:s2:28:THR:OG1	2.15	0.47
1:o:321:ILE:HD13	1:o:343:ILE:HD11	1.96	0.47
1:o:450:ARG:NH1	1:o:454:THR:H	2.07	0.47
1:p:251:PRO:HG3	1:p:374:MET:HE3	1.95	0.47
1:t:327:THR:HG22	1:t:334:THR:HG23	1.96	0.47
1:t:549:ASN:HB2	2:62:28:THR:OG1	2.14	0.47
1:u:613:ASP:OD1	1:u:731:THR:OG1	2.28	0.47
1:v:321:ILE:HD13	1:v:343:ILE:HD11	1.96	0.47
1:w:450:ARG:NH1	1:w:454:THR:H	2.07	0.47
1:x:239:ARG:NH1	1:x:686:GLU:OE2	2.42	0.47
1:y:617:GLN:HE22	1:y:728:PRO:HA	1.78	0.47
1:z:327:THR:HG22	1:z:334:THR:HG23	1.96	0.47
1:1:251:PRO:HG3	1:1:374:MET:HE3	1.95	0.47
1:2:321:ILE:HD13	1:2:343:ILE:HD11	1.96	0.47
1:4:239:ARG:NH1	1:4:686:GLU:OE2	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T2:43:LYS:HD3	2:U2:84:ASN:ND2	2.29	0.47
2:c2:84:ASN:ND2	2:s2:43:LYS:HD3	2.30	0.47
2:r2:84:ASN:ND2	2:x2:43:LYS:HD3	2.29	0.47
2:32:70:LEU:HD12	2:32:80:TYR:O	2.14	0.47
2:52:84:ASN:ND2	2:82:43:LYS:HD3	2.29	0.47
2:62:70:LEU:HD12	2:62:80:TYR:O	2.14	0.47
1:H:327:THR:HG22	1:H:334:THR:HG23	1.96	0.47
1:N:251:PRO:HG3	1:N:374:MET:HE3	1.95	0.47
1:R:736:ARG:HH11	1:S:626:HIS:CE1	2.32	0.47
1:S:327:THR:HG22	1:S:334:THR:HG23	1.96	0.47
1:V:549:ASN:HB2	2:R2:28:THR:OG1	2.14	0.47
1:W:327:THR:HG22	1:W:334:THR:HG23	1.96	0.47
1:u:321:ILE:HD13	1:u:343:ILE:HD11	1.96	0.47
1:x:321:ILE:HD13	1:x:343:ILE:HD11	1.96	0.47
1:x:549:ASN:HB2	2:r2:28:THR:OG1	2.14	0.47
1:1:327:THR:HG22	1:1:334:THR:HG23	1.97	0.47
1:5:321:ILE:HD13	1:5:343:ILE:HD11	1.96	0.47
2:H2:43:LYS:HD3	2:I2:84:ASN:ND2	2.29	0.47
2:Q2:70:LEU:HD12	2:Q2:80:TYR:O	2.14	0.47
2:R2:70:LEU:HD12	2:R2:80:TYR:O	2.14	0.47
2:o2:70:LEU:HD12	2:o2:80:TYR:O	2.14	0.47
1:C:251:PRO:HG3	1:C:374:MET:HE3	1.95	0.47
1:C:549:ASN:HB3	2:B2:29:HIS:HD2	1.79	0.47
1:H:549:ASN:HB2	2:I2:28:THR:OG1	2.14	0.47
1:Q:321:ILE:HD13	1:Q:343:ILE:HD11	1.96	0.47
1:U:321:ILE:HD13	1:U:343:ILE:HD11	1.96	0.47
1:c:549:ASN:HD22	2:M2:29:HIS:CD2	2.33	0.47
1:g:321:ILE:HD13	1:g:343:ILE:HD11	1.96	0.47
1:i:321:ILE:HD13	1:i:343:ILE:HD11	1.96	0.47
1:k:239:ARG:NH1	1:k:686:GLU:OE2	2.42	0.47
1:k:327:THR:HG22	1:k:334:THR:HG23	1.96	0.47
1:t:721:GLY:HA2	1:6:258:TYR:O	2.14	0.47
1:x:327:THR:HG22	1:x:334:THR:HG23	1.96	0.47
1:y:327:THR:HG22	1:y:334:THR:HG23	1.96	0.47
1:z:321:ILE:HD13	1:z:343:ILE:HD11	1.96	0.47
1:3:626:HIS:CE1	1:4:736:ARG:HH11	2.32	0.47
1:6:736:ARG:HH11	1:7:626:HIS:CE1	2.32	0.47
2:I2:43:LYS:HD3	2:J2:84:ASN:ND2	2.30	0.47
2:K2:20:LEU:HG	2:K2:83:MET:CE	2.45	0.47
2:L2:70:LEU:HD12	2:L2:80:TYR:O	2.14	0.47
2:O2:70:LEU:HD12	2:O2:80:TYR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a2:20:LEU:HG	2:a2:83:MET:CE	2.45	0.47
2:d2:20:LEU:HG	2:d2:83:MET:CE	2.45	0.47
2:g2:20:LEU:HG	2:g2:83:MET:CE	2.45	0.47
2:i2:20:LEU:HG	2:i2:83:MET:CE	2.45	0.47
2:l2:20:LEU:HG	2:l2:83:MET:CE	2.45	0.47
2:n2:84:ASN:ND2	2:r2:43:LYS:HD3	2.29	0.47
2:t2:20:LEU:HG	2:t2:83:MET:CE	2.45	0.47
1:E:549:ASN:HD22	2:D2:29:HIS:CD2	2.33	0.47
1:N:549:ASN:HB3	2:m2:29:HIS:HD2	1.79	0.47
1:Y:251:PRO:HG3	1:Y:374:MET:HE3	1.95	0.47
1:k:321:ILE:HD13	1:k:343:ILE:HD11	1.96	0.47
1:m:450:ARG:NH1	1:m:454:THR:H	2.07	0.47
1:y:321:ILE:HD13	1:y:343:ILE:HD11	1.96	0.47
1:3:321:ILE:HD13	1:3:343:ILE:HD11	1.96	0.47
1:4:321:ILE:HD13	1:4:343:ILE:HD11	1.96	0.47
1:7:327:THR:HG22	1:7:334:THR:HG23	1.96	0.47
2:X2:43:LYS:HD3	2:Y2:84:ASN:ND2	2.30	0.47
2:Y2:20:LEU:HG	2:Y2:83:MET:CE	2.45	0.47
2:32:20:LEU:HG	2:32:83:MET:CE	2.45	0.47
2:42:70:LEU:HD12	2:42:80:TYR:O	2.14	0.47
1:Z:617:GLN:HE22	1:Z:728:PRO:HA	1.78	0.46
1:i:549:ASN:HD22	2:T2:29:HIS:CD2	2.33	0.46
1:q:613:ASP:OD1	1:q:731:THR:OG1	2.29	0.46
1:u:548:GLN:HG3	2:22:29:HIS:CD2	2.50	0.46
1:w:251:PRO:HG3	1:w:374:MET:HE3	1.95	0.46
1:w:736:ARG:HH11	1:x:626:HIS:CE1	2.32	0.46
1:3:549:ASN:HD22	2:82:29:HIS:CD2	2.33	0.46
1:4:327:THR:HG22	1:4:334:THR:HG23	1.96	0.46
2:P2:20:LEU:HG	2:P2:83:MET:CE	2.45	0.46
2:P2:43:LYS:HD3	2:Q2:84:ASN:ND2	2.30	0.46
2:V2:20:LEU:HG	2:V2:83:MET:CE	2.45	0.46
2:b2:20:LEU:HG	2:b2:83:MET:CE	2.45	0.46
2:b2:43:LYS:HD3	2:o2:84:ASN:ND2	2.30	0.46
2:l2:64:VAL:HG13	2:l2:68:PHE:HD2	1.68	0.46
2:o2:20:LEU:HG	2:o2:83:MET:CE	2.45	0.46
2:t2:84:ASN:ND2	2:y2:43:LYS:HD3	2.30	0.46
2:w2:20:LEU:HG	2:w2:83:MET:CE	2.45	0.46
2:z2:20:LEU:HG	2:z2:83:MET:CE	2.46	0.46
1:B:736:ARG:HH11	1:J:626:HIS:CE1	2.32	0.46
1:I:450:ARG:NH1	1:I:454:THR:H	2.07	0.46
1:L:327:THR:HG22	1:L:334:THR:HG23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:327:THR:HG22	1:O:334:THR:HG23	1.96	0.46
1:Q:549:ASN:HD22	2:S2:29:HIS:CD2	2.33	0.46
1:W:321:ILE:HD13	1:W:343:ILE:HD11	1.96	0.46
1:Z:327:THR:HG22	1:Z:334:THR:HG23	1.96	0.46
1:m:721:GLY:HA2	1:s:258:TYR:O	2.16	0.46
1:m:736:ARG:HH11	1:n:626:HIS:CE1	2.32	0.46
1:s:548:GLN:HG3	2:c2:29:HIS:CD2	2.50	0.46
1:u:327:THR:HG22	1:u:334:THR:HG23	1.96	0.46
1:3:549:ASN:HB2	2:82:28:THR:OG1	2.16	0.46
2:A2:43:LYS:HD3	2:E2:84:ASN:ND2	2.31	0.46
2:E2:20:LEU:HG	2:E2:83:MET:CE	2.45	0.46
2:Q2:20:LEU:HG	2:Q2:83:MET:CE	2.45	0.46
2:a2:64:VAL:HG13	2:a2:68:PHE:HD2	1.68	0.46
2:e2:20:LEU:HG	2:e2:83:MET:CE	2.45	0.46
2:j2:43:LYS:HD3	2:x2:84:ASN:ND2	2.31	0.46
2:k2:70:LEU:HD12	2:k2:80:TYR:O	2.14	0.46
2:p2:84:ASN:ND2	2:62:43:LYS:HD3	2.30	0.46
2:v2:43:LYS:HD3	2:w2:84:ASN:ND2	2.30	0.46
1:H:626:HIS:CE1	1:Y:736:ARG:HH11	2.32	0.46
1:R:327:THR:HG22	1:R:334:THR:HG23	1.97	0.46
1:T:220:ASP:OD1	1:T:220:ASP:N	2.49	0.46
1:X:548:GLN:HG3	2:Y2:29:HIS:CD2	2.50	0.46
1:Z:549:ASN:HD22	2:H2:29:HIS:CD2	2.33	0.46
1:d:321:ILE:HD13	1:d:343:ILE:HD11	1.96	0.46
1:e:548:GLN:HG3	2:h2:29:HIS:CD2	2.50	0.46
1:e:549:ASN:HB2	2:h2:28:THR:OG1	2.14	0.46
1:f:220:ASP:OD1	1:f:220:ASP:N	2.49	0.46
1:i:549:ASN:HB2	2:T2:28:THR:OG1	2.16	0.46
1:j:327:THR:HG22	1:j:334:THR:HG23	1.96	0.46
1:j:549:ASN:HD22	2:x2:29:HIS:CD2	2.33	0.46
1:j:617:GLN:HE22	1:j:728:PRO:HA	1.78	0.46
1:o:549:ASN:HB2	2:72:28:THR:OG1	2.15	0.46
1:r:450:ARG:NH1	1:r:454:THR:H	2.07	0.46
1:t:258:TYR:O	1:y:721:GLY:HA2	2.15	0.46
1:u:549:ASN:HB2	2:22:28:THR:OG1	2.14	0.46
1:1:220:ASP:OD1	1:1:220:ASP:N	2.49	0.46
1:8:220:ASP:OD1	1:8:220:ASP:N	2.49	0.46
2:C2:70:LEU:HD12	2:C2:80:TYR:O	2.14	0.46
2:H2:84:ASN:ND2	2:Z2:43:LYS:HD3	2.31	0.46
2:S2:20:LEU:HG	2:S2:83:MET:CE	2.45	0.46
2:c2:20:LEU:HG	2:c2:83:MET:CE	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h2:43:LYS:HD3	2:i2:84:ASN:ND2	2.30	0.46
2:k2:20:LEU:HG	2:k2:83:MET:CE	2.45	0.46
2:u2:20:LEU:HG	2:u2:83:MET:CE	2.45	0.46
2:22:20:LEU:HG	2:22:83:MET:CE	2.45	0.46
2:52:102:LEU:HD12	2:52:103:MET:N	2.31	0.46
2:72:20:LEU:HG	2:72:83:MET:CE	2.45	0.46
1:A:548:GLN:HG3	2:E2:29:HIS:CD2	2.50	0.46
1:F:321:ILE:HD13	1:F:343:ILE:HD11	1.96	0.46
1:G:327:THR:HG22	1:G:334:THR:HG23	1.96	0.46
1:G:613:ASP:OD1	1:G:731:THR:OG1	2.29	0.46
1:G:721:GLY:HA2	1:W:258:TYR:O	2.16	0.46
1:J:327:THR:HG22	1:J:334:THR:HG23	1.96	0.46
1:S:450:ARG:NH1	1:S:454:THR:H	2.07	0.46
1:T:548:GLN:HG3	2:U2:29:HIS:CD2	2.51	0.46
1:T:736:ARG:HH11	1:d:626:HIS:CE1	2.32	0.46
1:e:327:THR:HG22	1:e:334:THR:HG23	1.96	0.46
1:f:627:THR:HA	1:g:610:GLN:HE22	1.81	0.46
1:h:327:THR:HG22	1:h:334:THR:HG23	1.97	0.46
1:n:327:THR:HG22	1:n:334:THR:HG23	1.96	0.46
1:o:327:THR:HG22	1:o:334:THR:HG23	1.96	0.46
1:o:549:ASN:HD22	2:72:29:HIS:CD2	2.33	0.46
1:2:327:THR:HG22	1:2:334:THR:HG23	1.96	0.46
1:6:327:THR:HG22	1:6:334:THR:HG23	1.97	0.46
1:6:548:GLN:HG3	2:p2:29:HIS:CD2	2.50	0.46
1:7:450:ARG:NH1	1:7:454:THR:H	2.07	0.46
1:8:548:GLN:HG3	2:52:29:HIS:CD2	2.51	0.46
2:B2:20:LEU:HG	2:B2:83:MET:CE	2.45	0.46
2:B2:102:LEU:HD12	2:B2:103:MET:N	2.31	0.46
2:C2:102:LEU:HD12	2:C2:103:MET:N	2.31	0.46
2:G2:102:LEU:HD12	2:G2:103:MET:N	2.31	0.46
2:H2:20:LEU:HG	2:H2:83:MET:CE	2.45	0.46
2:I2:102:LEU:HD12	2:I2:103:MET:N	2.31	0.46
2:N2:70:LEU:HD12	2:N2:80:TYR:O	2.14	0.46
2:O2:43:LYS:HD3	2:P2:84:ASN:ND2	2.30	0.46
2:P2:102:LEU:HD12	2:P2:103:MET:N	2.31	0.46
2:U2:102:LEU:HD12	2:U2:103:MET:N	2.31	0.46
2:Z2:20:LEU:HG	2:Z2:83:MET:CE	2.45	0.46
2:b2:102:LEU:HD12	2:b2:103:MET:N	2.31	0.46
2:m2:102:LEU:HD12	2:m2:103:MET:N	2.31	0.46
2:q2:102:LEU:HD12	2:q2:103:MET:N	2.31	0.46
2:r2:102:LEU:HD12	2:r2:103:MET:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x2:20:LEU:HG	2:x2:83:MET:CE	2.45	0.46
2:22:43:LYS:HD3	2:32:84:ASN:ND2	2.30	0.46
2:42:20:LEU:HG	2:42:83:MET:CE	2.45	0.46
1:A:258:TYR:O	1:B:721:GLY:HA2	2.16	0.46
1:C:258:TYR:O	1:D:721:GLY:HA2	2.16	0.46
1:K:321:ILE:HD13	1:K:343:ILE:HD11	1.96	0.46
1:K:626:HIS:CE1	1:8:736:ARG:HH11	2.32	0.46
1:M:721:GLY:HA2	1:N:258:TYR:O	2.16	0.46
1:Q:327:THR:HG22	1:Q:334:THR:HG23	1.96	0.46
1:Q:549:ASN:HB2	2:S2:28:THR:OG1	2.16	0.46
1:R:548:GLN:HG3	2:F2:29:HIS:CD2	2.50	0.46
1:V:327:THR:CG2	1:V:334:THR:HG23	2.46	0.46
1:b:548:GLN:HG3	2:o2:29:HIS:CD2	2.50	0.46
1:e:721:GLY:HA2	1:h:258:TYR:O	2.16	0.46
1:h:548:GLN:HG3	2:i2:29:HIS:CD2	2.50	0.46
1:k:549:ASN:HD22	2:g2:29:HIS:CD2	2.33	0.46
1:p:321:ILE:HD13	1:p:343:ILE:HD11	1.96	0.46
1:q:721:GLY:HA2	1:y:258:TYR:O	2.16	0.46
1:u:327:THR:CG2	1:u:334:THR:HG23	2.46	0.46
1:u:610:GLN:HE22	1:v:627:THR:HA	1.80	0.46
1:u:721:GLY:HA2	1:2:258:TYR:O	2.16	0.46
1:z:610:GLN:HE22	1:1:627:THR:HA	1.81	0.46
1:2:548:GLN:HG3	2:32:29:HIS:CD2	2.50	0.46
2:F2:84:ASN:ND2	2:R2:43:LYS:HD3	2.30	0.46
2:L2:43:LYS:HD3	2:b2:84:ASN:ND2	2.30	0.46
2:O2:20:LEU:HG	2:O2:83:MET:CE	2.45	0.46
2:R2:102:LEU:HD12	2:R2:103:MET:N	2.31	0.46
2:f2:20:LEU:HG	2:f2:83:MET:CE	2.45	0.46
2:h2:20:LEU:HG	2:h2:83:MET:CE	2.45	0.46
2:m2:20:LEU:HG	2:m2:83:MET:CE	2.45	0.46
2:p2:102:LEU:HD12	2:p2:103:MET:N	2.31	0.46
1:B:610:GLN:HE22	1:J:627:THR:HA	1.81	0.46
1:G:548:GLN:HG3	2:W2:29:HIS:CD2	2.50	0.46
1:I:321:ILE:HD13	1:I:343:ILE:HD11	1.96	0.46
1:I:327:THR:CG2	1:I:334:THR:HG23	2.46	0.46
1:K:610:GLN:HE22	1:a:627:THR:HA	1.81	0.46
1:P:327:THR:CG2	1:P:334:THR:HG23	2.46	0.46
1:P:548:GLN:HG3	2:Q2:29:HIS:CD2	2.50	0.46
1:R:610:GLN:HE22	1:S:627:THR:HA	1.81	0.46
1:X:327:THR:HG22	1:X:334:THR:HG23	1.96	0.46
1:Z:258:TYR:O	1:a:721:GLY:HA2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:610:GLN:HE22	1:4:627:THR:HA	1.81	0.46
1:b:327:THR:CG2	1:b:334:THR:HG23	2.46	0.46
1:d:610:GLN:HE22	1:l:627:THR:HA	1.81	0.46
1:e:327:THR:CG2	1:e:334:THR:HG23	2.46	0.46
1:j:258:TYR:O	1:l:721:GLY:HA2	2.16	0.46
1:j:610:GLN:HE22	1:k:627:THR:HA	1.81	0.46
1:k:450:ARG:NH1	1:k:454:THR:H	2.07	0.46
1:k:549:ASN:HB2	2:g2:28:THR:OG1	2.15	0.46
1:m:610:GLN:HE22	1:n:627:THR:HA	1.81	0.46
1:q:327:THR:HG22	1:q:334:THR:HG23	1.96	0.46
1:r:327:THR:CG2	1:r:334:THR:HG23	2.46	0.46
1:t:327:THR:CG2	1:t:334:THR:HG23	2.46	0.46
1:t:548:GLN:HG3	2:62:29:HIS:CD2	2.51	0.46
1:v:327:THR:HG22	1:v:334:THR:HG23	1.96	0.46
1:4:549:ASN:HD22	2:z2:29:HIS:CD2	2.33	0.46
2:F2:102:LEU:HD12	2:F2:103:MET:N	2.31	0.46
2:L2:20:LEU:HG	2:L2:83:MET:CE	2.45	0.46
2:N2:102:LEU:HD12	2:N2:103:MET:N	2.31	0.46
2:O2:102:LEU:HD12	2:O2:103:MET:N	2.31	0.46
2:T2:20:LEU:HG	2:T2:83:MET:CE	2.45	0.46
2:a2:102:LEU:HD12	2:a2:103:MET:N	2.31	0.46
2:h2:102:LEU:HD12	2:h2:103:MET:N	2.31	0.46
2:j2:20:LEU:HG	2:j2:83:MET:CE	2.45	0.46
2:k2:102:LEU:HD12	2:k2:103:MET:N	2.31	0.46
2:l2:102:LEU:HD12	2:l2:103:MET:N	2.31	0.46
2:u2:43:LYS:HD3	2:22:84:ASN:ND2	2.30	0.46
2:12:102:LEU:HD12	2:12:103:MET:N	2.31	0.46
2:22:102:LEU:HD12	2:22:103:MET:N	2.31	0.46
2:42:102:LEU:HD12	2:42:103:MET:N	2.31	0.46
2:62:102:LEU:HD12	2:62:103:MET:N	2.31	0.46
2:82:20:LEU:HG	2:82:83:MET:CE	2.45	0.46
1:L:548:GLN:HG3	2:b2:29:HIS:CD2	2.50	0.46
1:O:548:GLN:HG3	2:P2:29:HIS:CD2	2.50	0.46
1:O:627:THR:HA	1:n:610:GLN:HE22	1.81	0.46
1:Y:327:THR:HG22	1:Y:334:THR:HG23	1.96	0.46
1:n:548:GLN:HG3	2:l2:29:HIS:CD2	2.50	0.46
1:r:321:ILE:HD13	1:r:343:ILE:HD11	1.96	0.46
1:w:327:THR:HG22	1:w:334:THR:HG23	1.96	0.46
1:1:327:THR:CG2	1:1:334:THR:HG23	2.46	0.46
1:4:549:ASN:HB2	2:z2:28:THR:OG1	2.15	0.46
1:5:627:THR:HA	1:7:610:GLN:HE22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:610:GLN:HE22	1:7:627:THR:HA	1.81	0.46
2:J2:20:LEU:HG	2:J2:83:MET:CE	2.45	0.46
2:L2:102:LEU:HD12	2:L2:103:MET:N	2.31	0.46
2:f2:102:LEU:HD12	2:f2:103:MET:N	2.31	0.46
2:j2:84:ASN:ND2	2:l2:43:LYS:HD3	2.30	0.46
2:12:20:LEU:HG	2:12:83:MET:CE	2.45	0.46
1:A:610:GLN:HE22	1:G:627:THR:HA	1.81	0.46
1:F:549:ASN:HB2	2:G2:28:THR:OG1	2.16	0.46
1:H:627:THR:HA	1:Y:610:GLN:HE22	1.81	0.46
1:J:548:GLN:HG3	2:a2:29:HIS:CD2	2.50	0.46
1:J:610:GLN:HE22	1:L:627:THR:HA	1.81	0.46
1:P:450:ARG:NH1	1:P:454:THR:H	2.07	0.46
1:Q:548:GLN:HG3	2:S2:29:HIS:CD2	2.51	0.46
1:S:327:THR:CG2	1:S:334:THR:HG23	2.46	0.46
1:S:610:GLN:HE22	1:U:627:THR:HA	1.81	0.46
1:S:721:GLY:HA2	1:d:258:TYR:O	2.16	0.46
1:V:610:GLN:HE22	1:e:627:THR:HA	1.81	0.46
1:b:450:ARG:NH1	1:b:454:THR:H	2.07	0.46
1:g:258:TYR:O	1:k:721:GLY:HA2	2.16	0.46
1:i:327:THR:CG2	1:i:334:THR:HG23	2.46	0.46
1:j:327:THR:CG2	1:j:334:THR:HG23	2.46	0.46
1:m:327:THR:CG2	1:m:334:THR:HG23	2.46	0.46
1:o:548:GLN:HG3	2:72:29:HIS:CD2	2.51	0.46
1:q:627:THR:HA	1:s:610:GLN:HE22	1.81	0.46
1:r:327:THR:HG22	1:r:334:THR:HG23	1.96	0.46
1:t:451:THR:OG1	1:u:502:ASN:HA	2.16	0.46
1:w:610:GLN:HE22	1:x:627:THR:HA	1.81	0.46
1:z:258:TYR:O	1:4:721:GLY:HA2	2.16	0.46
1:z:327:THR:CG2	1:z:334:THR:HG23	2.46	0.46
1:3:327:THR:CG2	1:3:334:THR:HG23	2.46	0.46
2:Q2:43:LYS:HD3	2:S2:84:ASN:ND2	2.30	0.46
2:R2:20:LEU:HG	2:R2:83:MET:CE	2.45	0.46
2:T2:84:ASN:ND2	2:i2:43:LYS:HD3	2.31	0.46
2:Z2:84:ASN:ND2	2:a2:43:LYS:HD3	2.30	0.46
2:l2:84:ASN:ND2	2:n2:43:LYS:HD3	2.30	0.46
2:p2:20:LEU:HG	2:p2:83:MET:CE	2.45	0.46
1:B:327:THR:CG2	1:B:334:THR:HG23	2.46	0.46
1:C:610:GLN:HE22	1:b:627:THR:HA	1.81	0.46
1:F:239:ARG:NH1	1:F:686:GLU:OE2	2.42	0.46
1:F:627:THR:HA	1:Q:610:GLN:HE22	1.81	0.46
1:K:258:TYR:O	1:7:721:GLY:HA2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:627:THR:HA	1:8:610:GLN:HE22	1.81	0.46
1:T:610:GLN:HE22	1:d:627:THR:HA	1.81	0.46
1:V:548:GLN:HG3	2:R2:29:HIS:CD2	2.50	0.46
1:W:610:GLN:HE22	1:Y:627:THR:HA	1.81	0.46
1:Y:548:GLN:HG3	2:42:29:HIS:CD2	2.50	0.46
1:Z:327:THR:CG2	1:Z:334:THR:HG23	2.46	0.46
1:c:549:ASN:HB2	2:M2:28:THR:OG1	2.15	0.46
1:f:327:THR:CG2	1:f:334:THR:HG23	2.46	0.46
1:g:327:THR:CG2	1:g:334:THR:HG23	2.46	0.46
1:h:721:GLY:HA2	1:i:258:TYR:O	2.16	0.46
1:k:258:TYR:O	1:w:721:GLY:HA2	2.16	0.46
1:p:549:ASN:HB2	2:q2:28:THR:OG1	2.16	0.46
1:q:548:GLN:HG3	2:y2:29:HIS:CD2	2.51	0.46
1:v:548:GLN:HG3	2:w2:29:HIS:CD2	2.51	0.46
1:w:220:ASP:OD1	1:w:220:ASP:N	2.49	0.46
1:w:548:GLN:HG3	2:k2:29:HIS:CD2	2.50	0.46
1:w:627:THR:HA	1:y:610:GLN:HE22	1.81	0.46
1:1:572:ASN:HD21	1:1:609:TRP:CB	2.29	0.46
1:7:327:THR:CG2	1:7:334:THR:HG23	2.46	0.46
1:7:548:GLN:HG3	2:K2:29:HIS:CD2	2.51	0.46
1:8:327:THR:CG2	1:8:334:THR:HG23	2.46	0.46
2:F2:20:LEU:HG	2:F2:83:MET:CE	2.45	0.46
2:J2:43:LYS:HD3	2:a2:84:ASN:ND2	2.30	0.46
2:e2:43:LYS:HD3	2:h2:84:ASN:ND2	2.30	0.46
2:t2:43:LYS:HD3	2:62:84:ASN:ND2	2.30	0.46
2:z2:84:ASN:ND2	2:42:43:LYS:HD3	2.30	0.46
2:32:43:LYS:HD3	2:82:84:ASN:ND2	2.31	0.46
2:62:20:LEU:HG	2:62:83:MET:CE	2.45	0.46
2:72:102:LEU:HD12	2:72:103:MET:N	2.31	0.46
1:E:549:ASN:HB2	2:D2:28:THR:OG1	2.15	0.46
1:H:258:TYR:O	1:Z:721:GLY:HA2	2.16	0.46
1:I:327:THR:HG22	1:I:334:THR:HG23	1.96	0.46
1:K:327:THR:CG2	1:K:334:THR:HG23	2.46	0.46
1:P:321:ILE:HD13	1:P:343:ILE:HD11	1.96	0.46
1:S:548:GLN:HG3	2:d2:29:HIS:CD2	2.51	0.46
1:T:321:ILE:HD13	1:T:343:ILE:HD11	1.96	0.46
1:T:327:THR:CG2	1:T:334:THR:HG23	2.46	0.46
1:U:548:GLN:HG3	2:e2:29:HIS:CD2	2.51	0.46
1:V:258:TYR:O	1:W:721:GLY:HA2	2.16	0.46
1:Y:721:GLY:HA2	1:4:258:TYR:O	2.16	0.46
1:a:572:ASN:HD21	1:a:609:TRP:CB	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:321:ILE:HD13	1:b:343:ILE:HD11	1.96	0.46
1:o:610:GLN:HE22	1:p:627:THR:HA	1.81	0.46
1:p:549:ASN:HD22	2:q2:29:HIS:CD2	2.33	0.46
1:t:549:ASN:HD22	2:62:29:HIS:CD2	2.33	0.46
1:w:327:THR:CG2	1:w:334:THR:HG23	2.46	0.46
1:x:327:THR:CG2	1:x:334:THR:HG23	2.46	0.46
1:3:450:ARG:NH1	1:3:454:THR:H	2.07	0.46
1:4:450:ARG:NH1	1:4:454:THR:H	2.07	0.46
1:5:548:GLN:HG3	2:u2:29:HIS:CD2	2.51	0.46
2:A2:20:LEU:HG	2:A2:83:MET:CE	2.45	0.46
2:D2:20:LEU:HG	2:D2:83:MET:CE	2.45	0.46
2:D2:102:LEU:HD12	2:D2:103:MET:N	2.31	0.46
2:J2:102:LEU:HD12	2:J2:103:MET:N	2.31	0.46
2:M2:102:LEU:HD12	2:M2:103:MET:N	2.31	0.46
2:N2:20:LEU:HG	2:N2:83:MET:CE	2.45	0.46
2:S2:102:LEU:HD12	2:S2:103:MET:N	2.31	0.46
2:U2:20:LEU:HG	2:U2:83:MET:CE	2.45	0.46
2:X2:20:LEU:HG	2:X2:83:MET:CE	2.45	0.46
2:c2:102:LEU:HD12	2:c2:103:MET:N	2.31	0.46
2:g2:102:LEU:HD12	2:g2:103:MET:N	2.31	0.46
2:n2:20:LEU:HG	2:n2:83:MET:CE	2.45	0.46
2:o2:43:LYS:HD3	2:72:84:ASN:ND2	2.31	0.46
2:r2:20:LEU:HG	2:r2:83:MET:CE	2.45	0.46
2:s2:20:LEU:HG	2:s2:83:MET:CE	2.45	0.46
1:A:327:THR:CG2	1:A:334:THR:HG23	2.46	0.45
1:E:327:THR:CG2	1:E:334:THR:HG23	2.46	0.45
1:E:548:GLN:HG3	2:D2:29:HIS:CD2	2.51	0.45
1:F:548:GLN:HG3	2:G2:29:HIS:CD2	2.51	0.45
1:F:549:ASN:HD22	2:G2:29:HIS:CD2	2.33	0.45
1:H:327:THR:CG2	1:H:334:THR:HG23	2.46	0.45
1:I:548:GLN:HG3	2:J2:29:HIS:CD2	2.51	0.45
1:N:610:GLN:HE22	1:P:627:THR:HA	1.81	0.45
1:O:610:GLN:HE22	1:m:627:THR:HA	1.81	0.45
1:U:572:ASN:HD21	1:U:609:TRP:CB	2.29	0.45
1:X:327:THR:CG2	1:X:334:THR:HG23	2.46	0.45
1:Y:220:ASP:OD1	1:Y:220:ASP:N	2.49	0.45
1:Y:327:THR:CG2	1:Y:334:THR:HG23	2.46	0.45
1:a:327:THR:HG22	1:a:334:THR:HG23	1.97	0.45
1:a:548:GLN:HG3	2:Z2:29:HIS:CD2	2.50	0.45
1:c:327:THR:CG2	1:c:334:THR:HG23	2.46	0.45
1:c:548:GLN:HG3	2:M2:29:HIS:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:327:THR:CG2	1:d:334:THR:HG23	2.46	0.45
1:f:572:ASN:HD21	1:f:609:TRP:CB	2.29	0.45
1:j:721:GLY:HA2	1:x:258:TYR:O	2.16	0.45
1:l:327:THR:HG22	1:l:334:THR:HG23	1.97	0.45
1:l:548:GLN:HG3	2:j2:29:HIS:CD2	2.50	0.45
1:l:572:ASN:HD21	1:l:609:TRP:CB	2.29	0.45
1:p:239:ARG:NH1	1:p:686:GLU:OE2	2.42	0.45
1:p:548:GLN:HG3	2:q2:29:HIS:CD2	2.51	0.45
1:t:220:ASP:OD1	1:t:220:ASP:N	2.49	0.45
1:v:327:THR:CG2	1:v:334:THR:HG23	2.46	0.45
1:v:721:GLY:HA2	1:w:258:TYR:O	2.15	0.45
1:z:548:GLN:HG3	2:f2:29:HIS:CD2	2.51	0.45
1:2:721:GLY:HA2	1:3:258:TYR:O	2.16	0.45
1:4:548:GLN:HG3	2:z2:29:HIS:CD2	2.51	0.45
1:5:572:ASN:HD21	1:5:609:TRP:CB	2.29	0.45
1:8:321:ILE:HD13	1:8:343:ILE:HD11	1.96	0.45
2:M2:20:LEU:HG	2:M2:83:MET:CE	2.46	0.45
2:Y2:43:LYS:HD3	2:42:84:ASN:ND2	2.30	0.45
2:k2:84:ASN:ND2	2:w2:43:LYS:HD3	2.30	0.45
2:n2:102:LEU:HD12	2:n2:103:MET:N	2.31	0.45
2:u2:102:LEU:HD12	2:u2:103:MET:N	2.31	0.45
2:z2:102:LEU:HD12	2:z2:103:MET:N	2.31	0.45
1:B:627:THR:HA	1:L:610:GLN:HE22	1.81	0.45
1:C:627:THR:HA	1:M:610:GLN:HE22	1.81	0.45
1:J:549:ASN:HD22	2:a2:29:HIS:CD2	2.35	0.45
1:K:572:ASN:HD21	1:K:609:TRP:CB	2.29	0.45
1:R:258:TYR:O	1:V:721:GLY:HA2	2.16	0.45
1:V:220:ASP:OD1	1:V:220:ASP:N	2.49	0.45
1:X:627:THR:HA	1:e:610:GLN:HE22	1.81	0.45
1:h:327:THR:CG2	1:h:334:THR:HG23	2.46	0.45
1:i:548:GLN:HG3	2:T2:29:HIS:CD2	2.51	0.45
1:i:627:THR:HA	1:k:610:GLN:HE22	1.81	0.45
1:k:548:GLN:HG3	2:g2:29:HIS:CD2	2.51	0.45
1:m:220:ASP:OD1	1:m:220:ASP:N	2.49	0.45
1:m:548:GLN:HG3	2:s2:29:HIS:CD2	2.50	0.45
1:r:548:GLN:HG3	2:n2:29:HIS:CD2	2.51	0.45
1:s:327:THR:CG2	1:s:334:THR:HG23	2.46	0.45
1:t:610:GLN:HE22	1:u:627:THR:HA	1.82	0.45
1:z:627:THR:HA	1:2:610:GLN:HE22	1.81	0.45
1:3:627:THR:HA	1:4:610:GLN:HE22	1.81	0.45
1:5:258:TYR:O	1:8:721:GLY:HA2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:20:LEU:HG	2:C2:83:MET:CE	2.45	0.45
2:E2:102:LEU:HD12	2:E2:103:MET:N	2.31	0.45
2:M2:84:ASN:ND2	2:c2:43:LYS:HD3	2.31	0.45
2:R2:84:ASN:ND2	2:V2:43:LYS:HD3	2.30	0.45
2:T2:102:LEU:HD12	2:T2:103:MET:N	2.31	0.45
2:Y2:102:LEU:HD12	2:Y2:103:MET:N	2.31	0.45
2:e2:102:LEU:HD12	2:e2:103:MET:N	2.31	0.45
2:n2:37:PHE:HD1	2:n2:47:PHE:CA	2.27	0.45
2:v2:20:LEU:HG	2:v2:83:MET:CE	2.45	0.45
2:32:102:LEU:HD12	2:32:103:MET:N	2.31	0.45
2:52:20:LEU:HG	2:52:83:MET:CE	2.45	0.45
2:82:102:LEU:HD12	2:82:103:MET:N	2.31	0.45
1:D:610:GLN:HE22	1:N:627:THR:HA	1.81	0.45
1:H:721:GLY:HA2	1:I:258:TYR:O	2.16	0.45
1:K:548:GLN:HG3	2:L2:29:HIS:CD2	2.51	0.45
1:L:327:THR:CG2	1:L:334:THR:HG23	2.46	0.45
1:N:721:GLY:HA2	1:m:258:TYR:O	2.16	0.45
1:O:327:THR:CG2	1:O:334:THR:HG23	2.46	0.45
1:X:239:ARG:NH1	1:X:686:GLU:OE2	2.42	0.45
1:d:548:GLN:HG3	2:O2:29:HIS:CD2	2.51	0.45
1:h:549:ASN:HD22	2:i2:29:HIS:CD2	2.35	0.45
1:n:549:ASN:HD22	2:l2:29:HIS:CD2	2.35	0.45
1:o:721:GLY:HA2	1:7:258:TYR:O	2.16	0.45
1:r:610:GLN:HE22	1:s:627:THR:HA	1.81	0.45
1:2:327:THR:CG2	1:2:334:THR:HG23	2.46	0.45
1:2:549:ASN:HD22	2:32:29:HIS:CD2	2.35	0.45
1:3:548:GLN:HG3	2:82:29:HIS:CD2	2.51	0.45
2:F2:43:LYS:HD3	2:G2:84:ASN:ND2	2.31	0.45
2:G2:20:LEU:HG	2:G2:83:MET:CE	2.45	0.45
2:V2:102:LEU:HD12	2:V2:103:MET:N	2.31	0.45
2:W2:20:LEU:HG	2:W2:83:MET:CE	2.45	0.45
2:p2:43:LYS:HD3	2:q2:84:ASN:ND2	2.30	0.45
2:q2:20:LEU:HG	2:q2:83:MET:CE	2.45	0.45
2:t2:102:LEU:HD12	2:t2:103:MET:N	2.31	0.45
2:w2:102:LEU:HD12	2:w2:103:MET:N	2.31	0.45
2:y2:20:LEU:HG	2:y2:83:MET:CE	2.45	0.45
1:B:220:ASP:OD1	1:B:220:ASP:N	2.49	0.45
1:B:258:TYR:O	1:C:721:GLY:HA2	2.16	0.45
1:B:548:GLN:HG3	2:A2:29:HIS:CD2	2.51	0.45
1:B:549:ASN:HD22	2:A2:29:HIS:CD2	2.34	0.45
1:E:627:THR:HA	1:F:610:GLN:HE22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:721:GLY:HA2	1:L:258:TYR:O	2.16	0.45
1:O:258:TYR:O	1:d:721:GLY:HA2	2.16	0.45
1:Q:327:THR:CG2	1:Q:334:THR:HG23	2.46	0.45
1:Q:721:GLY:HA2	1:S:258:TYR:O	2.16	0.45
1:S:572:ASN:HD21	1:S:609:TRP:CB	2.29	0.45
1:T:327:THR:HG22	1:T:334:THR:HG23	1.96	0.45
1:T:721:GLY:HA2	1:U:258:TYR:O	2.16	0.45
1:W:451:THR:OG1	1:Y:502:ASN:HA	2.17	0.45
1:Z:627:THR:HA	1:3:610:GLN:HE22	1.81	0.45
1:d:572:ASN:HD21	1:d:609:TRP:CB	2.29	0.45
1:g:627:THR:HA	1:h:610:GLN:HE22	1.81	0.45
1:i:450:ARG:NH1	1:i:454:THR:H	2.07	0.45
1:j:549:ASN:HB2	2:x2:28:THR:OG1	2.16	0.45
1:n:258:TYR:O	1:r:721:GLY:HA2	2.16	0.45
1:r:258:TYR:O	1:x:721:GLY:HA2	2.16	0.45
1:v:239:ARG:NH1	1:v:686:GLU:OE2	2.42	0.45
1:w:502:ASN:HA	1:y:451:THR:OG1	2.17	0.45
1:3:238:ASP:OD1	1:3:238:ASP:N	2.49	0.45
1:4:327:THR:CG2	1:4:334:THR:HG23	2.46	0.45
2:A2:84:ASN:ND2	2:B2:43:LYS:HD3	2.30	0.45
2:D2:84:ASN:ND2	2:E2:43:LYS:HD3	2.31	0.45
2:I2:20:LEU:HG	2:I2:83:MET:CE	2.45	0.45
2:W2:102:LEU:HD12	2:W2:103:MET:N	2.31	0.45
2:Z2:102:LEU:HD12	2:Z2:103:MET:N	2.31	0.45
2:g2:84:ASN:ND2	2:k2:43:LYS:HD3	2.31	0.45
2:i2:102:LEU:HD12	2:i2:103:MET:N	2.31	0.45
2:m2:43:LYS:HD3	2:s2:84:ASN:ND2	2.30	0.45
2:y2:102:LEU:HD12	2:y2:103:MET:N	2.31	0.45
1:A:627:THR:HA	1:I:610:GLN:HE22	1.81	0.45
1:D:548:GLN:HG3	2:C2:29:HIS:CD2	2.51	0.45
1:F:721:GLY:HA2	1:G:258:TYR:O	2.16	0.45
1:J:327:THR:CG2	1:J:334:THR:HG23	2.46	0.45
1:M:548:GLN:HG3	2:N2:29:HIS:CD2	2.51	0.45
1:R:327:THR:CG2	1:R:334:THR:HG23	2.46	0.45
1:U:721:GLY:HA2	1:e:258:TYR:O	2.16	0.45
1:X:502:ASN:HA	1:e:451:THR:OG1	2.16	0.45
1:X:721:GLY:HA2	1:Y:258:TYR:O	2.16	0.45
1:Z:548:GLN:HG3	2:H2:29:HIS:CD2	2.51	0.45
1:Z:549:ASN:HB2	2:H2:28:THR:OG1	2.16	0.45
1:c:610:GLN:HE22	1:o:627:THR:HA	1.81	0.45
1:i:238:ASP:OD1	1:i:238:ASP:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:327:THR:CG2	1:o:334:THR:HG23	2.46	0.45
1:p:721:GLY:HA2	1:q:258:TYR:O	2.16	0.45
1:r:451:THR:OG1	1:s:502:ASN:HA	2.17	0.45
1:u:258:TYR:O	1:5:721:GLY:HA2	2.16	0.45
1:u:451:THR:OG1	1:v:502:ASN:HA	2.16	0.45
1:x:610:GLN:HE22	1:y:627:THR:HA	1.81	0.45
1:z:239:ARG:NH1	1:z:686:GLU:OE2	2.42	0.45
1:1:661:PRO:HG3	2:12:54:THR:HG21	1.98	0.45
1:3:384:ASN:ND2	1:3:386:GLY:O	2.46	0.45
1:7:572:ASN:HD21	1:7:609:TRP:CB	2.29	0.45
1:8:327:THR:HG22	1:8:334:THR:HG23	1.96	0.45
2:K2:102:LEU:HD12	2:K2:103:MET:N	2.31	0.45
2:X2:102:LEU:HD12	2:X2:103:MET:N	2.31	0.45
2:j2:102:LEU:HD12	2:j2:103:MET:N	2.31	0.45
1:A:721:GLY:HA2	1:E:258:TYR:O	2.16	0.45
1:E:451:THR:OG1	1:Q:502:ASN:HA	2.17	0.45
1:E:572:ASN:HD21	1:E:609:TRP:CB	2.29	0.45
1:E:610:GLN:HE22	1:Q:627:THR:HA	1.81	0.45
1:G:327:THR:CG2	1:G:334:THR:HG23	2.46	0.45
1:H:548:GLN:HG3	2:I2:29:HIS:CD2	2.51	0.45
1:H:610:GLN:HE22	1:W:627:THR:HA	1.81	0.45
1:I:721:GLY:HA2	1:J:258:TYR:O	2.16	0.45
1:M:234:THR:HG22	1:M:236:LEU:HG	1.99	0.45
1:O:721:GLY:HA2	1:P:258:TYR:O	2.16	0.45
1:P:721:GLY:HA2	1:Q:258:TYR:O	2.16	0.45
1:R:451:THR:OG1	1:S:502:ASN:HA	2.17	0.45
1:c:572:ASN:HD21	1:c:609:TRP:CB	2.29	0.45
1:c:627:THR:HA	1:p:610:GLN:HE22	1.81	0.45
1:i:610:GLN:HE22	1:j:627:THR:HA	1.81	0.45
1:j:548:GLN:HG3	2:x2:29:HIS:CD2	2.51	0.45
1:k:327:THR:CG2	1:k:334:THR:HG23	2.46	0.45
1:n:327:THR:CG2	1:n:334:THR:HG23	2.46	0.45
1:y:548:GLN:HG3	2:t2:29:HIS:CD2	2.51	0.45
1:1:451:THR:OG1	1:2:502:ASN:HA	2.17	0.45
1:6:327:THR:CG2	1:6:334:THR:HG23	2.46	0.45
1:6:451:THR:OG1	1:7:502:ASN:HA	2.17	0.45
2:J2:37:PHE:HD1	2:J2:47:PHE:CA	2.28	0.45
2:Q2:102:LEU:HD12	2:Q2:103:MET:N	2.31	0.45
2:v2:102:LEU:HD12	2:v2:103:MET:N	2.31	0.45
1:C:234:THR:HG22	1:C:236:LEU:HG	1.99	0.45
1:C:451:THR:OG1	1:b:502:ASN:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:234:THR:HG22	1:D:236:LEU:HG	1.99	0.45
1:D:327:THR:CG2	1:D:334:THR:HG23	2.46	0.45
1:F:234:THR:HG22	1:F:236:LEU:HG	1.99	0.45
1:G:451:THR:OG1	1:I:502:ASN:HA	2.17	0.45
1:H:450:ARG:NH1	1:H:454:THR:H	2.07	0.45
1:J:234:THR:HG22	1:J:236:LEU:HG	1.99	0.45
1:M:327:THR:CG2	1:M:334:THR:HG23	2.46	0.45
1:N:234:THR:HG22	1:N:236:LEU:HG	1.99	0.45
1:N:451:THR:OG1	1:P:502:ASN:HA	2.17	0.45
1:S:451:THR:OG1	1:U:502:ASN:HA	2.17	0.45
1:U:327:THR:CG2	1:U:334:THR:HG23	2.46	0.45
1:V:451:THR:OG1	1:e:502:ASN:HA	2.17	0.45
1:b:572:ASN:HD21	1:b:609:TRP:CB	2.29	0.45
1:c:451:THR:OG1	1:o:502:ASN:HA	2.17	0.45
1:f:234:THR:HG22	1:f:236:LEU:HG	1.99	0.45
1:f:451:THR:OG1	1:h:502:ASN:HA	2.17	0.45
1:l:258:TYR:O	1:n:721:GLY:HA2	2.16	0.45
1:q:327:THR:CG2	1:q:334:THR:HG23	2.46	0.45
1:q:451:THR:OG1	1:r:502:ASN:HA	2.17	0.45
1:z:234:THR:HG22	1:z:236:LEU:HG	1.99	0.45
1:5:502:ASN:HA	1:7:451:THR:OG1	2.17	0.45
2:L2:37:PHE:HD1	2:L2:47:PHE:CA	2.28	0.45
1:A:502:ASN:HA	1:I:451:THR:OG1	2.17	0.45
1:B:238:ASP:OD1	1:B:238:ASP:N	2.49	0.45
1:C:572:ASN:HD21	1:C:609:TRP:CB	2.29	0.45
1:F:258:TYR:O	1:R:721:GLY:HA2	2.16	0.45
1:H:549:ASN:HD22	2:I2:29:HIS:CD2	2.35	0.45
1:I:437:MET:SD	1:I:473:MET:HG2	2.57	0.45
1:J:451:THR:OG1	1:L:502:ASN:HA	2.17	0.45
1:L:721:GLY:HA2	1:b:258:TYR:O	2.16	0.45
1:N:327:THR:CG2	1:N:334:THR:HG23	2.46	0.45
1:R:437:MET:SD	1:R:473:MET:HG2	2.57	0.45
1:V:384:ASN:ND2	1:V:386:GLY:O	2.46	0.45
1:V:502:ASN:HA	1:X:451:THR:OG1	2.17	0.45
1:W:548:GLN:HG3	2:V2:29:HIS:CD2	2.51	0.45
1:W:549:ASN:HD22	2:V2:29:HIS:CD2	2.35	0.45
1:Z:234:THR:HG22	1:Z:236:LEU:HG	1.99	0.45
1:b:721:GLY:HA2	1:o:258:TYR:O	2.16	0.45
1:e:234:THR:HG22	1:e:236:LEU:HG	1.99	0.45
1:f:502:ASN:HA	1:g:451:THR:OG1	2.17	0.45
1:f:549:ASN:HD22	2:X2:29:HIS:CD2	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:234:THR:HG22	1:g:236:LEU:HG	1.99	0.45
1:h:437:MET:SD	1:h:473:MET:HG2	2.57	0.45
1:j:234:THR:HG22	1:j:236:LEU:HG	1.99	0.45
1:l:327:THR:CG2	1:l:334:THR:HG23	2.46	0.45
1:m:238:ASP:OD1	1:m:238:ASP:N	2.49	0.45
1:m:549:ASN:HD22	2:s2:29:HIS:CD2	2.34	0.45
1:n:234:THR:HG22	1:n:236:LEU:HG	1.99	0.45
1:o:234:THR:HG22	1:o:236:LEU:HG	1.99	0.45
1:p:234:THR:HG22	1:p:236:LEU:HG	1.99	0.45
1:r:437:MET:SD	1:r:473:MET:HG2	2.57	0.45
1:t:234:THR:HG22	1:t:236:LEU:HG	1.99	0.45
1:t:627:THR:HA	1:v:610:GLN:HE22	1.80	0.45
1:v:258:TYR:O	1:l:721:GLY:HA2	2.16	0.45
1:x:548:GLN:HG3	2:r2:29:HIS:CD2	2.51	0.45
1:x:549:ASN:HD22	2:r2:29:HIS:CD2	2.35	0.45
1:y:549:ASN:HD22	2:t2:29:HIS:CD2	2.35	0.45
1:z:451:THR:OG1	1:l:502:ASN:HA	2.17	0.45
1:1:234:THR:HG22	1:1:236:LEU:HG	1.99	0.45
1:6:437:MET:SD	1:6:473:MET:HG2	2.57	0.45
2:O2:37:PHE:HD1	2:O2:47:PHE:CA	2.28	0.45
2:R2:91:THR:HG22	2:R2:124:VAL:H	1.82	0.45
2:d2:102:LEU:HD12	2:d2:103:MET:N	2.31	0.45
2:h2:91:THR:HG22	2:h2:124:VAL:H	1.82	0.45
2:o2:102:LEU:HD12	2:o2:103:MET:N	2.31	0.45
2:x2:102:LEU:HD12	2:x2:103:MET:N	2.31	0.45
2:22:91:THR:HG22	2:22:124:VAL:H	1.82	0.45
2:62:91:THR:HG22	2:62:124:VAL:H	1.82	0.45
1:A:451:THR:OG1	1:G:502:ASN:HA	2.17	0.45
1:A:572:ASN:HD21	1:A:609:TRP:CB	2.29	0.45
1:B:451:THR:OG1	1:J:502:ASN:HA	2.17	0.45
1:C:327:THR:CG2	1:C:334:THR:HG23	2.46	0.45
1:C:548:GLN:HG3	2:B2:29:HIS:CD2	2.51	0.45
1:D:437:MET:SD	1:D:473:MET:HG2	2.57	0.45
1:H:234:THR:HG22	1:H:236:LEU:HG	1.99	0.45
1:J:721:GLY:HA2	1:a:258:TYR:O	2.16	0.45
1:L:437:MET:SD	1:L:473:MET:HG2	2.57	0.45
1:M:437:MET:SD	1:M:473:MET:HG2	2.57	0.45
1:N:572:ASN:HD21	1:N:609:TRP:CB	2.29	0.45
1:O:437:MET:SD	1:O:473:MET:HG2	2.57	0.45
1:O:502:ASN:HA	1:n:451:THR:OG1	2.17	0.45
1:P:572:ASN:HD21	1:P:609:TRP:CB	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:234:THR:HG22	1:Q:236:LEU:HG	1.99	0.45
1:R:234:THR:HG22	1:R:236:LEU:HG	1.99	0.45
1:R:384:ASN:ND2	1:R:386:GLY:O	2.46	0.45
1:R:549:ASN:HD22	2:F2:29:HIS:CD2	2.35	0.45
1:V:234:THR:HG22	1:V:236:LEU:HG	1.99	0.45
1:V:572:ASN:HD21	1:V:609:TRP:CB	2.29	0.45
1:X:258:TYR:O	1:f:721:GLY:HA2	2.16	0.45
1:Y:437:MET:SD	1:Y:473:MET:HG2	2.57	0.45
1:Y:549:ASN:HD22	2:42:29:HIS:CD2	2.35	0.45
1:Z:437:MET:SD	1:Z:473:MET:HG2	2.57	0.45
1:a:234:THR:HG22	1:a:236:LEU:HG	1.99	0.45
1:c:258:TYR:O	1:s:721:GLY:HA2	2.16	0.45
1:f:548:GLN:HG3	2:X2:29:HIS:CD2	2.51	0.45
1:g:239:ARG:NH1	1:g:686:GLU:OE2	2.42	0.45
1:g:437:MET:SD	1:g:473:MET:HG2	2.57	0.45
1:i:437:MET:SD	1:i:473:MET:HG2	2.57	0.45
1:j:437:MET:SD	1:j:473:MET:HG2	2.57	0.45
1:l:234:THR:HG22	1:l:236:LEU:HG	1.99	0.45
1:m:451:THR:OG1	1:n:502:ASN:HA	2.17	0.45
1:p:258:TYR:O	1:6:721:GLY:HA2	2.16	0.45
1:t:437:MET:SD	1:t:473:MET:HG2	2.57	0.45
1:t:502:ASN:HA	1:v:451:THR:OG1	2.17	0.45
1:t:572:ASN:HD21	1:t:609:TRP:CB	2.29	0.45
1:u:234:THR:HG22	1:u:236:LEU:HG	1.99	0.45
1:v:549:ASN:HD22	2:w2:29:HIS:CD2	2.34	0.45
1:w:437:MET:SD	1:w:473:MET:HG2	2.57	0.45
1:w:549:ASN:HD22	2:k2:29:HIS:CD2	2.35	0.45
1:y:327:THR:CG2	1:y:334:THR:HG23	2.46	0.45
1:z:437:MET:SD	1:z:473:MET:HG2	2.57	0.45
1:1:548:GLN:HG3	2:v2:29:HIS:CD2	2.51	0.45
1:1:549:ASN:HD22	2:v2:29:HIS:CD2	2.35	0.45
1:2:437:MET:SD	1:2:473:MET:HG2	2.57	0.45
1:5:327:THR:CG2	1:5:334:THR:HG23	2.46	0.45
1:6:234:THR:HG22	1:6:236:LEU:HG	1.99	0.45
2:A2:102:LEU:HD12	2:A2:103:MET:N	2.31	0.45
2:H2:102:LEU:HD12	2:H2:103:MET:N	2.31	0.45
2:K2:91:THR:HG22	2:K2:124:VAL:H	1.82	0.45
2:T2:91:THR:HG22	2:T2:124:VAL:H	1.82	0.45
2:s2:102:LEU:HD12	2:s2:103:MET:N	2.31	0.45
2:72:91:THR:HG22	2:72:124:VAL:H	1.82	0.45
2:82:91:THR:HG22	2:82:124:VAL:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:437:MET:SD	1:B:473:MET:HG2	2.57	0.45
1:C:239:ARG:NH1	1:C:686:GLU:OE2	2.42	0.45
1:D:258:TYR:O	1:E:721:GLY:HA2	2.16	0.45
1:G:610:GLN:HE22	1:I:627:THR:HA	1.81	0.45
1:K:437:MET:SD	1:K:473:MET:HG2	2.57	0.45
1:O:549:ASN:HD22	2:P2:29:HIS:CD2	2.35	0.45
1:V:437:MET:SD	1:V:473:MET:HG2	2.57	0.45
1:W:327:THR:CG2	1:W:334:THR:HG23	2.46	0.45
1:Y:572:ASN:HD21	1:Y:609:TRP:CB	2.29	0.45
1:a:327:THR:CG2	1:a:334:THR:HG23	2.46	0.45
1:a:549:ASN:HD22	2:Z2:29:HIS:CD2	2.35	0.45
1:i:572:ASN:HD21	1:i:609:TRP:CB	2.29	0.45
1:m:437:MET:SD	1:m:473:MET:HG2	2.57	0.45
1:r:234:THR:HG22	1:r:236:LEU:HG	1.99	0.45
1:x:234:THR:HG22	1:x:236:LEU:HG	1.99	0.45
1:3:437:MET:SD	1:3:473:MET:HG2	2.57	0.45
1:3:721:GLY:HA2	1:8:258:TYR:O	2.16	0.45
1:4:437:MET:SD	1:4:473:MET:HG2	2.57	0.45
1:5:610:GLN:HE22	1:6:627:THR:HA	1.81	0.45
1:6:549:ASN:HD22	2:p2:29:HIS:CD2	2.35	0.45
2:E2:91:THR:HG22	2:E2:124:VAL:H	1.82	0.45
2:S2:91:THR:HG22	2:S2:124:VAL:H	1.82	0.45
2:d2:91:THR:HG22	2:d2:124:VAL:H	1.82	0.45
2:j2:37:PHE:HD1	2:j2:47:PHE:CA	2.27	0.45
2:j2:91:THR:HG22	2:j2:124:VAL:H	1.82	0.45
2:42:91:THR:HG22	2:42:124:VAL:H	1.82	0.45
1:C:437:MET:SD	1:C:473:MET:HG2	2.57	0.44
1:C:549:ASN:HD22	2:B2:29:HIS:CD2	2.35	0.44
1:D:549:ASN:HD22	2:C2:29:HIS:CD2	2.35	0.44
1:G:234:THR:HG22	1:G:236:LEU:HG	1.99	0.44
1:I:234:THR:HG22	1:I:236:LEU:HG	1.99	0.44
1:L:234:THR:HG22	1:L:236:LEU:HG	1.99	0.44
1:L:549:ASN:HD22	2:b2:29:HIS:CD2	2.35	0.44
1:M:258:TYR:O	1:c:721:GLY:HA2	2.16	0.44
1:M:627:THR:HA	1:b:610:GLN:HE22	1.81	0.44
1:N:548:GLN:HG3	2:m2:29:HIS:CD2	2.51	0.44
1:N:549:ASN:HD22	2:m2:29:HIS:CD2	2.35	0.44
1:U:437:MET:SD	1:U:473:MET:HG2	2.57	0.44
1:U:549:ASN:HD22	2:e2:29:HIS:CD2	2.35	0.44
1:a:610:GLN:HE22	1:8:627:THR:HA	1.81	0.44
1:d:437:MET:SD	1:d:473:MET:HG2	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:451:THR:OG1	1:l:502:ASN:HA	2.17	0.44
1:e:549:ASN:HD22	2:h:29:HIS:CD2	2.35	0.44
1:f:258:TYR:O	1:z:721:GLY:HA2	2.16	0.44
1:g:572:ASN:HD21	1:g:609:TRP:CB	2.29	0.44
1:k:437:MET:SD	1:k:473:MET:HG2	2.57	0.44
1:l:549:ASN:HD22	2:j:29:HIS:CD2	2.35	0.44
1:q:502:ASN:HA	1:s:451:THR:OG1	2.17	0.44
1:q:610:GLN:HE22	1:r:627:THR:HA	1.81	0.44
1:s:572:ASN:HD21	1:s:609:TRP:CB	2.29	0.44
1:z:572:ASN:HD21	1:z:609:TRP:CB	2.29	0.44
1:3:234:THR:HG22	1:3:236:LEU:HG	1.99	0.44
2:G2:43:LYS:HE3	2:W2:84:ASN:CG	2.42	0.44
2:M2:43:LYS:HE3	2:N2:84:ASN:CG	2.42	0.44
2:Q2:91:THR:HG22	2:Q2:124:VAL:H	1.82	0.44
2:Z2:91:THR:HG22	2:Z2:124:VAL:H	1.82	0.44
2:l:37:PHE:HD1	2:l:47:PHE:CA	2.27	0.44
1:A:450:ARG:NH1	1:A:454:THR:H	2.07	0.44
1:D:502:ASN:HA	1:P:451:THR:OG1	2.17	0.44
1:F:327:THR:CG2	1:F:334:THR:HG23	2.46	0.44
1:H:502:ASN:HA	1:Y:451:THR:OG1	2.17	0.44
1:M:549:ASN:HD22	2:N2:29:HIS:CD2	2.35	0.44
1:N:437:MET:SD	1:N:473:MET:HG2	2.57	0.44
1:O:234:THR:HG22	1:O:236:LEU:HG	1.99	0.44
1:P:437:MET:SD	1:P:473:MET:HG2	2.57	0.44
1:R:627:THR:HA	1:U:610:GLN:HE22	1.81	0.44
1:T:258:TYR:O	1:i:721:GLY:HA2	2.16	0.44
1:W:234:THR:HG22	1:W:236:LEU:HG	1.99	0.44
1:a:451:THR:OG1	1:8:502:ASN:HA	2.17	0.44
1:b:437:MET:SD	1:b:473:MET:HG2	2.57	0.44
1:c:450:ARG:NH1	1:c:454:THR:H	2.07	0.44
1:e:368:PHE:HA	1:e:369:PRO:HD3	1.90	0.44
1:h:530:LYS:HG2	1:h:533:GLU:HG3	2.00	0.44
1:i:234:THR:HG22	1:i:236:LEU:HG	1.99	0.44
1:p:327:THR:CG2	1:p:334:THR:HG23	2.46	0.44
1:q:234:THR:HG22	1:q:236:LEU:HG	1.99	0.44
1:w:451:THR:OG1	1:x:502:ASN:HA	2.17	0.44
1:w:572:ASN:HD21	1:w:609:TRP:CB	2.29	0.44
1:x:450:ARG:NH1	1:x:454:THR:H	2.07	0.44
1:z:502:ASN:HA	1:2:451:THR:OG1	2.17	0.44
1:3:572:ASN:HD21	1:3:609:TRP:CB	2.29	0.44
1:5:437:MET:SD	1:5:473:MET:HG2	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:451:THR:OG1	1:6:502:ASN:HA	2.17	0.44
2:C2:84:ASN:CG	2:D2:43:LYS:HE3	2.43	0.44
2:J2:91:THR:HG22	2:J2:124:VAL:H	1.82	0.44
2:T2:37:PHE:HD1	2:T2:47:PHE:CA	2.27	0.44
2:T2:61:SER:HB3	2:T2:64:VAL:CG2	2.48	0.44
2:c2:91:THR:HG22	2:c2:124:VAL:H	1.82	0.44
2:g2:61:SER:HB3	2:g2:64:VAL:CG2	2.48	0.44
2:k2:91:THR:HG22	2:k2:124:VAL:H	1.82	0.44
2:m2:91:THR:HG22	2:m2:124:VAL:H	1.82	0.44
2:n2:91:THR:HG22	2:n2:124:VAL:H	1.82	0.44
2:q2:43:LYS:HE3	2:y2:84:ASN:CG	2.43	0.44
2:r2:91:THR:HG22	2:r2:124:VAL:H	1.82	0.44
2:w2:91:THR:HG22	2:w2:124:VAL:H	1.82	0.44
2:82:61:SER:HB3	2:82:64:VAL:CG2	2.48	0.44
1:D:627:THR:HA	1:P:610:GLN:HE22	1.81	0.44
1:E:530:LYS:HG2	1:E:533:GLU:HG3	2.00	0.44
1:H:437:MET:SD	1:H:473:MET:HG2	2.57	0.44
1:K:451:THR:OG1	1:a:502:ASN:HA	2.17	0.44
1:K:549:ASN:HD22	2:L2:29:HIS:CD2	2.35	0.44
1:R:502:ASN:HA	1:U:451:THR:OG1	2.17	0.44
1:T:437:MET:SD	1:T:473:MET:HG2	2.57	0.44
1:T:502:ASN:HA	1:l:451:THR:OG1	2.17	0.44
1:Z:572:ASN:HD21	1:Z:609:TRP:CB	2.29	0.44
1:c:530:LYS:HG2	1:c:533:GLU:HG3	2.00	0.44
1:e:450:ARG:NH1	1:e:454:THR:H	2.07	0.44
1:k:530:LYS:HG2	1:k:533:GLU:HG3	2.00	0.44
1:l:530:LYS:HG2	1:l:533:GLU:HG3	2.00	0.44
1:u:450:ARG:NH1	1:u:454:THR:H	2.07	0.44
1:u:549:ASN:HD22	2:22:29:HIS:CD2	2.35	0.44
1:x:437:MET:SD	1:x:473:MET:HG2	2.57	0.44
1:y:234:THR:HG22	1:y:236:LEU:HG	1.99	0.44
1:z:549:ASN:HD22	2:f2:29:HIS:CD2	2.35	0.44
1:z:588:GLN:HG3	1:z:590:ASN:H	1.83	0.44
1:2:530:LYS:HG2	1:2:533:GLU:HG3	2.00	0.44
1:3:502:ASN:HA	1:4:451:THR:OG1	2.17	0.44
1:4:530:LYS:HG2	1:4:533:GLU:HG3	2.00	0.44
1:5:549:ASN:HD22	2:u2:29:HIS:CD2	2.35	0.44
1:6:220:ASP:OD1	1:6:220:ASP:N	2.49	0.44
1:8:437:MET:SD	1:8:473:MET:HG2	2.57	0.44
2:B2:91:THR:HG22	2:B2:124:VAL:H	1.82	0.44
2:I2:68:PHE:CD1	2:I2:83:MET:HG2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I2:91:THR:HG22	2:I2:124:VAL:H	1.82	0.44
2:W2:61:SER:HB3	2:W2:64:VAL:CG2	2.48	0.44
2:W2:91:THR:HG22	2:W2:124:VAL:H	1.82	0.44
2:Y2:61:SER:HB3	2:Y2:64:VAL:CG2	2.48	0.44
2:Z2:37:PHE:HD1	2:Z2:47:PHE:CA	2.27	0.44
2:e2:61:SER:HB3	2:e2:64:VAL:CG2	2.48	0.44
2:g2:91:THR:HG22	2:g2:124:VAL:H	1.82	0.44
2:l2:91:THR:HG22	2:l2:124:VAL:H	1.82	0.44
2:o2:91:THR:HG22	2:o2:124:VAL:H	1.82	0.44
2:u2:61:SER:HB3	2:u2:64:VAL:CG2	2.48	0.44
2:w2:61:SER:HB3	2:w2:64:VAL:CG2	2.48	0.44
2:y2:91:THR:HG22	2:y2:124:VAL:H	1.82	0.44
2:z2:61:SER:HB3	2:z2:64:VAL:CG2	2.48	0.44
1:A:437:MET:SD	1:A:473:MET:HG2	2.57	0.44
1:B:502:ASN:HA	1:L:451:THR:OG1	2.16	0.44
1:B:530:LYS:HG2	1:B:533:GLU:HG3	2.00	0.44
1:M:502:ASN:HA	1:b:451:THR:OG1	2.17	0.44
1:N:239:ARG:NH1	1:N:686:GLU:OE2	2.42	0.44
1:O:451:THR:OG1	1:m:502:ASN:HA	2.16	0.44
1:T:627:THR:HA	1:l:610:GLN:HE22	1.81	0.44
1:V:530:LYS:HG2	1:V:533:GLU:HG3	2.00	0.44
1:X:437:MET:SD	1:X:473:MET:HG2	2.57	0.44
1:X:549:ASN:HD22	2:Y2:29:HIS:CD2	2.34	0.44
1:a:530:LYS:HG2	1:a:533:GLU:HG3	2.00	0.44
1:d:549:ASN:HD22	2:O2:29:HIS:CD2	2.35	0.44
1:f:530:LYS:HG2	1:f:533:GLU:HG3	2.00	0.44
1:g:502:ASN:HA	1:h:451:THR:OG1	2.17	0.44
1:g:721:GLY:HA2	1:l:258:TYR:O	2.16	0.44
1:h:234:THR:HG22	1:h:236:LEU:HG	1.99	0.44
1:i:502:ASN:HA	1:k:451:THR:OG1	2.17	0.44
1:m:530:LYS:HG2	1:m:533:GLU:HG3	2.00	0.44
1:o:451:THR:OG1	1:p:502:ASN:HA	2.17	0.44
1:p:530:LYS:HG2	1:p:533:GLU:HG3	2.00	0.44
1:s:437:MET:SD	1:s:473:MET:HG2	2.57	0.44
1:t:530:LYS:HG2	1:t:533:GLU:HG3	2.00	0.44
1:v:437:MET:SD	1:v:473:MET:HG2	2.57	0.44
1:l:530:LYS:HG2	1:l:533:GLU:HG3	2.00	0.44
1:8:588:GLN:HG3	1:8:590:ASN:H	1.83	0.44
2:X2:91:THR:HG22	2:X2:124:VAL:H	1.82	0.44
2:Z2:61:SER:HB3	2:Z2:64:VAL:CG2	2.48	0.44
2:a2:37:PHE:HD1	2:a2:47:PHE:CA	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i2:61:SER:HB3	2:i2:64:VAL:CG2	2.48	0.44
2:j2:61:SER:HB3	2:j2:64:VAL:CG2	2.48	0.44
2:p2:37:PHE:HD1	2:p2:47:PHE:CA	2.27	0.44
2:r2:68:PHE:CD1	2:r2:83:MET:HG2	2.53	0.44
2:v2:91:THR:HG22	2:v2:124:VAL:H	1.82	0.44
2:y2:61:SER:HB3	2:y2:64:VAL:CG2	2.48	0.44
2:z2:91:THR:HG22	2:z2:124:VAL:H	1.82	0.44
1:D:451:THR:OG1	1:N:502:ASN:HA	2.17	0.44
1:F:530:LYS:HG2	1:F:533:GLU:HG3	2.00	0.44
1:F:674:THR:HG1	2:F2:105:GLY:H	1.60	0.44
1:G:437:MET:SD	1:G:473:MET:HG2	2.57	0.44
1:L:530:LYS:HG2	1:L:533:GLU:HG3	2.00	0.44
1:M:530:LYS:HG2	1:M:533:GLU:HG3	2.00	0.44
1:O:530:LYS:HG2	1:O:533:GLU:HG3	2.00	0.44
1:Q:437:MET:SD	1:Q:473:MET:HG2	2.57	0.44
1:R:220:ASP:OD1	1:R:220:ASP:N	2.49	0.44
1:S:437:MET:SD	1:S:473:MET:HG2	2.57	0.44
1:S:549:ASN:HD22	2:d2:29:HIS:CD2	2.35	0.44
1:T:530:LYS:HG2	1:T:533:GLU:HG3	2.00	0.44
1:T:549:ASN:HD22	2:U2:29:HIS:CD2	2.35	0.44
1:T:588:GLN:HG3	1:T:590:ASN:H	1.83	0.44
1:V:627:THR:HA	1:X:610:GLN:HE22	1.81	0.44
1:W:437:MET:SD	1:W:473:MET:HG2	2.57	0.44
1:c:368:PHE:HA	1:c:369:PRO:HD3	1.90	0.44
1:d:234:THR:HG22	1:d:236:LEU:HG	1.99	0.44
1:f:588:GLN:HG3	1:f:590:ASN:H	1.83	0.44
1:g:588:GLN:HG3	1:g:590:ASN:H	1.83	0.44
1:i:486:TYR:O	1:i:526:MET:HE1	2.18	0.44
1:j:451:THR:OG1	1:k:502:ASN:HA	2.17	0.44
1:j:572:ASN:HD21	1:j:609:TRP:CB	2.29	0.44
1:o:437:MET:SD	1:o:473:MET:HG2	2.57	0.44
1:q:437:MET:SD	1:q:473:MET:HG2	2.57	0.44
1:2:234:THR:HG22	1:2:236:LEU:HG	1.99	0.44
1:3:486:TYR:O	1:3:526:MET:HE1	2.18	0.44
1:7:437:MET:SD	1:7:473:MET:HG2	2.57	0.44
1:7:549:ASN:HD22	2:K2:29:HIS:CD2	2.35	0.44
1:8:234:THR:HG22	1:8:236:LEU:HG	1.99	0.44
1:8:549:ASN:HD22	2:52:29:HIS:CD2	2.35	0.44
2:B2:68:PHE:CD1	2:B2:83:MET:HG2	2.53	0.44
2:J2:61:SER:HB3	2:J2:64:VAL:CG2	2.48	0.44
2:O2:61:SER:HB3	2:O2:64:VAL:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S2:43:LYS:HE3	2:d2:84:ASN:CG	2.42	0.44
2:Y2:91:THR:HG22	2:Y2:124:VAL:H	1.82	0.44
2:a2:91:THR:HG22	2:a2:124:VAL:H	1.82	0.44
2:b2:91:THR:HG22	2:b2:124:VAL:H	1.82	0.44
2:c2:61:SER:HB3	2:c2:64:VAL:CG2	2.48	0.44
2:f2:61:SER:HB3	2:f2:64:VAL:CG2	2.48	0.44
2:k2:68:PHE:CD1	2:k2:83:MET:HG2	2.53	0.44
2:l2:61:SER:HB3	2:l2:64:VAL:CG2	2.48	0.44
2:m2:61:SER:HB3	2:m2:64:VAL:CG2	2.48	0.44
2:82:37:PHE:HD1	2:82:47:PHE:CA	2.27	0.44
1:A:588:GLN:HG3	1:A:590:ASN:H	1.83	0.44
1:C:502:ASN:HA	1:M:451:THR:OG1	2.17	0.44
1:D:530:LYS:HG2	1:D:533:GLU:HG3	2.00	0.44
1:E:239:ARG:NH1	1:E:686:GLU:OE2	2.42	0.44
1:F:437:MET:SD	1:F:473:MET:HG2	2.57	0.44
1:F:502:ASN:HA	1:Q:451:THR:OG1	2.17	0.44
1:G:572:ASN:HD21	1:G:609:TRP:CB	2.29	0.44
1:Q:486:TYR:O	1:Q:526:MET:HE1	2.18	0.44
1:R:530:LYS:HG2	1:R:533:GLU:HG3	2.00	0.44
1:V:549:ASN:HD22	2:R2:29:HIS:CD2	2.35	0.44
1:Y:530:LYS:HG2	1:Y:533:GLU:HG3	2.00	0.44
1:b:234:THR:HG22	1:b:236:LEU:HG	1.99	0.44
1:g:486:TYR:O	1:g:526:MET:HE1	2.18	0.44
1:h:288:ASN:O	1:h:619:PRO:HA	2.18	0.44
1:n:450:ARG:NH1	1:n:454:THR:H	2.07	0.44
1:n:486:TYR:O	1:n:526:MET:HE1	2.18	0.44
1:o:486:TYR:O	1:o:526:MET:HE1	2.18	0.44
1:p:437:MET:SD	1:p:473:MET:HG2	2.57	0.44
1:q:588:GLN:HG3	1:q:590:ASN:H	1.83	0.44
1:r:549:ASN:HD22	2:n2:29:HIS:CD2	2.35	0.44
1:s:450:ARG:NH1	1:s:454:THR:H	2.07	0.44
1:s:486:TYR:O	1:s:526:MET:HE1	2.18	0.44
1:s:588:GLN:HG3	1:s:590:ASN:H	1.83	0.44
1:w:530:LYS:HG2	1:w:533:GLU:HG3	2.00	0.44
1:x:530:LYS:HG2	1:x:533:GLU:HG3	2.00	0.44
1:z:486:TYR:O	1:z:526:MET:HE1	2.18	0.44
1:1:588:GLN:HG3	1:1:590:ASN:H	1.83	0.44
1:1:610:GLN:HE22	1:2:627:THR:HA	1.81	0.44
1:5:486:TYR:O	1:5:526:MET:HE1	2.18	0.44
1:8:486:TYR:O	1:8:526:MET:HE1	2.18	0.44
1:8:530:LYS:HG2	1:8:533:GLU:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E2:61:SER:HB3	2:E2:64:VAL:CG2	2.48	0.44
2:F2:37:PHE:HD1	2:F2:47:PHE:CA	2.27	0.44
2:F2:68:PHE:CD1	2:F2:83:MET:HG2	2.53	0.44
2:K2:68:PHE:CD1	2:K2:83:MET:HG2	2.53	0.44
2:K2:84:ASN:CG	2:72:43:LYS:HE3	2.43	0.44
2:L2:61:SER:HB3	2:L2:64:VAL:CG2	2.48	0.44
2:O2:91:THR:HG22	2:O2:124:VAL:H	1.82	0.44
2:P2:91:THR:HG22	2:P2:124:VAL:H	1.82	0.44
2:Q2:68:PHE:CD1	2:Q2:83:MET:HG2	2.53	0.44
2:R2:68:PHE:CD1	2:R2:83:MET:HG2	2.53	0.44
2:U2:61:SER:HB3	2:U2:64:VAL:CG2	2.48	0.44
2:g2:68:PHE:CD1	2:g2:83:MET:HG2	2.53	0.44
2:m2:68:PHE:CD1	2:m2:83:MET:HG2	2.53	0.44
2:n2:61:SER:HB3	2:n2:64:VAL:CG2	2.48	0.44
2:o2:61:SER:HB3	2:o2:64:VAL:CG2	2.48	0.44
2:o2:68:PHE:CD1	2:o2:83:MET:HG2	2.53	0.44
2:p2:68:PHE:CD1	2:p2:83:MET:HG2	2.53	0.44
2:t2:68:PHE:CD1	2:t2:83:MET:HG2	2.53	0.44
2:12:68:PHE:CD1	2:12:83:MET:HG2	2.53	0.44
2:42:68:PHE:CD1	2:42:83:MET:HG2	2.53	0.44
2:52:61:SER:HB3	2:52:64:VAL:CG2	2.48	0.44
2:52:84:ASN:CG	2:82:43:LYS:HE3	2.43	0.44
2:62:68:PHE:CD1	2:62:83:MET:HG2	2.53	0.44
2:72:61:SER:HB3	2:72:64:VAL:CG2	2.48	0.44
1:A:486:TYR:O	1:A:526:MET:HE1	2.18	0.44
1:A:549:ASN:HD22	2:E2:29:HIS:CD2	2.34	0.44
1:B:234:THR:HG22	1:B:236:LEU:HG	1.99	0.44
1:C:486:TYR:O	1:C:526:MET:HE1	2.18	0.44
1:E:450:ARG:NH1	1:E:454:THR:H	2.07	0.44
1:F:572:ASN:HD21	1:F:609:TRP:CB	2.29	0.44
1:F:588:GLN:HG3	1:F:590:ASN:H	1.83	0.44
1:G:588:GLN:HG3	1:G:590:ASN:H	1.83	0.44
1:H:530:LYS:HG2	1:H:533:GLU:HG3	2.00	0.44
1:I:530:LYS:HG2	1:I:533:GLU:HG3	2.00	0.44
1:J:486:TYR:O	1:J:526:MET:HE1	2.18	0.44
1:K:234:THR:HG22	1:K:236:LEU:HG	1.99	0.44
1:L:486:TYR:O	1:L:526:MET:HE1	2.18	0.44
1:N:486:TYR:O	1:N:526:MET:HE1	2.18	0.44
1:O:486:TYR:O	1:O:526:MET:HE1	2.18	0.44
1:P:234:THR:HG22	1:P:236:LEU:HG	1.99	0.44
1:P:486:TYR:O	1:P:526:MET:HE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:549:ASN:HD22	2:Q2:29:HIS:CD2	2.35	0.44
1:Q:530:LYS:HG2	1:Q:533:GLU:HG3	2.00	0.44
1:T:234:THR:HG22	1:T:236:LEU:HG	1.99	0.44
1:T:486:TYR:O	1:T:526:MET:HE1	2.18	0.44
1:U:486:TYR:O	1:U:526:MET:HE1	2.18	0.44
1:U:530:LYS:HG2	1:U:533:GLU:HG3	2.00	0.44
1:V:486:TYR:O	1:V:526:MET:HE1	2.18	0.44
1:W:288:ASN:O	1:W:619:PRO:HA	2.18	0.44
1:X:288:ASN:O	1:X:619:PRO:HA	2.18	0.44
1:Z:451:THR:OG1	1:4:502:ASN:HA	2.17	0.44
1:a:486:TYR:O	1:a:526:MET:HE1	2.18	0.44
1:b:486:TYR:O	1:b:526:MET:HE1	2.18	0.44
1:b:549:ASN:HD22	2:o2:29:HIS:CD2	2.35	0.44
1:c:486:TYR:O	1:c:526:MET:HE1	2.18	0.44
1:f:437:MET:SD	1:f:473:MET:HG2	2.57	0.44
1:f:610:GLN:HE22	1:h:627:THR:HA	1.81	0.44
1:l:486:TYR:O	1:l:526:MET:HE1	2.18	0.44
1:p:588:GLN:HG3	1:p:590:ASN:H	1.83	0.44
1:q:288:ASN:O	1:q:619:PRO:HA	2.18	0.44
1:q:549:ASN:HD22	2:y2:29:HIS:CD2	2.35	0.44
1:q:572:ASN:HD21	1:q:609:TRP:CB	2.29	0.44
1:r:384:ASN:ND2	1:r:386:GLY:O	2.46	0.44
1:s:569:LYS:HE2	1:s:569:LYS:HB3	1.86	0.44
1:t:486:TYR:O	1:t:526:MET:HE1	2.18	0.44
1:w:588:GLN:HG3	1:w:590:ASN:H	1.83	0.44
1:y:437:MET:SD	1:y:473:MET:HG2	2.57	0.44
1:1:437:MET:SD	1:1:473:MET:HG2	2.57	0.44
1:2:288:ASN:O	1:2:619:PRO:HA	2.18	0.44
1:6:530:LYS:HG2	1:6:533:GLU:HG3	2.00	0.44
1:8:288:ASN:O	1:8:619:PRO:HA	2.18	0.44
2:A2:68:PHE:CD1	2:A2:83:MET:HG2	2.53	0.44
2:H2:68:PHE:CD1	2:H2:83:MET:HG2	2.53	0.44
2:Q2:61:SER:HB3	2:Q2:64:VAL:CG2	2.48	0.44
2:S2:61:SER:HB3	2:S2:64:VAL:CG2	2.48	0.44
2:T2:43:LYS:HE3	2:U2:84:ASN:CG	2.43	0.44
2:V2:68:PHE:CD1	2:V2:83:MET:HG2	2.53	0.44
2:V2:84:ASN:CG	2:W2:43:LYS:HE3	2.43	0.44
2:a2:61:SER:HB3	2:a2:64:VAL:CG2	2.48	0.44
2:d2:68:PHE:CD1	2:d2:83:MET:HG2	2.53	0.44
2:f2:68:PHE:CD1	2:f2:83:MET:HG2	2.53	0.44
2:r2:61:SER:HB3	2:r2:64:VAL:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s2:68:PHE:CD1	2:s2:83:MET:HG2	2.53	0.44
2:w2:37:PHE:HD1	2:w2:47:PHE:CA	2.27	0.44
2:x2:68:PHE:CD1	2:x2:83:MET:HG2	2.53	0.44
2:z2:68:PHE:CD1	2:z2:83:MET:HG2	2.53	0.44
1:D:355:TYR:CE2	1:D:357:LEU:HB2	2.53	0.44
1:E:355:TYR:CE2	1:E:357:LEU:HB2	2.53	0.44
1:E:368:PHE:HA	1:E:369:PRO:HD3	1.90	0.44
1:E:486:TYR:O	1:E:526:MET:HE1	2.18	0.44
1:E:588:GLN:HG3	1:E:590:ASN:H	1.83	0.44
1:G:288:ASN:O	1:G:619:PRO:HA	2.18	0.44
1:G:355:TYR:CE2	1:G:357:LEU:HB2	2.53	0.44
1:I:355:TYR:CE2	1:I:357:LEU:HB2	2.53	0.44
1:I:549:ASN:HD22	2:J2:29:HIS:CD2	2.35	0.44
1:K:588:GLN:HG3	1:K:590:ASN:H	1.83	0.44
1:M:355:TYR:CE2	1:M:357:LEU:HB2	2.53	0.44
1:O:355:TYR:CE2	1:O:357:LEU:HB2	2.53	0.44
1:P:288:ASN:O	1:P:619:PRO:HA	2.18	0.44
1:Q:288:ASN:O	1:Q:619:PRO:HA	2.18	0.44
1:S:384:ASN:ND2	1:S:386:GLY:O	2.46	0.44
1:T:288:ASN:O	1:T:619:PRO:HA	2.18	0.44
1:U:588:GLN:HG3	1:U:590:ASN:H	1.83	0.44
1:W:355:TYR:CE2	1:W:357:LEU:HB2	2.53	0.44
1:W:486:TYR:O	1:W:526:MET:HE1	2.18	0.44
1:Y:288:ASN:O	1:Y:619:PRO:HA	2.18	0.44
1:Y:588:GLN:HG3	1:Y:590:ASN:H	1.83	0.44
1:b:288:ASN:O	1:b:619:PRO:HA	2.18	0.44
1:c:355:TYR:CE2	1:c:357:LEU:HB2	2.53	0.44
1:c:588:GLN:HG3	1:c:590:ASN:H	1.83	0.44
1:d:486:TYR:O	1:d:526:MET:HE1	2.18	0.44
1:e:437:MET:SD	1:e:473:MET:HG2	2.57	0.44
1:f:355:TYR:CE2	1:f:357:LEU:HB2	2.53	0.44
1:i:588:GLN:HG3	1:i:590:ASN:H	1.83	0.44
1:k:288:ASN:O	1:k:619:PRO:HA	2.18	0.44
1:n:288:ASN:O	1:n:619:PRO:HA	2.18	0.44
1:o:288:ASN:O	1:o:619:PRO:HA	2.18	0.44
1:o:355:TYR:CE2	1:o:357:LEU:HB2	2.53	0.44
1:o:530:LYS:HG2	1:o:533:GLU:HG3	2.00	0.44
1:p:572:ASN:HD21	1:p:609:TRP:CB	2.29	0.44
1:r:355:TYR:CE2	1:r:357:LEU:HB2	2.53	0.44
1:r:530:LYS:HG2	1:r:533:GLU:HG3	2.00	0.44
1:x:288:ASN:O	1:x:619:PRO:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:288:ASN:O	1:y:619:PRO:HA	2.18	0.44
1:y:486:TYR:O	1:y:526:MET:HE1	2.18	0.44
1:4:288:ASN:O	1:4:619:PRO:HA	2.18	0.44
1:5:588:GLN:HG3	1:5:590:ASN:H	1.83	0.44
2:G2:68:PHE:CD1	2:G2:83:MET:HG2	2.53	0.44
2:H2:43:LYS:HE3	2:I2:84:ASN:CG	2.42	0.44
2:I2:61:SER:HB3	2:I2:64:VAL:CG2	2.48	0.44
2:L2:91:THR:HG22	2:L2:124:VAL:H	1.82	0.44
2:U2:91:THR:HG22	2:U2:124:VAL:H	1.82	0.44
2:k2:61:SER:HB3	2:k2:64:VAL:CG2	2.48	0.44
2:q2:68:PHE:CD1	2:q2:83:MET:HG2	2.53	0.44
2:x2:61:SER:HB3	2:x2:64:VAL:CG2	2.48	0.44
2:12:91:THR:HG22	2:12:124:VAL:H	1.82	0.44
2:22:61:SER:HB3	2:22:64:VAL:CG2	2.48	0.44
2:42:61:SER:HB3	2:42:64:VAL:CG2	2.48	0.44
2:62:61:SER:HB3	2:62:64:VAL:CG2	2.48	0.44
2:82:68:PHE:CD1	2:82:83:MET:HG2	2.53	0.44
1:C:368:PHE:HA	1:C:369:PRO:HD3	1.90	0.44
1:F:288:ASN:O	1:F:619:PRO:HA	2.18	0.44
1:F:355:TYR:CE2	1:F:357:LEU:HB2	2.53	0.44
1:H:288:ASN:O	1:H:619:PRO:HA	2.18	0.44
1:J:288:ASN:O	1:J:619:PRO:HA	2.18	0.44
1:K:486:TYR:O	1:K:526:MET:HE1	2.18	0.44
1:L:355:TYR:CE2	1:L:357:LEU:HB2	2.53	0.44
1:M:588:GLN:HG3	1:M:590:ASN:H	1.83	0.44
1:P:588:GLN:HG3	1:P:590:ASN:H	1.83	0.44
1:Q:355:TYR:CE2	1:Q:357:LEU:HB2	2.53	0.44
1:U:234:THR:HG22	1:U:236:LEU:HG	1.99	0.44
1:Z:355:TYR:CE2	1:Z:357:LEU:HB2	2.53	0.44
1:Z:502:ASN:HA	1:3:451:THR:OG1	2.17	0.44
1:Z:588:GLN:HG3	1:Z:590:ASN:H	1.83	0.44
1:b:588:GLN:HG3	1:b:590:ASN:H	1.83	0.44
1:d:588:GLN:HG3	1:d:590:ASN:H	1.83	0.44
1:f:486:TYR:O	1:f:526:MET:HE1	2.18	0.44
1:i:239:ARG:NH1	1:i:686:GLU:OE2	2.42	0.44
1:j:355:TYR:CE2	1:j:357:LEU:HB2	2.53	0.44
1:k:234:THR:HG22	1:k:236:LEU:HG	1.99	0.44
1:m:234:THR:HG22	1:m:236:LEU:HG	1.99	0.44
1:p:355:TYR:CE2	1:p:357:LEU:HB2	2.53	0.44
1:q:355:TYR:CE2	1:q:357:LEU:HB2	2.53	0.44
1:v:288:ASN:O	1:v:619:PRO:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:288:ASN:O	1:w:619:PRO:HA	2.18	0.44
1:x:451:THR:OG1	1:y:502:ASN:HA	2.17	0.44
1:y:355:TYR:CE2	1:y:357:LEU:HB2	2.53	0.44
1:z:288:ASN:O	1:z:619:PRO:HA	2.18	0.44
1:1:288:ASN:O	1:1:619:PRO:HA	2.18	0.44
1:1:355:TYR:CE2	1:1:357:LEU:HB2	2.53	0.44
1:7:486:TYR:O	1:7:526:MET:HE1	2.18	0.44
2:G2:61:SER:HB3	2:G2:64:VAL:CG2	2.48	0.44
2:H2:61:SER:HB3	2:H2:64:VAL:CG2	2.48	0.44
2:J2:68:PHE:CD1	2:J2:83:MET:HG2	2.53	0.44
2:P2:61:SER:HB3	2:P2:64:VAL:CG2	2.48	0.44
2:P2:68:PHE:CD1	2:P2:83:MET:HG2	2.53	0.44
2:R2:61:SER:HB3	2:R2:64:VAL:CG2	2.48	0.44
2:Y2:37:PHE:HD1	2:Y2:47:PHE:CA	2.27	0.44
2:j2:68:PHE:CD1	2:j2:83:MET:HG2	2.53	0.44
2:l2:61:SER:HB3	2:l2:64:VAL:CG2	2.48	0.44
2:q2:61:SER:HB3	2:q2:64:VAL:CG2	2.48	0.44
2:y2:68:PHE:CD1	2:y2:83:MET:HG2	2.53	0.44
1:D:588:GLN:HG3	1:D:590:ASN:H	1.83	0.43
1:E:234:THR:HG22	1:E:236:LEU:HG	1.99	0.43
1:E:502:ASN:HA	1:F:451:THR:OG1	2.17	0.43
1:F:486:TYR:O	1:F:526:MET:HE1	2.18	0.43
1:I:384:ASN:ND2	1:I:386:GLY:O	2.46	0.43
1:I:572:ASN:HD21	1:I:609:TRP:CB	2.29	0.43
1:J:437:MET:SD	1:J:473:MET:HG2	2.57	0.43
1:K:355:TYR:CE2	1:K:357:LEU:HB2	2.53	0.43
1:K:530:LYS:HG2	1:K:533:GLU:HG3	2.00	0.43
1:P:355:TYR:CE2	1:P:357:LEU:HB2	2.53	0.43
1:S:486:TYR:O	1:S:526:MET:HE1	2.18	0.43
1:U:355:TYR:CE2	1:U:357:LEU:HB2	2.53	0.43
1:a:437:MET:SD	1:a:473:MET:HG2	2.57	0.43
1:a:588:GLN:HG3	1:a:590:ASN:H	1.83	0.43
1:b:355:TYR:CE2	1:b:357:LEU:HB2	2.53	0.43
1:c:502:ASN:HA	1:p:451:THR:OG1	2.17	0.43
1:d:530:LYS:HG2	1:d:533:GLU:HG3	2.00	0.43
1:e:572:ASN:HD21	1:e:609:TRP:CB	2.29	0.43
1:g:288:ASN:O	1:g:619:PRO:HA	2.18	0.43
1:i:451:THR:OG1	1:j:502:ASN:HA	2.17	0.43
1:j:588:GLN:HG3	1:j:590:ASN:H	1.83	0.43
1:l:437:MET:SD	1:l:473:MET:HG2	2.57	0.43
1:l:588:GLN:HG3	1:l:590:ASN:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:588:GLN:HG3	1:n:590:ASN:H	1.83	0.43
1:p:288:ASN:O	1:p:619:PRO:HA	2.18	0.43
1:s:239:ARG:NH1	1:s:686:GLU:OE2	2.42	0.43
1:s:549:ASN:HD22	2:c2:29:HIS:CD2	2.35	0.43
1:w:355:TYR:CE2	1:w:357:LEU:HB2	2.53	0.43
1:y:384:ASN:ND2	1:y:386:GLY:O	2.46	0.43
1:1:486:TYR:O	1:1:526:MET:HE1	2.18	0.43
1:3:588:GLN:HG3	1:3:590:ASN:H	1.83	0.43
1:4:234:THR:HG22	1:4:236:LEU:HG	1.99	0.43
1:5:355:TYR:CE2	1:5:357:LEU:HB2	2.53	0.43
1:5:530:LYS:HG2	1:5:533:GLU:HG3	2.00	0.43
1:6:722:VAL:HG11	2:p2:29:HIS:ND1	2.33	0.43
1:7:355:TYR:CE2	1:7:357:LEU:HB2	2.53	0.43
1:7:384:ASN:ND2	1:7:386:GLY:O	2.46	0.43
2:B2:61:SER:HB3	2:B2:64:VAL:CG2	2.48	0.43
2:E2:68:PHE:CD1	2:E2:83:MET:HG2	2.53	0.43
2:N2:91:THR:HG22	2:N2:124:VAL:H	1.82	0.43
2:W2:68:PHE:CD1	2:W2:83:MET:HG2	2.53	0.43
2:Y2:68:PHE:CD1	2:Y2:83:MET:HG2	2.53	0.43
2:Z2:68:PHE:CD1	2:Z2:83:MET:HG2	2.53	0.43
2:b2:68:PHE:CD1	2:b2:83:MET:HG2	2.53	0.43
2:c2:68:PHE:CD1	2:c2:83:MET:HG2	2.53	0.43
2:f2:91:THR:HG22	2:f2:124:VAL:H	1.82	0.43
2:h2:61:SER:HB3	2:h2:64:VAL:CG2	2.48	0.43
2:m2:61:SER:HB3	2:m2:64:VAL:CG2	2.48	0.43
2:n2:68:PHE:CD1	2:n2:83:MET:HG2	2.53	0.43
2:p2:91:THR:HG22	2:p2:124:VAL:H	1.82	0.43
2:52:91:THR:HG22	2:52:124:VAL:H	1.82	0.43
1:A:239:ARG:NH1	1:A:686:GLU:OE2	2.42	0.43
1:D:288:ASN:O	1:D:619:PRO:HA	2.18	0.43
1:H:451:THR:OG1	1:W:502:ASN:HA	2.17	0.43
1:J:450:ARG:NH1	1:J:454:THR:H	2.07	0.43
1:L:572:ASN:HD21	1:L:609:TRP:CB	2.29	0.43
1:N:569:LYS:HE2	1:N:569:LYS:HB3	1.86	0.43
1:O:588:GLN:HG3	1:O:590:ASN:H	1.83	0.43
1:P:722:VAL:HG11	2:Q2:29:HIS:ND1	2.33	0.43
1:R:486:TYR:O	1:R:526:MET:HE1	2.18	0.43
1:S:288:ASN:O	1:S:619:PRO:HA	2.18	0.43
1:S:355:TYR:CE2	1:S:357:LEU:HB2	2.53	0.43
1:V:588:GLN:HG3	1:V:590:ASN:H	1.83	0.43
1:Y:355:TYR:CE2	1:Y:357:LEU:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:437:MET:SD	1:c:473:MET:HG2	2.57	0.43
1:d:288:ASN:O	1:d:619:PRO:HA	2.18	0.43
1:d:355:TYR:CE2	1:d:357:LEU:HB2	2.53	0.43
1:e:355:TYR:CE2	1:e:357:LEU:HB2	2.53	0.43
1:f:288:ASN:O	1:f:619:PRO:HA	2.18	0.43
1:g:530:LYS:HG2	1:g:533:GLU:HG3	2.00	0.43
1:m:355:TYR:CE2	1:m:357:LEU:HB2	2.53	0.43
1:n:437:MET:SD	1:n:473:MET:HG2	2.57	0.43
1:p:486:TYR:O	1:p:526:MET:HE1	2.18	0.43
1:r:486:TYR:O	1:r:526:MET:HE1	2.18	0.43
1:u:355:TYR:CE2	1:u:357:LEU:HB2	2.53	0.43
1:u:437:MET:SD	1:u:473:MET:HG2	2.57	0.43
1:v:234:THR:HG22	1:v:236:LEU:HG	1.99	0.43
1:x:384:ASN:ND2	1:x:386:GLY:O	2.46	0.43
1:z:530:LYS:HG2	1:z:533:GLU:HG3	2.00	0.43
1:3:530:LYS:HG2	1:3:533:GLU:HG3	2.00	0.43
2:A2:91:THR:HG22	2:A2:124:VAL:H	1.82	0.43
2:D2:68:PHE:CD1	2:D2:83:MET:HG2	2.53	0.43
2:M2:61:SER:HB3	2:M2:64:VAL:CG2	2.48	0.43
2:N2:68:PHE:CD1	2:N2:83:MET:HG2	2.53	0.43
2:O2:68:PHE:CD1	2:O2:83:MET:HG2	2.53	0.43
2:T2:68:PHE:CD1	2:T2:83:MET:HG2	2.53	0.43
2:V2:61:SER:HB3	2:V2:64:VAL:CG2	2.48	0.43
2:b2:61:SER:HB3	2:b2:64:VAL:CG2	2.48	0.43
2:e2:68:PHE:CD1	2:e2:83:MET:HG2	2.53	0.43
2:i2:91:THR:HG22	2:i2:124:VAL:H	1.82	0.43
2:r2:84:ASN:CG	2:x2:43:LYS:HE3	2.43	0.43
2:s2:37:PHE:HD1	2:s2:47:PHE:CA	2.27	0.43
2:w2:68:PHE:CD1	2:w2:83:MET:HG2	2.53	0.43
1:A:234:THR:HG22	1:A:236:LEU:HG	1.99	0.43
1:B:355:TYR:CE2	1:B:357:LEU:HB2	2.53	0.43
1:E:437:MET:SD	1:E:473:MET:HG2	2.57	0.43
1:G:549:ASN:HD22	2:W2:29:HIS:CD2	2.36	0.43
1:I:486:TYR:O	1:I:526:MET:HE1	2.18	0.43
1:J:588:GLN:HG3	1:J:590:ASN:H	1.83	0.43
1:K:288:ASN:O	1:K:619:PRO:HA	2.18	0.43
1:M:288:ASN:O	1:M:619:PRO:HA	2.18	0.43
1:O:572:ASN:HD21	1:O:609:TRP:CB	2.29	0.43
1:Q:327:THR:CG2	1:Q:334:THR:CG2	2.97	0.43
1:R:722:VAL:HG11	2:F2:29:HIS:ND1	2.34	0.43
1:S:234:THR:HG22	1:S:236:LEU:HG	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:384:ASN:ND2	1:W:386:GLY:O	2.46	0.43
1:W:588:GLN:HG3	1:W:590:ASN:H	1.83	0.43
1:Y:234:THR:HG22	1:Y:236:LEU:HG	1.99	0.43
1:Y:486:TYR:O	1:Y:526:MET:HE1	2.18	0.43
1:c:234:THR:HG22	1:c:236:LEU:HG	1.99	0.43
1:i:530:LYS:HG2	1:i:533:GLU:HG3	2.00	0.43
1:j:288:ASN:O	1:j:619:PRO:HA	2.18	0.43
1:m:588:GLN:HG3	1:m:590:ASN:H	1.83	0.43
1:o:327:THR:CG2	1:o:334:THR:CG2	2.97	0.43
1:r:572:ASN:HD21	1:r:609:TRP:CB	2.29	0.43
1:s:234:THR:HG22	1:s:236:LEU:HG	1.99	0.43
1:t:588:GLN:HG3	1:t:590:ASN:H	1.83	0.43
1:u:572:ASN:HD21	1:u:609:TRP:CB	2.29	0.43
1:v:588:GLN:HG3	1:v:590:ASN:H	1.83	0.43
1:w:234:THR:HG22	1:w:236:LEU:HG	1.99	0.43
1:y:588:GLN:HG3	1:y:590:ASN:H	1.83	0.43
1:4:572:ASN:HD21	1:4:609:TRP:CB	2.29	0.43
1:5:234:THR:HG22	1:5:236:LEU:HG	1.99	0.43
1:6:486:TYR:O	1:6:526:MET:HE1	2.18	0.43
1:7:234:THR:HG22	1:7:236:LEU:HG	1.99	0.43
1:7:288:ASN:O	1:7:619:PRO:HA	2.18	0.43
2:C2:68:PHE:CD1	2:C2:83:MET:HG2	2.53	0.43
2:C2:91:THR:HG22	2:C2:124:VAL:H	1.82	0.43
2:D2:61:SER:HB3	2:D2:64:VAL:CG2	2.48	0.43
2:N2:61:SER:HB3	2:N2:64:VAL:CG2	2.48	0.43
2:l2:68:PHE:CD1	2:l2:83:MET:HG2	2.53	0.43
2:s2:91:THR:HG22	2:s2:124:VAL:H	1.82	0.43
1:A:327:THR:CG2	1:A:334:THR:CG2	2.97	0.43
1:B:588:GLN:HG3	1:B:590:ASN:H	1.83	0.43
1:E:288:ASN:O	1:E:619:PRO:HA	2.18	0.43
1:H:327:THR:CG2	1:H:334:THR:CG2	2.97	0.43
1:H:384:ASN:ND2	1:H:386:GLY:O	2.46	0.43
1:L:288:ASN:O	1:L:619:PRO:HA	2.18	0.43
1:L:588:GLN:HG3	1:L:590:ASN:H	1.83	0.43
1:M:435:ARG:HD3	1:M:435:ARG:HA	1.84	0.43
1:T:435:ARG:HA	1:T:435:ARG:HD3	1.84	0.43
1:X:588:GLN:HG3	1:X:590:ASN:H	1.83	0.43
1:Z:288:ASN:O	1:Z:619:PRO:HA	2.18	0.43
1:b:722:VAL:HG11	2:o2:29:HIS:ND1	2.33	0.43
1:c:288:ASN:O	1:c:619:PRO:HA	2.18	0.43
1:h:722:VAL:HG11	2:i2:29:HIS:ND1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:327:THR:CG2	1:k:334:THR:CG2	2.97	0.43
1:m:327:THR:CG2	1:m:334:THR:CG2	2.97	0.43
1:s:327:THR:CG2	1:s:334:THR:CG2	2.97	0.43
1:t:355:TYR:CE2	1:t:357:LEU:HB2	2.53	0.43
1:u:288:ASN:O	1:u:619:PRO:HA	2.18	0.43
1:w:486:TYR:O	1:w:526:MET:HE1	2.18	0.43
1:x:327:THR:CG2	1:x:334:THR:CG2	2.97	0.43
1:2:722:VAL:HG11	2:32:29:HIS:ND1	2.33	0.43
1:3:288:ASN:O	1:3:619:PRO:HA	2.18	0.43
1:4:327:THR:CG2	1:4:334:THR:CG2	2.97	0.43
2:A2:37:PHE:HD1	2:A2:47:PHE:CA	2.27	0.43
2:F2:91:THR:HG22	2:F2:124:VAL:H	1.82	0.43
2:H2:91:THR:HG22	2:H2:124:VAL:H	1.82	0.43
2:K2:2:VAL:HG21	2:K2:27:ARG:HD2	2.01	0.43
2:L2:68:PHE:CD1	2:L2:83:MET:HG2	2.53	0.43
2:M2:68:PHE:CD1	2:M2:83:MET:HG2	2.53	0.43
2:P2:37:PHE:HD1	2:P2:47:PHE:CA	2.27	0.43
2:S2:68:PHE:CD1	2:S2:83:MET:HG2	2.53	0.43
2:X2:68:PHE:CD1	2:X2:83:MET:HG2	2.53	0.43
2:a2:68:PHE:CD1	2:a2:83:MET:HG2	2.53	0.43
2:b2:37:PHE:HD1	2:b2:47:PHE:CA	2.27	0.43
2:e2:91:THR:HG22	2:e2:124:VAL:H	1.82	0.43
2:f2:84:ASN:CG	2:z2:43:LYS:HE3	2.42	0.43
2:s2:61:SER:HB3	2:s2:64:VAL:CG2	2.48	0.43
2:t2:61:SER:HB3	2:t2:64:VAL:CG2	2.48	0.43
1:A:530:LYS:HG2	1:A:533:GLU:HG3	2.00	0.43
1:B:288:ASN:O	1:B:619:PRO:HA	2.18	0.43
1:B:327:THR:CG2	1:B:334:THR:CG2	2.97	0.43
1:E:238:ASP:OD1	1:E:238:ASP:N	2.49	0.43
1:H:355:TYR:CE2	1:H:357:LEU:HB2	2.53	0.43
1:M:486:TYR:O	1:M:526:MET:HE1	2.18	0.43
1:N:368:PHE:HA	1:N:369:PRO:HD3	1.90	0.43
1:O:288:ASN:O	1:O:619:PRO:HA	2.18	0.43
1:V:288:ASN:O	1:V:619:PRO:HA	2.18	0.43
1:V:327:THR:CG2	1:V:334:THR:CG2	2.97	0.43
1:X:234:THR:HG22	1:X:236:LEU:HG	1.99	0.43
1:g:355:TYR:CE2	1:g:357:LEU:HB2	2.53	0.43
1:i:288:ASN:O	1:i:619:PRO:HA	2.18	0.43
1:k:572:ASN:HD21	1:k:609:TRP:CB	2.29	0.43
1:l:220:ASP:OD1	1:l:220:ASP:N	2.49	0.43
1:s:530:LYS:HG2	1:s:533:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:355:TYR:CE2	1:x:357:LEU:HB2	2.53	0.43
1:x:486:TYR:O	1:x:526:MET:HE1	2.18	0.43
1:3:239:ARG:NH1	1:3:686:GLU:OE2	2.42	0.43
1:5:288:ASN:O	1:5:619:PRO:HA	2.18	0.43
1:7:327:THR:CG2	1:7:334:THR:CG2	2.97	0.43
2:A2:61:SER:HB3	2:A2:64:VAL:CG2	2.48	0.43
2:C2:61:SER:HB3	2:C2:64:VAL:CG2	2.48	0.43
2:F2:61:SER:HB3	2:F2:64:VAL:CG2	2.48	0.43
2:U2:68:PHE:CD1	2:U2:83:MET:HG2	2.53	0.43
2:X2:61:SER:HB3	2:X2:64:VAL:CG2	2.48	0.43
2:d2:2:VAL:HG21	2:d2:27:ARG:HD2	2.01	0.43
2:d2:61:SER:HB3	2:d2:64:VAL:CG2	2.48	0.43
2:u2:91:THR:HG22	2:u2:124:VAL:H	1.82	0.43
2:v2:2:VAL:HG21	2:v2:27:ARG:HD2	2.01	0.43
2:v2:61:SER:HB3	2:v2:64:VAL:CG2	2.48	0.43
2:v2:68:PHE:CD1	2:v2:83:MET:HG2	2.53	0.43
2:32:91:THR:HG22	2:32:124:VAL:H	1.82	0.43
2:52:68:PHE:CD1	2:52:83:MET:HG2	2.53	0.43
2:72:68:PHE:CD1	2:72:83:MET:HG2	2.53	0.43
1:A:288:ASN:O	1:A:619:PRO:HA	2.18	0.43
1:A:355:TYR:CE2	1:A:357:LEU:HB2	2.53	0.43
1:D:486:TYR:O	1:D:526:MET:HE1	2.18	0.43
1:G:327:THR:CG2	1:G:334:THR:CG2	2.97	0.43
1:G:450:ARG:NH1	1:G:454:THR:H	2.07	0.43
1:G:486:TYR:O	1:G:526:MET:HE1	2.18	0.43
1:H:486:TYR:O	1:H:526:MET:HE1	2.18	0.43
1:I:722:VAL:HG11	2:J2:29:HIS:ND1	2.34	0.43
1:L:327:THR:CG2	1:L:334:THR:CG2	2.97	0.43
1:O:327:THR:CG2	1:O:334:THR:CG2	2.97	0.43
1:P:327:THR:CG2	1:P:334:THR:CG2	2.97	0.43
1:P:530:LYS:HG2	1:P:533:GLU:HG3	2.00	0.43
1:S:327:THR:CG2	1:S:334:THR:CG2	2.97	0.43
1:T:451:THR:OG1	1:d:502:ASN:HA	2.17	0.43
1:U:288:ASN:O	1:U:619:PRO:HA	2.18	0.43
1:V:355:TYR:CE2	1:V:357:LEU:HB2	2.53	0.43
1:Y:565:GLU:O	1:Y:568:ILE:HG12	2.19	0.43
1:Z:327:THR:CG2	1:Z:334:THR:CG2	2.97	0.43
1:Z:486:TYR:O	1:Z:526:MET:HE1	2.18	0.43
1:a:220:ASP:OD1	1:a:220:ASP:N	2.49	0.43
1:b:327:THR:CG2	1:b:334:THR:CG2	2.97	0.43
1:b:530:LYS:HG2	1:b:533:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:288:ASN:O	1:e:619:PRO:HA	2.18	0.43
1:e:530:LYS:HG2	1:e:533:GLU:HG3	2.00	0.43
1:h:588:GLN:HG3	1:h:590:ASN:H	1.83	0.43
1:j:327:THR:CG2	1:j:334:THR:CG2	2.97	0.43
1:m:288:ASN:O	1:m:619:PRO:HA	2.18	0.43
1:q:327:THR:CG2	1:q:334:THR:CG2	2.97	0.43
1:q:450:ARG:NH1	1:q:454:THR:H	2.07	0.43
1:q:486:TYR:O	1:q:526:MET:HE1	2.18	0.43
1:z:355:TYR:CE2	1:z:357:LEU:HB2	2.53	0.43
1:4:435:ARG:HD3	1:4:435:ARG:HA	1.84	0.43
1:8:355:TYR:CE2	1:8:357:LEU:HB2	2.53	0.43
2:E2:2:VAL:HG21	2:E2:27:ARG:HD2	2.01	0.43
2:X2:2:VAL:HG21	2:X2:27:ARG:HD2	2.01	0.43
2:c2:2:VAL:HG21	2:c2:27:ARG:HD2	2.01	0.43
2:e2:43:LYS:HE3	2:h2:84:ASN:CG	2.44	0.43
2:i2:68:PHE:CD1	2:i2:83:MET:HG2	2.53	0.43
2:p2:61:SER:HB3	2:p2:64:VAL:CG2	2.48	0.43
2:q2:91:THR:HG22	2:q2:124:VAL:H	1.82	0.43
2:u2:43:LYS:HE3	2:22:84:ASN:CG	2.44	0.43
2:u2:68:PHE:CD1	2:u2:83:MET:HG2	2.53	0.43
2:x2:91:THR:HG22	2:x2:124:VAL:H	1.82	0.43
1:B:486:TYR:O	1:B:526:MET:HE1	2.18	0.43
1:E:384:ASN:ND2	1:E:386:GLY:O	2.46	0.43
1:H:722:VAL:HG11	2:I2:29:HIS:ND1	2.33	0.43
1:I:588:GLN:HG3	1:I:590:ASN:H	1.83	0.43
1:K:327:THR:CG2	1:K:334:THR:CG2	2.97	0.43
1:M:565:GLU:O	1:M:568:ILE:HG12	2.19	0.43
1:R:288:ASN:O	1:R:619:PRO:HA	2.18	0.43
1:S:722:VAL:HG11	2:d2:29:HIS:ND1	2.34	0.43
1:T:355:TYR:CE2	1:T:357:LEU:HB2	2.53	0.43
1:U:368:PHE:HA	1:U:369:PRO:HD3	1.90	0.43
1:W:327:THR:CG2	1:W:334:THR:CG2	2.97	0.43
1:X:572:ASN:HD21	1:X:609:TRP:CB	2.29	0.43
1:e:486:TYR:O	1:e:526:MET:HE1	2.18	0.43
1:f:722:VAL:HG11	2:X2:29:HIS:ND1	2.34	0.43
1:h:572:ASN:HD21	1:h:609:TRP:CB	2.29	0.43
1:n:355:TYR:CE2	1:n:357:LEU:HB2	2.53	0.43
1:n:384:ASN:ND2	1:n:386:GLY:O	2.46	0.43
1:r:722:VAL:HG11	2:n2:29:HIS:ND1	2.34	0.43
1:s:288:ASN:O	1:s:619:PRO:HA	2.18	0.43
1:s:355:TYR:CE2	1:s:357:LEU:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:288:ASN:O	1:t:619:PRO:HA	2.18	0.43
1:t:327:THR:CG2	1:t:334:THR:CG2	2.97	0.43
1:u:530:LYS:HG2	1:u:533:GLU:HG3	2.00	0.43
1:u:722:VAL:HG11	2:22:29:HIS:ND1	2.34	0.43
1:v:572:ASN:HD21	1:v:609:TRP:CB	2.29	0.43
1:w:565:GLU:O	1:w:568:ILE:HG12	2.19	0.43
1:y:327:THR:CG2	1:y:334:THR:CG2	2.97	0.43
1:y:722:VAL:HG11	2:t2:29:HIS:ND1	2.34	0.43
1:1:722:VAL:HG11	2:v2:29:HIS:ND1	2.34	0.43
1:2:355:TYR:CE2	1:2:357:LEU:HB2	2.53	0.43
1:2:588:GLN:HG3	1:2:590:ASN:H	1.83	0.43
1:3:565:GLU:O	1:3:568:ILE:HG12	2.19	0.43
1:6:288:ASN:O	1:6:619:PRO:HA	2.18	0.43
1:7:722:VAL:HG11	2:K2:29:HIS:ND1	2.34	0.43
1:8:435:ARG:HA	1:8:435:ARG:HD3	1.84	0.43
2:D2:91:THR:HG22	2:D2:124:VAL:H	1.82	0.43
2:G2:38:ARG:HB3	2:G2:94:TYR:CD1	2.54	0.43
2:G2:91:THR:HG22	2:G2:124:VAL:H	1.82	0.43
2:K2:61:SER:HB3	2:K2:64:VAL:CG2	2.48	0.43
2:P2:2:VAL:HG21	2:P2:27:ARG:HD2	2.01	0.43
2:b2:2:VAL:HG21	2:b2:27:ARG:HD2	2.01	0.43
2:m2:43:LYS:HE3	2:s2:84:ASN:CG	2.44	0.43
2:q2:38:ARG:HB3	2:q2:94:TYR:CD1	2.54	0.43
2:z2:2:VAL:HG21	2:z2:27:ARG:HD2	2.01	0.43
2:32:68:PHE:CD1	2:32:83:MET:HG2	2.53	0.43
1:C:569:LYS:HE2	1:C:569:LYS:HB3	1.86	0.43
1:D:327:THR:CG2	1:D:334:THR:CG2	2.97	0.43
1:D:565:GLU:O	1:D:568:ILE:HG12	2.19	0.43
1:E:567:GLU:HG3	1:Q:392:ARG:NH2	2.34	0.43
1:H:588:GLN:HG3	1:H:590:ASN:H	1.83	0.43
1:J:355:TYR:CE2	1:J:357:LEU:HB2	2.53	0.43
1:J:567:GLU:HG3	1:L:392:ARG:NH2	2.34	0.43
1:K:502:ASN:HA	1:8:451:THR:OG1	2.17	0.43
1:Q:572:ASN:HD21	1:Q:609:TRP:CB	2.29	0.43
1:R:355:TYR:CE2	1:R:357:LEU:HB2	2.53	0.43
1:S:530:LYS:HG2	1:S:533:GLU:HG3	2.00	0.43
1:W:530:LYS:HG2	1:W:533:GLU:HG3	2.00	0.43
1:X:722:VAL:HG11	2:Y2:29:HIS:ND1	2.34	0.43
1:Z:565:GLU:O	1:Z:568:ILE:HG12	2.19	0.43
1:c:238:ASP:OD1	1:c:238:ASP:N	2.49	0.43
1:c:384:ASN:ND2	1:c:386:GLY:O	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:567:GLU:HG3	1:o:392:ARG:NH2	2.34	0.43
1:d:327:THR:CG2	1:d:334:THR:CG2	2.97	0.43
1:e:384:ASN:ND2	1:e:386:GLY:O	2.46	0.43
1:e:722:VAL:HG11	2:h2:29:HIS:ND1	2.34	0.43
1:h:355:TYR:CE2	1:h:357:LEU:HB2	2.53	0.43
1:i:392:ARG:NH2	1:k:567:GLU:HG3	2.34	0.43
1:i:565:GLU:O	1:i:568:ILE:HG12	2.19	0.43
1:j:220:ASP:OD1	1:j:220:ASP:N	2.49	0.43
1:j:486:TYR:O	1:j:526:MET:HE1	2.18	0.43
1:j:565:GLU:O	1:j:568:ILE:HG12	2.19	0.43
1:m:486:TYR:O	1:m:526:MET:HE1	2.18	0.43
1:n:722:VAL:HG11	2:l2:29:HIS:ND1	2.34	0.43
1:u:384:ASN:ND2	1:u:386:GLY:O	2.46	0.43
1:u:486:TYR:O	1:u:526:MET:HE1	2.18	0.43
1:v:486:TYR:O	1:v:526:MET:HE1	2.18	0.43
1:y:530:LYS:HG2	1:y:533:GLU:HG3	2.00	0.43
1:2:572:ASN:HD21	1:2:609:TRP:CB	2.29	0.43
1:6:355:TYR:CE2	1:6:357:LEU:HB2	2.53	0.43
1:7:530:LYS:HG2	1:7:533:GLU:HG3	2.00	0.43
1:8:565:GLU:O	1:8:568:ILE:HG12	2.19	0.43
2:A2:84:ASN:CG	2:B2:43:LYS:HE3	2.44	0.43
2:B2:84:ASN:CG	2:C2:43:LYS:HE3	2.44	0.43
2:M2:91:THR:HG22	2:M2:124:VAL:H	1.82	0.43
2:R2:2:VAL:HG21	2:R2:27:ARG:HD2	2.01	0.43
2:W2:2:VAL:HG21	2:W2:27:ARG:HD2	2.01	0.43
2:g2:2:VAL:HG21	2:g2:27:ARG:HD2	2.01	0.43
2:k2:2:VAL:HG21	2:k2:27:ARG:HD2	2.01	0.43
2:t2:2:VAL:HG21	2:t2:27:ARG:HD2	2.01	0.43
2:y2:2:VAL:HG21	2:y2:27:ARG:HD2	2.01	0.43
2:22:2:VAL:HG21	2:22:27:ARG:HD2	2.01	0.43
2:32:37:PHE:HD1	2:32:47:PHE:CA	2.28	0.43
2:62:2:VAL:HG21	2:62:27:ARG:HD2	2.01	0.43
1:G:530:LYS:HG2	1:G:533:GLU:HG3	2.00	0.43
1:J:384:ASN:ND2	1:J:386:GLY:O	2.46	0.43
1:J:722:VAL:HG11	2:a2:29:HIS:ND1	2.34	0.43
1:M:327:THR:CG2	1:M:334:THR:CG2	2.97	0.43
1:N:288:ASN:O	1:N:619:PRO:HA	2.18	0.43
1:O:392:ARG:NH2	1:n:567:GLU:HG3	2.34	0.43
1:O:565:GLU:O	1:O:568:ILE:HG12	2.19	0.43
1:Q:588:GLN:HG3	1:Q:590:ASN:H	1.83	0.43
1:R:565:GLU:O	1:R:568:ILE:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:565:GLU:O	1:T:568:ILE:HG12	2.19	0.43
1:U:450:ARG:NH1	1:U:454:THR:H	2.07	0.43
1:W:572:ASN:HD21	1:W:609:TRP:CB	2.29	0.43
1:W:722:VAL:HG11	2:V2:29:HIS:ND1	2.34	0.43
1:X:486:TYR:O	1:X:526:MET:HE1	2.18	0.43
1:a:327:THR:CG2	1:a:334:THR:CG2	2.97	0.43
1:l:327:THR:CG2	1:l:334:THR:CG2	2.97	0.43
1:o:572:ASN:HD21	1:o:609:TRP:CB	2.29	0.43
1:r:588:GLN:HG3	1:r:590:ASN:H	1.83	0.43
1:x:722:VAL:HG11	2:r2:29:HIS:ND1	2.33	0.43
1:2:486:TYR:O	1:2:526:MET:HE1	2.18	0.43
1:3:392:ARG:NH2	1:4:567:GLU:HG3	2.34	0.43
1:5:435:ARG:HD3	1:5:435:ARG:HA	1.84	0.43
1:6:565:GLU:O	1:6:568:ILE:HG12	2.19	0.43
2:C2:2:VAL:HG21	2:C2:27:ARG:HD2	2.01	0.43
2:D2:38:ARG:HB3	2:D2:94:TYR:CD1	2.54	0.43
2:N2:43:LYS:HE3	2:m2:84:ASN:CG	2.44	0.43
2:R2:37:PHE:HD1	2:R2:47:PHE:CA	2.27	0.43
2:V2:2:VAL:HG21	2:V2:27:ARG:HD2	2.01	0.43
2:g2:38:ARG:HB3	2:g2:94:TYR:CD1	2.54	0.43
2:i2:37:PHE:HD1	2:i2:47:PHE:CA	2.28	0.43
2:k2:38:ARG:HB3	2:k2:94:TYR:CD1	2.54	0.43
2:t2:91:THR:HG22	2:t2:124:VAL:H	1.82	0.43
2:v2:38:ARG:HB3	2:v2:94:TYR:CD1	2.54	0.43
2:z2:38:ARG:HB3	2:z2:94:TYR:CD1	2.54	0.43
2:22:68:PHE:CD1	2:22:83:MET:HG2	2.53	0.43
2:42:2:VAL:HG21	2:42:27:ARG:HD2	2.01	0.43
2:42:38:ARG:HB3	2:42:94:TYR:CD1	2.54	0.43
2:52:38:ARG:HB3	2:52:94:TYR:CD1	2.54	0.43
1:B:565:GLU:O	1:B:568:ILE:HG12	2.19	0.43
1:C:288:ASN:O	1:C:619:PRO:HA	2.18	0.43
1:C:355:TYR:CE2	1:C:357:LEU:HB2	2.53	0.43
1:F:327:THR:CG2	1:F:334:THR:CG2	2.97	0.43
1:F:565:GLU:O	1:F:568:ILE:HG12	2.19	0.43
1:I:288:ASN:O	1:I:619:PRO:HA	2.18	0.43
1:I:327:THR:CG2	1:I:334:THR:CG2	2.97	0.43
1:K:565:GLU:O	1:K:568:ILE:HG12	2.19	0.43
1:L:565:GLU:O	1:L:568:ILE:HG12	2.19	0.43
1:N:530:LYS:HG2	1:N:533:GLU:HG3	2.00	0.43
1:P:565:GLU:O	1:P:568:ILE:HG12	2.19	0.43
1:V:722:VAL:HG11	2:R2:29:HIS:ND1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:530:LYS:HG2	1:X:533:GLU:HG3	2.00	0.43
1:Z:220:ASP:OD1	1:Z:220:ASP:N	2.49	0.43
1:Z:571:THR:HG23	1:Z:608:VAL:HG23	2.01	0.43
1:b:565:GLU:O	1:b:568:ILE:HG12	2.19	0.43
1:h:486:TYR:O	1:h:526:MET:HE1	2.18	0.43
1:j:571:THR:HG23	1:j:608:VAL:HG23	2.01	0.43
1:k:355:TYR:CE2	1:k:357:LEU:HB2	2.53	0.43
1:k:588:GLN:HG3	1:k:590:ASN:H	1.83	0.43
1:m:565:GLU:O	1:m:568:ILE:HG12	2.19	0.43
1:p:327:THR:CG2	1:p:334:THR:CG2	2.97	0.43
1:q:392:ARG:NH2	1:s:567:GLU:HG3	2.34	0.43
1:r:327:THR:CG2	1:r:334:THR:CG2	2.97	0.43
1:w:722:VAL:HG11	2:k2:29:HIS:ND1	2.33	0.43
1:x:588:GLN:HG3	1:x:590:ASN:H	1.83	0.43
1:4:486:TYR:O	1:4:526:MET:HE1	2.18	0.43
1:5:368:PHE:HA	1:5:369:PRO:HD3	1.90	0.43
1:7:588:GLN:HG3	1:7:590:ASN:H	1.83	0.43
1:8:482:PRO:O	1:8:607:MET:HG2	2.19	0.43
2:B2:37:PHE:HD1	2:B2:47:PHE:CA	2.27	0.43
2:B2:38:ARG:HB3	2:B2:94:TYR:CD1	2.54	0.43
2:D2:2:VAL:HG21	2:D2:27:ARG:HD2	2.01	0.43
2:G2:37:PHE:HD1	2:G2:47:PHE:CA	2.28	0.43
2:M2:38:ARG:HB3	2:M2:94:TYR:CD1	2.54	0.43
2:N2:2:VAL:HG21	2:N2:27:ARG:HD2	2.01	0.43
2:T2:2:VAL:HG21	2:T2:27:ARG:HD2	2.01	0.43
2:U2:38:ARG:HB3	2:U2:94:TYR:CD1	2.54	0.43
2:X2:38:ARG:HB3	2:X2:94:TYR:CD1	2.54	0.43
2:g2:43:LYS:HE3	2:12:84:ASN:CG	2.44	0.43
2:g2:43:LYS:HD3	2:12:84:ASN:ND2	2.34	0.43
2:h2:2:VAL:HG21	2:h2:27:ARG:HD2	2.01	0.43
2:h2:68:PHE:CD1	2:h2:83:MET:HG2	2.53	0.43
2:m2:38:ARG:HB3	2:m2:94:TYR:CD1	2.54	0.43
2:x2:7:SER:OG	2:x2:21:SER:HB2	2.19	0.43
1:C:530:LYS:HG2	1:C:533:GLU:HG3	2.00	0.42
1:G:722:VAL:HG11	2:W2:29:HIS:ND1	2.33	0.42
1:N:355:TYR:CE2	1:N:357:LEU:HB2	2.53	0.42
1:R:327:THR:CG2	1:R:334:THR:CG2	2.97	0.42
1:R:567:GLU:HG3	1:S:392:ARG:NH2	2.34	0.42
1:S:565:GLU:O	1:S:568:ILE:HG12	2.19	0.42
1:T:482:PRO:O	1:T:607:MET:HG2	2.19	0.42
1:V:482:PRO:O	1:V:607:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:482:PRO:O	1:W:607:MET:HG2	2.19	0.42
1:Y:722:VAL:HG11	2:42:29:HIS:ND1	2.34	0.42
1:a:288:ASN:O	1:a:619:PRO:HA	2.18	0.42
1:d:565:GLU:O	1:d:568:ILE:HG12	2.19	0.42
1:e:565:GLU:O	1:e:568:ILE:HG12	2.19	0.42
1:o:588:GLN:HG3	1:o:590:ASN:H	1.83	0.42
1:p:565:GLU:O	1:p:568:ILE:HG12	2.19	0.42
1:r:288:ASN:O	1:r:619:PRO:HA	2.18	0.42
1:t:482:PRO:O	1:t:607:MET:HG2	2.19	0.42
1:4:355:TYR:CE2	1:4:357:LEU:HB2	2.53	0.42
1:4:588:GLN:HG3	1:4:590:ASN:H	1.83	0.42
1:7:565:GLU:O	1:7:568:ILE:HG12	2.19	0.42
2:A2:7:SER:OG	2:A2:21:SER:HB2	2.19	0.42
2:A2:38:ARG:HB3	2:A2:94:TYR:CD1	2.54	0.42
2:H2:7:SER:OG	2:H2:21:SER:HB2	2.19	0.42
2:M2:2:VAL:HG21	2:M2:27:ARG:HD2	2.01	0.42
2:P2:38:ARG:HB3	2:P2:94:TYR:CD1	2.54	0.42
2:V2:91:THR:HG22	2:V2:124:VAL:H	1.82	0.42
2:b2:38:ARG:HB3	2:b2:94:TYR:CD1	2.54	0.42
2:e2:2:VAL:HG21	2:e2:27:ARG:HD2	2.01	0.42
2:f2:38:ARG:HB3	2:f2:94:TYR:CD1	2.54	0.42
2:j2:84:ASN:CG	2:l2:43:LYS:HE3	2.44	0.42
2:m2:2:VAL:HG21	2:m2:27:ARG:HD2	2.01	0.42
2:m2:37:PHE:HD1	2:m2:47:PHE:CA	2.27	0.42
2:s2:38:ARG:HB3	2:s2:94:TYR:CD1	2.54	0.42
2:u2:2:VAL:HG21	2:u2:27:ARG:HD2	2.01	0.42
2:82:2:VAL:HG21	2:82:27:ARG:HD2	2.01	0.42
1:A:567:GLU:HG3	1:G:392:ARG:NH2	2.34	0.42
1:B:571:THR:HG23	1:B:608:VAL:HG23	2.01	0.42
1:E:327:THR:CG2	1:E:334:THR:CG2	2.97	0.42
1:G:307:TRP:CZ3	1:G:736:ARG:NH2	2.88	0.42
1:G:482:PRO:O	1:G:607:MET:HG2	2.19	0.42
1:J:307:TRP:CZ3	1:J:736:ARG:NH2	2.88	0.42
1:J:327:THR:CG2	1:J:334:THR:CG2	2.97	0.42
1:J:530:LYS:HG2	1:J:533:GLU:HG3	2.00	0.42
1:K:722:VAL:HG11	2:L2:29:HIS:ND1	2.34	0.42
1:N:571:THR:HG23	1:N:608:VAL:HG23	2.01	0.42
1:S:588:GLN:HG3	1:S:590:ASN:H	1.83	0.42
1:T:722:VAL:HG11	2:U2:29:HIS:ND1	2.34	0.42
1:U:327:THR:CG2	1:U:334:THR:CG2	2.97	0.42
1:U:435:ARG:HD3	1:U:435:ARG:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:722:VAL:HG11	2:e:29:HIS:ND1	2.34	0.42
1:V:565:GLU:O	1:V:568:ILE:HG12	2.19	0.42
1:Y:327:THR:CG2	1:Y:334:THR:CG2	2.97	0.42
1:Z:530:LYS:HG2	1:Z:533:GLU:HG3	2.00	0.42
1:a:355:TYR:CE2	1:a:357:LEU:HB2	2.53	0.42
1:d:722:VAL:HG11	2:O2:29:HIS:ND1	2.34	0.42
1:f:482:PRO:O	1:f:607:MET:HG2	2.19	0.42
1:g:327:THR:CG2	1:g:334:THR:CG2	2.97	0.42
1:h:307:TRP:CZ3	1:h:736:ARG:NH2	2.88	0.42
1:h:571:THR:HG23	1:h:608:VAL:HG23	2.02	0.42
1:i:327:THR:CG2	1:i:334:THR:CG2	2.97	0.42
1:k:435:ARG:HD3	1:k:435:ARG:HA	1.84	0.42
1:k:486:TYR:O	1:k:526:MET:HE1	2.18	0.42
1:l:288:ASN:O	1:l:619:PRO:HA	2.18	0.42
1:l:355:TYR:CE2	1:l:357:LEU:HB2	2.53	0.42
1:m:571:THR:HG23	1:m:608:VAL:HG23	2.01	0.42
1:n:307:TRP:CZ3	1:n:736:ARG:NH2	2.88	0.42
1:q:307:TRP:CZ3	1:q:736:ARG:NH2	2.88	0.42
1:q:482:PRO:O	1:q:607:MET:HG2	2.19	0.42
1:q:530:LYS:HG2	1:q:533:GLU:HG3	2.00	0.42
1:s:722:VAL:HG11	2:c2:29:HIS:ND1	2.33	0.42
1:u:565:GLU:O	1:u:568:ILE:HG12	2.19	0.42
1:v:530:LYS:HG2	1:v:533:GLU:HG3	2.00	0.42
1:w:327:THR:CG2	1:w:334:THR:CG2	2.97	0.42
1:y:482:PRO:O	1:y:607:MET:HG2	2.19	0.42
1:y:572:ASN:HD21	1:y:609:TRP:CB	2.29	0.42
1:z:327:THR:CG2	1:z:334:THR:CG2	2.97	0.42
1:1:238:ASP:OD1	1:1:238:ASP:N	2.49	0.42
1:1:327:THR:CG2	1:1:334:THR:CG2	2.97	0.42
1:2:307:TRP:CZ3	1:2:736:ARG:NH2	2.88	0.42
1:3:327:THR:CG2	1:3:334:THR:CG2	2.97	0.42
1:5:327:THR:CG2	1:5:334:THR:CG2	2.97	0.42
1:5:722:VAL:HG11	2:u2:29:HIS:ND1	2.34	0.42
1:6:327:THR:CG2	1:6:334:THR:CG2	2.97	0.42
1:6:567:GLU:HG3	1:7:392:ARG:NH2	2.34	0.42
1:7:571:THR:HG23	1:7:608:VAL:HG23	2.01	0.42
2:B2:2:VAL:HG21	2:B2:27:ARG:HD2	2.01	0.42
2:B2:7:SER:OG	2:B2:21:SER:HB2	2.19	0.42
2:D2:7:SER:OG	2:D2:21:SER:HB2	2.19	0.42
2:I2:2:VAL:HG21	2:I2:27:ARG:HD2	2.01	0.42
2:M2:7:SER:OG	2:M2:21:SER:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U2:2:VAL:HG21	2:U2:27:ARG:HD2	2.01	0.42
2:Y2:43:LYS:HE3	2:42:84:ASN:CG	2.44	0.42
2:Z2:84:ASN:CG	2:a2:43:LYS:HE3	2.44	0.42
2:k2:84:ASN:CG	2:w2:43:LYS:HE3	2.44	0.42
2:n2:38:ARG:HB3	2:n2:94:TYR:CD1	2.54	0.42
2:r2:2:VAL:HG21	2:r2:27:ARG:HD2	2.01	0.42
2:s2:7:SER:OG	2:s2:21:SER:HB2	2.19	0.42
2:t2:38:ARG:HB3	2:t2:94:TYR:CD1	2.54	0.42
2:t2:84:ASN:CG	2:y2:43:LYS:HE3	2.44	0.42
2:12:38:ARG:HB3	2:12:94:TYR:CD1	2.54	0.42
2:72:37:PHE:HD1	2:72:47:PHE:CA	2.27	0.42
1:A:307:TRP:CZ3	1:A:736:ARG:NH2	2.88	0.42
1:C:327:THR:CG2	1:C:334:THR:CG2	2.97	0.42
1:C:571:THR:HG23	1:C:608:VAL:HG23	2.01	0.42
1:C:722:VAL:HG11	2:B2:29:HIS:ND1	2.34	0.42
1:G:565:GLU:O	1:G:568:ILE:HG12	2.19	0.42
1:G:571:THR:HG23	1:G:608:VAL:HG23	2.02	0.42
1:H:482:PRO:O	1:H:607:MET:HG2	2.19	0.42
1:I:238:ASP:OD1	1:I:238:ASP:N	2.49	0.42
1:J:572:ASN:HD21	1:J:609:TRP:CB	2.29	0.42
1:R:482:PRO:O	1:R:607:MET:HG2	2.19	0.42
1:S:571:THR:HG23	1:S:608:VAL:HG23	2.01	0.42
1:T:327:THR:CG2	1:T:334:THR:CG2	2.97	0.42
1:V:239:ARG:NH1	1:V:686:GLU:OE2	2.42	0.42
1:V:571:THR:HG23	1:V:608:VAL:HG23	2.01	0.42
1:W:307:TRP:CZ3	1:W:736:ARG:NH2	2.87	0.42
1:W:571:THR:HG23	1:W:608:VAL:HG23	2.01	0.42
1:Y:307:TRP:CZ3	1:Y:736:ARG:NH2	2.88	0.42
1:a:307:TRP:CZ3	1:a:736:ARG:NH2	2.88	0.42
1:a:571:THR:HG23	1:a:608:VAL:HG23	2.02	0.42
1:c:327:THR:CG2	1:c:334:THR:CG2	2.97	0.42
1:f:327:THR:CG2	1:f:334:THR:CG2	2.97	0.42
1:f:571:THR:HG23	1:f:608:VAL:HG23	2.01	0.42
1:j:530:LYS:HG2	1:j:533:GLU:HG3	2.00	0.42
1:l:571:THR:HG23	1:l:608:VAL:HG23	2.02	0.42
1:n:327:THR:CG2	1:n:334:THR:CG2	2.97	0.42
1:n:530:LYS:HG2	1:n:533:GLU:HG3	2.00	0.42
1:n:565:GLU:O	1:n:568:ILE:HG12	2.19	0.42
1:s:307:TRP:CZ3	1:s:736:ARG:NH2	2.88	0.42
1:t:565:GLU:O	1:t:568:ILE:HG12	2.19	0.42
1:v:327:THR:CG2	1:v:334:THR:CG2	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:355:TYR:CE2	1:v:357:LEU:HB2	2.53	0.42
1:w:307:TRP:CZ3	1:w:736:ARG:NH2	2.88	0.42
1:1:482:PRO:O	1:1:607:MET:HG2	2.19	0.42
1:2:571:THR:HG23	1:2:608:VAL:HG23	2.02	0.42
1:5:450:ARG:NH1	1:5:454:THR:H	2.07	0.42
1:6:482:PRO:O	1:6:607:MET:HG2	2.19	0.42
1:8:327:THR:CG2	1:8:334:THR:CG2	2.97	0.42
1:8:722:VAL:HG11	2:52:29:HIS:ND1	2.34	0.42
2:E2:7:SER:OG	2:E2:21:SER:HB2	2.19	0.42
2:J2:38:ARG:HB3	2:J2:94:TYR:CD1	2.54	0.42
2:N2:7:SER:OG	2:N2:21:SER:HB2	2.19	0.42
2:N2:38:ARG:HB3	2:N2:94:TYR:CD1	2.54	0.42
2:O2:7:SER:OG	2:O2:21:SER:HB2	2.19	0.42
2:O2:38:ARG:HB3	2:O2:94:TYR:CD1	2.54	0.42
2:V2:38:ARG:HB3	2:V2:94:TYR:CD1	2.54	0.42
2:X2:84:ASN:CG	2:f2:43:LYS:HE3	2.44	0.42
2:c2:7:SER:OG	2:c2:21:SER:HB2	2.19	0.42
2:h2:43:LYS:HE3	2:i2:84:ASN:CG	2.44	0.42
2:i2:2:VAL:HG21	2:i2:27:ARG:HD2	2.01	0.42
2:m2:7:SER:OG	2:m2:21:SER:HB2	2.19	0.42
2:x2:38:ARG:HB3	2:x2:94:TYR:CD1	2.54	0.42
2:22:43:LYS:HE3	2:32:84:ASN:CG	2.44	0.42
2:52:2:VAL:HG21	2:52:27:ARG:HD2	2.01	0.42
2:62:37:PHE:HD1	2:62:47:PHE:CA	2.27	0.42
2:72:2:VAL:HG21	2:72:27:ARG:HD2	2.01	0.42
1:G:718:ASN:HD22	2:W2:27:ARG:HH22	1.67	0.42
1:H:571:THR:HG23	1:H:608:VAL:HG23	2.02	0.42
1:J:565:GLU:O	1:J:568:ILE:HG12	2.19	0.42
1:L:665:ASN:ND2	1:L:667:SER:OG	2.53	0.42
1:L:722:VAL:HG11	2:b2:29:HIS:ND1	2.34	0.42
1:M:572:ASN:HD21	1:M:609:TRP:CB	2.29	0.42
1:M:665:ASN:ND2	1:M:667:SER:OG	2.53	0.42
1:N:327:THR:CG2	1:N:334:THR:CG2	2.97	0.42
1:N:567:GLU:HG3	1:P:392:ARG:NH2	2.34	0.42
1:N:722:VAL:HG11	2:m2:29:HIS:ND1	2.34	0.42
1:O:665:ASN:ND2	1:O:667:SER:OG	2.53	0.42
1:S:665:ASN:ND2	1:S:667:SER:OG	2.53	0.42
1:U:665:ASN:ND2	1:U:667:SER:OG	2.53	0.42
1:V:567:GLU:HG3	1:e:392:ARG:NH2	2.34	0.42
1:W:567:GLU:HG3	1:Y:392:ARG:NH2	2.34	0.42
1:X:327:THR:CG2	1:X:334:THR:CG2	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:571:THR:HG23	1:X:608:VAL:HG23	2.01	0.42
1:Z:392:ARG:NH2	1:3:567:GLU:HG3	2.34	0.42
1:Z:567:GLU:HG3	1:4:392:ARG:NH2	2.34	0.42
1:d:665:ASN:ND2	1:d:667:SER:OG	2.53	0.42
1:f:238:ASP:OD1	1:f:238:ASP:N	2.49	0.42
1:f:567:GLU:HG3	1:h:392:ARG:NH2	2.34	0.42
1:g:565:GLU:O	1:g:568:ILE:HG12	2.19	0.42
1:h:665:ASN:ND2	1:h:667:SER:OG	2.53	0.42
1:i:220:ASP:OD1	1:i:220:ASP:N	2.49	0.42
1:i:567:GLU:HG3	1:j:392:ARG:NH2	2.34	0.42
1:j:567:GLU:HG3	1:k:392:ARG:NH2	2.34	0.42
1:l:307:TRP:CZ3	1:l:736:ARG:NH2	2.88	0.42
1:l:482:PRO:O	1:l:607:MET:HG2	2.19	0.42
1:l:565:GLU:O	1:l:568:ILE:HG12	2.19	0.42
1:n:572:ASN:HD21	1:n:609:TRP:CB	2.29	0.42
1:q:565:GLU:O	1:q:568:ILE:HG12	2.19	0.42
1:q:571:THR:HG23	1:q:608:VAL:HG23	2.02	0.42
1:s:665:ASN:ND2	1:s:667:SER:OG	2.53	0.42
1:t:571:THR:HG23	1:t:608:VAL:HG23	2.01	0.42
1:v:571:THR:HG23	1:v:608:VAL:HG23	2.01	0.42
1:v:722:VAL:HG11	2:w2:29:HIS:ND1	2.35	0.42
1:w:482:PRO:O	1:w:607:MET:HG2	2.19	0.42
1:x:482:PRO:O	1:x:607:MET:HG2	2.19	0.42
1:x:571:THR:HG23	1:x:608:VAL:HG23	2.02	0.42
1:y:307:TRP:CZ3	1:y:736:ARG:NH2	2.87	0.42
1:y:571:THR:HG23	1:y:608:VAL:HG23	2.01	0.42
1:z:722:VAL:HG11	2:f2:29:HIS:ND1	2.34	0.42
1:1:567:GLU:HG3	1:2:392:ARG:NH2	2.34	0.42
1:1:571:THR:HG23	1:1:608:VAL:HG23	2.01	0.42
1:2:665:ASN:ND2	1:2:667:SER:OG	2.53	0.42
1:3:355:TYR:CE2	1:3:357:LEU:HB2	2.53	0.42
1:5:665:ASN:ND2	1:5:667:SER:OG	2.53	0.42
1:6:588:GLN:HG3	1:6:590:ASN:H	1.83	0.42
1:7:435:ARG:HA	1:7:435:ARG:HD3	1.84	0.42
1:7:665:ASN:ND2	1:7:667:SER:OG	2.53	0.42
2:A2:40:ALA:HA	2:A2:92:ALA:HA	2.02	0.42
2:C2:7:SER:OG	2:C2:21:SER:HB2	2.19	0.42
2:C2:38:ARG:HB3	2:C2:94:TYR:CD1	2.54	0.42
2:C2:40:ALA:HA	2:C2:92:ALA:HA	2.02	0.42
2:F2:84:ASN:CG	2:R2:43:LYS:HE3	2.44	0.42
2:I2:7:SER:OG	2:I2:21:SER:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J2:7:SER:OG	2:J2:21:SER:HB2	2.19	0.42
2:K2:7:SER:OG	2:K2:21:SER:HB2	2.19	0.42
2:L2:7:SER:OG	2:L2:21:SER:HB2	2.19	0.42
2:L2:38:ARG:HB3	2:L2:94:TYR:CD1	2.54	0.42
2:S2:2:VAL:HG21	2:S2:27:ARG:HD2	2.01	0.42
2:S2:37:PHE:HD1	2:S2:47:PHE:CA	2.27	0.42
2:d2:7:SER:OG	2:d2:21:SER:HB2	2.19	0.42
2:e2:40:ALA:HA	2:e2:92:ALA:HA	2.02	0.42
2:i2:38:ARG:HB3	2:i2:94:TYR:CD1	2.54	0.42
2:i2:40:ALA:HA	2:i2:92:ALA:HA	2.02	0.42
2:j2:2:VAL:HG21	2:j2:27:ARG:HD2	2.01	0.42
2:p2:84:ASN:CG	2:62:43:LYS:HE3	2.44	0.42
2:q2:37:PHE:HD1	2:q2:47:PHE:CA	2.27	0.42
2:s2:40:ALA:HA	2:s2:92:ALA:HA	2.02	0.42
2:12:7:SER:OG	2:12:21:SER:HB2	2.19	0.42
2:32:38:ARG:HB3	2:32:94:TYR:CD1	2.54	0.42
2:32:40:ALA:HA	2:32:92:ALA:HA	2.02	0.42
1:A:392:ARG:NH2	1:I:567:GLU:HG3	2.34	0.42
1:A:665:ASN:ND2	1:A:667:SER:OG	2.53	0.42
1:A:722:VAL:HG11	2:E2:29:HIS:ND1	2.34	0.42
1:B:307:TRP:CZ3	1:B:736:ARG:NH2	2.88	0.42
1:B:665:ASN:ND2	1:B:667:SER:OG	2.53	0.42
1:C:307:TRP:CZ3	1:C:736:ARG:NH2	2.88	0.42
1:C:567:GLU:HG3	1:b:392:ARG:NH2	2.34	0.42
1:D:665:ASN:ND2	1:D:667:SER:OG	2.53	0.42
1:G:567:GLU:HG3	1:I:392:ARG:NH2	2.35	0.42
1:K:665:ASN:ND2	1:K:667:SER:OG	2.53	0.42
1:N:307:TRP:CZ3	1:N:736:ARG:NH2	2.88	0.42
1:O:567:GLU:HG3	1:m:392:ARG:NH2	2.34	0.42
1:O:722:VAL:HG11	2:P2:29:HIS:ND1	2.34	0.42
1:P:307:TRP:CZ3	1:P:736:ARG:NH2	2.88	0.42
1:R:571:THR:HG23	1:R:608:VAL:HG23	2.02	0.42
1:R:588:GLN:HG3	1:R:590:ASN:H	1.83	0.42
1:S:567:GLU:HG3	1:U:392:ARG:NH2	2.35	0.42
1:V:392:ARG:NH2	1:X:567:GLU:HG3	2.34	0.42
1:W:569:LYS:HE2	1:W:569:LYS:HB3	1.86	0.42
1:X:355:TYR:CE2	1:X:357:LEU:HB2	2.53	0.42
1:Y:482:PRO:O	1:Y:607:MET:HG2	2.19	0.42
1:Z:665:ASN:ND2	1:Z:667:SER:OG	2.53	0.42
1:a:565:GLU:O	1:a:568:ILE:HG12	2.19	0.42
1:a:567:GLU:HG3	1:8:392:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:722:VAL:HG11	2:Z2:29:HIS:ND1	2.33	0.42
1:e:307:TRP:CZ3	1:e:736:ARG:NH2	2.88	0.42
1:e:588:GLN:HG3	1:e:590:ASN:H	1.83	0.42
1:f:665:ASN:ND2	1:f:667:SER:OG	2.53	0.42
1:i:355:TYR:CE2	1:i:357:LEU:HB2	2.53	0.42
1:i:571:THR:HG23	1:i:608:VAL:HG23	2.01	0.42
1:j:307:TRP:CZ3	1:j:736:ARG:NH2	2.88	0.42
1:j:665:ASN:ND2	1:j:667:SER:OG	2.53	0.42
1:m:665:ASN:ND2	1:m:667:SER:OG	2.53	0.42
1:m:722:VAL:HG11	2:s2:29:HIS:ND1	2.34	0.42
1:q:567:GLU:HG3	1:r:392:ARG:NH2	2.35	0.42
1:q:722:VAL:HG11	2:y2:29:HIS:ND1	2.33	0.42
1:r:307:TRP:CZ3	1:r:736:ARG:NH2	2.87	0.42
1:u:307:TRP:CZ3	1:u:736:ARG:NH2	2.88	0.42
1:x:307:TRP:CZ3	1:x:736:ARG:NH2	2.88	0.42
1:y:665:ASN:ND2	1:y:667:SER:OG	2.53	0.42
1:z:565:GLU:O	1:z:568:ILE:HG12	2.19	0.42
1:1:307:TRP:CZ3	1:1:736:ARG:NH2	2.87	0.42
1:1:665:ASN:ND2	1:1:667:SER:OG	2.53	0.42
1:3:571:THR:HG23	1:3:608:VAL:HG23	2.01	0.42
1:4:722:VAL:HG11	2:z2:29:HIS:ND1	2.35	0.42
1:7:307:TRP:CZ3	1:7:736:ARG:NH2	2.88	0.42
2:F2:2:VAL:HG21	2:F2:27:ARG:HD2	2.01	0.42
2:G2:40:ALA:HA	2:G2:92:ALA:HA	2.02	0.42
2:H2:38:ARG:HB3	2:H2:94:TYR:CD1	2.54	0.42
2:M2:40:ALA:HA	2:M2:92:ALA:HA	2.02	0.42
2:P2:40:ALA:HA	2:P2:92:ALA:HA	2.02	0.42
2:P2:43:LYS:HE3	2:Q2:84:ASN:CG	2.44	0.42
2:Z2:2:VAL:HG21	2:Z2:27:ARG:HD2	2.01	0.42
2:Z2:7:SER:OG	2:Z2:21:SER:HB2	2.19	0.42
2:Z2:38:ARG:HB3	2:Z2:94:TYR:CD1	2.54	0.42
2:b2:40:ALA:HA	2:b2:92:ALA:HA	2.02	0.42
2:b2:43:LYS:HE3	2:o2:84:ASN:CG	2.44	0.42
2:j2:38:ARG:HB3	2:j2:94:TYR:CD1	2.54	0.42
2:m2:40:ALA:HA	2:m2:92:ALA:HA	2.02	0.42
2:o2:38:ARG:HB3	2:o2:94:TYR:CD1	2.54	0.42
2:q2:40:ALA:HA	2:q2:92:ALA:HA	2.02	0.42
2:u2:40:ALA:HA	2:u2:92:ALA:HA	2.02	0.42
2:w2:38:ARG:HB3	2:w2:94:TYR:CD1	2.54	0.42
2:z2:84:ASN:CG	2:42:43:LYS:HE3	2.45	0.42
2:32:2:VAL:HG21	2:32:27:ARG:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:482:PRO:O	1:A:607:MET:HG2	2.19	0.42
1:B:392:ARG:NH2	1:L:567:GLU:HG3	2.34	0.42
1:B:482:PRO:O	1:B:607:MET:HG2	2.20	0.42
1:D:307:TRP:CZ3	1:D:736:ARG:NH2	2.88	0.42
1:D:567:GLU:HG3	1:N:392:ARG:NH2	2.35	0.42
1:D:572:ASN:HD21	1:D:609:TRP:CB	2.29	0.42
1:H:307:TRP:CZ3	1:H:736:ARG:NH2	2.88	0.42
1:I:307:TRP:CZ3	1:I:736:ARG:NH2	2.87	0.42
1:M:722:VAL:HG11	2:N2:29:HIS:ND1	2.34	0.42
1:Q:482:PRO:O	1:Q:607:MET:HG2	2.20	0.42
1:R:307:TRP:CZ3	1:R:736:ARG:NH2	2.88	0.42
1:S:307:TRP:CZ3	1:S:736:ARG:NH2	2.88	0.42
1:T:392:ARG:NH2	1:l:567:GLU:HG3	2.34	0.42
1:U:307:TRP:CZ3	1:U:736:ARG:NH2	2.88	0.42
1:W:665:ASN:ND2	1:W:667:SER:OG	2.53	0.42
1:Y:665:ASN:ND2	1:Y:667:SER:OG	2.53	0.42
1:Z:307:TRP:CZ3	1:Z:736:ARG:NH2	2.88	0.42
1:a:482:PRO:O	1:a:607:MET:HG2	2.19	0.42
1:b:307:TRP:CZ3	1:b:736:ARG:NH2	2.88	0.42
1:c:722:VAL:HG11	2:M2:29:HIS:ND1	2.35	0.42
1:f:307:TRP:CZ3	1:f:736:ARG:NH2	2.88	0.42
1:g:220:ASP:OD1	1:g:220:ASP:N	2.49	0.42
1:g:482:PRO:O	1:g:607:MET:HG2	2.20	0.42
1:i:307:TRP:CZ3	1:i:736:ARG:NH2	2.87	0.42
1:k:722:VAL:HG11	2:g2:29:HIS:ND1	2.35	0.42
1:m:307:TRP:CZ3	1:m:736:ARG:NH2	2.88	0.42
1:o:567:GLU:HG3	1:p:392:ARG:NH2	2.34	0.42
1:r:238:ASP:OD1	1:r:238:ASP:N	2.49	0.42
1:r:482:PRO:O	1:r:607:MET:HG2	2.19	0.42
1:s:482:PRO:O	1:s:607:MET:HG2	2.19	0.42
1:t:239:ARG:NH1	1:t:686:GLU:OE2	2.42	0.42
1:u:588:GLN:HG3	1:u:590:ASN:H	1.83	0.42
1:v:565:GLU:O	1:v:568:ILE:HG12	2.19	0.42
1:w:392:ARG:NH2	1:y:567:GLU:HG3	2.34	0.42
1:x:567:GLU:HG3	1:y:392:ARG:NH2	2.35	0.42
1:y:569:LYS:HE2	1:y:569:LYS:HB3	1.86	0.42
1:z:220:ASP:OD1	1:z:220:ASP:N	2.49	0.42
1:z:567:GLU:HG3	1:1:392:ARG:NH2	2.35	0.42
1:2:327:THR:CG2	1:2:334:THR:CG2	2.97	0.42
1:3:220:ASP:OD1	1:3:220:ASP:N	2.49	0.42
1:5:307:TRP:CZ3	1:5:736:ARG:NH2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:571:THR:HG23	1:5:608:VAL:HG23	2.01	0.42
1:6:307:TRP:CZ3	1:6:736:ARG:NH2	2.88	0.42
1:6:571:THR:HG23	1:6:608:VAL:HG23	2.02	0.42
2:A2:2:VAL:HG21	2:A2:27:ARG:HD2	2.01	0.42
2:B2:40:ALA:HA	2:B2:92:ALA:HA	2.02	0.42
2:D2:40:ALA:HA	2:D2:92:ALA:HA	2.02	0.42
2:E2:40:ALA:HA	2:E2:92:ALA:HA	2.02	0.42
2:J2:43:LYS:HE3	2:a2:84:ASN:CG	2.44	0.42
2:N2:40:ALA:HA	2:N2:92:ALA:HA	2.02	0.42
2:O2:84:ASN:CG	2:d2:43:LYS:HE3	2.44	0.42
2:Q2:38:ARG:HB3	2:Q2:94:TYR:CD1	2.54	0.42
2:S2:7:SER:OG	2:S2:21:SER:HB2	2.19	0.42
2:T2:7:SER:OG	2:T2:21:SER:HB2	2.19	0.42
2:Y2:38:ARG:HB3	2:Y2:94:TYR:CD1	2.54	0.42
2:c2:40:ALA:HA	2:c2:92:ALA:HA	2.02	0.42
2:f2:7:SER:OG	2:f2:21:SER:HB2	2.19	0.42
2:g2:84:ASN:CG	2:k2:43:LYS:HE3	2.45	0.42
2:j2:7:SER:OG	2:j2:21:SER:HB2	2.19	0.42
2:l2:84:ASN:CG	2:n2:43:LYS:HE3	2.44	0.42
2:n2:7:SER:OG	2:n2:21:SER:HB2	2.19	0.42
2:n2:84:ASN:CG	2:r2:43:LYS:HE3	2.44	0.42
2:p2:2:VAL:HG21	2:p2:27:ARG:HD2	2.01	0.42
2:r2:7:SER:OG	2:r2:21:SER:HB2	2.19	0.42
2:42:37:PHE:HD1	2:42:47:PHE:CA	2.27	0.42
2:62:38:ARG:HB3	2:62:94:TYR:CD1	2.54	0.42
2:72:7:SER:OG	2:72:21:SER:HB2	2.19	0.42
2:82:7:SER:OG	2:82:21:SER:HB2	2.19	0.42
1:B:567:GLU:HG3	1:J:392:ARG:NH2	2.34	0.42
1:C:392:ARG:NH2	1:M:567:GLU:HG3	2.35	0.42
1:C:665:ASN:ND2	1:C:667:SER:OG	2.53	0.42
1:D:392:ARG:NH2	1:P:567:GLU:HG3	2.34	0.42
1:E:565:GLU:O	1:E:568:ILE:HG12	2.19	0.42
1:E:722:VAL:HG11	2:D2:29:HIS:ND1	2.35	0.42
1:F:571:THR:HG23	1:F:608:VAL:HG23	2.01	0.42
1:F:722:VAL:HG11	2:G2:29:HIS:ND1	2.35	0.42
1:I:482:PRO:O	1:I:607:MET:HG2	2.19	0.42
1:M:307:TRP:CZ3	1:M:736:ARG:NH2	2.88	0.42
1:N:665:ASN:ND2	1:N:667:SER:OG	2.53	0.42
1:R:392:ARG:NH2	1:U:567:GLU:HG3	2.34	0.42
1:R:435:ARG:HD3	1:R:435:ARG:HA	1.84	0.42
1:T:665:ASN:ND2	1:T:667:SER:OG	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:307:TRP:CZ3	1:X:736:ARG:NH2	2.88	0.42
1:X:565:GLU:O	1:X:568:ILE:HG12	2.19	0.42
1:b:482:PRO:O	1:b:607:MET:HG2	2.19	0.42
1:e:665:ASN:ND2	1:e:667:SER:OG	2.53	0.42
1:f:392:ARG:NH2	1:g:567:GLU:HG3	2.35	0.42
1:h:482:PRO:O	1:h:607:MET:HG2	2.19	0.42
1:j:569:LYS:HE2	1:j:569:LYS:HB3	1.86	0.42
1:l:722:VAL:HG11	2:j:29:HIS:ND1	2.33	0.42
1:m:482:PRO:O	1:m:607:MET:HG2	2.20	0.42
1:o:482:PRO:O	1:o:607:MET:HG2	2.20	0.42
1:p:571:THR:HG23	1:p:608:VAL:HG23	2.01	0.42
1:r:435:ARG:HA	1:r:435:ARG:HD3	1.84	0.42
1:u:665:ASN:ND2	1:u:667:SER:OG	2.53	0.42
1:v:307:TRP:CZ3	1:v:736:ARG:NH2	2.88	0.42
1:w:665:ASN:ND2	1:w:667:SER:OG	2.53	0.42
1:z:482:PRO:O	1:z:607:MET:HG2	2.20	0.42
1:2:482:PRO:O	1:2:607:MET:HG2	2.19	0.42
1:3:307:TRP:CZ3	1:3:736:ARG:NH2	2.87	0.42
1:4:665:ASN:ND2	1:4:667:SER:OG	2.53	0.42
1:5:392:ARG:NH2	1:7:567:GLU:HG3	2.35	0.42
1:5:567:GLU:HG3	1:6:392:ARG:NH2	2.34	0.42
1:8:572:ASN:HD21	1:8:609:TRP:CB	2.29	0.42
1:8:665:ASN:ND2	1:8:667:SER:OG	2.53	0.42
2:K2:38:ARG:HB3	2:K2:94:TYR:CD1	2.54	0.42
2:K2:43:LYS:HE3	2:L2:84:ASN:CG	2.44	0.42
2:Q2:40:ALA:HA	2:Q2:92:ALA:HA	2.02	0.42
2:Q2:43:LYS:HE3	2:S2:84:ASN:CG	2.45	0.42
2:R2:38:ARG:HB3	2:R2:94:TYR:CD1	2.54	0.42
2:W2:38:ARG:HB3	2:W2:94:TYR:CD1	2.54	0.42
2:c2:38:ARG:HB3	2:c2:94:TYR:CD1	2.54	0.42
2:d2:38:ARG:HB3	2:d2:94:TYR:CD1	2.54	0.42
2:e2:38:ARG:HB3	2:e2:94:TYR:CD1	2.54	0.42
2:s2:2:VAL:HG21	2:s2:27:ARG:HD2	2.01	0.42
2:u2:38:ARG:HB3	2:u2:94:TYR:CD1	2.54	0.42
2:u2:84:ASN:CG	2:52:43:LYS:HE3	2.44	0.42
2:w2:7:SER:OG	2:w2:21:SER:HB2	2.19	0.42
2:y2:38:ARG:HB3	2:y2:94:TYR:CD1	2.54	0.42
2:72:38:ARG:HB3	2:72:94:TYR:CD1	2.54	0.42
1:E:569:LYS:HE2	1:E:569:LYS:HB3	1.86	0.42
1:F:392:ARG:NH2	1:Q:567:GLU:HG3	2.34	0.42
1:H:565:GLU:O	1:H:568:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:567:GLU:HG3	1:W:392:ARG:NH2	2.35	0.42
1:I:571:THR:HG23	1:I:608:VAL:HG23	2.01	0.42
1:M:392:ARG:NH2	1:b:567:GLU:HG3	2.34	0.42
1:O:307:TRP:CZ3	1:O:736:ARG:NH2	2.88	0.42
1:P:482:PRO:O	1:P:607:MET:HG2	2.19	0.42
1:P:665:ASN:ND2	1:P:667:SER:OG	2.53	0.42
1:U:571:THR:HG23	1:U:608:VAL:HG23	2.01	0.42
1:Y:435:ARG:HD3	1:Y:435:ARG:HA	1.84	0.42
1:b:571:THR:HG23	1:b:608:VAL:HG23	2.02	0.42
1:b:665:ASN:ND2	1:b:667:SER:OG	2.53	0.42
1:c:565:GLU:O	1:c:568:ILE:HG12	2.19	0.42
1:c:569:LYS:HE2	1:c:569:LYS:HB3	1.86	0.42
1:f:565:GLU:O	1:f:568:ILE:HG12	2.19	0.42
1:g:307:TRP:CZ3	1:g:736:ARG:NH2	2.88	0.42
1:g:392:ARG:NH2	1:h:567:GLU:HG3	2.34	0.42
1:h:327:THR:CG2	1:h:334:THR:CG2	2.97	0.42
1:i:482:PRO:O	1:i:607:MET:HG2	2.20	0.42
1:k:665:ASN:ND2	1:k:667:SER:OG	2.53	0.42
1:m:567:GLU:HG3	1:n:392:ARG:NH2	2.34	0.42
1:o:571:THR:HG23	1:o:608:VAL:HG23	2.01	0.42
1:p:307:TRP:CZ3	1:p:736:ARG:NH2	2.88	0.42
1:p:665:ASN:ND2	1:p:667:SER:OG	2.53	0.42
1:p:722:VAL:HG11	2:q2:29:HIS:ND1	2.35	0.42
1:r:567:GLU:HG3	1:s:392:ARG:NH2	2.34	0.42
1:r:571:THR:HG23	1:r:608:VAL:HG23	2.01	0.42
1:u:327:THR:CG2	1:u:334:THR:CG2	2.97	0.42
1:1:565:GLU:O	1:1:568:ILE:HG12	2.19	0.42
1:3:482:PRO:O	1:3:607:MET:HG2	2.20	0.42
1:6:665:ASN:ND2	1:6:667:SER:OG	2.53	0.42
2:F2:40:ALA:HA	2:F2:92:ALA:HA	2.02	0.42
2:G2:2:VAL:HG21	2:G2:27:ARG:HD2	2.01	0.42
2:J2:2:VAL:HG21	2:J2:27:ARG:HD2	2.01	0.42
2:K2:40:ALA:HA	2:K2:92:ALA:HA	2.02	0.42
2:U2:7:SER:OG	2:U2:21:SER:HB2	2.19	0.42
2:Y2:7:SER:OG	2:Y2:21:SER:HB2	2.19	0.42
2:a2:40:ALA:HA	2:a2:92:ALA:HA	2.02	0.42
2:e2:7:SER:OG	2:e2:21:SER:HB2	2.19	0.42
2:n2:2:VAL:HG21	2:n2:27:ARG:HD2	2.01	0.42
2:o2:40:ALA:HA	2:o2:92:ALA:HA	2.02	0.42
2:o2:43:LYS:HE3	2:72:84:ASN:CG	2.45	0.42
2:q2:2:VAL:HG21	2:q2:27:ARG:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v2:84:ASN:ND2	2:12:43:LYS:HD3	2.34	0.42
2:22:38:ARG:HB3	2:22:94:TYR:CD1	2.54	0.42
2:62:7:SER:OG	2:62:21:SER:HB2	2.19	0.42
1:B:722:VAL:HG11	2:A2:29:HIS:ND1	2.34	0.42
1:D:722:VAL:HG11	2:C2:29:HIS:ND1	2.34	0.42
1:E:392:ARG:NH2	1:F:567:GLU:HG3	2.34	0.42
1:F:307:TRP:CZ3	1:F:736:ARG:NH2	2.88	0.42
1:F:665:ASN:ND2	1:F:667:SER:OG	2.53	0.42
1:H:718:ASN:HD22	2:I2:27:ARG:HH22	1.68	0.42
1:J:571:THR:HG23	1:J:608:VAL:HG23	2.01	0.42
1:L:307:TRP:CZ3	1:L:736:ARG:NH2	2.88	0.42
1:Q:571:THR:HG23	1:Q:608:VAL:HG23	2.01	0.42
1:R:239:ARG:NH1	1:R:686:GLU:OE2	2.42	0.42
1:R:665:ASN:ND2	1:R:667:SER:OG	2.53	0.42
1:S:540:ASN:OD1	1:S:540:ASN:N	2.53	0.42
1:T:572:ASN:HD21	1:T:609:TRP:CB	2.29	0.42
1:U:565:GLU:O	1:U:568:ILE:HG12	2.19	0.42
1:W:344:GLN:HE21	1:W:405:MET:HE3	1.85	0.42
1:e:327:THR:CG2	1:e:334:THR:CG2	2.97	0.42
1:e:482:PRO:O	1:e:607:MET:HG2	2.19	0.42
1:g:450:ARG:NH1	1:g:454:THR:H	2.07	0.42
1:n:571:THR:HG23	1:n:608:VAL:HG23	2.01	0.42
1:o:307:TRP:CZ3	1:o:736:ARG:NH2	2.87	0.42
1:r:565:GLU:O	1:r:568:ILE:HG12	2.19	0.42
1:t:435:ARG:HA	1:t:435:ARG:HD3	1.84	0.42
1:u:482:PRO:O	1:u:607:MET:HG2	2.19	0.42
1:w:435:ARG:HD3	1:w:435:ARG:HA	1.84	0.42
1:x:718:ASN:HD22	2:r2:27:ARG:HH22	1.68	0.42
1:y:344:GLN:HE21	1:y:405:MET:HE3	1.85	0.42
1:z:307:TRP:CZ3	1:z:736:ARG:NH2	2.88	0.42
1:z:392:ARG:NH2	1:2:567:GLU:HG3	2.34	0.42
1:5:565:GLU:O	1:5:568:ILE:HG12	2.19	0.42
1:7:540:ASN:OD1	1:7:540:ASN:N	2.53	0.42
2:E2:38:ARG:HB3	2:E2:94:TYR:CD1	2.54	0.42
2:H2:84:ASN:CG	2:Z2:43:LYS:HE3	2.45	0.42
2:I2:43:LYS:HE3	2:J2:84:ASN:CG	2.44	0.42
2:R2:7:SER:OG	2:R2:21:SER:HB2	2.19	0.42
2:S2:38:ARG:HB3	2:S2:94:TYR:CD1	2.54	0.42
2:V2:40:ALA:HA	2:V2:92:ALA:HA	2.02	0.42
2:W2:7:SER:OG	2:W2:21:SER:HB2	2.19	0.42
2:d2:40:ALA:HA	2:d2:92:ALA:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h2:7:SER:OG	2:h2:21:SER:HB2	2.19	0.42
2:h2:38:ARG:HB3	2:h2:94:TYR:CD1	2.54	0.42
2:i2:7:SER:OG	2:i2:21:SER:HB2	2.19	0.42
2:j2:43:LYS:HE3	2:x2:84:ASN:CG	2.45	0.42
2:k2:7:SER:OG	2:k2:21:SER:HB2	2.19	0.42
2:k2:37:PHE:HD1	2:k2:47:PHE:CA	2.27	0.42
2:l2:38:ARG:HB3	2:l2:94:TYR:CD1	2.54	0.42
2:l2:40:ALA:HA	2:l2:92:ALA:HA	2.02	0.42
2:n2:40:ALA:HA	2:n2:92:ALA:HA	2.02	0.42
2:p2:40:ALA:HA	2:p2:92:ALA:HA	2.02	0.42
2:u2:7:SER:OG	2:u2:21:SER:HB2	2.19	0.42
2:y2:7:SER:OG	2:y2:21:SER:HB2	2.19	0.42
2:22:7:SER:OG	2:22:21:SER:HB2	2.19	0.42
2:32:7:SER:OG	2:32:21:SER:HB2	2.19	0.42
2:42:7:SER:OG	2:42:21:SER:HB2	2.19	0.42
2:52:7:SER:OG	2:52:21:SER:HB2	2.19	0.42
1:D:571:THR:HG23	1:D:608:VAL:HG23	2.01	0.42
1:E:307:TRP:CZ3	1:E:736:ARG:NH2	2.87	0.42
1:E:571:THR:HG23	1:E:608:VAL:HG23	2.01	0.42
1:H:665:ASN:ND2	1:H:667:SER:OG	2.53	0.42
1:K:307:TRP:CZ3	1:K:736:ARG:NH2	2.88	0.42
1:O:571:THR:HG23	1:O:608:VAL:HG23	2.01	0.42
1:P:239:ARG:NH1	1:P:686:GLU:OE2	2.42	0.42
1:P:571:THR:HG23	1:P:608:VAL:HG23	2.02	0.42
1:Q:307:TRP:CZ3	1:Q:736:ARG:NH2	2.87	0.42
1:S:435:ARG:HA	1:S:435:ARG:HD3	1.84	0.42
1:a:540:ASN:OD1	1:a:540:ASN:N	2.53	0.42
1:a:665:ASN:ND2	1:a:667:SER:OG	2.53	0.42
1:b:239:ARG:NH1	1:b:686:GLU:OE2	2.42	0.42
1:c:307:TRP:CZ3	1:c:736:ARG:NH2	2.87	0.42
1:c:392:ARG:NH2	1:p:567:GLU:HG3	2.34	0.42
1:c:571:THR:HG23	1:c:608:VAL:HG23	2.01	0.42
1:d:307:TRP:CZ3	1:d:736:ARG:NH2	2.88	0.42
1:f:344:GLN:HE21	1:f:405:MET:HE3	1.85	0.42
1:h:344:GLN:HE21	1:h:405:MET:HE3	1.85	0.42
1:j:384:ASN:ND2	1:j:386:GLY:O	2.46	0.42
1:k:571:THR:HG23	1:k:608:VAL:HG23	2.01	0.42
1:l:540:ASN:OD1	1:l:540:ASN:N	2.53	0.42
1:l:665:ASN:ND2	1:l:667:SER:OG	2.53	0.42
1:q:665:ASN:ND2	1:q:667:SER:OG	2.53	0.42
1:t:307:TRP:CZ3	1:t:736:ARG:NH2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:567:GLU:HG3	1:u:392:ARG:NH2	2.35	0.42
1:x:565:GLU:O	1:x:568:ILE:HG12	2.19	0.42
1:4:571:THR:HG23	1:4:608:VAL:HG23	2.01	0.42
1:6:435:ARG:HD3	1:6:435:ARG:HA	1.84	0.42
1:8:307:TRP:CZ3	1:8:736:ARG:NH2	2.88	0.42
2:C2:37:PHE:HD1	2:C2:47:PHE:CA	2.28	0.42
2:H2:40:ALA:HA	2:H2:92:ALA:HA	2.02	0.42
2:J2:40:ALA:HA	2:J2:92:ALA:HA	2.02	0.42
2:L2:40:ALA:HA	2:L2:92:ALA:HA	2.02	0.42
2:N2:37:PHE:HD1	2:N2:47:PHE:CA	2.27	0.42
2:O2:40:ALA:HA	2:O2:92:ALA:HA	2.02	0.42
2:R2:84:ASN:CG	2:V2:43:LYS:HE3	2.44	0.42
2:U2:43:LYS:HE3	2:e2:84:ASN:CG	2.44	0.42
2:Y2:2:VAL:HG21	2:Y2:27:ARG:HD2	2.01	0.42
2:a2:38:ARG:HB3	2:a2:94:TYR:CD1	2.54	0.42
2:l2:2:VAL:HG21	2:l2:27:ARG:HD2	2.01	0.42
2:t2:7:SER:OG	2:t2:21:SER:HB2	2.19	0.42
2:12:2:VAL:HG21	2:12:27:ARG:HD2	2.01	0.42
1:B:569:LYS:HB3	1:B:569:LYS:HE2	1.86	0.41
1:G:665:ASN:ND2	1:G:667:SER:OG	2.53	0.41
1:H:368:PHE:HA	1:H:369:PRO:HD3	1.90	0.41
1:I:565:GLU:O	1:I:568:ILE:HG12	2.19	0.41
1:J:482:PRO:O	1:J:607:MET:HG2	2.19	0.41
1:J:665:ASN:ND2	1:J:667:SER:OG	2.53	0.41
1:K:540:ASN:OD1	1:K:540:ASN:N	2.53	0.41
1:L:482:PRO:O	1:L:607:MET:HG2	2.19	0.41
1:L:571:THR:HG23	1:L:608:VAL:HG23	2.01	0.41
1:O:220:ASP:OD1	1:O:220:ASP:N	2.49	0.41
1:O:482:PRO:O	1:O:607:MET:HG2	2.19	0.41
1:P:344:GLN:HE21	1:P:405:MET:HE3	1.85	0.41
1:T:307:TRP:CZ3	1:T:736:ARG:NH2	2.88	0.41
1:T:571:THR:HG23	1:T:608:VAL:HG23	2.01	0.41
1:V:307:TRP:CZ3	1:V:736:ARG:NH2	2.88	0.41
1:W:565:GLU:O	1:W:568:ILE:HG12	2.19	0.41
1:Y:344:GLN:HE21	1:Y:405:MET:HE3	1.85	0.41
1:b:344:GLN:HE21	1:b:405:MET:HE3	1.85	0.41
1:d:540:ASN:OD1	1:d:540:ASN:N	2.53	0.41
1:d:571:THR:HG23	1:d:608:VAL:HG23	2.01	0.41
1:f:718:ASN:HD22	2:X2:27:ARG:HH22	1.68	0.41
1:m:569:LYS:HE2	1:m:569:LYS:HB3	1.86	0.41
1:n:482:PRO:O	1:n:607:MET:HG2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:665:ASN:ND2	1:o:667:SER:OG	2.53	0.41
1:w:344:GLN:HE21	1:w:405:MET:HE3	1.85	0.41
1:x:665:ASN:ND2	1:x:667:SER:OG	2.53	0.41
1:y:565:GLU:O	1:y:568:ILE:HG12	2.19	0.41
1:1:344:GLN:HE21	1:1:405:MET:HE3	1.85	0.41
1:2:344:GLN:HE21	1:2:405:MET:HE3	1.85	0.41
2:F2:38:ARG:HB3	2:F2:94:TYR:CD1	2.54	0.41
2:G2:7:SER:OG	2:G2:21:SER:HB2	2.19	0.41
2:I2:40:ALA:HA	2:I2:92:ALA:HA	2.02	0.41
2:L2:2:VAL:HG21	2:L2:27:ARG:HD2	2.01	0.41
2:O2:2:VAL:HG21	2:O2:27:ARG:HD2	2.01	0.41
2:R2:40:ALA:HA	2:R2:92:ALA:HA	2.02	0.41
2:V2:7:SER:OG	2:V2:21:SER:HB2	2.19	0.41
2:X2:43:LYS:HE3	2:Y2:84:ASN:CG	2.44	0.41
2:c2:37:PHE:HD1	2:c2:47:PHE:CA	2.27	0.41
2:p2:38:ARG:HB3	2:p2:94:TYR:CD1	2.54	0.41
2:r2:40:ALA:HA	2:r2:92:ALA:HA	2.02	0.41
2:v2:7:SER:OG	2:v2:21:SER:HB2	2.19	0.41
2:v2:43:LYS:HE3	2:w2:84:ASN:CG	2.44	0.41
2:w2:2:VAL:HG21	2:w2:27:ARG:HD2	2.01	0.41
2:x2:40:ALA:HA	2:x2:92:ALA:HA	2.02	0.41
2:z2:7:SER:OG	2:z2:21:SER:HB2	2.19	0.41
1:B:572:ASN:HD21	1:B:609:TRP:CB	2.29	0.41
1:C:384:ASN:ND2	1:C:386:GLY:O	2.46	0.41
1:C:540:ASN:OD1	1:C:540:ASN:N	2.53	0.41
1:H:344:GLN:HE21	1:H:405:MET:HE3	1.85	0.41
1:H:392:ARG:NH2	1:Y:567:GLU:HG3	2.34	0.41
1:J:238:ASP:OD1	1:J:238:ASP:N	2.49	0.41
1:J:344:GLN:HE21	1:J:405:MET:HE3	1.85	0.41
1:K:392:ARG:NH2	1:8:567:GLU:HG3	2.35	0.41
1:M:571:THR:HG23	1:M:608:VAL:HG23	2.01	0.41
1:N:384:ASN:ND2	1:N:386:GLY:O	2.46	0.41
1:N:540:ASN:OD1	1:N:540:ASN:N	2.53	0.41
1:N:565:GLU:O	1:N:568:ILE:HG12	2.19	0.41
1:N:588:GLN:HG3	1:N:590:ASN:H	1.83	0.41
1:Q:665:ASN:ND2	1:Q:667:SER:OG	2.53	0.41
1:T:567:GLU:HG3	1:d:392:ARG:NH2	2.35	0.41
1:U:344:GLN:HE21	1:U:405:MET:HE3	1.85	0.41
1:U:482:PRO:O	1:U:607:MET:HG2	2.19	0.41
1:X:392:ARG:NH2	1:e:567:GLU:HG3	2.34	0.41
1:b:220:ASP:OD1	1:b:220:ASP:N	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:401:PHE:N	1:e:401:PHE:CD1	2.89	0.41
1:f:401:PHE:N	1:f:401:PHE:CD1	2.89	0.41
1:h:540:ASN:OD1	1:h:540:ASN:N	2.53	0.41
1:k:307:TRP:CZ3	1:k:736:ARG:NH2	2.87	0.41
1:k:344:GLN:HE21	1:k:405:MET:HE3	1.85	0.41
1:k:482:PRO:O	1:k:607:MET:HG2	2.19	0.41
1:m:572:ASN:HD21	1:m:609:TRP:CB	2.29	0.41
1:n:665:ASN:ND2	1:n:667:SER:OG	2.53	0.41
1:o:565:GLU:O	1:o:568:ILE:HG12	2.19	0.41
1:q:691:LYS:HA	1:q:691:LYS:HD2	1.90	0.41
1:t:722:VAL:HG11	2:62:29:HIS:ND1	2.35	0.41
1:u:401:PHE:N	1:u:401:PHE:CD1	2.89	0.41
1:v:401:PHE:CD1	1:v:401:PHE:N	2.89	0.41
1:x:344:GLN:HE21	1:x:405:MET:HE3	1.85	0.41
1:z:540:ASN:OD1	1:z:540:ASN:N	2.53	0.41
1:1:401:PHE:N	1:1:401:PHE:CD1	2.89	0.41
1:1:718:ASN:HD22	2:v2:27:ARG:HH22	1.68	0.41
1:2:540:ASN:OD1	1:2:540:ASN:N	2.53	0.41
1:3:665:ASN:ND2	1:3:667:SER:OG	2.53	0.41
1:4:344:GLN:HE21	1:4:405:MET:HE3	1.85	0.41
1:5:344:GLN:HE21	1:5:405:MET:HE3	1.85	0.41
1:8:571:THR:HG23	1:8:608:VAL:HG23	2.01	0.41
2:P2:7:SER:OG	2:P2:21:SER:HB2	2.19	0.41
2:a2:2:VAL:HG21	2:a2:27:ARG:HD2	2.01	0.41
2:f2:2:VAL:HG21	2:f2:27:ARG:HD2	2.01	0.41
2:o2:7:SER:OG	2:o2:21:SER:HB2	2.19	0.41
2:r2:38:ARG:HB3	2:r2:94:TYR:CD1	2.54	0.41
2:t2:40:ALA:HA	2:t2:92:ALA:HA	2.02	0.41
2:62:40:ALA:HA	2:62:92:ALA:HA	2.02	0.41
1:C:344:GLN:HE21	1:C:405:MET:HE3	1.85	0.41
1:C:718:ASN:HD22	2:B2:27:ARG:HH22	1.68	0.41
1:D:401:PHE:N	1:D:401:PHE:CD1	2.89	0.41
1:E:344:GLN:HE21	1:E:405:MET:HE3	1.85	0.41
1:F:401:PHE:N	1:F:401:PHE:CD1	2.89	0.41
1:G:401:PHE:N	1:G:401:PHE:CD1	2.89	0.41
1:K:571:THR:HG23	1:K:608:VAL:HG23	2.01	0.41
1:L:220:ASP:OD1	1:L:220:ASP:N	2.49	0.41
1:M:401:PHE:N	1:M:401:PHE:CD1	2.89	0.41
1:P:401:PHE:N	1:P:401:PHE:CD1	2.89	0.41
1:R:401:PHE:N	1:R:401:PHE:CD1	2.89	0.41
1:T:344:GLN:HE21	1:T:405:MET:HE3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:344:GLN:HE21	1:V:405:MET:HE3	1.85	0.41
1:V:540:ASN:OD1	1:V:540:ASN:N	2.53	0.41
1:X:401:PHE:CD1	1:X:401:PHE:N	2.89	0.41
1:Y:540:ASN:OD1	1:Y:540:ASN:N	2.53	0.41
1:Z:384:ASN:ND2	1:Z:386:GLY:O	2.46	0.41
1:Z:569:LYS:HE2	1:Z:569:LYS:HB3	1.86	0.41
1:b:401:PHE:N	1:b:401:PHE:CD1	2.89	0.41
1:g:540:ASN:OD1	1:g:540:ASN:N	2.53	0.41
1:g:665:ASN:ND2	1:g:667:SER:OG	2.53	0.41
1:i:344:GLN:HE21	1:i:405:MET:HE3	1.85	0.41
1:i:401:PHE:N	1:i:401:PHE:CD1	2.89	0.41
1:n:344:GLN:HE21	1:n:405:MET:HE3	1.85	0.41
1:o:569:LYS:HB3	1:o:569:LYS:HE2	1.86	0.41
1:p:401:PHE:N	1:p:401:PHE:CD1	2.89	0.41
1:q:401:PHE:N	1:q:401:PHE:CD1	2.89	0.41
1:q:718:ASN:HD22	2:y2:27:ARG:HH22	1.68	0.41
1:s:565:GLU:O	1:s:568:ILE:HG12	2.19	0.41
1:u:571:THR:HG23	1:u:608:VAL:HG23	2.01	0.41
1:w:567:GLU:HG3	1:x:392:ARG:NH2	2.34	0.41
1:z:435:ARG:HD3	1:z:435:ARG:HA	1.84	0.41
1:2:565:GLU:O	1:2:568:ILE:HG12	2.19	0.41
1:3:401:PHE:N	1:3:401:PHE:CD1	2.89	0.41
1:3:722:VAL:HG11	2:82:29:HIS:ND1	2.35	0.41
1:4:307:TRP:CZ3	1:4:736:ARG:NH2	2.87	0.41
1:4:482:PRO:O	1:4:607:MET:HG2	2.19	0.41
1:5:482:PRO:O	1:5:607:MET:HG2	2.19	0.41
1:6:239:ARG:NH1	1:6:686:GLU:OE2	2.42	0.41
1:6:401:PHE:N	1:6:401:PHE:CD1	2.89	0.41
1:7:482:PRO:O	1:7:607:MET:HG2	2.19	0.41
1:8:344:GLN:HE21	1:8:405:MET:HE3	1.85	0.41
2:I2:38:ARG:HB3	2:I2:94:TYR:CD1	2.54	0.41
2:L2:43:LYS:HE3	2:b2:84:ASN:CG	2.44	0.41
2:Q2:2:VAL:HG21	2:Q2:27:ARG:HD2	2.01	0.41
2:Q2:7:SER:OG	2:Q2:21:SER:HB2	2.19	0.41
2:T2:53:ILE:HG23	2:T2:54:THR:N	2.36	0.41
2:X2:7:SER:OG	2:X2:21:SER:HB2	2.19	0.41
2:b2:7:SER:OG	2:b2:21:SER:HB2	2.19	0.41
2:g2:7:SER:OG	2:g2:21:SER:HB2	2.19	0.41
2:g2:37:PHE:HD1	2:g2:47:PHE:CA	2.27	0.41
2:k2:53:ILE:HG23	2:k2:54:THR:N	2.36	0.41
2:o2:2:VAL:HG21	2:o2:27:ARG:HD2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:q2:7:SER:OG	2:q2:21:SER:HB2	2.19	0.41
2:t2:43:LYS:HE3	2:62:84:ASN:CG	2.44	0.41
2:y2:53:ILE:HG23	2:y2:54:THR:N	2.36	0.41
2:42:53:ILE:HG23	2:42:54:THR:N	2.36	0.41
2:82:38:ARG:HB3	2:82:94:TYR:CD1	2.54	0.41
1:C:565:GLU:O	1:C:568:ILE:HG12	2.19	0.41
1:C:588:GLN:HG3	1:C:590:ASN:H	1.83	0.41
1:D:540:ASN:OD1	1:D:540:ASN:N	2.53	0.41
1:H:569:LYS:HE2	1:H:569:LYS:HB3	1.86	0.41
1:I:435:ARG:HA	1:I:435:ARG:HD3	1.84	0.41
1:L:401:PHE:N	1:L:401:PHE:CD1	2.89	0.41
1:M:540:ASN:OD1	1:M:540:ASN:N	2.53	0.41
1:N:344:GLN:HE21	1:N:405:MET:HE3	1.85	0.41
1:N:718:ASN:HD22	2:m2:27:ARG:HH22	1.68	0.41
1:O:401:PHE:N	1:O:401:PHE:CD1	2.89	0.41
1:Q:565:GLU:O	1:Q:568:ILE:HG12	2.19	0.41
1:V:435:ARG:HA	1:V:435:ARG:HD3	1.84	0.41
1:a:401:PHE:N	1:a:401:PHE:CD1	2.89	0.41
1:c:344:GLN:HE21	1:c:405:MET:HE3	1.85	0.41
1:g:344:GLN:HE21	1:g:405:MET:HE3	1.85	0.41
1:g:401:PHE:N	1:g:401:PHE:CD1	2.89	0.41
1:i:665:ASN:ND2	1:i:667:SER:OG	2.53	0.41
1:i:722:VAL:HG11	2:T2:29:HIS:ND1	2.35	0.41
1:l:384:ASN:ND2	1:l:386:GLY:O	2.46	0.41
1:l:401:PHE:N	1:l:401:PHE:CD1	2.89	0.41
1:o:250:LEU:HB2	1:o:375:ILE:HD12	2.03	0.41
1:u:567:GLU:HG3	1:v:392:ARG:NH2	2.35	0.41
1:u:610:GLN:NE2	1:v:627:THR:HA	2.35	0.41
1:w:540:ASN:OD1	1:w:540:ASN:N	2.53	0.41
1:z:401:PHE:N	1:z:401:PHE:CD1	2.89	0.41
1:z:665:ASN:ND2	1:z:667:SER:OG	2.53	0.41
1:1:450:ARG:NH1	1:1:454:THR:H	2.07	0.41
1:3:344:GLN:HE21	1:3:405:MET:HE3	1.85	0.41
2:E2:37:PHE:HD1	2:E2:47:PHE:CA	2.27	0.41
2:F2:7:SER:OG	2:F2:21:SER:HB2	2.19	0.41
2:O2:43:LYS:HE3	2:P2:84:ASN:CG	2.44	0.41
2:T2:38:ARG:HB3	2:T2:94:TYR:CD1	2.54	0.41
2:U2:53:ILE:HG23	2:U2:54:THR:N	2.36	0.41
2:W2:40:ALA:HA	2:W2:92:ALA:HA	2.02	0.41
2:W2:53:ILE:HG23	2:W2:54:THR:N	2.36	0.41
2:f2:53:ILE:HG23	2:f2:54:THR:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g2:53:ILE:HG23	2:g2:54:THR:N	2.36	0.41
2:z2:53:ILE:HG23	2:z2:54:THR:N	2.36	0.41
2:12:53:ILE:HG23	2:12:54:THR:N	2.36	0.41
2:52:53:ILE:HG23	2:52:54:THR:N	2.36	0.41
2:72:53:ILE:HG23	2:72:54:THR:N	2.36	0.41
2:82:53:ILE:HG23	2:82:54:THR:N	2.36	0.41
1:A:540:ASN:OD1	1:A:540:ASN:N	2.53	0.41
1:A:565:GLU:O	1:A:568:ILE:HG12	2.19	0.41
1:A:571:THR:HG23	1:A:608:VAL:HG23	2.02	0.41
1:B:401:PHE:N	1:B:401:PHE:CD1	2.89	0.41
1:B:540:ASN:OD1	1:B:540:ASN:N	2.53	0.41
1:E:250:LEU:HB2	1:E:375:ILE:HD12	2.03	0.41
1:I:540:ASN:OD1	1:I:540:ASN:N	2.53	0.41
1:I:665:ASN:ND2	1:I:667:SER:OG	2.53	0.41
1:J:401:PHE:CD1	1:J:401:PHE:N	2.89	0.41
1:K:482:PRO:O	1:K:607:MET:HG2	2.19	0.41
1:N:482:PRO:O	1:N:607:MET:HG2	2.19	0.41
1:P:220:ASP:OD1	1:P:220:ASP:N	2.49	0.41
1:Q:250:LEU:HB2	1:Q:375:ILE:HD12	2.03	0.41
1:S:250:LEU:HB2	1:S:375:ILE:HD12	2.03	0.41
1:S:482:PRO:O	1:S:607:MET:HG2	2.19	0.41
1:T:250:LEU:HB2	1:T:375:ILE:HD12	2.03	0.41
1:W:435:ARG:HD3	1:W:435:ARG:HA	1.84	0.41
1:X:482:PRO:O	1:X:607:MET:HG2	2.20	0.41
1:a:344:GLN:HE21	1:a:405:MET:HE3	1.85	0.41
1:c:250:LEU:HB2	1:c:375:ILE:HD12	2.03	0.41
1:c:665:ASN:ND2	1:c:667:SER:OG	2.53	0.41
1:e:571:THR:HG23	1:e:608:VAL:HG23	2.01	0.41
1:h:565:GLU:O	1:h:568:ILE:HG12	2.19	0.41
1:l:344:GLN:HE21	1:l:405:MET:HE3	1.85	0.41
1:m:401:PHE:N	1:m:401:PHE:CD1	2.89	0.41
1:n:238:ASP:OD1	1:n:238:ASP:N	2.49	0.41
1:n:401:PHE:CD1	1:n:401:PHE:N	2.89	0.41
1:o:384:ASN:ND2	1:o:386:GLY:O	2.46	0.41
1:r:220:ASP:OD1	1:r:220:ASP:N	2.49	0.41
1:s:540:ASN:OD1	1:s:540:ASN:N	2.53	0.41
1:t:344:GLN:HE21	1:t:405:MET:HE3	1.86	0.41
1:t:540:ASN:OD1	1:t:540:ASN:N	2.53	0.41
1:t:665:ASN:ND2	1:t:667:SER:OG	2.53	0.41
1:u:540:ASN:OD1	1:u:540:ASN:N	2.53	0.41
1:w:571:THR:HG23	1:w:608:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:569:LYS:HB3	1:x:569:LYS:HE2	1.86	0.41
1:z:344:GLN:HE21	1:z:405:MET:HE3	1.85	0.41
1:z:571:THR:HG23	1:z:608:VAL:HG23	2.01	0.41
1:2:238:ASP:N	1:2:238:ASP:OD1	2.49	0.41
1:7:250:LEU:HB2	1:7:375:ILE:HD12	2.03	0.41
1:8:250:LEU:HB2	1:8:375:ILE:HD12	2.03	0.41
2:B2:53:ILE:HG23	2:B2:54:THR:N	2.36	0.41
2:M2:53:ILE:HG23	2:M2:54:THR:N	2.36	0.41
2:M2:84:ASN:CG	2:c2:43:LYS:HE3	2.45	0.41
2:N2:53:ILE:HG23	2:N2:54:THR:N	2.36	0.41
2:S2:40:ALA:HA	2:S2:92:ALA:HA	2.02	0.41
2:S2:53:ILE:HG23	2:S2:54:THR:N	2.36	0.41
2:a2:7:SER:OG	2:a2:21:SER:HB2	2.19	0.41
2:c2:84:ASN:CG	2:s2:43:LYS:HE3	2.44	0.41
2:h2:37:PHE:HD1	2:h2:47:PHE:CA	2.27	0.41
2:m2:53:ILE:HG23	2:m2:54:THR:N	2.36	0.41
2:22:37:PHE:HD1	2:22:47:PHE:CA	2.27	0.41
1:A:610:GLN:NE2	1:G:627:THR:HA	2.36	0.41
1:E:482:PRO:O	1:E:607:MET:HG2	2.19	0.41
1:E:665:ASN:ND2	1:E:667:SER:OG	2.53	0.41
1:J:250:LEU:HB2	1:J:375:ILE:HD12	2.03	0.41
1:K:368:PHE:HA	1:K:369:PRO:HD3	1.90	0.41
1:Q:344:GLN:HE21	1:Q:405:MET:HE3	1.85	0.41
1:R:540:ASN:OD1	1:R:540:ASN:N	2.53	0.41
1:R:572:ASN:HD21	1:R:609:TRP:CB	2.29	0.41
1:V:401:PHE:N	1:V:401:PHE:CD1	2.89	0.41
1:V:665:ASN:ND2	1:V:667:SER:OG	2.53	0.41
1:Z:540:ASN:OD1	1:Z:540:ASN:N	2.53	0.41
1:a:384:ASN:ND2	1:a:386:GLY:O	2.46	0.41
1:c:220:ASP:OD1	1:c:220:ASP:N	2.49	0.41
1:d:368:PHE:HA	1:d:369:PRO:HD3	1.90	0.41
1:d:482:PRO:O	1:d:607:MET:HG2	2.19	0.41
1:g:250:LEU:HB2	1:g:375:ILE:HD12	2.03	0.41
1:g:435:ARG:HD3	1:g:435:ARG:HA	1.84	0.41
1:h:238:ASP:N	1:h:238:ASP:OD1	2.49	0.41
1:k:565:GLU:O	1:k:568:ILE:HG12	2.19	0.41
1:m:435:ARG:HD3	1:m:435:ARG:HA	1.84	0.41
1:m:540:ASN:OD1	1:m:540:ASN:N	2.53	0.41
1:n:250:LEU:HB2	1:n:375:ILE:HD12	2.03	0.41
1:o:344:GLN:HE21	1:o:405:MET:HE3	1.85	0.41
1:q:627:THR:HA	1:s:610:GLN:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:540:ASN:OD1	1:r:540:ASN:N	2.53	0.41
1:r:665:ASN:ND2	1:r:667:SER:OG	2.53	0.41
1:v:482:PRO:O	1:v:607:MET:HG2	2.19	0.41
1:x:368:PHE:HA	1:x:369:PRO:HD3	1.90	0.41
1:z:250:LEU:HB2	1:z:375:ILE:HD12	2.03	0.41
1:2:718:ASN:HD22	2:32:27:ARG:HH22	1.69	0.41
1:4:565:GLU:O	1:4:568:ILE:HG12	2.19	0.41
2:C2:53:ILE:HG23	2:C2:54:THR:N	2.36	0.41
2:D2:53:ILE:HG23	2:D2:54:THR:N	2.36	0.41
2:D2:84:ASN:CG	2:E2:43:LYS:HE3	2.45	0.41
2:K2:53:ILE:HG23	2:K2:54:THR:N	2.36	0.41
2:Q2:37:PHE:HD1	2:Q2:47:PHE:CA	2.27	0.41
2:l2:7:SER:OG	2:l2:21:SER:HB2	2.19	0.41
2:p2:7:SER:OG	2:p2:21:SER:HB2	2.19	0.41
2:y2:40:ALA:HA	2:y2:92:ALA:HA	2.02	0.41
2:z2:37:PHE:HD1	2:z2:47:PHE:CA	2.27	0.41
2:32:43:LYS:HE3	2:82:84:ASN:CG	2.45	0.41
2:72:40:ALA:HA	2:72:92:ALA:HA	2.02	0.41
1:C:482:PRO:O	1:C:607:MET:HG2	2.19	0.41
1:F:482:PRO:O	1:F:607:MET:HG2	2.19	0.41
1:G:569:LYS:HB3	1:G:569:LYS:HE2	1.86	0.41
1:K:250:LEU:HB2	1:K:375:ILE:HD12	2.03	0.41
1:K:401:PHE:N	1:K:401:PHE:CD1	2.89	0.41
1:K:567:GLU:HG3	1:a:392:ARG:NH2	2.34	0.41
1:M:482:PRO:O	1:M:607:MET:HG2	2.20	0.41
1:Q:384:ASN:ND2	1:Q:386:GLY:O	2.46	0.41
1:Q:569:LYS:HB3	1:Q:569:LYS:HE2	1.86	0.41
1:R:610:GLN:NE2	1:S:627:THR:HA	2.36	0.41
1:S:718:ASN:HD22	2:d2:27:ARG:HH22	1.68	0.41
1:V:718:ASN:HD22	2:R2:27:ARG:HH22	1.69	0.41
1:Y:571:THR:HG23	1:Y:608:VAL:HG23	2.02	0.41
1:Z:482:PRO:O	1:Z:607:MET:HG2	2.19	0.41
1:c:482:PRO:O	1:c:607:MET:HG2	2.19	0.41
1:d:250:LEU:HB2	1:d:375:ILE:HD12	2.03	0.41
1:d:401:PHE:N	1:d:401:PHE:CD1	2.89	0.41
1:d:567:GLU:HG3	1:l:392:ARG:NH2	2.34	0.41
1:e:540:ASN:OD1	1:e:540:ASN:N	2.53	0.41
1:g:571:THR:HG23	1:g:608:VAL:HG23	2.02	0.41
1:h:718:ASN:HD22	2:i2:27:ARG:HH22	1.69	0.41
1:j:540:ASN:OD1	1:j:540:ASN:N	2.53	0.41
1:t:401:PHE:N	1:t:401:PHE:CD1	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:344:GLN:HE21	1:u:405:MET:HE3	1.85	0.41
1:y:540:ASN:OD1	1:y:540:ASN:N	2.53	0.41
1:3:250:LEU:HB2	1:3:375:ILE:HD12	2.03	0.41
1:5:401:PHE:N	1:5:401:PHE:CD1	2.89	0.41
1:6:540:ASN:OD1	1:6:540:ASN:N	2.53	0.41
1:6:572:ASN:HD21	1:6:609:TRP:CB	2.29	0.41
1:6:610:GLN:NE2	1:7:627:THR:HA	2.36	0.41
1:7:368:PHE:HA	1:7:369:PRO:HD3	1.90	0.41
1:7:718:ASN:HD22	2:K2:27:ARG:HH22	1.68	0.41
2:H2:2:VAL:HG21	2:H2:27:ARG:HD2	2.01	0.41
2:T2:84:ASN:CG	2:i2:43:LYS:HE3	2.45	0.41
2:V2:53:ILE:HG23	2:V2:54:THR:N	2.36	0.41
2:d2:53:ILE:HG23	2:d2:54:THR:N	2.36	0.41
2:o2:37:PHE:HD1	2:o2:47:PHE:CA	2.28	0.41
2:12:40:ALA:HA	2:12:92:ALA:HA	2.02	0.41
2:22:40:ALA:HA	2:22:92:ALA:HA	2.02	0.41
1:B:368:PHE:HA	1:B:369:PRO:HD3	1.90	0.41
1:B:627:THR:HA	1:L:610:GLN:NE2	2.36	0.41
1:D:344:GLN:HE21	1:D:405:MET:HE3	1.85	0.41
1:D:482:PRO:O	1:D:607:MET:HG2	2.20	0.41
1:E:220:ASP:OD1	1:E:220:ASP:N	2.49	0.41
1:H:627:THR:HA	1:Y:610:GLN:NE2	2.36	0.41
1:I:220:ASP:OD1	1:I:220:ASP:N	2.49	0.41
1:I:344:GLN:HE21	1:I:405:MET:HE3	1.85	0.41
1:L:250:LEU:HB2	1:L:375:ILE:HD12	2.03	0.41
1:M:344:GLN:HE21	1:M:405:MET:HE3	1.85	0.41
1:O:250:LEU:HB2	1:O:375:ILE:HD12	2.03	0.41
1:O:610:GLN:NE2	1:m:627:THR:HA	2.36	0.41
1:P:718:ASN:HD22	2:Q2:27:ARG:HH22	1.69	0.41
1:T:718:ASN:HD22	2:U2:27:ARG:HH22	1.68	0.41
1:U:401:PHE:N	1:U:401:PHE:CD1	2.89	0.41
1:U:457:THR:HG23	1:U:458:ALA:H	1.86	0.41
1:W:540:ASN:OD1	1:W:540:ASN:N	2.53	0.41
1:Y:250:LEU:HB2	1:Y:375:ILE:HD12	2.03	0.41
1:Z:722:VAL:HG11	2:H2:29:HIS:ND1	2.35	0.41
1:b:718:ASN:HD22	2:o2:27:ARG:HH22	1.69	0.41
1:c:401:PHE:CD1	1:c:401:PHE:N	2.89	0.41
1:f:450:ARG:NH1	1:f:454:THR:H	2.07	0.41
1:f:627:THR:HA	1:g:610:GLN:NE2	2.36	0.41
1:h:250:LEU:HB2	1:h:375:ILE:HD12	2.03	0.41
1:i:250:LEU:HB2	1:i:375:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:401:PHE:N	1:k:401:PHE:CD1	2.89	0.41
1:p:344:GLN:HE21	1:p:405:MET:HE3	1.85	0.41
1:s:384:ASN:ND2	1:s:386:GLY:O	2.46	0.41
1:s:571:THR:HG23	1:s:608:VAL:HG23	2.02	0.41
1:t:435:ARG:HA	1:t:437:MET:HE3	2.03	0.41
1:u:220:ASP:OD1	1:u:220:ASP:N	2.49	0.41
1:v:250:LEU:HB2	1:v:375:ILE:HD12	2.03	0.41
1:w:250:LEU:HB2	1:w:375:ILE:HD12	2.03	0.41
1:w:401:PHE:N	1:w:401:PHE:CD1	2.89	0.41
1:w:610:GLN:NE2	1:x:627:THR:HA	2.36	0.41
1:y:250:LEU:HB2	1:y:375:ILE:HD12	2.03	0.41
1:z:610:GLN:NE2	1:1:627:THR:HA	2.36	0.41
1:2:250:LEU:HB2	1:2:375:ILE:HD12	2.03	0.41
1:7:401:PHE:N	1:7:401:PHE:CD1	2.89	0.41
1:8:718:ASN:HD22	2:52:27:ARG:HH22	1.68	0.41
2:P2:53:ILE:HG23	2:P2:54:THR:N	2.36	0.41
2:X2:53:ILE:HG23	2:X2:54:THR:N	2.36	0.41
2:f2:40:ALA:HA	2:f2:92:ALA:HA	2.02	0.41
2:h2:40:ALA:HA	2:h2:92:ALA:HA	2.02	0.41
2:t2:53:ILE:HG23	2:t2:54:THR:N	2.36	0.41
2:v2:40:ALA:HA	2:v2:92:ALA:HA	2.02	0.41
2:32:53:ILE:HG23	2:32:54:THR:N	2.36	0.41
1:A:384:ASN:ND2	1:A:386:GLY:O	2.46	0.41
1:C:401:PHE:N	1:C:401:PHE:CD1	2.89	0.41
1:E:401:PHE:N	1:E:401:PHE:CD1	2.89	0.41
1:E:435:ARG:HA	1:E:437:MET:HE3	2.03	0.41
1:E:540:ASN:OD1	1:E:540:ASN:N	2.53	0.41
1:F:344:GLN:HE21	1:F:405:MET:HE3	1.85	0.41
1:F:381:LEU:HD13	1:Q:435:ARG:HD2	2.03	0.41
1:G:344:GLN:HE21	1:G:405:MET:HE3	1.85	0.41
1:G:457:THR:HG23	1:G:458:ALA:H	1.86	0.41
1:H:381:LEU:HD13	1:Y:435:ARG:HD2	2.03	0.41
1:H:457:THR:HG23	1:H:458:ALA:H	1.86	0.41
1:H:572:ASN:HD21	1:H:609:TRP:CB	2.29	0.41
1:I:250:LEU:HB2	1:I:375:ILE:HD12	2.03	0.41
1:I:435:ARG:HA	1:I:437:MET:HE3	2.03	0.41
1:J:435:ARG:HA	1:J:437:MET:HE3	2.03	0.41
1:N:401:PHE:N	1:N:401:PHE:CD1	2.89	0.41
1:R:250:LEU:HB2	1:R:375:ILE:HD12	2.03	0.41
1:R:344:GLN:HE21	1:R:405:MET:HE3	1.85	0.41
1:R:627:THR:HA	1:U:610:GLN:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:401:PHE:CD1	1:S:401:PHE:N	2.89	0.41
1:T:540:ASN:OD1	1:T:540:ASN:N	2.53	0.41
1:V:435:ARG:HA	1:V:437:MET:HE3	2.03	0.41
1:V:610:GLN:NE2	1:e:627:THR:HA	2.36	0.41
1:W:250:LEU:HB2	1:W:375:ILE:HD12	2.03	0.41
1:X:250:LEU:HB2	1:X:375:ILE:HD12	2.03	0.41
1:X:457:THR:HG23	1:X:458:ALA:H	1.86	0.41
1:X:665:ASN:ND2	1:X:667:SER:OG	2.53	0.41
1:Y:401:PHE:N	1:Y:401:PHE:CD1	2.89	0.41
1:Z:250:LEU:HB2	1:Z:375:ILE:HD12	2.03	0.41
1:Z:401:PHE:N	1:Z:401:PHE:CD1	2.89	0.41
1:Z:450:ARG:NH1	1:Z:454:THR:H	2.07	0.41
1:a:368:PHE:HA	1:a:369:PRO:HD3	1.90	0.41
1:b:457:THR:HG23	1:b:458:ALA:H	1.86	0.41
1:c:435:ARG:HA	1:c:437:MET:HE3	2.03	0.41
1:e:220:ASP:OD1	1:e:220:ASP:N	2.49	0.41
1:e:344:GLN:HE21	1:e:405:MET:HE3	1.85	0.41
1:f:435:ARG:HA	1:f:437:MET:HE3	2.03	0.41
1:h:401:PHE:N	1:h:401:PHE:CD1	2.89	0.41
1:h:435:ARG:HA	1:h:437:MET:HE3	2.03	0.41
1:j:250:LEU:HB2	1:j:375:ILE:HD12	2.03	0.41
1:j:401:PHE:N	1:j:401:PHE:CD1	2.89	0.41
1:j:450:ARG:NH1	1:j:454:THR:H	2.07	0.41
1:j:457:THR:HG23	1:j:458:ALA:H	1.86	0.41
1:j:482:PRO:O	1:j:607:MET:HG2	2.19	0.41
1:j:722:VAL:HG11	2:x2:29:HIS:ND1	2.35	0.41
1:k:457:THR:HG23	1:k:458:ALA:H	1.86	0.41
1:k:540:ASN:OD1	1:k:540:ASN:N	2.53	0.41
1:n:718:ASN:HD22	2:l2:27:ARG:HH22	1.69	0.41
1:o:722:VAL:HG11	2:72:29:HIS:ND1	2.35	0.41
1:p:482:PRO:O	1:p:607:MET:HG2	2.19	0.41
1:q:344:GLN:HE21	1:q:405:MET:HE3	1.85	0.41
1:q:457:THR:HG23	1:q:458:ALA:H	1.86	0.41
1:r:250:LEU:HB2	1:r:375:ILE:HD12	2.03	0.41
1:r:344:GLN:HE21	1:r:405:MET:HE3	1.85	0.41
1:r:435:ARG:HA	1:r:437:MET:HE3	2.03	0.41
1:r:610:GLN:NE2	1:s:627:THR:HA	2.36	0.41
1:s:250:LEU:HB2	1:s:375:ILE:HD12	2.03	0.41
1:t:627:THR:HA	1:v:610:GLN:NE2	2.35	0.41
1:v:457:THR:HG23	1:v:458:ALA:H	1.86	0.41
1:v:665:ASN:ND2	1:v:667:SER:OG	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:435:ARG:HD2	1:x:381:LEU:HD13	2.03	0.41
1:w:457:THR:HG23	1:w:458:ALA:H	1.86	0.41
1:w:718:ASN:HD22	2:k2:27:ARG:HH22	1.69	0.41
1:x:457:THR:HG23	1:x:458:ALA:H	1.86	0.41
1:z:718:ASN:HD22	2:f2:27:ARG:HH22	1.68	0.41
1:1:435:ARG:HA	1:1:437:MET:HE3	2.03	0.41
1:2:401:PHE:N	1:2:401:PHE:CD1	2.89	0.41
1:2:435:ARG:HA	1:2:437:MET:HE3	2.03	0.41
1:4:401:PHE:N	1:4:401:PHE:CD1	2.89	0.41
1:4:457:THR:HG23	1:4:458:ALA:H	1.86	0.41
1:4:540:ASN:OD1	1:4:540:ASN:N	2.53	0.41
1:5:457:THR:HG23	1:5:458:ALA:H	1.86	0.41
1:5:540:ASN:OD1	1:5:540:ASN:N	2.53	0.41
1:5:610:GLN:NE2	1:6:627:THR:HA	2.36	0.41
1:6:250:LEU:HB2	1:6:375:ILE:HD12	2.03	0.41
1:6:344:GLN:HE21	1:6:405:MET:HE3	1.85	0.41
1:8:540:ASN:OD1	1:8:540:ASN:N	2.53	0.41
2:Q2:53:ILE:HG23	2:Q2:54:THR:N	2.36	0.41
2:X2:40:ALA:HA	2:X2:92:ALA:HA	2.02	0.41
2:Y2:40:ALA:HA	2:Y2:92:ALA:HA	2.02	0.41
2:a2:53:ILE:HG23	2:a2:54:THR:N	2.36	0.41
2:b2:53:ILE:HG23	2:b2:54:THR:N	2.36	0.41
2:i2:53:ILE:HG23	2:i2:54:THR:N	2.36	0.41
2:l2:53:ILE:HG23	2:l2:54:THR:N	2.36	0.41
2:o2:53:ILE:HG23	2:o2:54:THR:N	2.36	0.41
2:q2:53:ILE:HG23	2:q2:54:THR:N	2.36	0.41
2:v2:53:ILE:HG23	2:v2:54:THR:N	2.36	0.41
2:w2:40:ALA:HA	2:w2:92:ALA:HA	2.02	0.41
2:x2:2:VAL:HG21	2:x2:27:ARG:HD2	2.01	0.41
2:52:40:ALA:HA	2:52:92:ALA:HA	2.02	0.41
1:A:250:LEU:HB2	1:A:375:ILE:HD12	2.03	0.41
1:G:250:LEU:HB2	1:G:375:ILE:HD12	2.03	0.41
1:G:610:GLN:NE2	1:I:627:THR:HA	2.36	0.41
1:H:435:ARG:HA	1:H:437:MET:HE3	2.03	0.41
1:J:718:ASN:HD22	2:a2:27:ARG:HH22	1.69	0.41
1:K:457:THR:HG23	1:K:458:ALA:H	1.86	0.41
1:M:691:LYS:HA	1:M:691:LYS:HD2	1.90	0.41
1:N:435:ARG:HA	1:N:437:MET:HE3	2.03	0.41
1:P:457:THR:HG23	1:P:458:ALA:H	1.86	0.41
1:T:450:ARG:NH1	1:T:454:THR:H	2.07	0.41
1:V:381:LEU:HD13	1:X:435:ARG:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:718:ASN:HD22	2:42:27:ARG:HH22	1.69	0.41
1:Z:381:LEU:HD13	1:3:435:ARG:HD2	2.03	0.41
1:Z:457:THR:HG23	1:Z:458:ALA:H	1.86	0.41
1:c:540:ASN:OD1	1:c:540:ASN:N	2.53	0.41
1:f:540:ASN:OD1	1:f:540:ASN:N	2.53	0.41
1:f:610:GLN:NE2	1:h:627:THR:HA	2.36	0.41
1:i:435:ARG:HA	1:i:437:MET:HE3	2.03	0.41
1:i:435:ARG:HD2	1:j:381:LEU:HD13	2.03	0.41
1:n:435:ARG:HA	1:n:437:MET:HE3	2.03	0.41
1:o:435:ARG:HD2	1:p:381:LEU:HD13	2.03	0.41
1:q:250:LEU:HB2	1:q:375:ILE:HD12	2.03	0.41
1:q:569:LYS:HB3	1:q:569:LYS:HE2	1.86	0.41
1:q:610:GLN:NE2	1:r:627:THR:HA	2.36	0.41
1:1:540:ASN:OD1	1:1:540:ASN:N	2.53	0.41
1:1:610:GLN:NE2	1:2:627:THR:HA	2.36	0.41
1:3:435:ARG:HA	1:3:437:MET:HE3	2.03	0.41
1:7:457:THR:HG23	1:7:458:ALA:H	1.86	0.41
2:E2:53:ILE:HG23	2:E2:54:THR:N	2.36	0.41
2:G2:53:ILE:HG23	2:G2:54:THR:N	2.36	0.41
2:H2:53:ILE:HG23	2:H2:54:THR:N	2.36	0.41
2:L2:53:ILE:HG23	2:L2:54:THR:N	2.36	0.41
2:U2:40:ALA:HA	2:U2:92:ALA:HA	2.02	0.41
2:h2:53:ILE:HG23	2:h2:54:THR:N	2.36	0.41
2:l2:20:LEU:HG	2:l2:83:MET:HE2	2.03	0.41
2:22:53:ILE:HG23	2:22:54:THR:N	2.36	0.41
1:B:435:ARG:HD3	1:B:435:ARG:HA	1.84	0.40
1:C:435:ARG:HA	1:C:437:MET:HE3	2.03	0.40
1:D:381:LEU:HD13	1:P:435:ARG:HD2	2.03	0.40
1:D:435:ARG:HA	1:D:435:ARG:HD3	1.84	0.40
1:H:250:LEU:HB2	1:H:375:ILE:HD12	2.03	0.40
1:H:540:ASN:OD1	1:H:540:ASN:N	2.53	0.40
1:H:610:GLN:NE2	1:W:627:THR:HA	2.36	0.40
1:J:435:ARG:HA	1:J:435:ARG:HD3	1.84	0.40
1:M:381:LEU:HD13	1:b:435:ARG:HD2	2.03	0.40
1:P:435:ARG:HA	1:P:437:MET:HE3	2.03	0.40
1:Q:435:ARG:HA	1:Q:437:MET:HE3	2.03	0.40
1:S:368:PHE:HA	1:S:369:PRO:HD3	1.90	0.40
1:S:457:THR:HG23	1:S:458:ALA:H	1.86	0.40
1:U:435:ARG:HA	1:U:437:MET:HE3	2.03	0.40
1:U:540:ASN:OD1	1:U:540:ASN:N	2.53	0.40
1:X:344:GLN:HE21	1:X:405:MET:HE3	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:627:THR:HA	1:e:610:GLN:NE2	2.36	0.40
1:Y:238:ASP:OD1	1:Y:238:ASP:N	2.49	0.40
1:Y:457:THR:HG23	1:Y:458:ALA:H	1.86	0.40
1:a:435:ARG:HD2	1:8:381:LEU:HD13	2.03	0.40
1:d:457:THR:HG23	1:d:458:ALA:H	1.86	0.40
1:o:365:LEU:HA	1:o:366:PRO:HD3	1.95	0.40
1:t:610:GLN:NE2	1:u:627:THR:HA	2.36	0.40
1:x:250:LEU:HB2	1:x:375:ILE:HD12	2.03	0.40
1:x:435:ARG:HA	1:x:437:MET:HE3	2.03	0.40
1:y:457:THR:HG23	1:y:458:ALA:H	1.86	0.40
1:1:250:LEU:HB2	1:1:375:ILE:HD12	2.03	0.40
1:8:450:ARG:NH1	1:8:454:THR:H	2.07	0.40
2:O2:53:ILE:HG23	2:O2:54:THR:N	2.36	0.40
2:W2:20:LEU:HG	2:W2:83:MET:HE2	2.04	0.40
2:a2:20:LEU:HG	2:a2:83:MET:HE2	2.04	0.40
2:c2:53:ILE:HG23	2:c2:54:THR:N	2.36	0.40
2:g2:40:ALA:HA	2:g2:92:ALA:HA	2.02	0.40
2:s2:53:ILE:HG23	2:s2:54:THR:N	2.36	0.40
2:z2:40:ALA:HA	2:z2:92:ALA:HA	2.02	0.40
1:A:401:PHE:N	1:A:401:PHE:CD1	2.89	0.40
1:D:610:GLN:NE2	1:N:627:THR:HA	2.36	0.40
1:G:435:ARG:HA	1:G:437:MET:HE3	2.03	0.40
1:I:700:GLU:HB2	1:I:702:GLN:HE21	1.87	0.40
1:I:718:ASN:HD22	2:J2:27:ARG:HH22	1.68	0.40
1:L:540:ASN:OD1	1:L:540:ASN:N	2.53	0.40
1:Q:722:VAL:HG11	2:S2:29:HIS:ND1	2.35	0.40
1:R:381:LEU:HD13	1:U:435:ARG:HD2	2.03	0.40
1:T:381:LEU:HD13	1:l:435:ARG:HD2	2.03	0.40
1:V:435:ARG:HD2	1:e:381:LEU:HD13	2.03	0.40
1:W:457:THR:HG23	1:W:458:ALA:H	1.86	0.40
1:X:381:LEU:HD13	1:e:435:ARG:HD2	2.03	0.40
1:b:384:ASN:ND2	1:b:386:GLY:O	2.46	0.40
1:b:435:ARG:HA	1:b:437:MET:HE3	2.03	0.40
1:e:457:THR:HG23	1:e:458:ALA:H	1.86	0.40
1:m:368:PHE:HA	1:m:369:PRO:HD3	1.90	0.40
1:o:435:ARG:HA	1:o:437:MET:HE3	2.03	0.40
1:p:540:ASN:OD1	1:p:540:ASN:N	2.53	0.40
1:q:435:ARG:HA	1:q:437:MET:HE3	2.03	0.40
1:r:700:GLU:HB2	1:r:702:GLN:HE21	1.87	0.40
1:u:435:ARG:HD2	1:v:381:LEU:HD13	2.03	0.40
1:u:457:THR:HG23	1:u:458:ALA:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:344:GLN:HE21	1:v:405:MET:HE3	1.85	0.40
1:x:572:ASN:HD21	1:x:609:TRP:CB	2.29	0.40
1:y:401:PHE:N	1:y:401:PHE:CD1	2.89	0.40
1:y:435:ARG:HD3	1:y:435:ARG:HA	1.84	0.40
1:z:457:THR:HG23	1:z:458:ALA:H	1.86	0.40
1:2:569:LYS:HE2	1:2:569:LYS:HB3	1.86	0.40
1:5:435:ARG:HA	1:5:437:MET:HE3	2.03	0.40
1:5:435:ARG:HD2	1:6:381:LEU:HD13	2.03	0.40
1:8:569:LYS:HE2	1:8:569:LYS:HB3	1.86	0.40
2:A2:53:ILE:HG23	2:A2:54:THR:N	2.36	0.40
2:D2:20:LEU:HG	2:D2:83:MET:HE2	2.04	0.40
2:J2:53:ILE:HG23	2:J2:54:THR:N	2.36	0.40
2:T2:40:ALA:HA	2:T2:92:ALA:HA	2.02	0.40
2:c2:20:LEU:HG	2:c2:83:MET:HE2	2.04	0.40
2:p2:53:ILE:HG23	2:p2:54:THR:N	2.36	0.40
2:t2:37:PHE:HD1	2:t2:47:PHE:CA	2.27	0.40
2:x2:53:ILE:HG23	2:x2:54:THR:N	2.36	0.40
2:y2:20:LEU:HG	2:y2:83:MET:HE2	2.04	0.40
2:42:40:ALA:HA	2:42:92:ALA:HA	2.02	0.40
1:A:457:THR:HG23	1:A:458:ALA:H	1.86	0.40
1:A:569:LYS:HB3	1:A:569:LYS:HE2	1.86	0.40
1:A:627:THR:HA	1:I:610:GLN:NE2	2.36	0.40
1:C:627:THR:HA	1:M:610:GLN:NE2	2.36	0.40
1:D:691:LYS:HA	1:D:691:LYS:HD2	1.90	0.40
1:D:700:GLU:HB2	1:D:702:GLN:HE21	1.86	0.40
1:F:540:ASN:OD1	1:F:540:ASN:N	2.53	0.40
1:F:700:GLU:HB2	1:F:702:GLN:HE21	1.87	0.40
1:G:540:ASN:OD1	1:G:540:ASN:N	2.53	0.40
1:M:627:THR:HA	1:b:610:GLN:NE2	2.36	0.40
1:M:700:GLU:HB2	1:M:702:GLN:HE21	1.86	0.40
1:O:344:GLN:HE21	1:O:405:MET:HE3	1.85	0.40
1:O:540:ASN:OD1	1:O:540:ASN:N	2.53	0.40
1:Q:365:LEU:HA	1:Q:366:PRO:HD3	1.95	0.40
1:Q:401:PHE:N	1:Q:401:PHE:CD1	2.89	0.40
1:S:344:GLN:HE21	1:S:405:MET:HE3	1.85	0.40
1:S:435:ARG:HD2	1:U:381:LEU:HD13	2.03	0.40
1:S:569:LYS:HB3	1:S:569:LYS:HE2	1.86	0.40
1:T:700:GLU:HB2	1:T:702:GLN:HE21	1.87	0.40
1:V:627:THR:HA	1:X:610:GLN:NE2	2.36	0.40
1:W:401:PHE:N	1:W:401:PHE:CD1	2.89	0.40
1:X:435:ARG:HD3	1:X:435:ARG:HA	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:540:ASN:OD1	1:X:540:ASN:N	2.53	0.40
1:a:610:GLN:NE2	1:8:627:THR:HA	2.36	0.40
1:a:700:GLU:HB2	1:a:702:GLN:HE21	1.87	0.40
1:d:365:LEU:HA	1:d:366:PRO:HD3	1.95	0.40
1:f:250:LEU:HB2	1:f:375:ILE:HD12	2.03	0.40
1:f:435:ARG:HD2	1:h:381:LEU:HD13	2.03	0.40
1:g:549:ASN:HD22	2:12:29:HIS:CD2	2.39	0.40
1:i:700:GLU:HB2	1:i:702:GLN:HE21	1.87	0.40
1:j:344:GLN:HE21	1:j:405:MET:HE3	1.85	0.40
1:l:368:PHE:HA	1:l:369:PRO:HD3	1.90	0.40
1:m:610:GLN:NE2	1:n:627:THR:HA	2.36	0.40
1:n:540:ASN:OD1	1:n:540:ASN:N	2.53	0.40
1:o:401:PHE:N	1:o:401:PHE:CD1	2.89	0.40
1:p:384:ASN:ND2	1:p:386:GLY:O	2.46	0.40
1:p:457:THR:HG23	1:p:458:ALA:H	1.86	0.40
1:s:401:PHE:N	1:s:401:PHE:CD1	2.89	0.40
1:s:457:THR:HG23	1:s:458:ALA:H	1.86	0.40
1:x:540:ASN:OD1	1:x:540:ASN:N	2.53	0.40
1:x:610:GLN:NE2	1:y:627:THR:HA	2.36	0.40
1:3:700:GLU:HB2	1:3:702:GLN:HE21	1.87	0.40
1:7:569:LYS:HB3	1:7:569:LYS:HE2	1.86	0.40
1:8:700:GLU:HB2	1:8:702:GLN:HE21	1.87	0.40
2:A2:43:LYS:HE3	2:E2:84:ASN:CG	2.45	0.40
2:E2:20:LEU:HG	2:E2:83:MET:HE2	2.04	0.40
2:F2:53:ILE:HG23	2:F2:54:THR:N	2.36	0.40
2:M2:20:LEU:HG	2:M2:83:MET:HE2	2.04	0.40
2:R2:53:ILE:HG23	2:R2:54:THR:N	2.36	0.40
2:U2:37:PHE:HD1	2:U2:47:PHE:CA	2.27	0.40
2:k2:40:ALA:HA	2:k2:92:ALA:HA	2.02	0.40
2:n2:53:ILE:HG23	2:n2:54:THR:N	2.36	0.40
2:r2:53:ILE:HG23	2:r2:54:THR:N	2.36	0.40
2:u2:53:ILE:HG23	2:u2:54:THR:N	2.36	0.40
2:u2:91:THR:HG22	2:u2:123:THR:HA	2.04	0.40
2:62:53:ILE:HG23	2:62:54:THR:N	2.36	0.40
2:82:40:ALA:HA	2:82:92:ALA:HA	2.02	0.40
1:B:344:GLN:HE21	1:B:405:MET:HE3	1.85	0.40
1:B:610:GLN:NE2	1:J:627:THR:HA	2.36	0.40
1:C:359:SER:HB2	1:C:361:HIS:CD2	2.57	0.40
1:D:627:THR:HA	1:P:610:GLN:NE2	2.36	0.40
1:F:457:THR:HG23	1:F:458:ALA:H	1.86	0.40
1:F:627:THR:HA	1:Q:610:GLN:NE2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:722:VAL:HG21	2:W2:29:HIS:ND1	2.36	0.40
1:J:540:ASN:OD1	1:J:540:ASN:N	2.53	0.40
1:P:700:GLU:HB2	1:P:702:GLN:HE21	1.87	0.40
1:T:627:THR:HA	1:l:610:GLN:NE2	2.36	0.40
1:Z:344:GLN:HE21	1:Z:405:MET:HE3	1.85	0.40
1:Z:351:TYR:OH	1:Z:645:PRO:O	2.38	0.40
1:g:457:THR:HG23	1:g:458:ALA:H	1.86	0.40
1:i:610:GLN:NE2	1:j:627:THR:HA	2.36	0.40
1:i:627:THR:HA	1:k:610:GLN:NE2	2.36	0.40
1:l:450:ARG:NH1	1:l:454:THR:H	2.07	0.40
1:l:700:GLU:HB2	1:l:702:GLN:HE21	1.87	0.40
1:p:700:GLU:HB2	1:p:702:GLN:HE21	1.87	0.40
1:q:435:ARG:HA	1:q:435:ARG:HD3	1.84	0.40
1:r:718:ASN:HD22	2:n2:27:ARG:HH22	1.68	0.40
1:u:700:GLU:HB2	1:u:702:GLN:HE21	1.87	0.40
1:w:238:ASP:OD1	1:w:238:ASP:N	2.49	0.40
1:x:401:PHE:N	1:x:401:PHE:CD1	2.89	0.40
1:z:627:THR:HA	1:2:610:GLN:NE2	2.36	0.40
1:4:384:ASN:ND2	1:4:386:GLY:O	2.46	0.40
1:5:381:LEU:HD13	1:7:435:ARG:HD2	2.04	0.40
1:5:718:ASN:HD22	2:u2:27:ARG:HH22	1.68	0.40
2:Q2:20:LEU:HG	2:Q2:83:MET:HE2	2.03	0.40
2:W2:91:THR:HG22	2:W2:123:THR:HA	2.04	0.40
2:X2:20:LEU:HG	2:X2:83:MET:HE2	2.04	0.40
2:Z2:40:ALA:HA	2:Z2:92:ALA:HA	2.02	0.40
2:a2:91:THR:HG22	2:a2:123:THR:HA	2.04	0.40
2:e2:53:ILE:HG23	2:e2:54:THR:N	2.36	0.40
2:e2:91:THR:HG22	2:e2:123:THR:HA	2.04	0.40
2:l2:91:THR:HG22	2:l2:123:THR:HA	2.04	0.40
2:o2:20:LEU:HG	2:o2:83:MET:HE2	2.03	0.40
2:u2:37:PHE:HD1	2:u2:47:PHE:CA	2.27	0.40
2:y2:91:THR:HG22	2:y2:123:THR:HA	2.04	0.40
1:B:435:ARG:HA	1:B:437:MET:HE3	2.03	0.40
1:G:435:ARG:HD2	1:I:381:LEU:HD13	2.03	0.40
1:K:344:GLN:HE21	1:K:405:MET:HE3	1.85	0.40
1:K:435:ARG:HD2	1:a:381:LEU:HD13	2.03	0.40
1:L:344:GLN:HE21	1:L:405:MET:HE3	1.85	0.40
1:N:359:SER:HB2	1:N:361:HIS:CD2	2.57	0.40
1:O:435:ARG:HA	1:O:437:MET:HE3	2.03	0.40
1:O:457:THR:HG23	1:O:458:ALA:H	1.86	0.40
1:P:384:ASN:ND2	1:P:386:GLY:O	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:610:GLN:NE2	1:U:627:THR:HA	2.36	0.40
1:S:700:GLU:HB2	1:S:702:GLN:HE21	1.87	0.40
1:T:368:PHE:HA	1:T:369:PRO:HD3	1.90	0.40
1:V:359:SER:HB2	1:V:361:HIS:CD2	2.57	0.40
1:Z:610:GLN:NE2	1:4:627:THR:HA	2.36	0.40
1:Z:627:THR:HA	1:3:610:GLN:NE2	2.36	0.40
1:b:700:GLU:HB2	1:b:702:GLN:HE21	1.87	0.40
1:d:435:ARG:HD2	1:l:381:LEU:HD13	2.03	0.40
1:d:610:GLN:NE2	1:l:627:THR:HA	2.36	0.40
1:e:700:GLU:HB2	1:e:702:GLN:HE21	1.87	0.40
1:h:569:LYS:HE2	1:h:569:LYS:HB3	1.86	0.40
1:k:384:ASN:ND2	1:k:386:GLY:O	2.46	0.40
1:m:435:ARG:HA	1:m:437:MET:HE3	2.03	0.40
1:n:435:ARG:HA	1:n:435:ARG:HD3	1.84	0.40
1:o:610:GLN:NE2	1:p:627:THR:HA	2.36	0.40
1:q:540:ASN:OD1	1:q:540:ASN:N	2.53	0.40
1:t:359:SER:HB2	1:t:361:HIS:CD2	2.57	0.40
1:t:392:ARG:NH2	1:v:567:GLU:HG3	2.36	0.40
1:v:700:GLU:HB2	1:v:702:GLN:HE21	1.87	0.40
1:z:381:LEU:HD13	1:2:435:ARG:HD2	2.03	0.40
1:1:435:ARG:HD2	1:2:381:LEU:HD13	2.04	0.40
1:3:457:THR:HG23	1:3:458:ALA:H	1.86	0.40
1:3:540:ASN:OD1	1:3:540:ASN:N	2.53	0.40
1:4:530:LYS:CG	1:4:533:GLU:HG3	2.52	0.40
1:5:627:THR:HA	1:7:610:GLN:NE2	2.36	0.40
1:7:344:GLN:HE21	1:7:405:MET:HE3	1.85	0.40
2:F2:43:LYS:HE3	2:G2:84:ASN:CG	2.45	0.40
2:K2:20:LEU:HG	2:K2:83:MET:HE2	2.03	0.40
2:R2:91:THR:HG22	2:R2:123:THR:HA	2.04	0.40
2:Y2:53:ILE:HG23	2:Y2:54:THR:N	2.36	0.40
2:b2:20:LEU:HG	2:b2:83:MET:HE2	2.04	0.40
2:d2:20:LEU:HG	2:d2:83:MET:HE2	2.03	0.40
2:s2:20:LEU:HG	2:s2:83:MET:HE2	2.04	0.40
2:t2:91:THR:HG22	2:t2:123:THR:HA	2.04	0.40
2:v2:20:LEU:HG	2:v2:83:MET:HE2	2.04	0.40
2:y2:37:PHE:HD1	2:y2:47:PHE:CA	2.28	0.40
2:72:20:LEU:HG	2:72:83:MET:HE2	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	2	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	3	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	4	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	5	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	6	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	7	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	8	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	A	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	B	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	C	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	D	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	E	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	F	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	G	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	H	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	I	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	J	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	K	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	L	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	M	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	N	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	O	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	P	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	Q	518/535 (97%)	503 (97%)	15 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	S	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	T	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	U	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	V	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	W	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	X	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	Y	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	Z	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	a	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	b	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	c	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	d	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	e	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	f	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	g	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	h	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	i	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	j	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	k	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	l	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	m	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	n	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	o	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	p	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	q	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	r	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	s	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	t	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	u	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	v	518/535 (97%)	504 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
1	x	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	y	518/535 (97%)	503 (97%)	15 (3%)	0	100	100
1	z	518/535 (97%)	504 (97%)	14 (3%)	0	100	100
2	12	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	22	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	32	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	42	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	52	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	62	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	72	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	82	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	A2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	B2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	C2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	D2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	E2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	F2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	G2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	H2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	I2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	J2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	K2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	L2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	M2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	N2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	O2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	P2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	Q2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	R2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	S2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	T2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	U2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	V2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	W2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	X2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	Y2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	Z2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	a2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	b2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	c2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	d2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	e2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	f2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	g2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	h2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	i2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	j2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	k2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	l2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	m2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	n2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	o2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	p2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	q2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	r2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	s2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	t2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	u2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	v2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	w2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	x2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	y2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
2	z2	123/126 (98%)	120 (98%)	3 (2%)	0	100	100
All	All	38460/39660 (97%)	37407 (97%)	1053 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	2	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	3	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	4	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	5	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	6	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	7	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	8	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	A	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	B	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	C	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	D	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	E	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	F	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	G	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	H	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	I	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	J	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	K	453/460 (98%)	450 (99%)	3 (1%)	76	86

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	L	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	M	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	N	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	O	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	P	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	Q	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	R	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	S	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	T	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	U	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	V	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	W	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	X	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	Y	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	Z	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	a	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	b	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	c	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	d	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	e	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	f	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	g	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	h	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	i	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	j	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	k	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	l	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	m	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	n	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	o	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	p	453/460 (98%)	450 (99%)	3 (1%)	76	86

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	q	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	r	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	s	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	t	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	u	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	v	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	w	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	x	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	y	453/460 (98%)	450 (99%)	3 (1%)	76	86
1	z	453/460 (98%)	450 (99%)	3 (1%)	76	86
2	12	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	22	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	32	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	42	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	52	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	62	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	72	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	82	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	A2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	B2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	C2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	D2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	E2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	F2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	G2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	H2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	I2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	J2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	K2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	L2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	M2	97/98 (99%)	96 (99%)	1 (1%)	68	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	N2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	O2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	P2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	Q2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	R2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	S2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	T2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	U2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	V2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	W2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	X2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	Y2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	Z2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	a2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	b2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	c2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	d2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	e2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	f2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	g2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	h2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	i2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	j2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	k2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	l2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	m2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	n2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	o2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	p2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	q2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	r2	97/98 (99%)	96 (99%)	1 (1%)	68	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	s2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	t2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	u2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	v2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	w2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	x2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	y2	97/98 (99%)	96 (99%)	1 (1%)	68	81
2	z2	97/98 (99%)	96 (99%)	1 (1%)	68	81
All	All	33000/33480 (99%)	32760 (99%)	240 (1%)	73	86

All (240) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	318	LEU
1	A	326	VAL
1	A	401	PHE
1	B	318	LEU
1	B	326	VAL
1	B	401	PHE
1	C	318	LEU
1	C	326	VAL
1	C	401	PHE
1	D	318	LEU
1	D	326	VAL
1	D	401	PHE
1	E	318	LEU
1	E	326	VAL
1	E	401	PHE
1	F	318	LEU
1	F	326	VAL
1	F	401	PHE
1	G	318	LEU
1	G	326	VAL
1	G	401	PHE
1	H	318	LEU
1	H	326	VAL
1	H	401	PHE
1	I	318	LEU
1	I	326	VAL

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Mol	Chain	Res	Type
1	I	401	PHE
1	J	318	LEU
1	J	326	VAL
1	J	401	PHE
1	K	318	LEU
1	K	326	VAL
1	K	401	PHE
1	L	318	LEU
1	L	326	VAL
1	L	401	PHE
1	M	318	LEU
1	M	326	VAL
1	M	401	PHE
1	N	318	LEU
1	N	326	VAL
1	N	401	PHE
1	O	318	LEU
1	O	326	VAL
1	O	401	PHE
1	P	318	LEU
1	P	326	VAL
1	P	401	PHE
1	Q	318	LEU
1	Q	326	VAL
1	Q	401	PHE
1	R	318	LEU
1	R	326	VAL
1	R	401	PHE
1	S	318	LEU
1	S	326	VAL
1	S	401	PHE
1	T	318	LEU
1	T	326	VAL
1	T	401	PHE
1	U	318	LEU
1	U	326	VAL
1	U	401	PHE
1	V	318	LEU
1	V	326	VAL
1	V	401	PHE
1	W	318	LEU
1	W	326	VAL

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Mol	Chain	Res	Type
1	W	401	PHE
1	X	318	LEU
1	X	326	VAL
1	X	401	PHE
1	Y	318	LEU
1	Y	326	VAL
1	Y	401	PHE
1	Z	318	LEU
1	Z	326	VAL
1	Z	401	PHE
1	a	318	LEU
1	a	326	VAL
1	a	401	PHE
1	b	318	LEU
1	b	326	VAL
1	b	401	PHE
1	c	318	LEU
1	c	326	VAL
1	c	401	PHE
1	d	318	LEU
1	d	326	VAL
1	d	401	PHE
1	e	318	LEU
1	e	326	VAL
1	e	401	PHE
1	f	318	LEU
1	f	326	VAL
1	f	401	PHE
1	g	318	LEU
1	g	326	VAL
1	g	401	PHE
1	h	318	LEU
1	h	326	VAL
1	h	401	PHE
1	i	318	LEU
1	i	326	VAL
1	i	401	PHE
1	j	318	LEU
1	j	326	VAL
1	j	401	PHE
1	k	318	LEU
1	k	326	VAL

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Mol	Chain	Res	Type
1	k	401	PHE
1	l	318	LEU
1	l	326	VAL
1	l	401	PHE
1	m	318	LEU
1	m	326	VAL
1	m	401	PHE
1	n	318	LEU
1	n	326	VAL
1	n	401	PHE
1	o	318	LEU
1	o	326	VAL
1	o	401	PHE
1	p	318	LEU
1	p	326	VAL
1	p	401	PHE
1	q	318	LEU
1	q	326	VAL
1	q	401	PHE
1	r	318	LEU
1	r	326	VAL
1	r	401	PHE
1	s	318	LEU
1	s	326	VAL
1	s	401	PHE
1	t	318	LEU
1	t	326	VAL
1	t	401	PHE
1	u	318	LEU
1	u	326	VAL
1	u	401	PHE
1	v	318	LEU
1	v	326	VAL
1	v	401	PHE
1	w	318	LEU
1	w	326	VAL
1	w	401	PHE
1	x	318	LEU
1	x	326	VAL
1	x	401	PHE
1	y	318	LEU
1	y	326	VAL

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Mol	Chain	Res	Type
1	y	401	PHE
1	z	318	LEU
1	z	326	VAL
1	z	401	PHE
1	1	318	LEU
1	1	326	VAL
1	1	401	PHE
1	2	318	LEU
1	2	326	VAL
1	2	401	PHE
1	3	318	LEU
1	3	326	VAL
1	3	401	PHE
1	4	318	LEU
1	4	326	VAL
1	4	401	PHE
1	5	318	LEU
1	5	326	VAL
1	5	401	PHE
1	6	318	LEU
1	6	326	VAL
1	6	401	PHE
1	7	318	LEU
1	7	326	VAL
1	7	401	PHE
1	8	318	LEU
1	8	326	VAL
1	8	401	PHE
2	A2	102	LEU
2	B2	102	LEU
2	C2	102	LEU
2	D2	102	LEU
2	E2	102	LEU
2	F2	102	LEU
2	G2	102	LEU
2	H2	102	LEU
2	I2	102	LEU
2	J2	102	LEU
2	K2	102	LEU
2	L2	102	LEU
2	M2	102	LEU
2	N2	102	LEU

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Mol	Chain	Res	Type
2	O2	102	LEU
2	P2	102	LEU
2	Q2	102	LEU
2	R2	102	LEU
2	S2	102	LEU
2	T2	102	LEU
2	U2	102	LEU
2	V2	102	LEU
2	W2	102	LEU
2	X2	102	LEU
2	Y2	102	LEU
2	Z2	102	LEU
2	a2	102	LEU
2	b2	102	LEU
2	c2	102	LEU
2	d2	102	LEU
2	e2	102	LEU
2	f2	102	LEU
2	g2	102	LEU
2	h2	102	LEU
2	i2	102	LEU
2	j2	102	LEU
2	k2	102	LEU
2	l2	102	LEU
2	m2	102	LEU
2	n2	102	LEU
2	o2	102	LEU
2	p2	102	LEU
2	q2	102	LEU
2	r2	102	LEU
2	s2	102	LEU
2	t2	102	LEU
2	u2	102	LEU
2	v2	102	LEU
2	w2	102	LEU
2	x2	102	LEU
2	y2	102	LEU
2	z2	102	LEU
2	12	102	LEU
2	22	102	LEU
2	32	102	LEU
2	42	102	LEU

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Mol	Chain	Res	Type
2	52	102	LEU
2	62	102	LEU
2	72	102	LEU
2	82	102	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (931) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	293	HIS
1	A	306	ASN
1	A	328	GLN
1	A	344	GLN
1	A	429	HIS
1	A	475	ASN
1	A	548	GLN
1	A	601	GLN
1	A	610	GLN
1	A	644	HIS
1	A	653	ASN
1	A	665	ASN
1	A	675	GLN
1	B	293	HIS
1	B	328	GLN
1	B	344	GLN
1	B	429	HIS
1	B	475	ASN
1	B	548	GLN
1	B	601	GLN
1	B	610	GLN
1	B	653	ASN
1	B	665	ASN
1	B	675	GLN
1	C	293	HIS
1	C	328	GLN
1	C	344	GLN
1	C	429	HIS
1	C	475	ASN
1	C	548	GLN
1	C	601	GLN
1	C	610	GLN
1	C	653	ASN
1	C	665	ASN

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Mol	Chain	Res	Type
1	C	675	GLN
1	D	328	GLN
1	D	344	GLN
1	D	429	HIS
1	D	475	ASN
1	D	548	GLN
1	D	601	GLN
1	D	610	GLN
1	D	653	ASN
1	D	665	ASN
1	D	675	GLN
1	E	293	HIS
1	E	328	GLN
1	E	344	GLN
1	E	429	HIS
1	E	475	ASN
1	E	548	GLN
1	E	601	GLN
1	E	610	GLN
1	E	644	HIS
1	E	653	ASN
1	E	665	ASN
1	F	293	HIS
1	F	306	ASN
1	F	328	GLN
1	F	344	GLN
1	F	429	HIS
1	F	475	ASN
1	F	548	GLN
1	F	601	GLN
1	F	610	GLN
1	F	644	HIS
1	F	653	ASN
1	F	665	ASN
1	F	675	GLN
1	G	306	ASN
1	G	328	GLN
1	G	344	GLN
1	G	429	HIS
1	G	475	ASN
1	G	548	GLN
1	G	601	GLN

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Mol	Chain	Res	Type
1	G	610	GLN
1	G	653	ASN
1	G	665	ASN
1	G	675	GLN
1	H	293	HIS
1	H	328	GLN
1	H	344	GLN
1	H	475	ASN
1	H	548	GLN
1	H	601	GLN
1	H	610	GLN
1	H	653	ASN
1	H	665	ASN
1	I	293	HIS
1	I	328	GLN
1	I	344	GLN
1	I	475	ASN
1	I	548	GLN
1	I	601	GLN
1	I	610	GLN
1	I	653	ASN
1	I	665	ASN
1	I	675	GLN
1	J	293	HIS
1	J	306	ASN
1	J	328	GLN
1	J	344	GLN
1	J	475	ASN
1	J	548	GLN
1	J	601	GLN
1	J	610	GLN
1	J	644	HIS
1	J	653	ASN
1	J	665	ASN
1	J	675	GLN
1	K	293	HIS
1	K	306	ASN
1	K	328	GLN
1	K	344	GLN
1	K	429	HIS
1	K	475	ASN
1	K	548	GLN

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Mol	Chain	Res	Type
1	K	601	GLN
1	K	610	GLN
1	K	644	HIS
1	K	653	ASN
1	K	665	ASN
1	L	293	HIS
1	L	306	ASN
1	L	328	GLN
1	L	344	GLN
1	L	429	HIS
1	L	475	ASN
1	L	548	GLN
1	L	601	GLN
1	L	610	GLN
1	L	653	ASN
1	L	665	ASN
1	L	675	GLN
1	M	293	HIS
1	M	306	ASN
1	M	328	GLN
1	M	344	GLN
1	M	429	HIS
1	M	475	ASN
1	M	548	GLN
1	M	601	GLN
1	M	610	GLN
1	M	653	ASN
1	M	665	ASN
1	M	675	GLN
1	N	293	HIS
1	N	328	GLN
1	N	344	GLN
1	N	429	HIS
1	N	475	ASN
1	N	548	GLN
1	N	601	GLN
1	N	610	GLN
1	N	653	ASN
1	N	665	ASN
1	N	675	GLN
1	O	306	ASN
1	O	328	GLN

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Mol	Chain	Res	Type
1	O	344	GLN
1	O	429	HIS
1	O	475	ASN
1	O	548	GLN
1	O	601	GLN
1	O	610	GLN
1	O	653	ASN
1	O	665	ASN
1	O	675	GLN
1	P	306	ASN
1	P	328	GLN
1	P	344	GLN
1	P	429	HIS
1	P	475	ASN
1	P	548	GLN
1	P	601	GLN
1	P	610	GLN
1	P	644	HIS
1	P	653	ASN
1	P	665	ASN
1	P	675	GLN
1	Q	293	HIS
1	Q	328	GLN
1	Q	344	GLN
1	Q	429	HIS
1	Q	475	ASN
1	Q	548	GLN
1	Q	601	GLN
1	Q	610	GLN
1	Q	653	ASN
1	Q	665	ASN
1	R	293	HIS
1	R	306	ASN
1	R	328	GLN
1	R	344	GLN
1	R	429	HIS
1	R	475	ASN
1	R	548	GLN
1	R	601	GLN
1	R	610	GLN
1	R	644	HIS
1	R	653	ASN

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Mol	Chain	Res	Type
1	R	665	ASN
1	S	306	ASN
1	S	328	GLN
1	S	344	GLN
1	S	429	HIS
1	S	475	ASN
1	S	548	GLN
1	S	601	GLN
1	S	610	GLN
1	S	644	HIS
1	S	653	ASN
1	S	665	ASN
1	S	675	GLN
1	T	293	HIS
1	T	328	GLN
1	T	344	GLN
1	T	429	HIS
1	T	475	ASN
1	T	548	GLN
1	T	601	GLN
1	T	610	GLN
1	T	644	HIS
1	T	653	ASN
1	T	665	ASN
1	T	675	GLN
1	T	702	GLN
1	U	293	HIS
1	U	306	ASN
1	U	328	GLN
1	U	344	GLN
1	U	429	HIS
1	U	475	ASN
1	U	548	GLN
1	U	601	GLN
1	U	610	GLN
1	U	644	HIS
1	U	653	ASN
1	U	665	ASN
1	U	675	GLN
1	V	306	ASN
1	V	328	GLN
1	V	344	GLN

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Mol	Chain	Res	Type
1	V	429	HIS
1	V	475	ASN
1	V	548	GLN
1	V	601	GLN
1	V	610	GLN
1	V	653	ASN
1	V	665	ASN
1	V	675	GLN
1	W	293	HIS
1	W	328	GLN
1	W	344	GLN
1	W	475	ASN
1	W	548	GLN
1	W	601	GLN
1	W	610	GLN
1	W	653	ASN
1	W	665	ASN
1	W	675	GLN
1	X	293	HIS
1	X	306	ASN
1	X	328	GLN
1	X	344	GLN
1	X	429	HIS
1	X	475	ASN
1	X	548	GLN
1	X	601	GLN
1	X	610	GLN
1	X	653	ASN
1	X	665	ASN
1	X	675	GLN
1	Y	293	HIS
1	Y	306	ASN
1	Y	328	GLN
1	Y	344	GLN
1	Y	475	ASN
1	Y	548	GLN
1	Y	601	GLN
1	Y	610	GLN
1	Y	653	ASN
1	Y	665	ASN
1	Y	675	GLN
1	Z	293	HIS

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Mol	Chain	Res	Type
1	Z	306	ASN
1	Z	328	GLN
1	Z	344	GLN
1	Z	429	HIS
1	Z	475	ASN
1	Z	548	GLN
1	Z	601	GLN
1	Z	610	GLN
1	Z	653	ASN
1	Z	665	ASN
1	Z	675	GLN
1	a	293	HIS
1	a	306	ASN
1	a	328	GLN
1	a	344	GLN
1	a	475	ASN
1	a	548	GLN
1	a	601	GLN
1	a	610	GLN
1	a	644	HIS
1	a	653	ASN
1	a	665	ASN
1	a	675	GLN
1	b	306	ASN
1	b	328	GLN
1	b	344	GLN
1	b	429	HIS
1	b	475	ASN
1	b	548	GLN
1	b	601	GLN
1	b	610	GLN
1	b	644	HIS
1	b	653	ASN
1	b	665	ASN
1	b	675	GLN
1	c	293	HIS
1	c	328	GLN
1	c	344	GLN
1	c	429	HIS
1	c	475	ASN
1	c	548	GLN
1	c	601	GLN

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Mol	Chain	Res	Type
1	c	610	GLN
1	c	644	HIS
1	c	653	ASN
1	c	665	ASN
1	d	293	HIS
1	d	306	ASN
1	d	328	GLN
1	d	344	GLN
1	d	475	ASN
1	d	548	GLN
1	d	601	GLN
1	d	610	GLN
1	d	653	ASN
1	d	665	ASN
1	d	675	GLN
1	e	306	ASN
1	e	328	GLN
1	e	344	GLN
1	e	429	HIS
1	e	475	ASN
1	e	548	GLN
1	e	601	GLN
1	e	610	GLN
1	e	644	HIS
1	e	653	ASN
1	e	665	ASN
1	e	675	GLN
1	f	293	HIS
1	f	306	ASN
1	f	328	GLN
1	f	344	GLN
1	f	475	ASN
1	f	548	GLN
1	f	601	GLN
1	f	610	GLN
1	f	644	HIS
1	f	653	ASN
1	f	665	ASN
1	f	675	GLN
1	g	293	HIS
1	g	306	ASN
1	g	328	GLN

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Mol	Chain	Res	Type
1	g	344	GLN
1	g	429	HIS
1	g	475	ASN
1	g	548	GLN
1	g	549	ASN
1	g	601	GLN
1	g	610	GLN
1	g	644	HIS
1	g	653	ASN
1	g	665	ASN
1	g	675	GLN
1	h	293	HIS
1	h	306	ASN
1	h	328	GLN
1	h	344	GLN
1	h	429	HIS
1	h	475	ASN
1	h	548	GLN
1	h	601	GLN
1	h	610	GLN
1	h	653	ASN
1	h	665	ASN
1	h	675	GLN
1	i	306	ASN
1	i	328	GLN
1	i	344	GLN
1	i	429	HIS
1	i	475	ASN
1	i	548	GLN
1	i	601	GLN
1	i	610	GLN
1	i	653	ASN
1	i	665	ASN
1	i	675	GLN
1	j	293	HIS
1	j	328	GLN
1	j	344	GLN
1	j	429	HIS
1	j	475	ASN
1	j	548	GLN
1	j	601	GLN
1	j	610	GLN

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Mol	Chain	Res	Type
1	j	653	ASN
1	j	665	ASN
1	j	675	GLN
1	k	293	HIS
1	k	306	ASN
1	k	328	GLN
1	k	344	GLN
1	k	475	ASN
1	k	601	GLN
1	k	610	GLN
1	k	653	ASN
1	k	665	ASN
1	k	675	GLN
1	l	293	HIS
1	l	306	ASN
1	l	328	GLN
1	l	344	GLN
1	l	429	HIS
1	l	475	ASN
1	l	548	GLN
1	l	601	GLN
1	l	610	GLN
1	l	644	HIS
1	l	653	ASN
1	l	665	ASN
1	l	675	GLN
1	m	293	HIS
1	m	306	ASN
1	m	328	GLN
1	m	344	GLN
1	m	429	HIS
1	m	475	ASN
1	m	548	GLN
1	m	601	GLN
1	m	610	GLN
1	m	653	ASN
1	m	665	ASN
1	m	675	GLN
1	n	293	HIS
1	n	306	ASN
1	n	328	GLN
1	n	344	GLN

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Mol	Chain	Res	Type
1	n	429	HIS
1	n	475	ASN
1	n	548	GLN
1	n	601	GLN
1	n	610	GLN
1	n	644	HIS
1	n	653	ASN
1	n	665	ASN
1	n	675	GLN
1	o	293	HIS
1	o	328	GLN
1	o	344	GLN
1	o	429	HIS
1	o	475	ASN
1	o	548	GLN
1	o	601	GLN
1	o	610	GLN
1	o	653	ASN
1	o	665	ASN
1	p	293	HIS
1	p	306	ASN
1	p	328	GLN
1	p	344	GLN
1	p	429	HIS
1	p	475	ASN
1	p	548	GLN
1	p	601	GLN
1	p	610	GLN
1	p	644	HIS
1	p	653	ASN
1	p	665	ASN
1	p	675	GLN
1	q	293	HIS
1	q	306	ASN
1	q	328	GLN
1	q	344	GLN
1	q	429	HIS
1	q	475	ASN
1	q	548	GLN
1	q	601	GLN
1	q	610	GLN
1	q	653	ASN

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Mol	Chain	Res	Type
1	q	665	ASN
1	q	675	GLN
1	r	293	HIS
1	r	328	GLN
1	r	344	GLN
1	r	475	ASN
1	r	548	GLN
1	r	587	GLN
1	r	601	GLN
1	r	610	GLN
1	r	653	ASN
1	r	665	ASN
1	r	675	GLN
1	s	293	HIS
1	s	306	ASN
1	s	328	GLN
1	s	344	GLN
1	s	429	HIS
1	s	475	ASN
1	s	548	GLN
1	s	601	GLN
1	s	610	GLN
1	s	653	ASN
1	s	665	ASN
1	s	675	GLN
1	t	293	HIS
1	t	306	ASN
1	t	328	GLN
1	t	344	GLN
1	t	475	ASN
1	t	548	GLN
1	t	601	GLN
1	t	610	GLN
1	t	653	ASN
1	t	665	ASN
1	t	675	GLN
1	u	293	HIS
1	u	306	ASN
1	u	328	GLN
1	u	344	GLN
1	u	429	HIS
1	u	475	ASN

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Mol	Chain	Res	Type
1	u	548	GLN
1	u	601	GLN
1	u	610	GLN
1	u	644	HIS
1	u	653	ASN
1	u	665	ASN
1	u	675	GLN
1	v	293	HIS
1	v	328	GLN
1	v	344	GLN
1	v	429	HIS
1	v	475	ASN
1	v	548	GLN
1	v	601	GLN
1	v	610	GLN
1	v	653	ASN
1	v	665	ASN
1	v	675	GLN
1	w	293	HIS
1	w	306	ASN
1	w	328	GLN
1	w	344	GLN
1	w	429	HIS
1	w	475	ASN
1	w	548	GLN
1	w	601	GLN
1	w	610	GLN
1	w	653	ASN
1	w	665	ASN
1	w	675	GLN
1	x	293	HIS
1	x	328	GLN
1	x	344	GLN
1	x	475	ASN
1	x	548	GLN
1	x	601	GLN
1	x	610	GLN
1	x	653	ASN
1	x	665	ASN
1	x	675	GLN
1	y	293	HIS
1	y	328	GLN

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Mol	Chain	Res	Type
1	y	344	GLN
1	y	475	ASN
1	y	548	GLN
1	y	601	GLN
1	y	610	GLN
1	y	653	ASN
1	y	665	ASN
1	y	675	GLN
1	z	306	ASN
1	z	328	GLN
1	z	344	GLN
1	z	429	HIS
1	z	475	ASN
1	z	548	GLN
1	z	601	GLN
1	z	610	GLN
1	z	644	HIS
1	z	653	ASN
1	z	665	ASN
1	z	675	GLN
1	1	306	ASN
1	1	328	GLN
1	1	344	GLN
1	1	475	ASN
1	1	548	GLN
1	1	601	GLN
1	1	610	GLN
1	1	644	HIS
1	1	653	ASN
1	1	665	ASN
1	1	675	GLN
1	2	293	HIS
1	2	306	ASN
1	2	328	GLN
1	2	344	GLN
1	2	429	HIS
1	2	475	ASN
1	2	548	GLN
1	2	601	GLN
1	2	610	GLN
1	2	653	ASN
1	2	665	ASN

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Mol	Chain	Res	Type
1	2	675	GLN
1	3	306	ASN
1	3	328	GLN
1	3	344	GLN
1	3	429	HIS
1	3	475	ASN
1	3	548	GLN
1	3	601	GLN
1	3	610	GLN
1	3	644	HIS
1	3	653	ASN
1	3	665	ASN
1	3	675	GLN
1	4	293	HIS
1	4	306	ASN
1	4	328	GLN
1	4	344	GLN
1	4	475	ASN
1	4	601	GLN
1	4	610	GLN
1	4	653	ASN
1	4	665	ASN
1	4	675	GLN
1	5	293	HIS
1	5	306	ASN
1	5	328	GLN
1	5	344	GLN
1	5	429	HIS
1	5	475	ASN
1	5	548	GLN
1	5	601	GLN
1	5	610	GLN
1	5	653	ASN
1	5	665	ASN
1	5	675	GLN
1	6	293	HIS
1	6	306	ASN
1	6	328	GLN
1	6	344	GLN
1	6	429	HIS
1	6	475	ASN
1	6	548	GLN

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Mol	Chain	Res	Type
1	6	601	GLN
1	6	610	GLN
1	6	653	ASN
1	6	665	ASN
1	6	675	GLN
1	7	306	ASN
1	7	328	GLN
1	7	344	GLN
1	7	429	HIS
1	7	475	ASN
1	7	548	GLN
1	7	601	GLN
1	7	610	GLN
1	7	644	HIS
1	7	653	ASN
1	7	665	ASN
1	7	675	GLN
1	8	293	HIS
1	8	328	GLN
1	8	344	GLN
1	8	429	HIS
1	8	475	ASN
1	8	548	GLN
1	8	601	GLN
1	8	610	GLN
1	8	653	ASN
1	8	665	ASN
1	8	675	GLN
2	A2	13	GLN
2	A2	29	HIS
2	A2	51	GLN
2	A2	57	ASN
2	B2	13	GLN
2	B2	29	HIS
2	B2	51	GLN
2	B2	57	ASN
2	C2	13	GLN
2	C2	29	HIS
2	C2	51	GLN
2	C2	57	ASN
2	D2	13	GLN
2	D2	29	HIS

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Mol	Chain	Res	Type
2	D2	51	GLN
2	D2	57	ASN
2	E2	13	GLN
2	E2	29	HIS
2	E2	51	GLN
2	E2	57	ASN
2	F2	13	GLN
2	F2	29	HIS
2	F2	51	GLN
2	F2	57	ASN
2	G2	13	GLN
2	G2	29	HIS
2	G2	51	GLN
2	G2	57	ASN
2	H2	13	GLN
2	H2	29	HIS
2	H2	51	GLN
2	H2	57	ASN
2	I2	13	GLN
2	I2	29	HIS
2	I2	51	GLN
2	I2	57	ASN
2	J2	13	GLN
2	J2	29	HIS
2	J2	51	GLN
2	J2	57	ASN
2	K2	13	GLN
2	K2	29	HIS
2	K2	51	GLN
2	K2	57	ASN
2	L2	13	GLN
2	L2	29	HIS
2	L2	51	GLN
2	L2	57	ASN
2	M2	13	GLN
2	M2	29	HIS
2	M2	51	GLN
2	M2	57	ASN
2	N2	13	GLN
2	N2	29	HIS
2	N2	51	GLN
2	N2	57	ASN

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Mol	Chain	Res	Type
2	O2	13	GLN
2	O2	29	HIS
2	O2	51	GLN
2	O2	57	ASN
2	P2	13	GLN
2	P2	29	HIS
2	P2	51	GLN
2	P2	57	ASN
2	Q2	13	GLN
2	Q2	29	HIS
2	Q2	51	GLN
2	Q2	57	ASN
2	R2	13	GLN
2	R2	29	HIS
2	R2	51	GLN
2	R2	57	ASN
2	S2	13	GLN
2	S2	29	HIS
2	S2	51	GLN
2	S2	57	ASN
2	T2	13	GLN
2	T2	29	HIS
2	T2	51	GLN
2	T2	57	ASN
2	U2	13	GLN
2	U2	29	HIS
2	U2	51	GLN
2	U2	57	ASN
2	V2	13	GLN
2	V2	29	HIS
2	V2	51	GLN
2	V2	57	ASN
2	W2	13	GLN
2	W2	29	HIS
2	W2	51	GLN
2	W2	57	ASN
2	X2	13	GLN
2	X2	29	HIS
2	X2	51	GLN
2	X2	57	ASN
2	Y2	13	GLN
2	Y2	29	HIS

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Mol	Chain	Res	Type
2	Y2	51	GLN
2	Y2	57	ASN
2	Z2	13	GLN
2	Z2	29	HIS
2	Z2	51	GLN
2	Z2	57	ASN
2	a2	13	GLN
2	a2	29	HIS
2	a2	51	GLN
2	a2	57	ASN
2	b2	13	GLN
2	b2	29	HIS
2	b2	51	GLN
2	b2	57	ASN
2	c2	13	GLN
2	c2	29	HIS
2	c2	51	GLN
2	c2	57	ASN
2	d2	13	GLN
2	d2	29	HIS
2	d2	51	GLN
2	d2	57	ASN
2	e2	13	GLN
2	e2	29	HIS
2	e2	51	GLN
2	e2	57	ASN
2	f2	13	GLN
2	f2	29	HIS
2	f2	51	GLN
2	f2	57	ASN
2	g2	13	GLN
2	g2	29	HIS
2	g2	51	GLN
2	g2	57	ASN
2	h2	13	GLN
2	h2	29	HIS
2	h2	51	GLN
2	h2	57	ASN
2	i2	13	GLN
2	i2	29	HIS
2	i2	51	GLN
2	i2	57	ASN

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Mol	Chain	Res	Type
2	j2	13	GLN
2	j2	29	HIS
2	j2	51	GLN
2	j2	57	ASN
2	k2	13	GLN
2	k2	29	HIS
2	k2	51	GLN
2	k2	57	ASN
2	l2	13	GLN
2	l2	29	HIS
2	l2	51	GLN
2	l2	57	ASN
2	m2	13	GLN
2	m2	29	HIS
2	m2	51	GLN
2	m2	57	ASN
2	n2	13	GLN
2	n2	29	HIS
2	n2	51	GLN
2	n2	57	ASN
2	o2	13	GLN
2	o2	29	HIS
2	o2	51	GLN
2	o2	57	ASN
2	p2	13	GLN
2	p2	29	HIS
2	p2	51	GLN
2	p2	57	ASN
2	q2	13	GLN
2	q2	29	HIS
2	q2	51	GLN
2	q2	57	ASN
2	r2	13	GLN
2	r2	29	HIS
2	r2	51	GLN
2	r2	57	ASN
2	s2	13	GLN
2	s2	29	HIS
2	s2	51	GLN
2	s2	57	ASN
2	t2	13	GLN
2	t2	29	HIS

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Mol	Chain	Res	Type
2	t2	51	GLN
2	t2	57	ASN
2	u2	13	GLN
2	u2	29	HIS
2	u2	51	GLN
2	u2	57	ASN
2	v2	13	GLN
2	v2	29	HIS
2	v2	51	GLN
2	v2	57	ASN
2	w2	13	GLN
2	w2	29	HIS
2	w2	51	GLN
2	w2	57	ASN
2	x2	13	GLN
2	x2	29	HIS
2	x2	51	GLN
2	x2	57	ASN
2	y2	13	GLN
2	y2	29	HIS
2	y2	51	GLN
2	y2	57	ASN
2	z2	13	GLN
2	z2	29	HIS
2	z2	51	GLN
2	z2	57	ASN
2	12	13	GLN
2	12	51	GLN
2	12	57	ASN
2	22	13	GLN
2	22	29	HIS
2	22	51	GLN
2	22	57	ASN
2	32	13	GLN
2	32	29	HIS
2	32	51	GLN
2	32	57	ASN
2	42	13	GLN
2	42	29	HIS
2	42	51	GLN
2	42	57	ASN
2	52	13	GLN

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Mol	Chain	Res	Type
2	52	29	HIS
2	52	51	GLN
2	52	57	ASN
2	62	13	GLN
2	62	29	HIS
2	62	51	GLN
2	62	57	ASN
2	72	13	GLN
2	72	29	HIS
2	72	51	GLN
2	72	57	ASN
2	82	13	GLN
2	82	29	HIS
2	82	51	GLN
2	82	57	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.

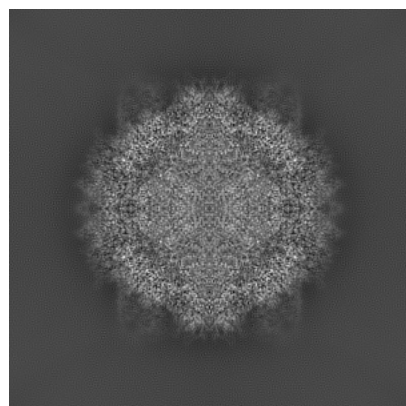
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-46741. These allow visual inspection of the internal detail of the map and identification of artifacts.

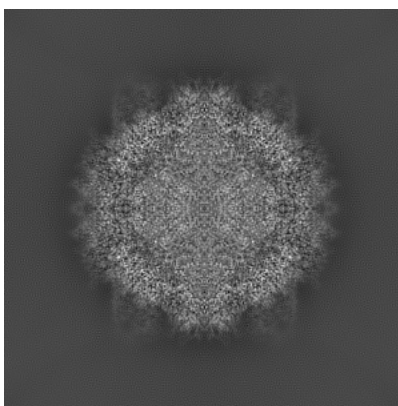
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

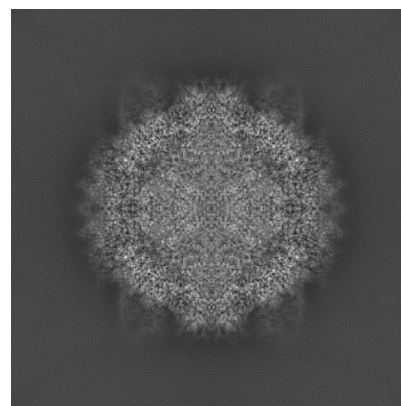
6.1.1 Primary map



X

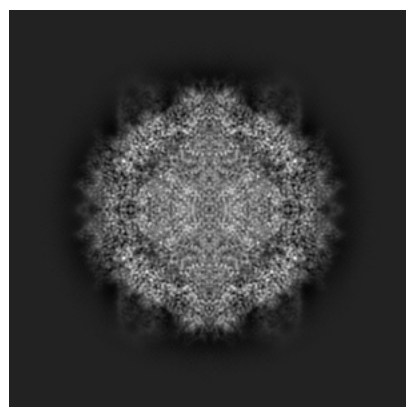


Y

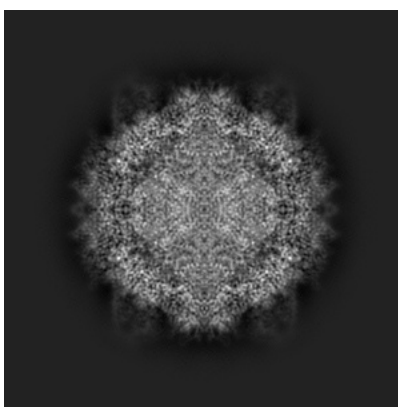


Z

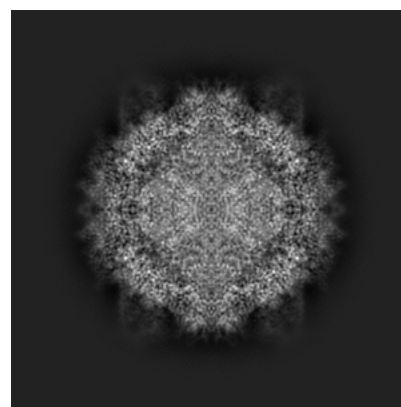
6.1.2 Raw map



X



Y

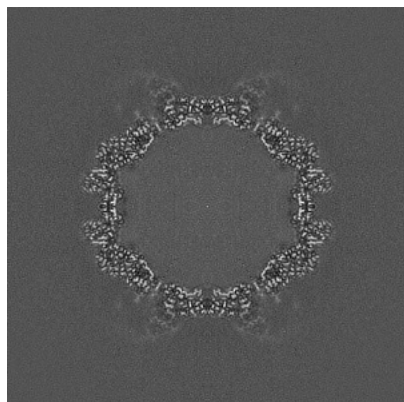


Z

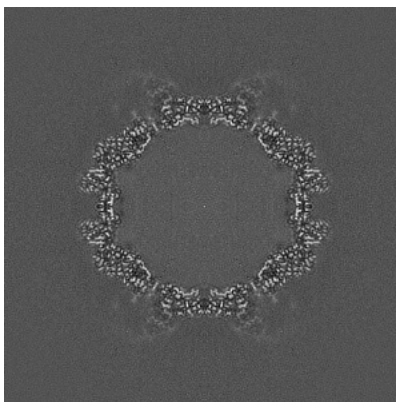
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

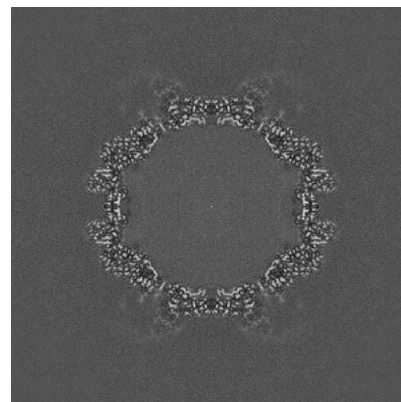
6.2.1 Primary map



X Index: 250

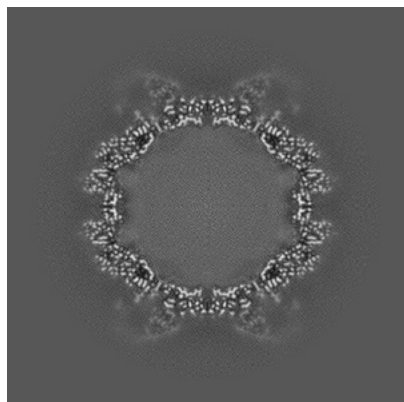


Y Index: 250

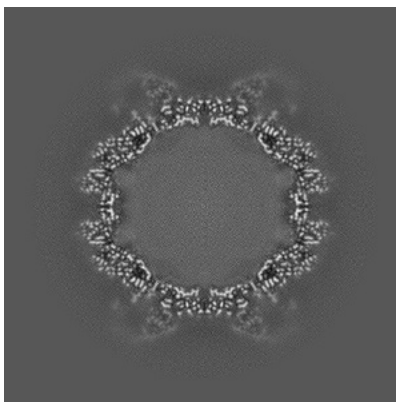


Z Index: 250

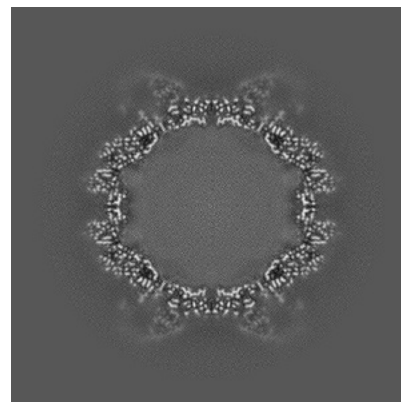
6.2.2 Raw map



X Index: 250



Y Index: 250

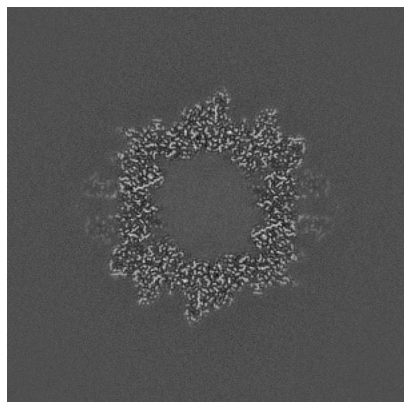


Z Index: 250

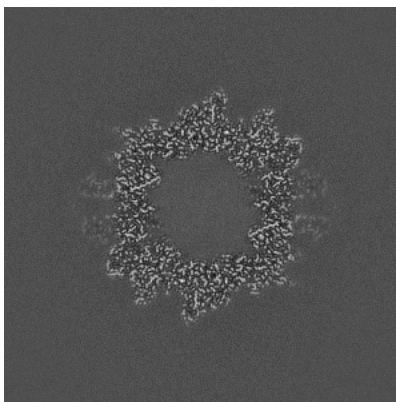
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

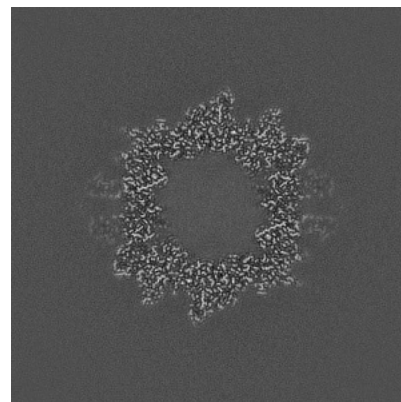
6.3.1 Primary map



X Index: 329

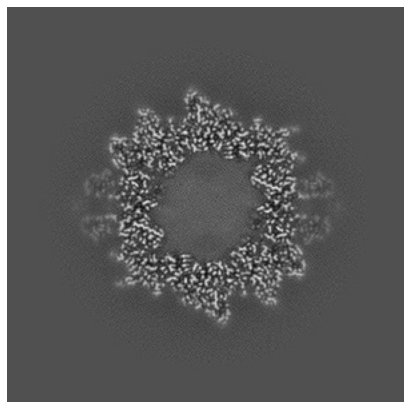


Y Index: 329

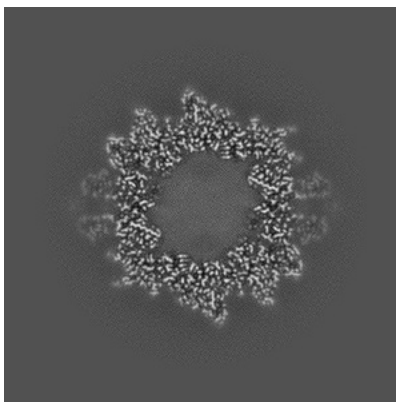


Z Index: 329

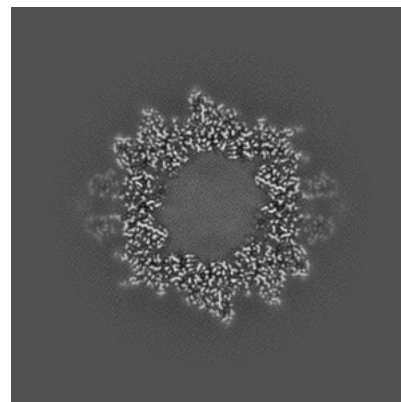
6.3.2 Raw map



X Index: 171



Y Index: 171

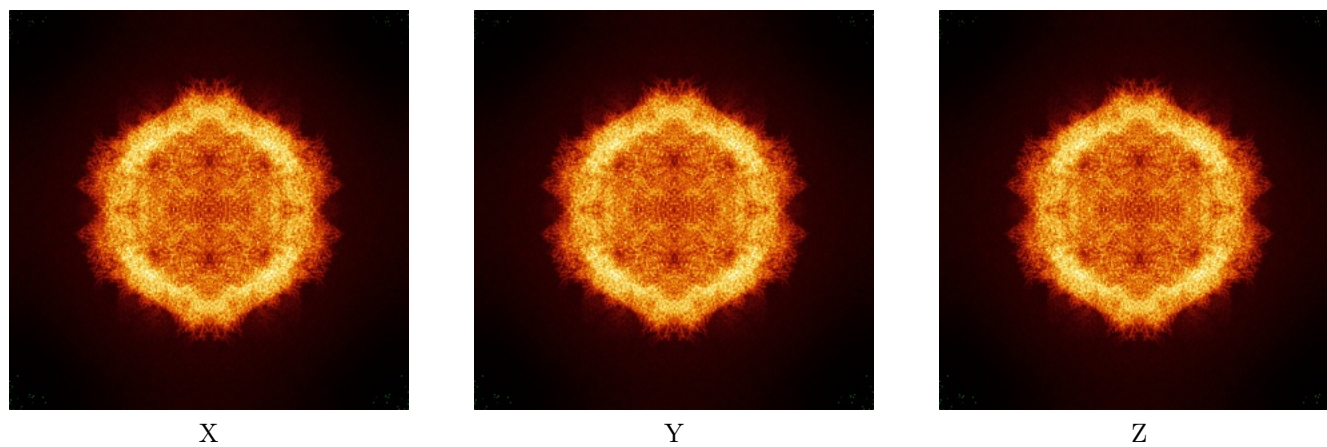


Z Index: 171

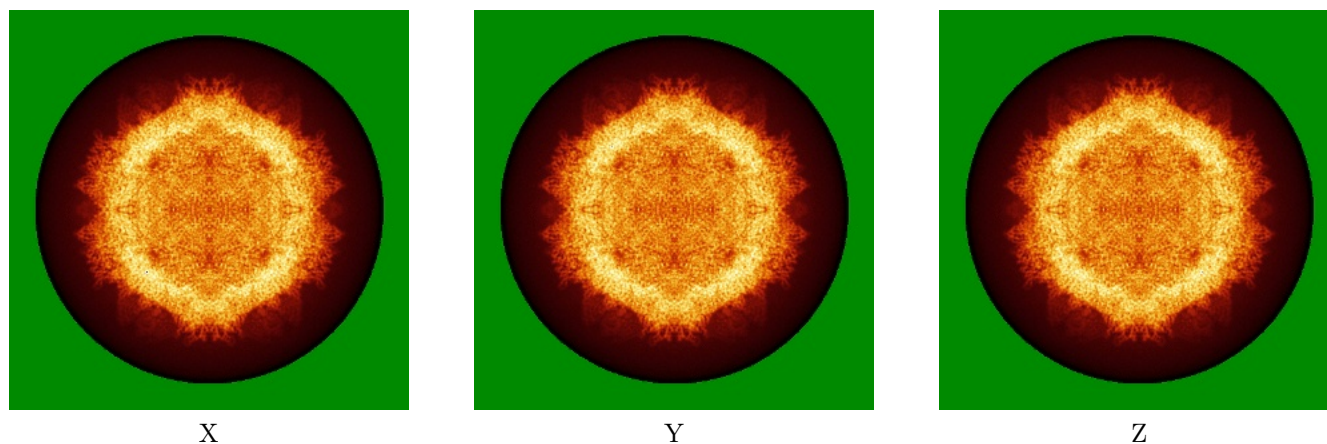
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



6.4.2 Raw map



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](#)

This section was not generated.

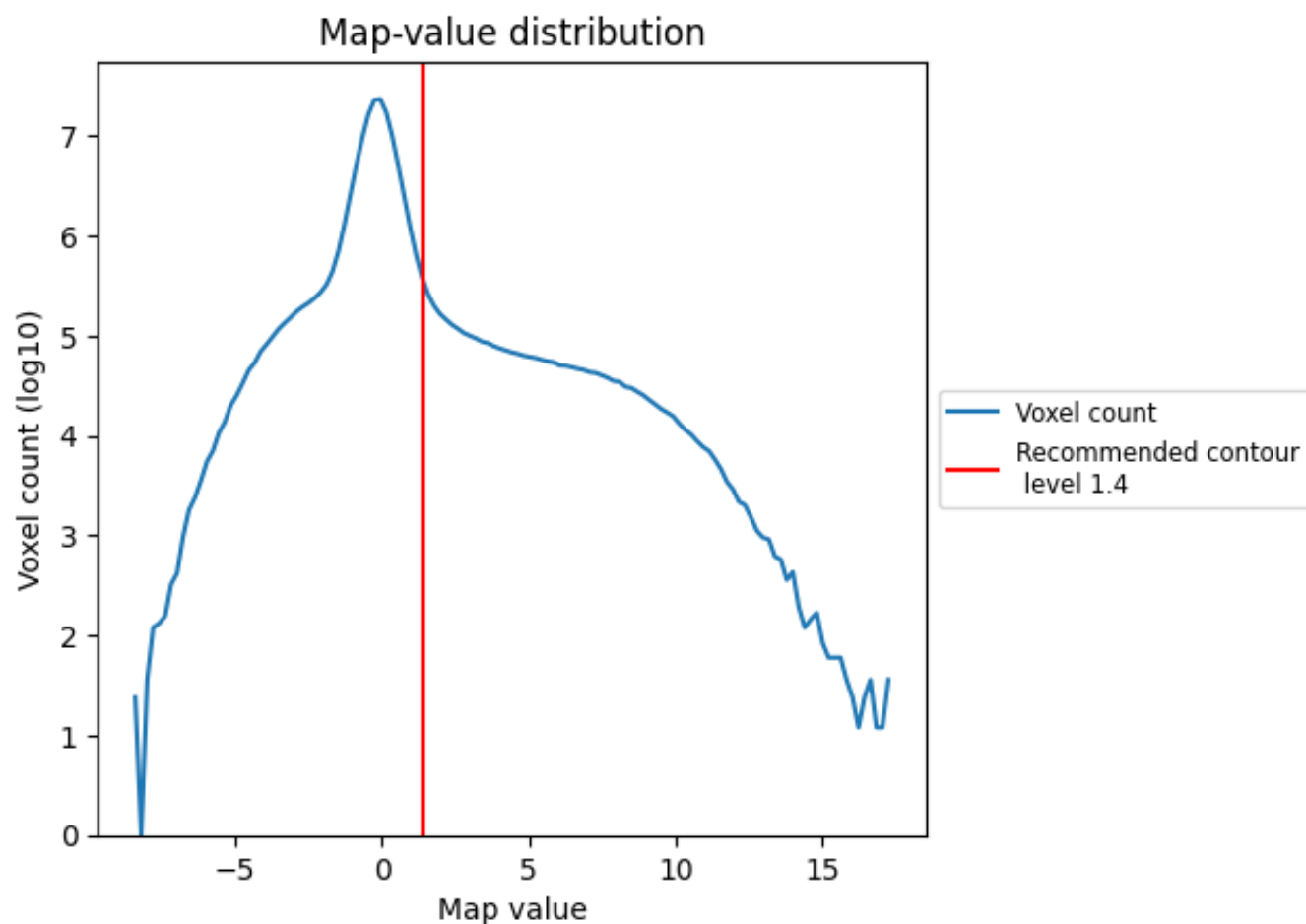
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

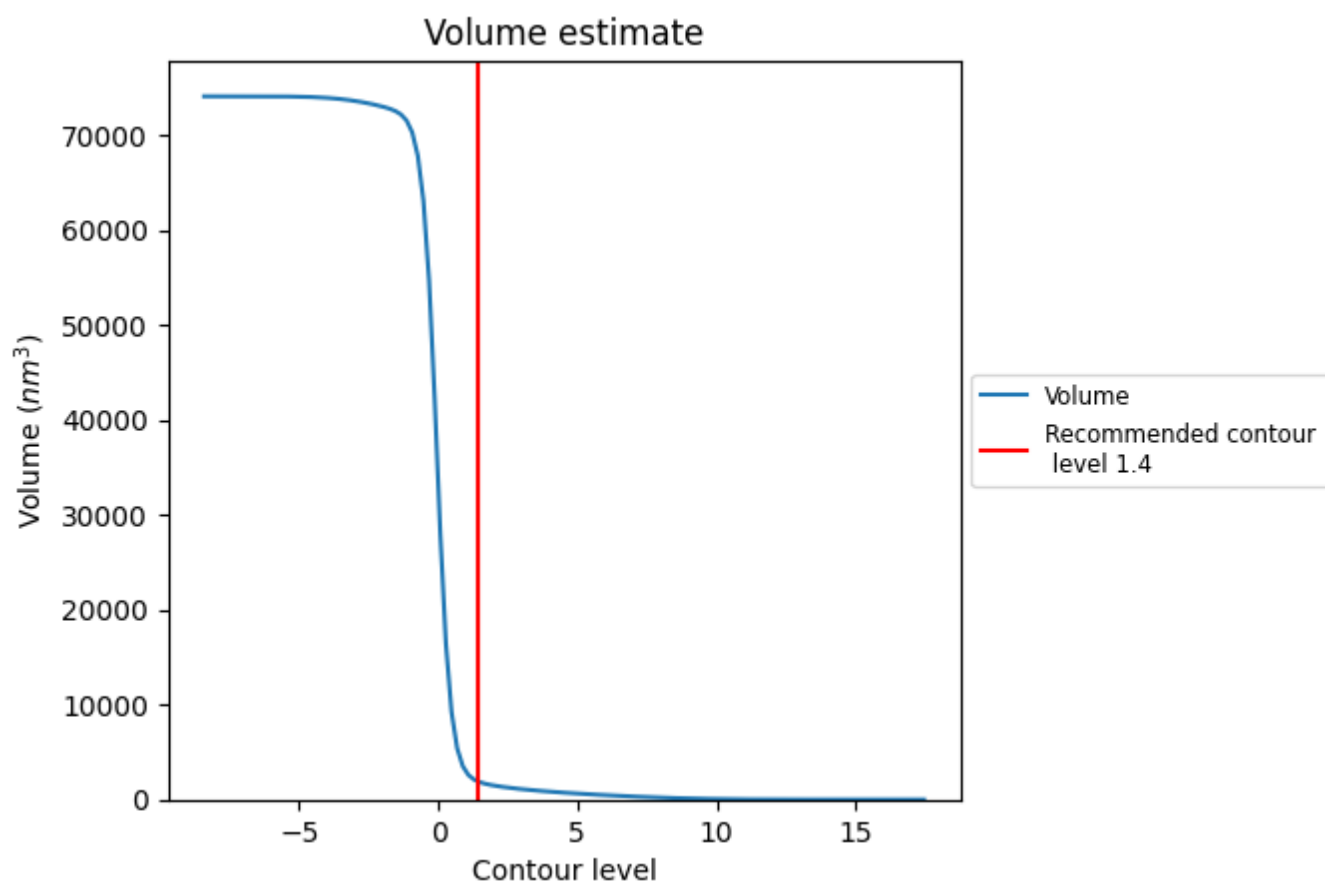
This section contains the results of statistical analysis of the map.

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.

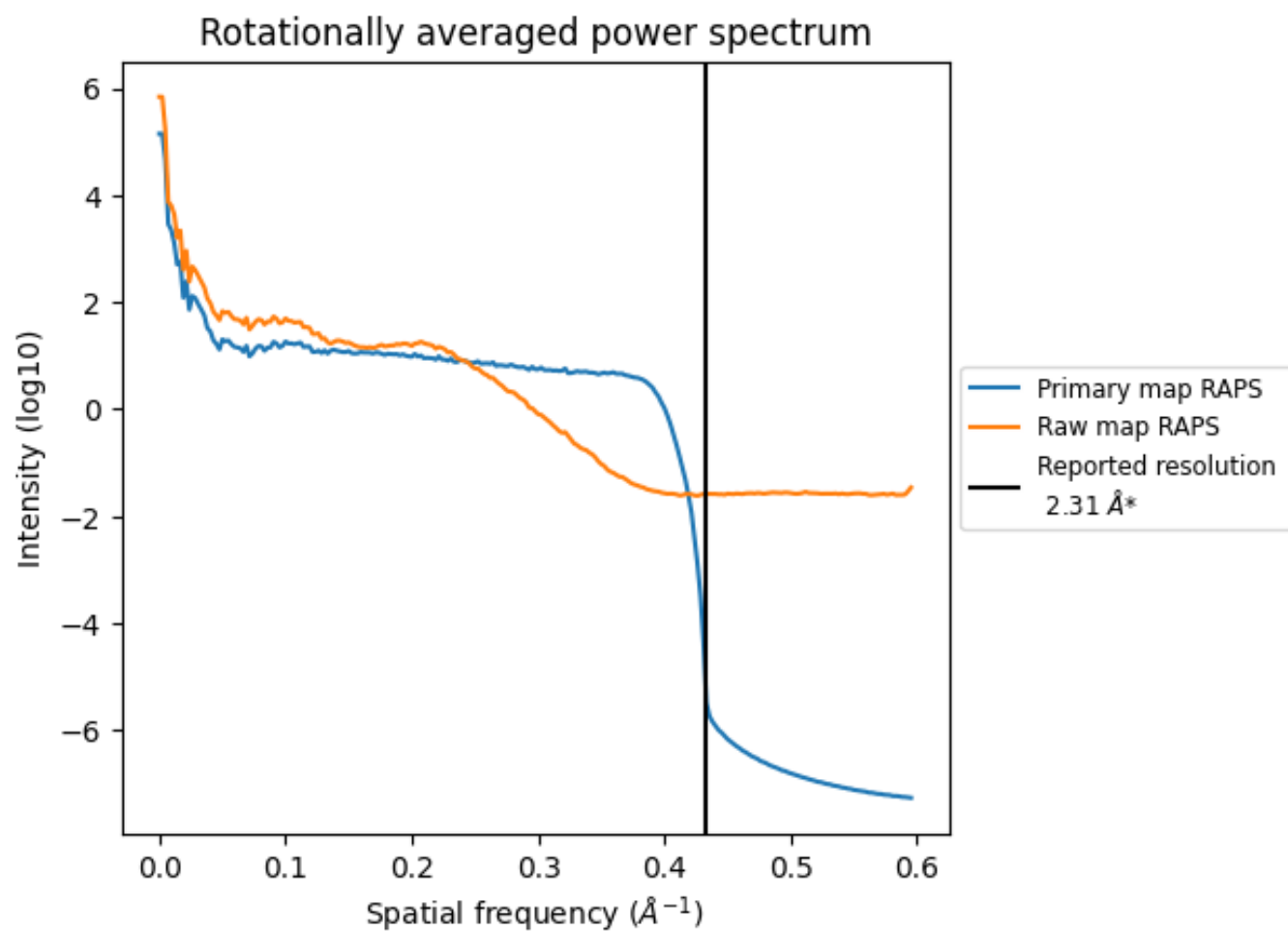
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1963 nm³; this corresponds to an approximate mass of 1773 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 ⓘ

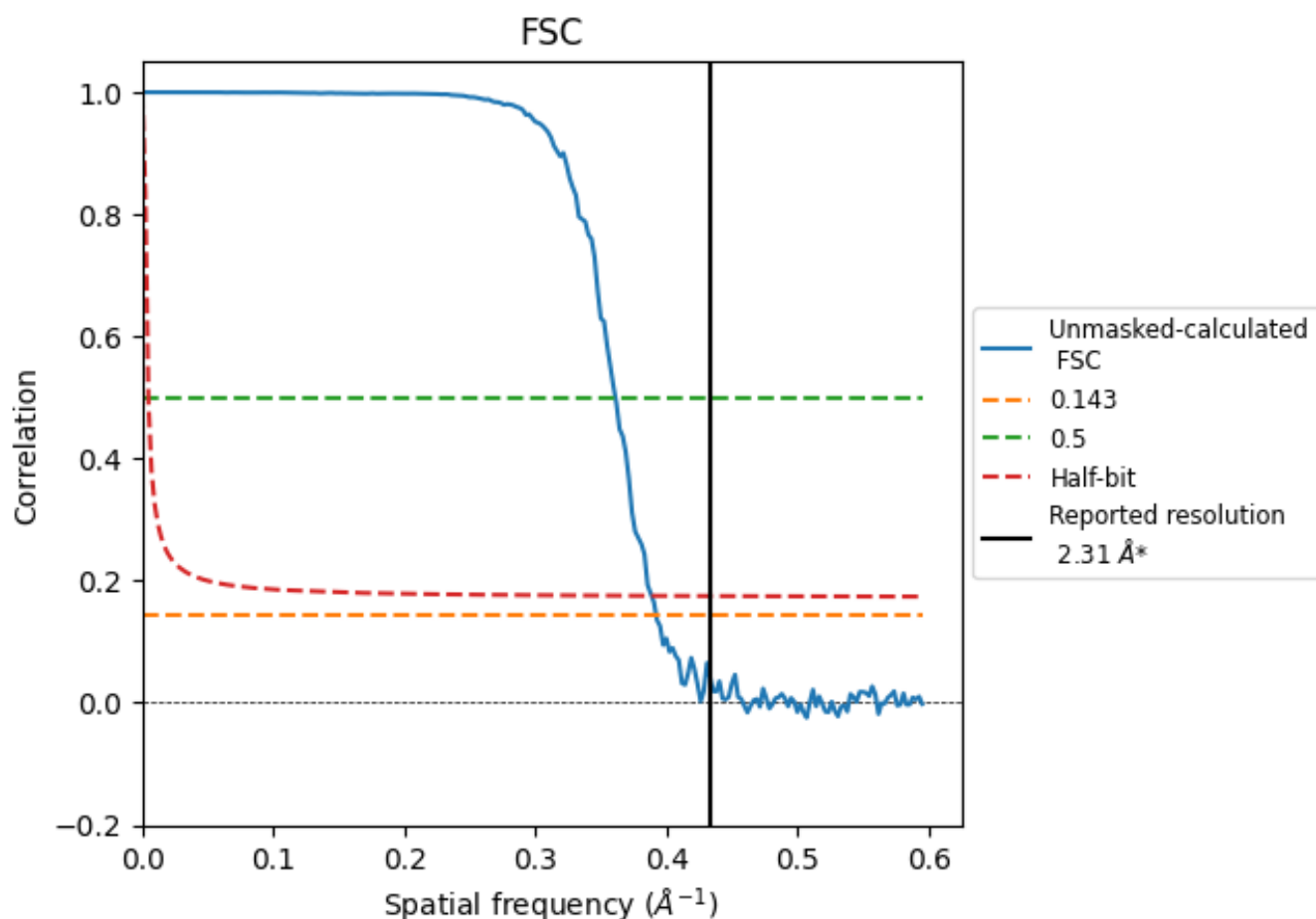


*Reported resolution corresponds to spatial frequency of 0.433 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.433 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.31	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.55	2.77	2.57

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.55 differs from the reported value 2.31 by more than 10 %

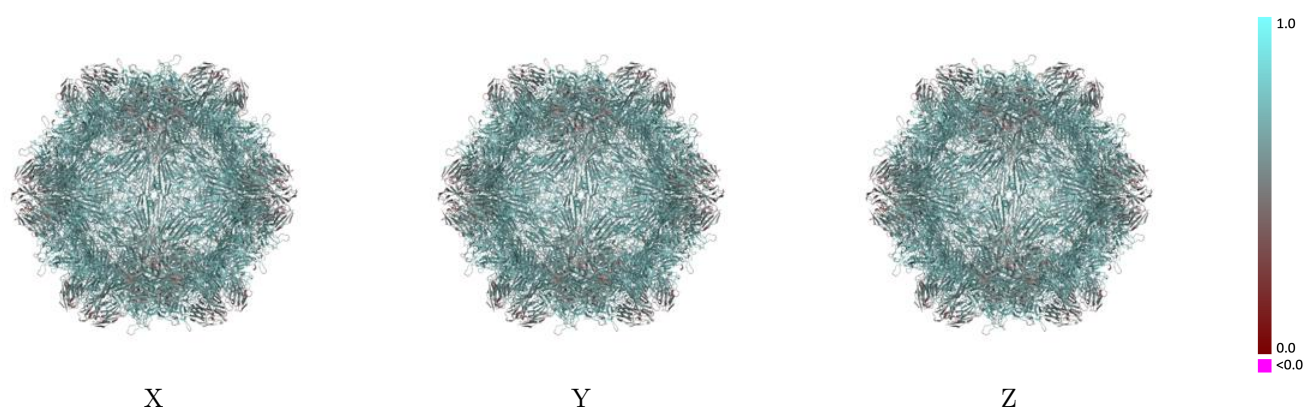
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-46741 and PDB model 9DC3. Per-residue inclusion information can be found in section 3 on page 14.

9.1 Map-model overlay [i](#)

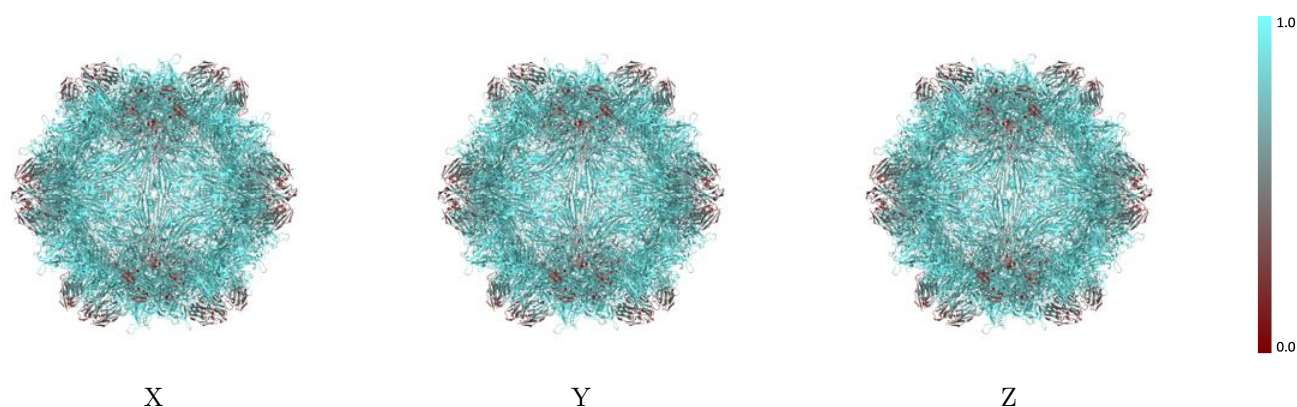
This section was not generated.

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



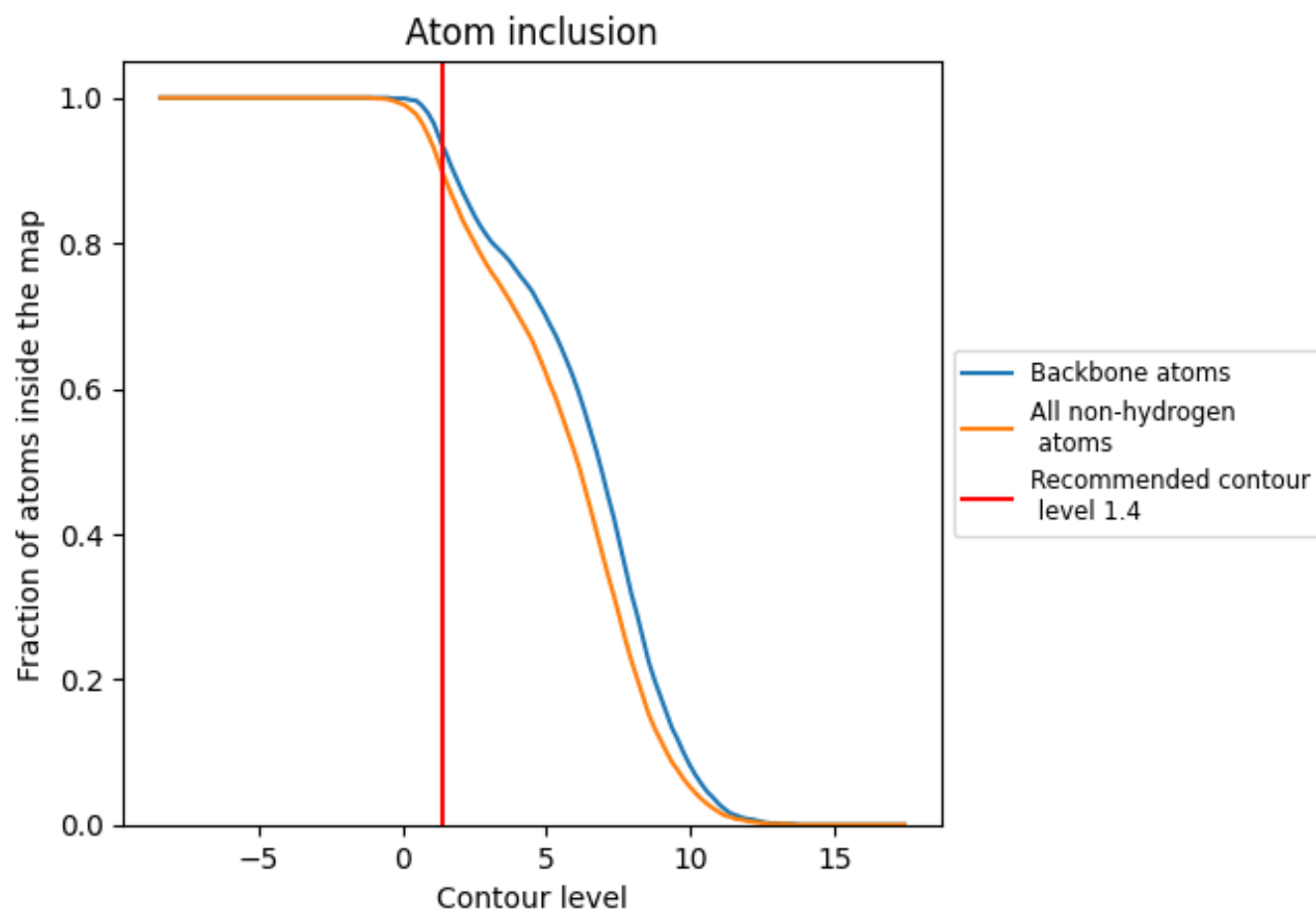
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (1.4).

9.4 Atom inclusion [i](#)



At the recommended contour level, 93% of all backbone atoms, 90% 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 (1.4) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8960	 0.6610
1	 0.9740	 0.6920
12	 0.5520	 0.5200
2	 0.9740	 0.6920
22	 0.5580	 0.5250
3	 0.9750	 0.6920
32	 0.5540	 0.5270
4	 0.9750	 0.6910
42	 0.5540	 0.5270
5	 0.9740	 0.6910
52	 0.5550	 0.5280
6	 0.9740	 0.6930
62	 0.5580	 0.5240
7	 0.9730	 0.6910
72	 0.5610	 0.5250
8	 0.9730	 0.6920
82	 0.5610	 0.5240
A	 0.9740	 0.6920
A2	 0.5580	 0.5290
B	 0.9730	 0.6910
B2	 0.5540	 0.5270
C	 0.9740	 0.6920
C2	 0.5560	 0.5240
D	 0.9730	 0.6920
D2	 0.5600	 0.5260
E	 0.9750	 0.6920
E2	 0.5540	 0.5260
F	 0.9750	 0.6910
F2	 0.5540	 0.5230
G	 0.9730	 0.6910
G2	 0.5610	 0.5220
H	 0.9730	 0.6910
H2	 0.5610	 0.5260
I	 0.9740	 0.6910
I2	 0.5550	 0.5250



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Chain	Atom inclusion	Q-score
J	 0.9730	 0.6910
J2	 0.5540	 0.5260
K	 0.9740	 0.6920
K2	 0.5550	 0.5270
L	 0.9730	 0.6910
L2	 0.5540	 0.5250
M	 0.9730	 0.6910
M2	 0.5600	 0.5250
N	 0.9740	 0.6920
N2	 0.5560	 0.5260
O	 0.9730	 0.6910
O2	 0.5540	 0.5280
P	 0.9740	 0.6920
P2	 0.5580	 0.5260
Q	 0.9750	 0.6920
Q2	 0.5540	 0.5280
R	 0.9740	 0.6920
R2	 0.5580	 0.5260
S	 0.9730	 0.6920
S2	 0.5610	 0.5250
T	 0.9730	 0.6910
T2	 0.5600	 0.5230
U	 0.9740	 0.6910
U2	 0.5550	 0.5270
V	 0.9730	 0.6910
V2	 0.5540	 0.5260
W	 0.9740	 0.6900
W2	 0.5560	 0.5260
X	 0.9730	 0.6910
X2	 0.5550	 0.5250
Y	 0.9740	 0.6910
Y2	 0.5580	 0.5280
Z	 0.9750	 0.6910
Z2	 0.5540	 0.5250
a	 0.9740	 0.6920
a2	 0.5580	 0.5250
b	 0.9740	 0.6920
b2	 0.5580	 0.5270
c	 0.9750	 0.6910
c2	 0.5540	 0.5270
d	 0.9740	 0.6910
d2	 0.5550	 0.5240

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Chain	Atom inclusion	Q-score
e	 0.9730	 0.6910
e2	 0.5540	 0.5280
f	 0.9740	 0.6920
f2	 0.5560	 0.5240
g	 0.9730	 0.6910
g2	 0.5610	 0.5270
h	 0.9740	 0.6920
h2	 0.5580	 0.5250
i	 0.9750	 0.6920
i2	 0.5540	 0.5280
j	 0.9750	 0.6920
j2	 0.5540	 0.5240
k	 0.9750	 0.6920
k2	 0.5540	 0.5270
l	 0.9740	 0.6920
l2	 0.5580	 0.5270
m	 0.9730	 0.6910
m2	 0.5540	 0.5240
n	 0.9730	 0.6910
n2	 0.5520	 0.5260
o	 0.9750	 0.6920
o2	 0.5540	 0.5260
p	 0.9750	 0.6900
p2	 0.5540	 0.5250
q	 0.9730	 0.6910
q2	 0.5600	 0.5250
r	 0.9740	 0.6900
r2	 0.5550	 0.5250
s	 0.9740	 0.6910
s2	 0.5580	 0.5280
t	 0.9730	 0.6910
t2	 0.5540	 0.5250
u	 0.9730	 0.6910
u2	 0.5540	 0.5240
v	 0.9730	 0.6910
v2	 0.5560	 0.5270
w	 0.9740	 0.6920
w2	 0.5580	 0.5270
x	 0.9730	 0.6910
x2	 0.5610	 0.5250
y	 0.9740	 0.6900
y2	 0.5550	 0.5270

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Chain	Atom inclusion	Q-score
z	 0.9730	 0.6910
z2	 0.5610	 0.5250