Full wwPDB EM Validation Report ⓘ

Sep 21, 2026 – 05:10 PM EDT

PDB ID	:	12UU / pdb_000012uu
EMDB ID	:	EMD-76772
Title	:	The AAV2 capsid in complex with IgG-Fab#3-4
Authors	:	Zachery, J.; Mietzsch, M.; McKenna, R.
Deposited on	:	2026-04-20
Resolution	:	2.91 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:

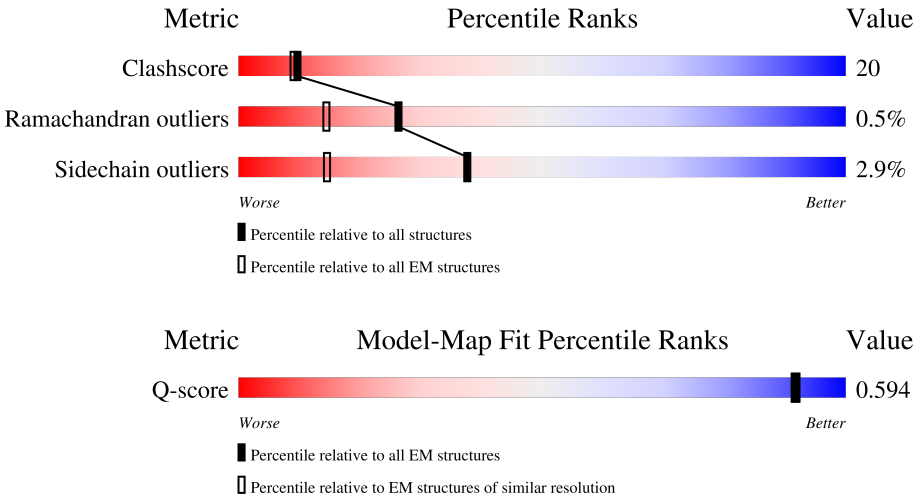
EMDB validation analysis	:	0.0.1.dev133
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.91 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	12972 (2.41 - 3.41)

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

Mol	Chain	Length	Quality of chain
1	1	533	78% 17%
1	2	533	78% 17%
1	3	533	77% 17%
1	4	533	78% 17%

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Mol	Chain	Length	Quality of chain
1	5	533	78% 17%
1	6	533	77% 18%
1	7	533	78% 17%
1	8	533	78% 17%
1	A	533	77% 18%
1	B	533	77% 17%
1	C	533	78% 17%
1	D	533	77% 17%
1	E	533	77% 17%
1	F	533	78% 17%
1	G	533	77% 17%
1	H	533	77% 17%
1	I	533	77% 17%
1	J	533	78% 17%
1	K	533	78% 17%
1	L	533	77% 17%
1	M	533	77% 18%
1	N	533	77% 18%
1	O	533	77% 17%
1	P	533	77% 17%
1	Q	533	78% 17%
1	R	533	77% 18%
1	S	533	78% 17%
1	T	533	77% 17%
1	U	533	77% 17%

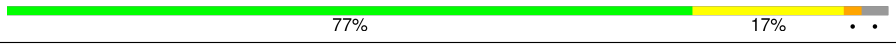
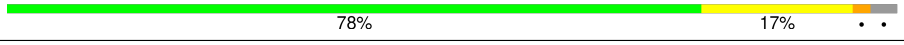
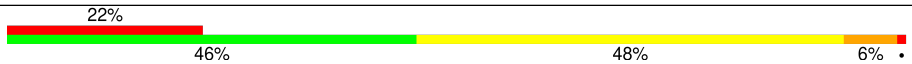
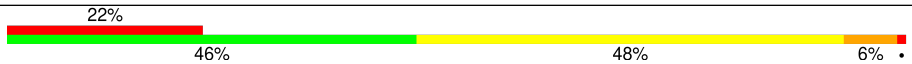
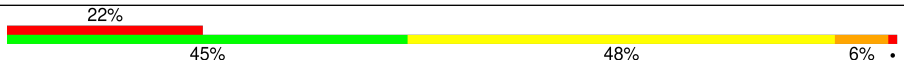
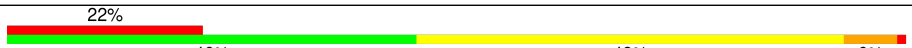
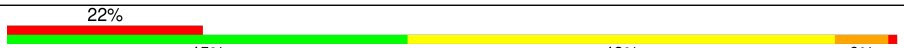
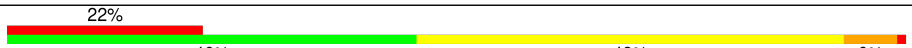
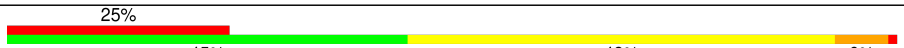
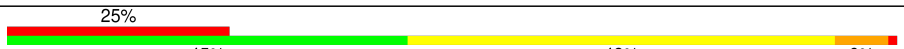
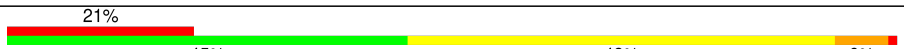
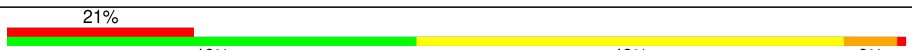
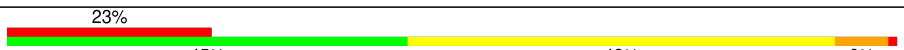
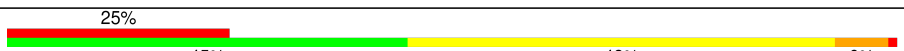
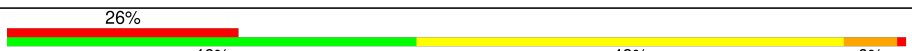
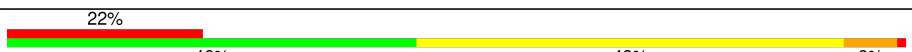
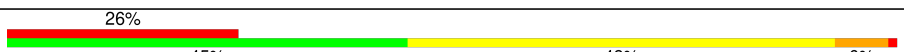
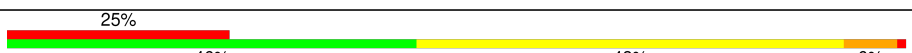
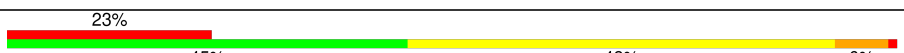
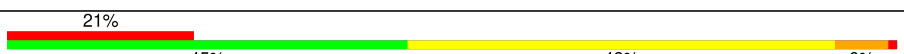
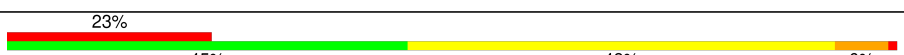
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Mol	Chain	Length	Quality of chain
1	V	533	77% 17%
1	W	533	78% 17%
1	X	533	77% 17%
1	Y	533	78% 17%
1	Z	533	78% 17%
1	a	533	78% 17%
1	b	533	77% 18%
1	c	533	77% 18%
1	d	533	77% 17%
1	e	533	77% 17%
1	f	533	78% 17%
1	g	533	77% 17%
1	h	533	77% 17%
1	i	533	78% 17%
1	j	533	77% 17%
1	k	533	77% 17%
1	l	533	78% 17%
1	m	533	77% 17%
1	n	533	78% 17%
1	o	533	78% 17%
1	p	533	77% 17%
1	q	533	77% 17%
1	r	533	78% 17%
1	s	533	77% 17%
1	t	533	77% 17%

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Mol	Chain	Length	Quality of chain
1	u	533	
1	v	533	
1	w	533	
1	x	533	
1	y	533	
1	z	533	
2	1h	125	
2	2h	125	
2	3h	125	
2	4h	125	
2	5h	125	
2	6h	125	
2	7h	125	
2	8h	125	
2	Ah	125	
2	Bh	125	
2	Ch	125	
2	Dh	125	
2	Eh	125	
2	Fh	125	
2	Gh	125	
2	Hh	125	
2	Ih	125	
2	Jh	125	
2	Kh	125	

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Mol	Chain	Length	Quality of chain
2	Lh	125	21% 46% 48% 6%
2	Mh	125	26% 45% 48% 6%
2	Nh	125	25% 45% 48% 6%
2	Oh	125	25% 46% 48% 6%
2	Ph	125	25% 45% 48% 6%
2	Qh	125	23% 45% 48% 6%
2	Rh	125	21% 45% 48% 6%
2	Sh	125	21% 45% 48% 6%
2	Th	125	23% 45% 48% 6%
2	Uh	125	21% 46% 48% 6%
2	Vh	125	23% 45% 48% 6%
2	Wh	125	25% 45% 48% 6%
2	Xh	125	26% 45% 48% 6%
2	Yh	125	25% 45% 48% 6%
2	Zh	125	25% 45% 48% 6%
2	ah	125	23% 45% 48% 6%
2	bh	125	26% 45% 48% 6%
2	ch	125	25% 45% 48% 6%
2	dh	125	25% 46% 47% 6%
2	eh	125	25% 45% 48% 6%
2	fh	125	25% 46% 48% 6%
2	gh	125	23% 45% 48% 6%
2	hh	125	22% 46% 48% 6%
2	ih	125	26% 45% 48% 6%
2	jh	125	23% 45% 48% 6%

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Mol	Chain	Length	Quality of chain
2	kh	125	21% 45% 48% 6%
2	lh	125	21% 45% 48% 6%
2	mh	125	21% 45% 48% 6%
2	nh	125	26% 45% 48% 6%
2	oh	125	23% 45% 48% 6%
2	ph	125	22% 45% 48% 6%
2	qh	125	26% 46% 48% 6%
2	rh	125	23% 45% 48% 6%
2	sh	125	22% 46% 48% 6%
2	th	125	21% 46% 48% 6%
2	uh	125	21% 46% 48% 6%
2	vh	125	21% 45% 48% 6%
2	wh	125	22% 46% 48% 6%
2	xh	125	23% 45% 48% 6%
2	yh	125	25% 46% 48% 6%
2	zh	125	25% 45% 48% 6%
3	1l	107	21% 60% 36%
3	2l	107	21% 61% 36%
3	3l	107	21% 62% 33% 6%
3	4l	107	21% 59% 36% 6%
3	5l	107	21% 62% 33% 6%
3	6l	107	21% 61% 36%
3	7l	107	21% 60% 36% 5%
3	8l	107	23% 62% 34% 5%
3	Al	107	18% 61% 34% 6%

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Mol	Chain	Length	Quality of chain
3	Bl	107	20% 61% 34% 6%
3	Cl	107	19% 59% 36% 6%
3	Dl	107	21% 61% 35% 5%
3	El	107	23% 60% 36% 5%
3	Fl	107	21% 61% 35% 5%
3	Gl	107	23% 61% 35% 5%
3	Hl	107	21% 61% 35% 5%
3	Il	107	19% 60% 35% 6%
3	Jl	107	20% 59% 36% 6%
3	Kl	107	19% 61% 34% 6%
3	Ll	107	20% 60% 36%
3	Ml	107	23% 59% 36% 6%
3	Nl	107	21% 62% 34% 5%
3	Ol	107	23% 61% 35% 5%
3	Pl	107	21% 61% 36%
3	Ql	107	19% 62% 36%
3	Rl	107	20% 59% 36% 5%
3	Sl	107	20% 58% 36% 6%
3	Tl	107	19% 61% 35% 5%
3	Ul	107	20% 63% 33% 5%
3	Vl	107	19% 60% 35% 6%
3	Wl	107	21% 60% 35% 6%
3	Xl	107	23% 60% 36% 5%
3	Yl	107	21% 60% 36% 5%
3	Zl	107	23% 62% 35%

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Mol	Chain	Length	Quality of chain
3	al	107	19% 59% 36% 6%
3	bl	107	23% 61% 35% 5%
3	cl	107	21% 62% 34% 5%
3	dl	107	21% 61% 36%
3	el	107	21% 60% 36% 5%
3	fl	107	23% 61% 35% 5%
3	gl	107	19% 61% 35% 5%
3	hl	107	21% 59% 36% 6%
3	il	107	23% 60% 36% 5%
3	jl	107	19% 60% 35% 6%
3	kl	107	20% 61% 35% 5%
3	ll	107	20% 58% 36% 6%
3	ml	107	20% 63% 33% 5%
3	nl	107	23% 61% 36%
3	ol	107	19% 60% 35% 6%
3	pl	107	21% 62% 33% 6%
3	ql	107	23% 60% 36% 5%
3	rl	107	19% 60% 37%
3	sl	107	21% 60% 35% 6%
3	tl	107	20% 60% 36% 5%
3	ul	107	20% 61% 35% 5%
3	vl	107	20% 59% 36% 6%
3	wl	107	21% 60% 35% 6%
3	xl	107	19% 61% 34% 6%
3	yl	107	21% 59% 36% 6%

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Mol	Chain	Length	Quality of chain
3	zl	107	

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 354540 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 VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	B	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	C	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	D	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	E	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	F	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	G	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	H	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	I	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	J	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	K	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	L	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	M	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	N	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	O	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	P	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	Q	516	Total 4135	C 2603	N 722	O 797	S 13	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	S	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	T	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	U	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	V	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	W	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	X	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	Y	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	Z	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	1	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	2	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	3	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	4	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	5	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	6	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	a	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	b	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	c	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	d	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	e	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	f	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	h	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	i	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	j	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	k	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	l	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	m	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	n	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	o	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	p	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	q	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	r	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	s	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	t	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	u	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	v	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	w	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	x	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	y	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	z	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		
1	7	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	516	Total	C	N	O	S	0	0
			4135	2603	722	797	13		

- Molecule 2 is a protein called IgG Fab3-4 heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Ah	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Bh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Ch	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Dh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Eh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Fh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Gh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Hh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Ih	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Jh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Kh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Lh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Mh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Nh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Oh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Ph	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Qh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Rh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Sh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Th	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Uh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Vh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Wh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Xh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Yh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	Zh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	1h	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	2h	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	3h	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	4h	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	5h	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	6h	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	ah	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	bh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	ch	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	dh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	eh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	fh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	gh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	hh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	ih	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	jh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	kh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	lh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	mh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	nh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	oh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	ph	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	qh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	rh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	sh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	th	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	uh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	vh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	wh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	xh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	yh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	zh	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	7h	125	Total	C	N	O	S	0	0
			989	632	165	187	5		
2	8h	125	Total	C	N	O	S	0	0
			989	632	165	187	5		

- Molecule 3 is a protein called IgG Fab3-4 light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Al	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Bl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Cl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Dl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	El	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Fl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Gl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Hl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Il	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Jl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Kl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Ll	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Ml	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Nl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Ol	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Pl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Ql	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Rl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Sl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Tl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Ul	107	Total	C	N	O	S	0	0
			785	482	135	166	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Vl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Wl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Xl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Yl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	Zl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	1l	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	2l	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	3l	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	4l	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	5l	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	6l	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	al	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	bl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	cl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	dl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	el	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	fl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	gl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	hl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	il	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	jl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		

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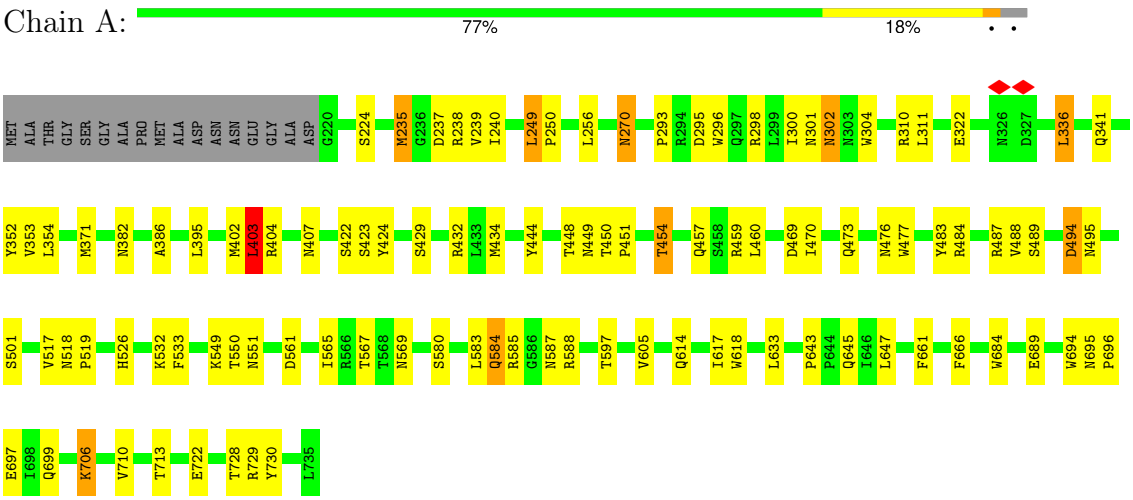
Mol	Chain	Residues	Atoms					AltConf	Trace
3	kl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	ll	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	ml	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	nl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	ol	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	pl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	ql	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	rl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	sl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	tl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	ul	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	vl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	wl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	xl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	yl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	zl	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	7l	107	Total	C	N	O	S	0	0
			785	482	135	166	2		
3	8l	107	Total	C	N	O	S	0	0
			785	482	135	166	2		

3 Residue-property plots (i)

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

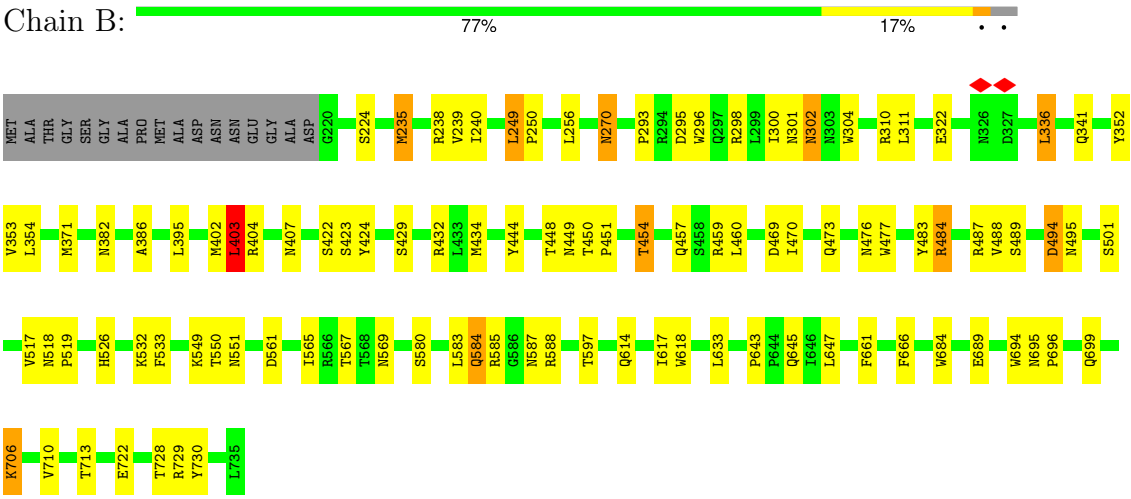
• Molecule 1: Capsid protein VP1

Chain A:



• Molecule 1: Capsid protein VP1

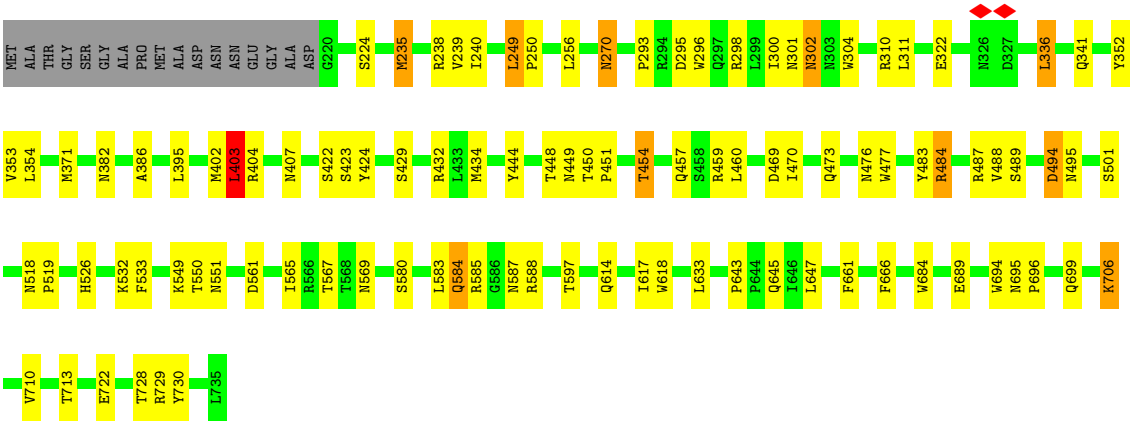
Chain B:



• Molecule 1: Capsid protein VP1

Chain C:

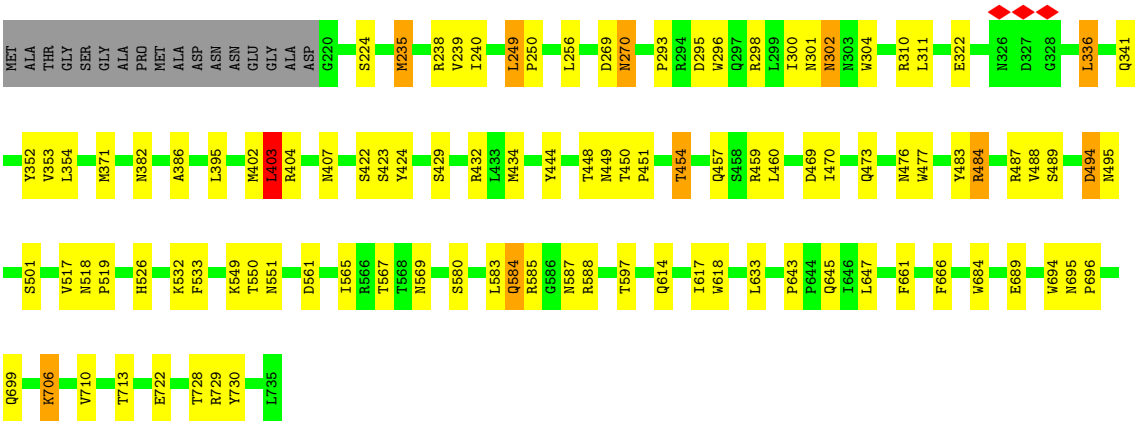




• Molecule 1: Capsid protein VP1

Chain D:

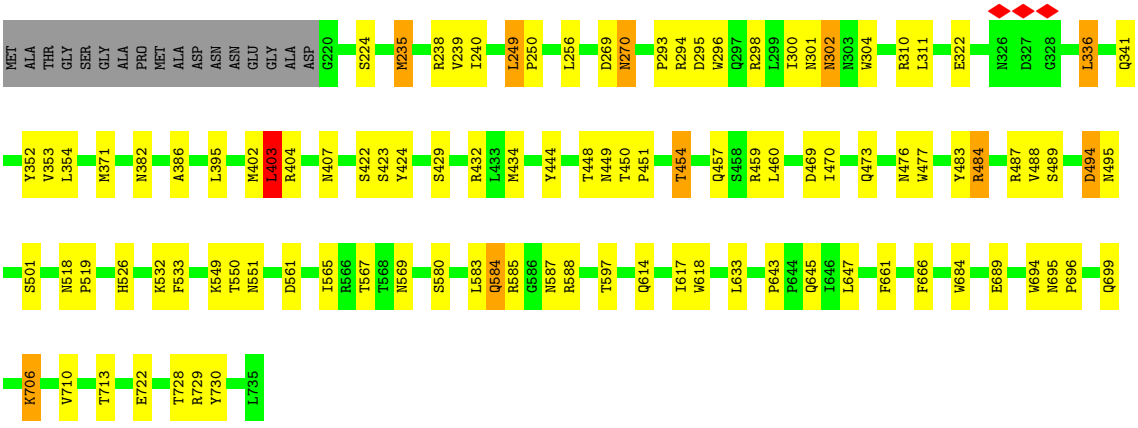




• Molecule 1: Capsid protein VP1

Chain E:

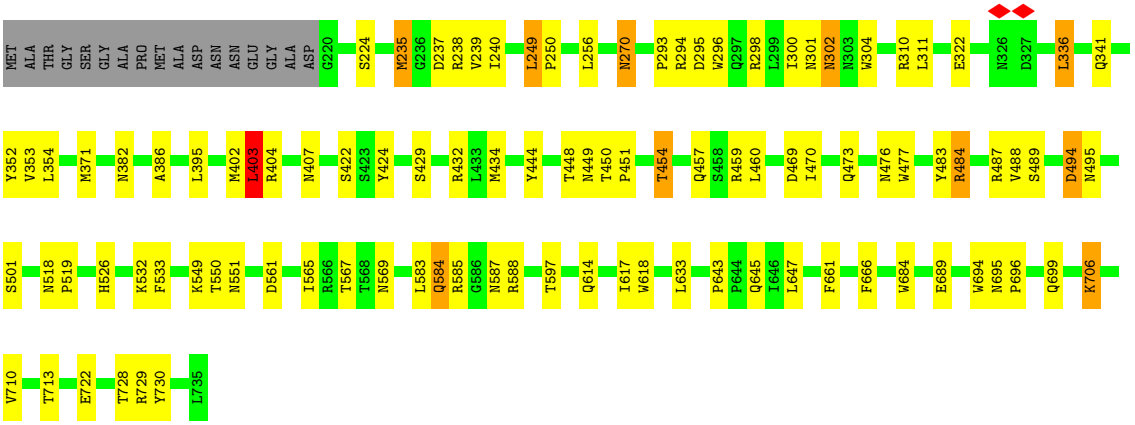




• Molecule 1: Capsid protein VP1

Chain F:

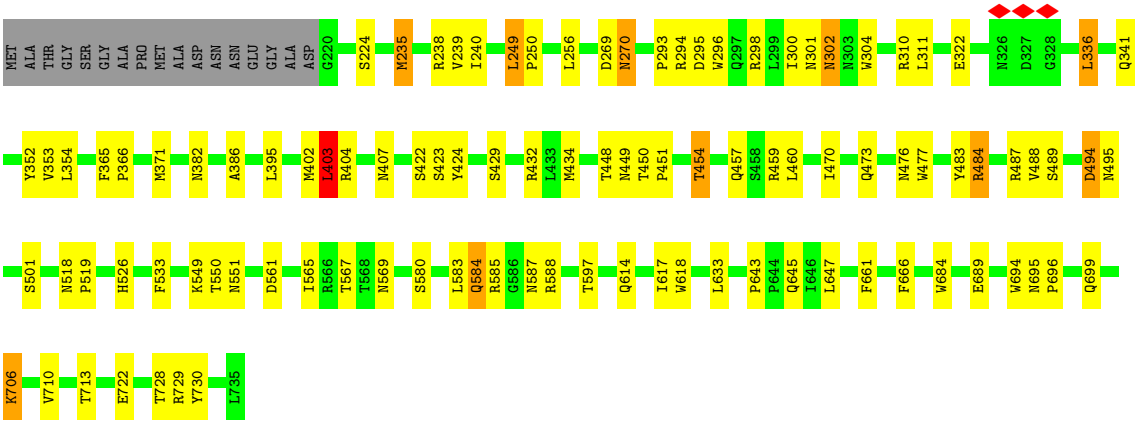




• Molecule 1: Capsid protein VP1

Chain G:

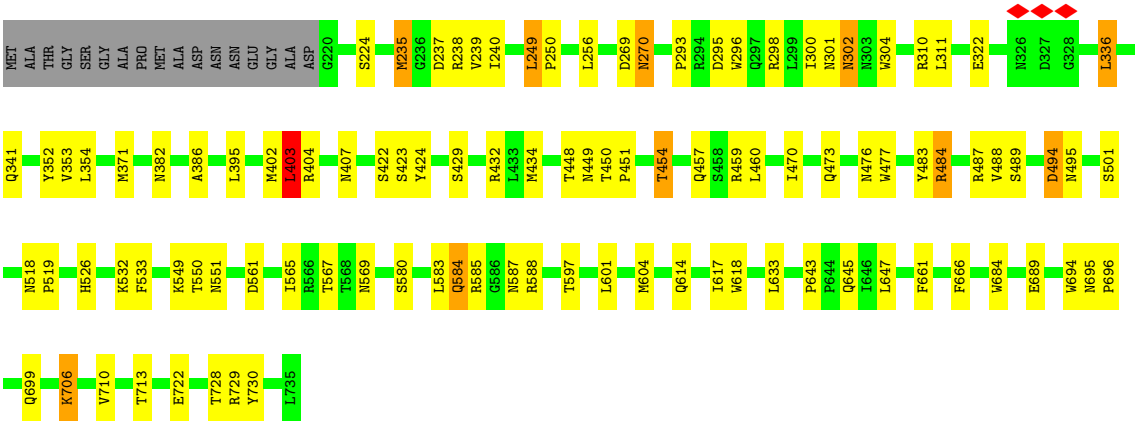




• Molecule 1: Capsid protein VP1

Chain H:

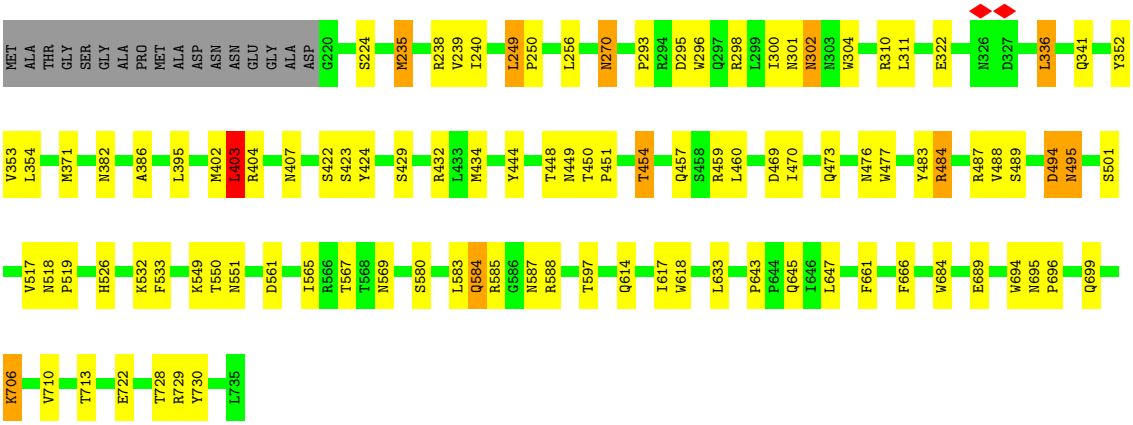




• Molecule 1: Capsid protein VP1

Chain I:





• Molecule 1: Capsid protein VP1

Chain J:

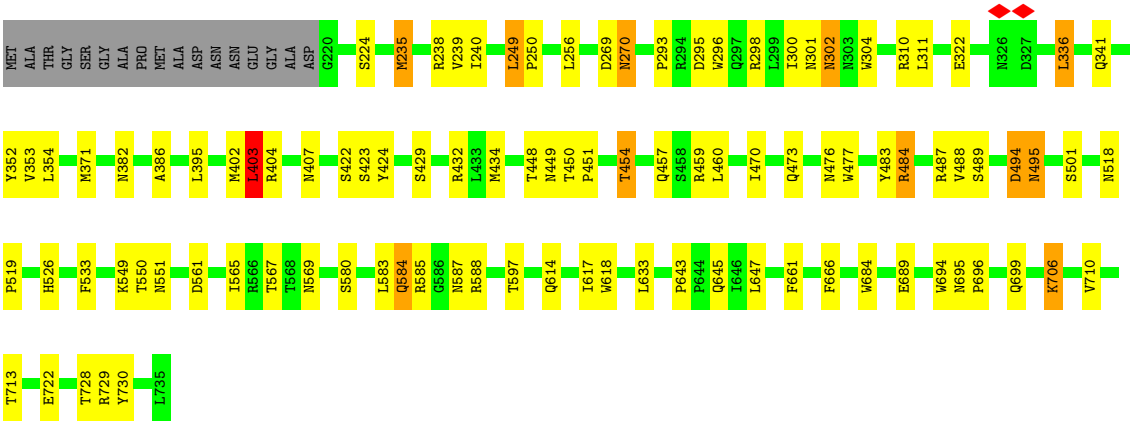




• Molecule 1: Capsid protein VP1

Chain K:

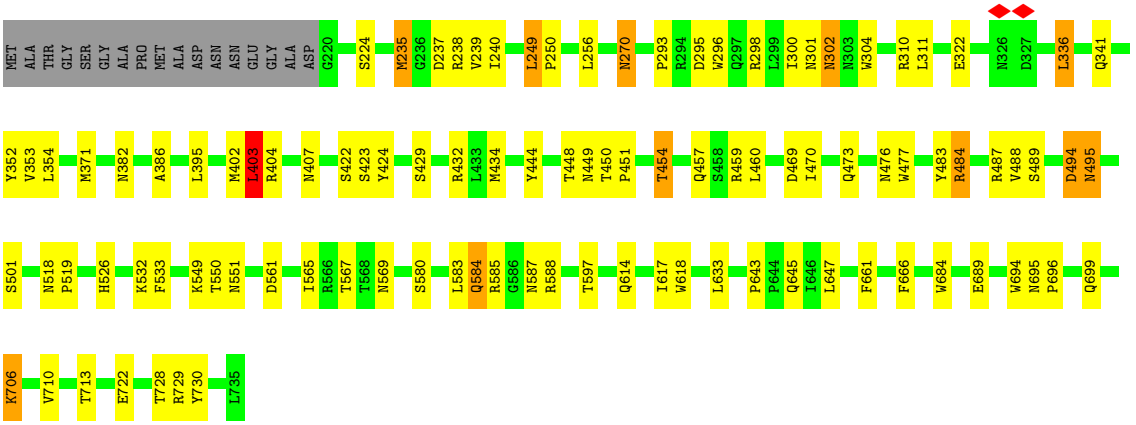




• Molecule 1: Capsid protein VP1

Chain L:





• Molecule 1: Capsid protein VP1

Chain M:

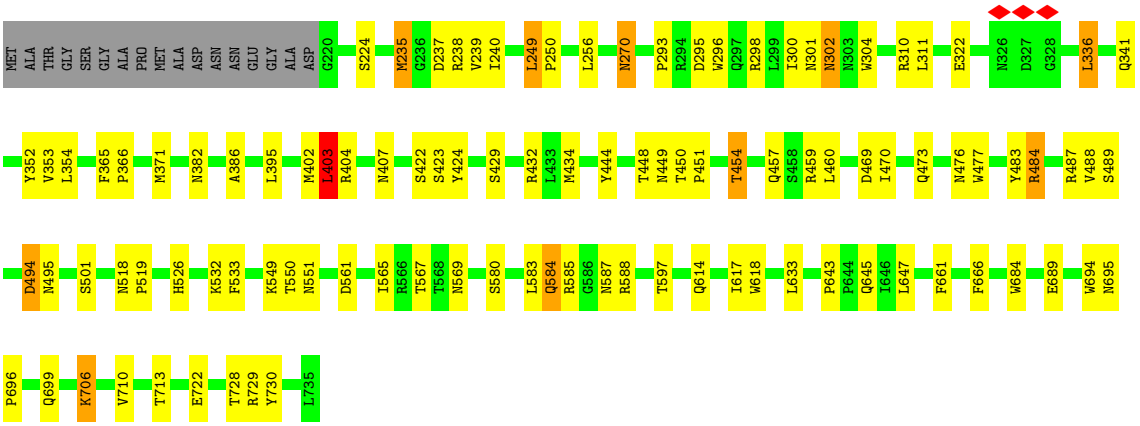




• Molecule 1: Capsid protein VP1

Chain N:

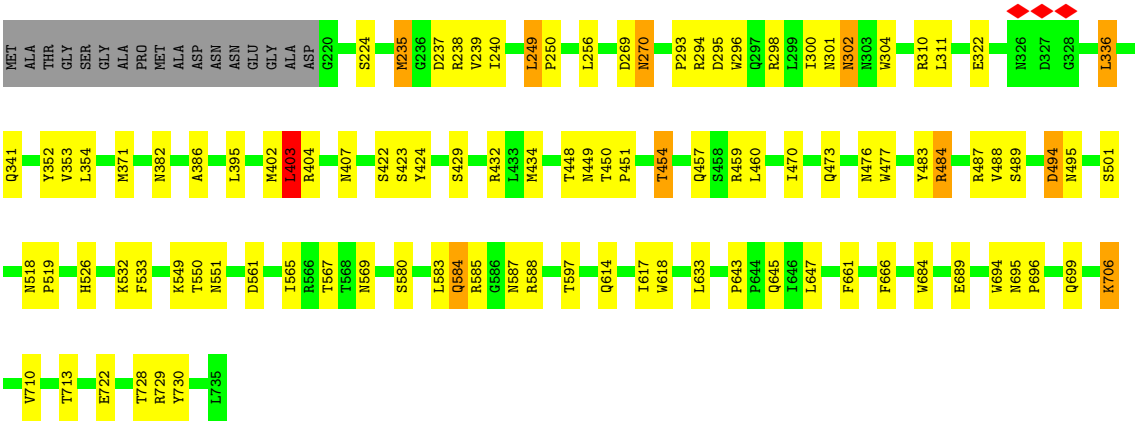




• Molecule 1: Capsid protein VP1

Chain O:

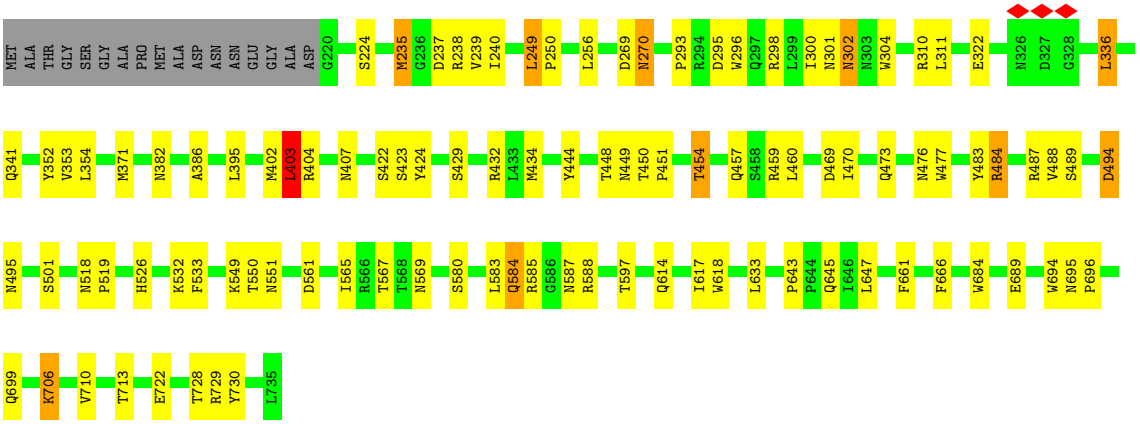




• Molecule 1: Capsid protein VP1

Chain P:

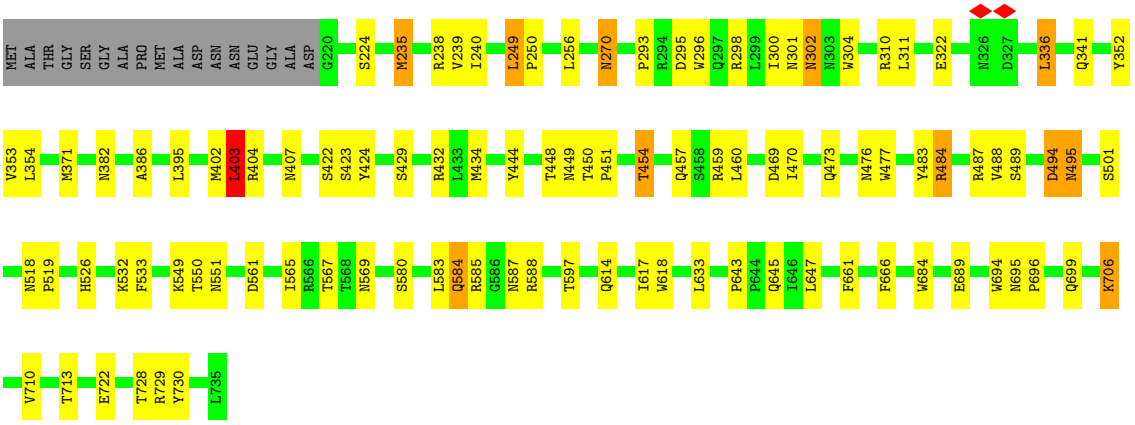




• Molecule 1: Capsid protein VP1

Chain Q:





• Molecule 1: Capsid protein VP1

Chain R:

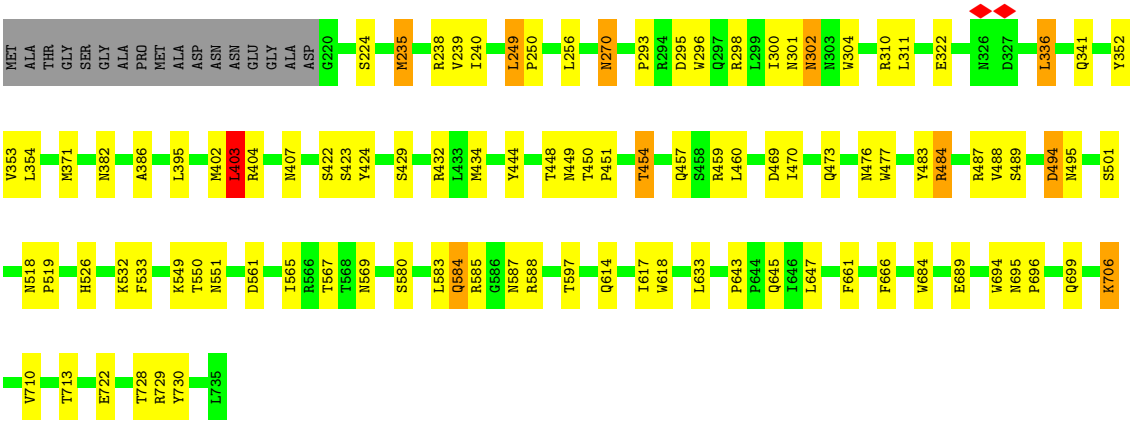




• Molecule 1: Capsid protein VP1

Chain S:

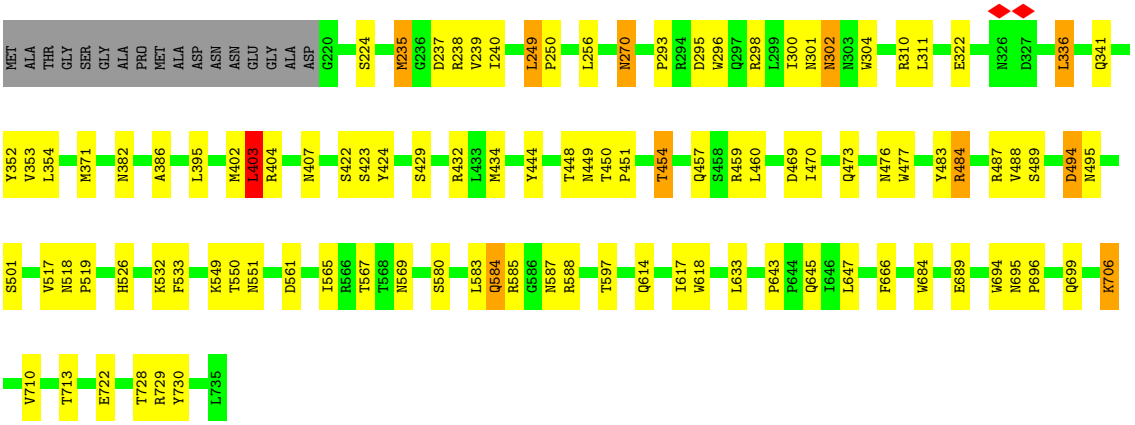




• Molecule 1: Capsid protein VP1

Chain T:

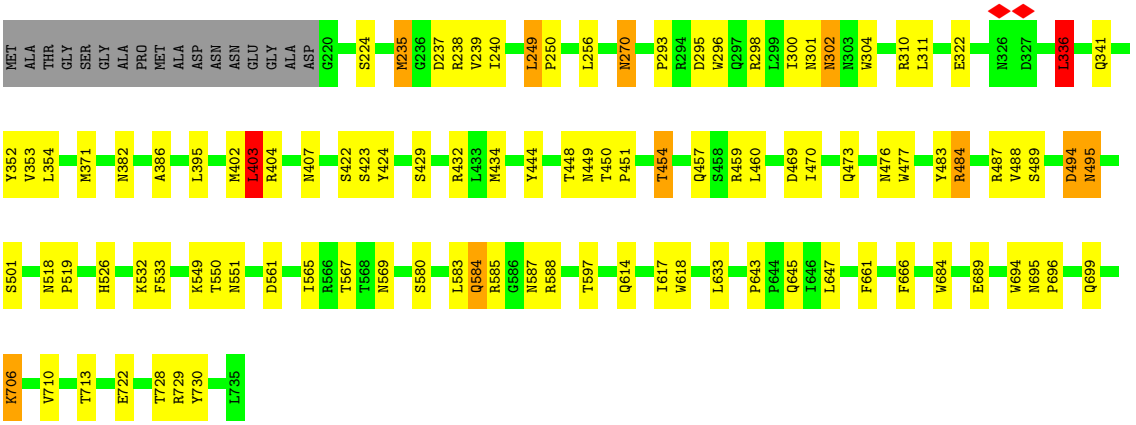




• Molecule 1: Capsid protein VP1

Chain U:

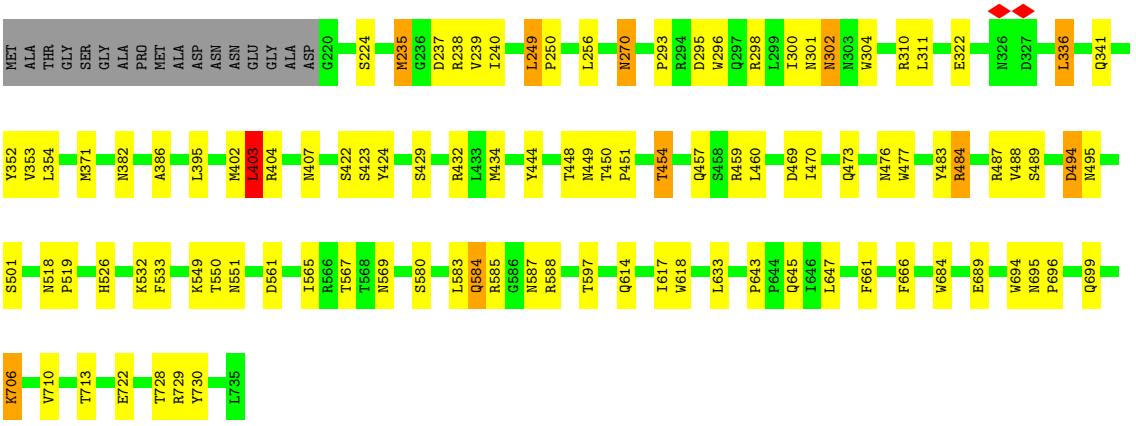




• Molecule 1: Capsid protein VP1

Chain V:

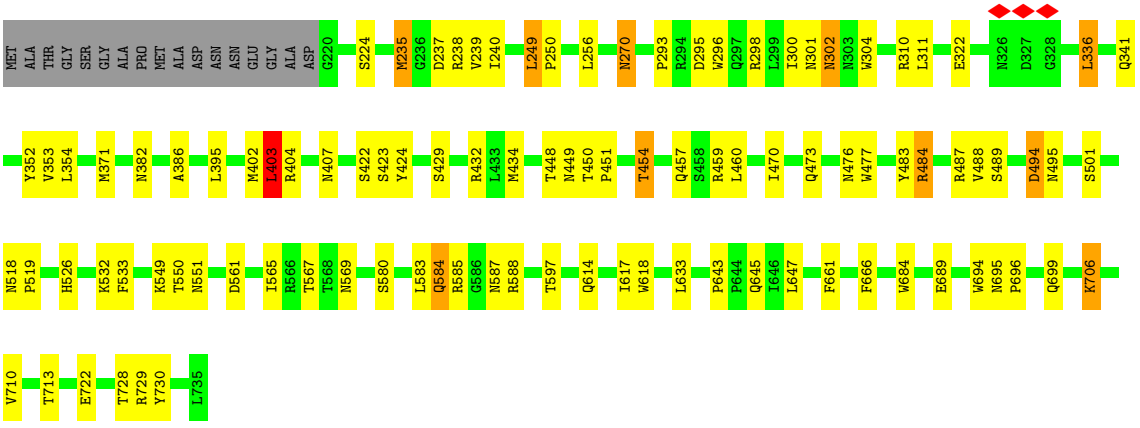




• Molecule 1: Capsid protein VP1

Chain W:

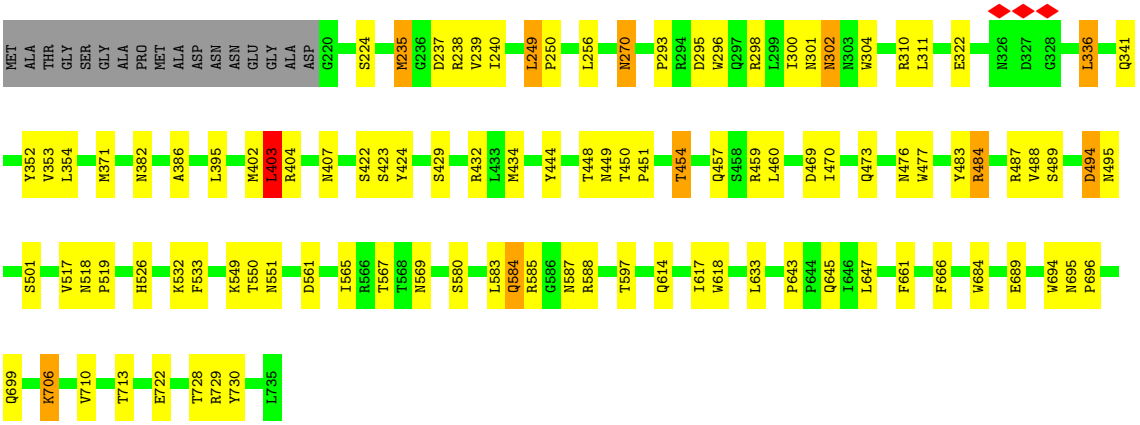




• Molecule 1: Capsid protein VP1

Chain X:

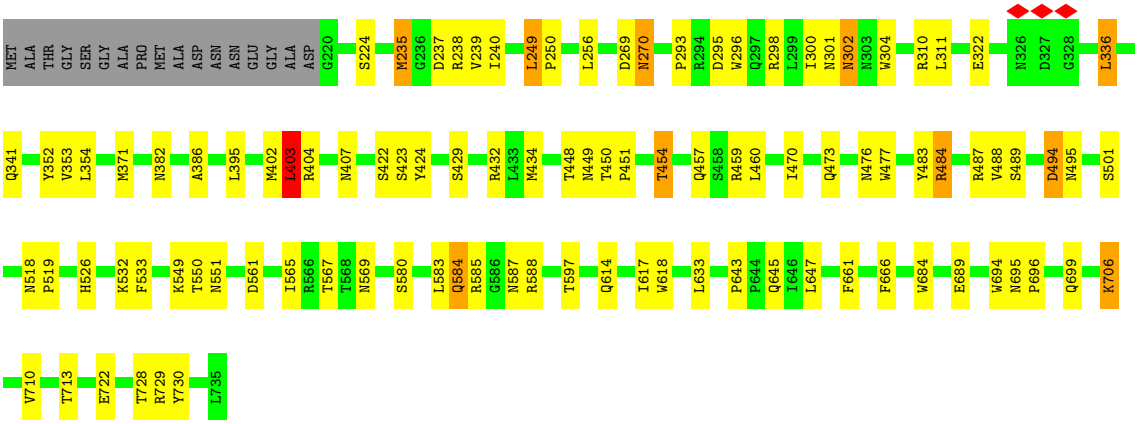




• Molecule 1: Capsid protein VP1

Chain Y:

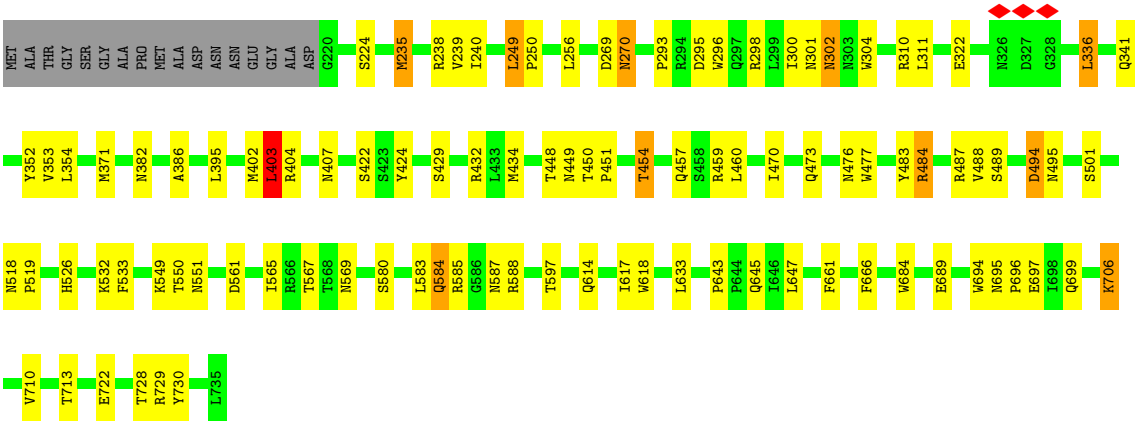




• Molecule 1: Capsid protein VP1

Chain Z:





• Molecule 1: Capsid protein VP1

Chain 1:





• Molecule 1: Capsid protein VP1

Chain 2:

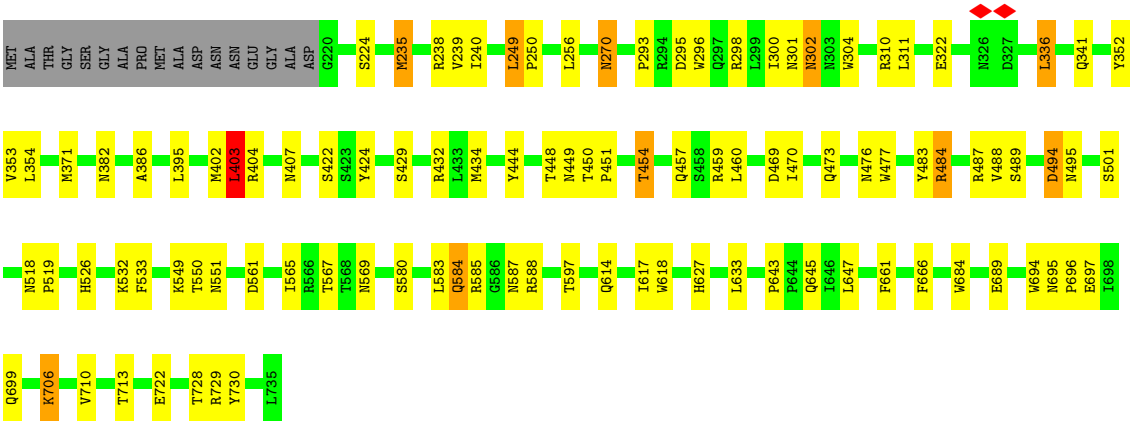




• Molecule 1: Capsid protein VP1

Chain 3:

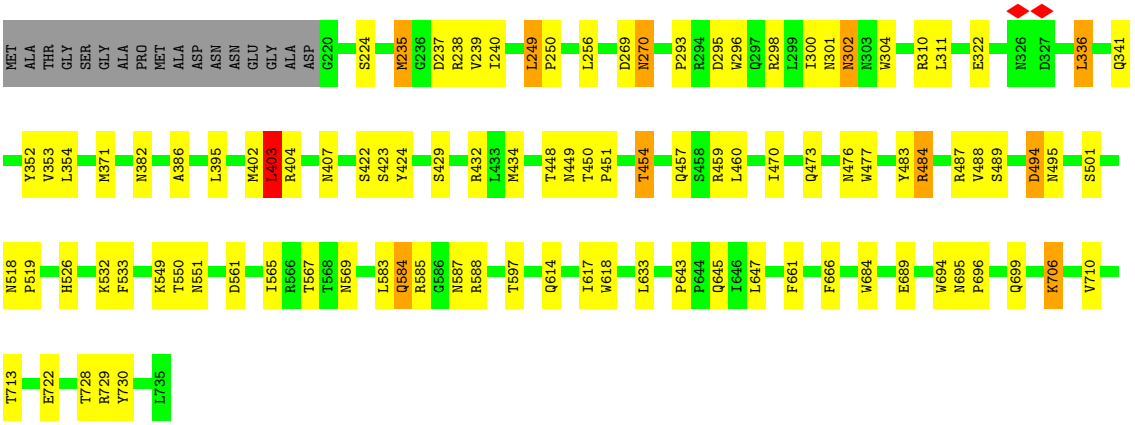




• Molecule 1: Capsid protein VP1

Chain 4:

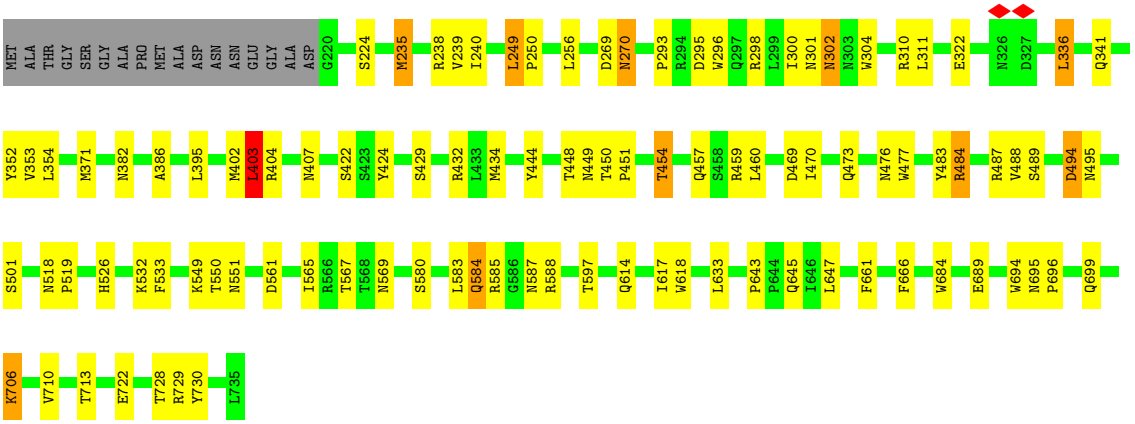




• Molecule 1: Capsid protein VP1

Chain 5:

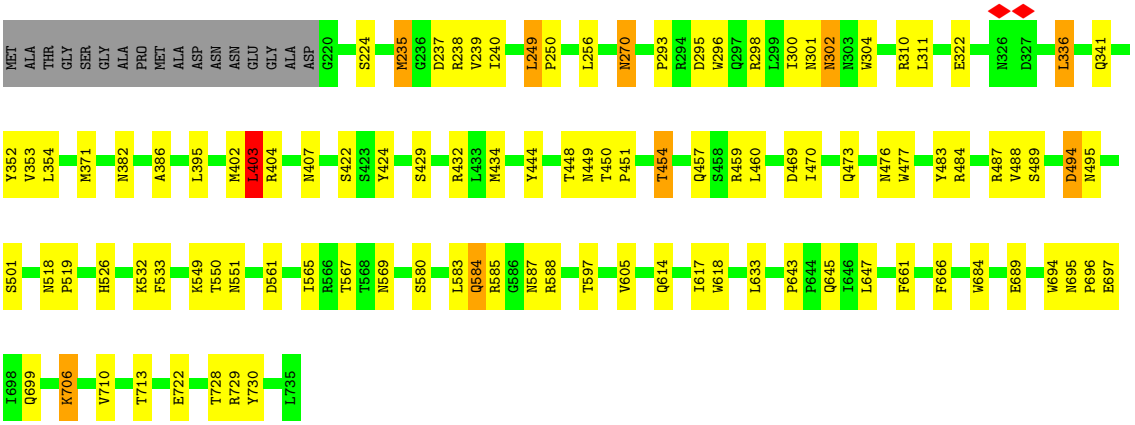




• Molecule 1: Capsid protein VP1

Chain 6:

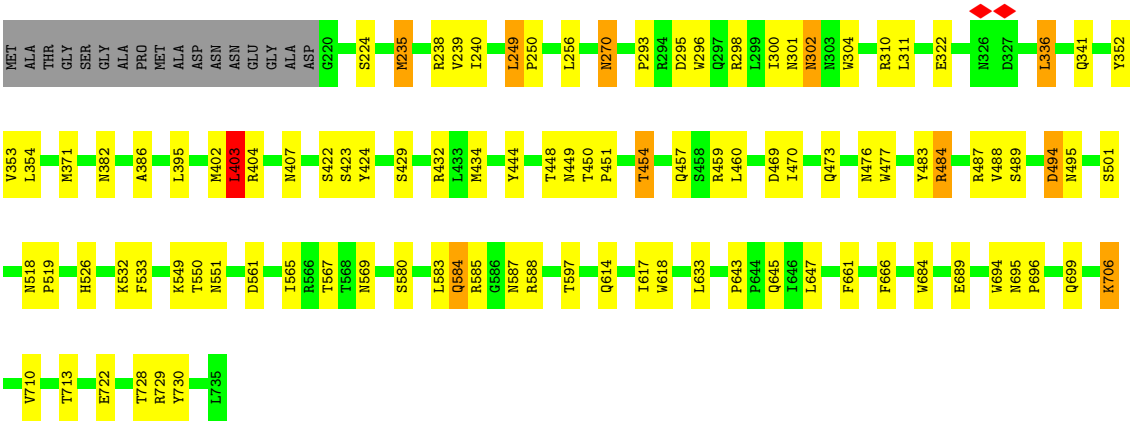




• Molecule 1: Capsid protein VP1

Chain a:





• Molecule 1: Capsid protein VP1

Chain b:

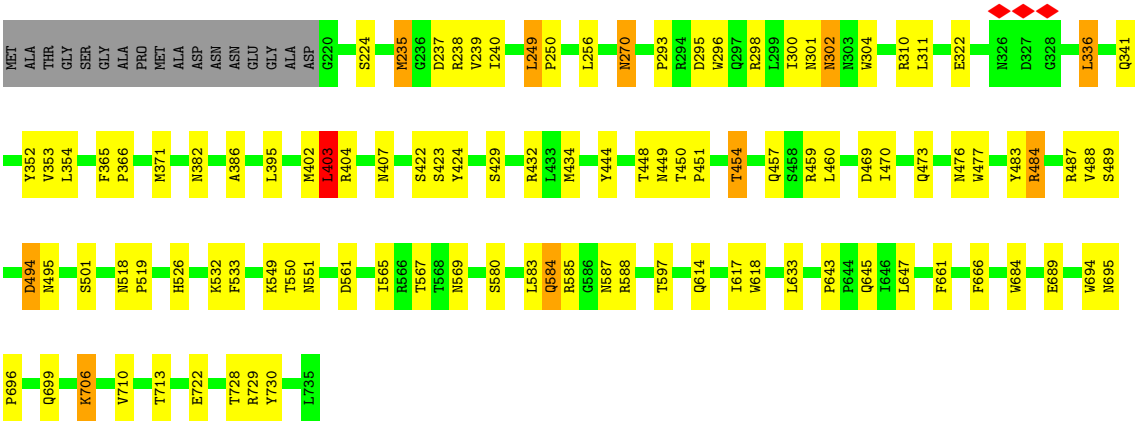




• Molecule 1: Capsid protein VP1

Chain c:

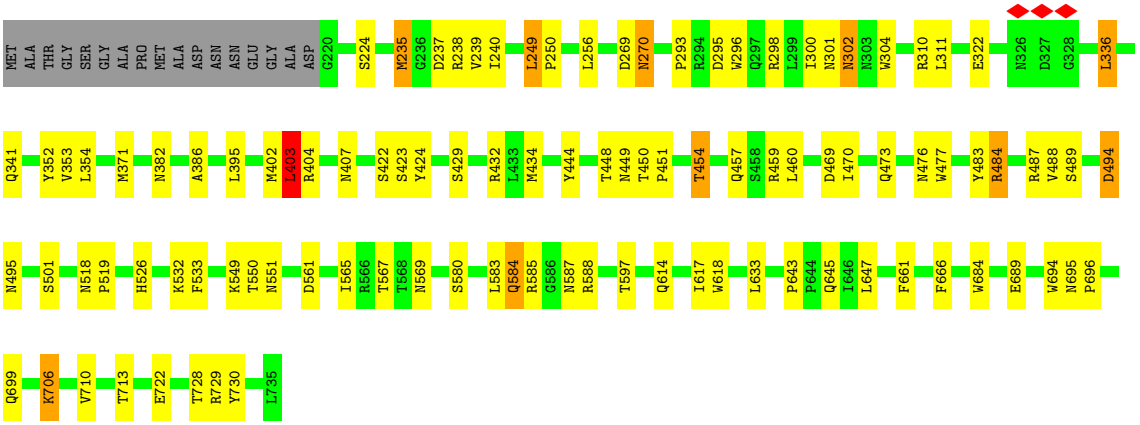




• Molecule 1: Capsid protein VP1

Chain d:

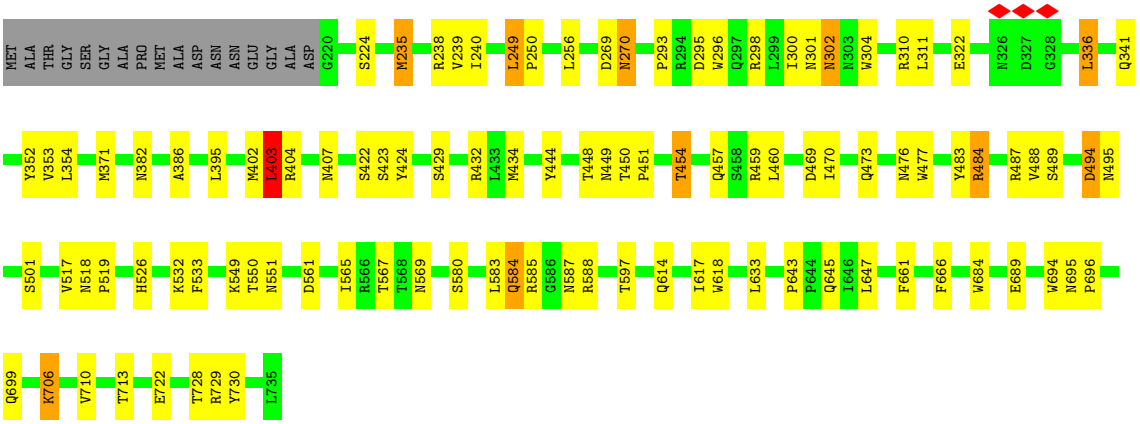




• Molecule 1: Capsid protein VP1

Chain e:

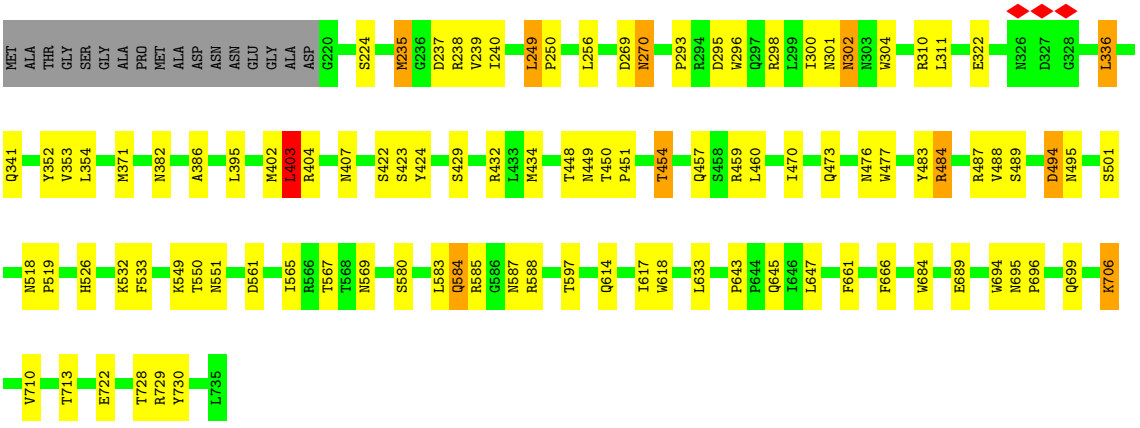




• Molecule 1: Capsid protein VP1

Chain f:





• Molecule 1: Capsid protein VP1

Chain g:

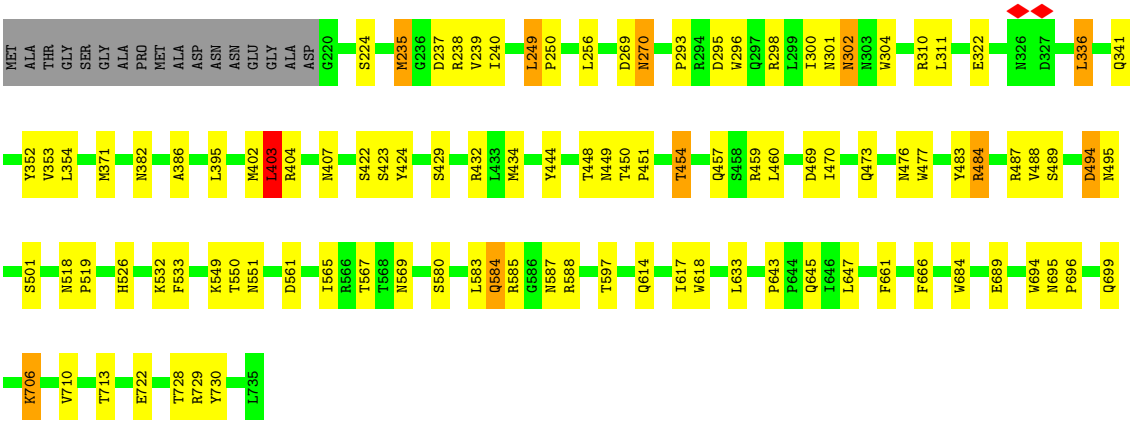




• Molecule 1: Capsid protein VP1

Chain h:

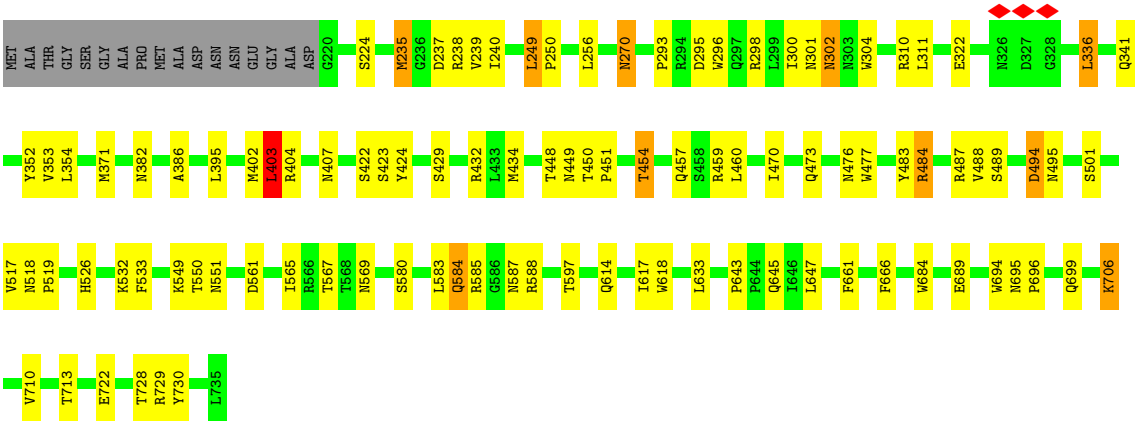




• Molecule 1: Capsid protein VP1

Chain i:

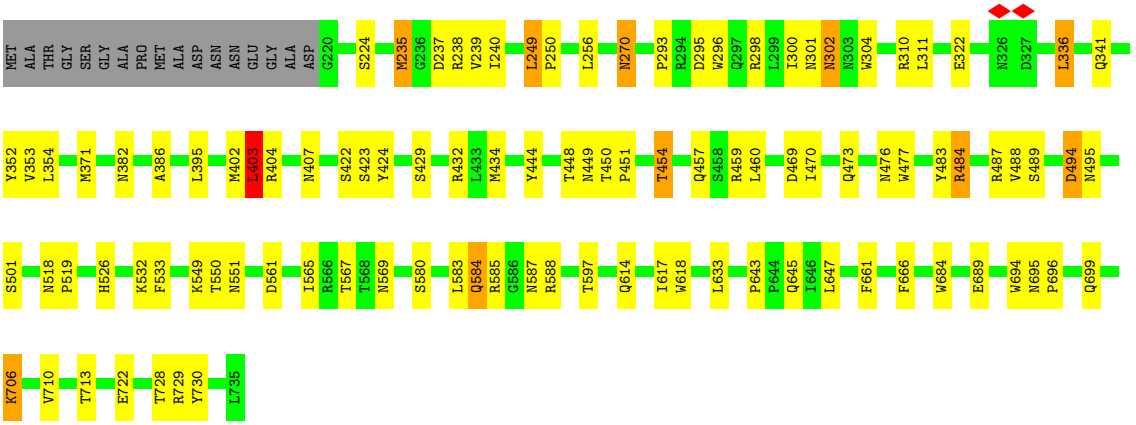




• Molecule 1: Capsid protein VP1

Chain j:

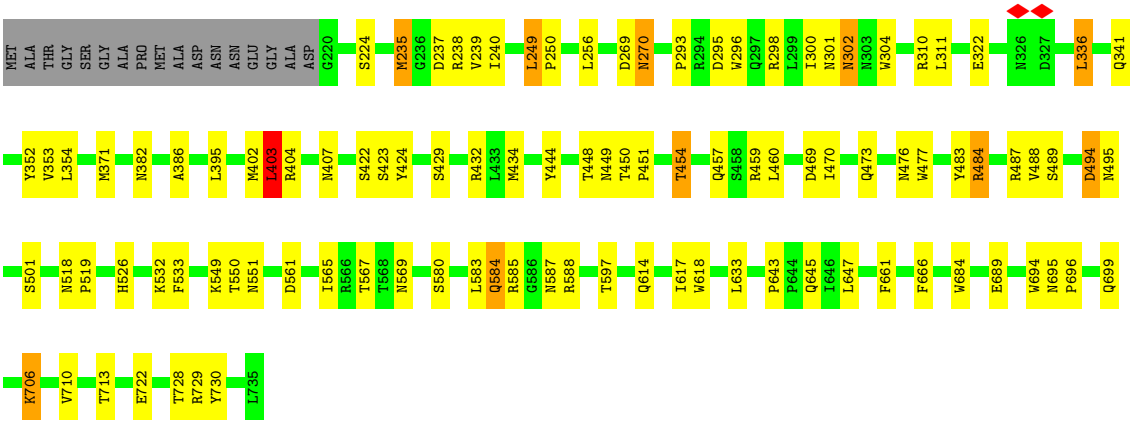




• Molecule 1: Capsid protein VP1

Chain k:

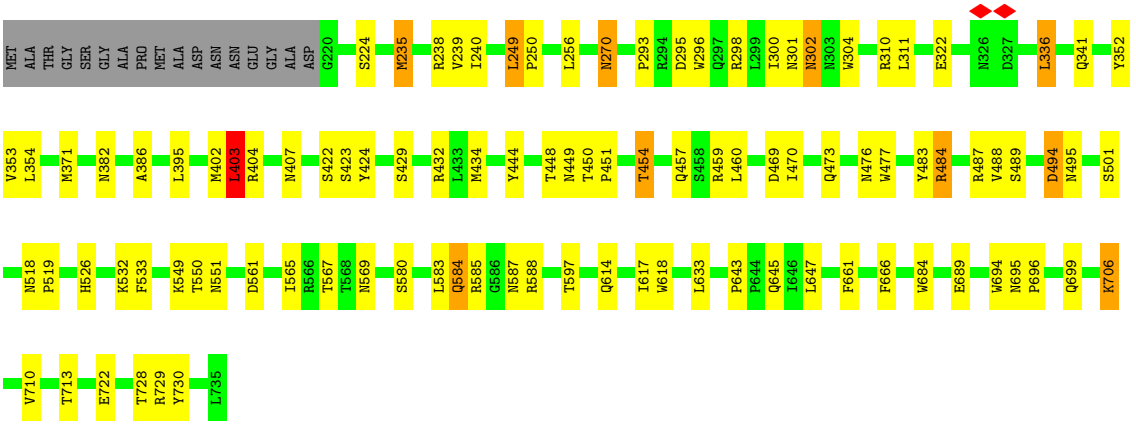




• Molecule 1: Capsid protein VP1

Chain l:

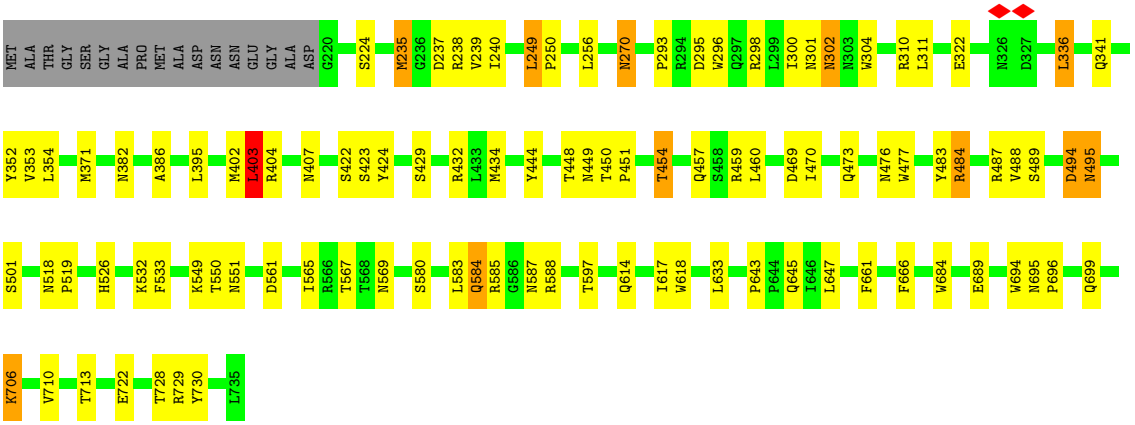




• Molecule 1: Capsid protein VP1

Chain m:

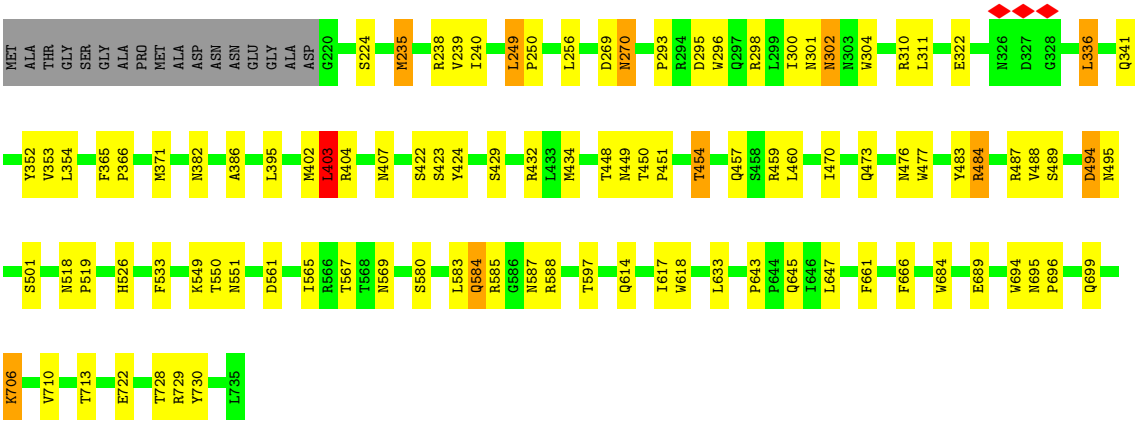




• Molecule 1: Capsid protein VP1

Chain n:

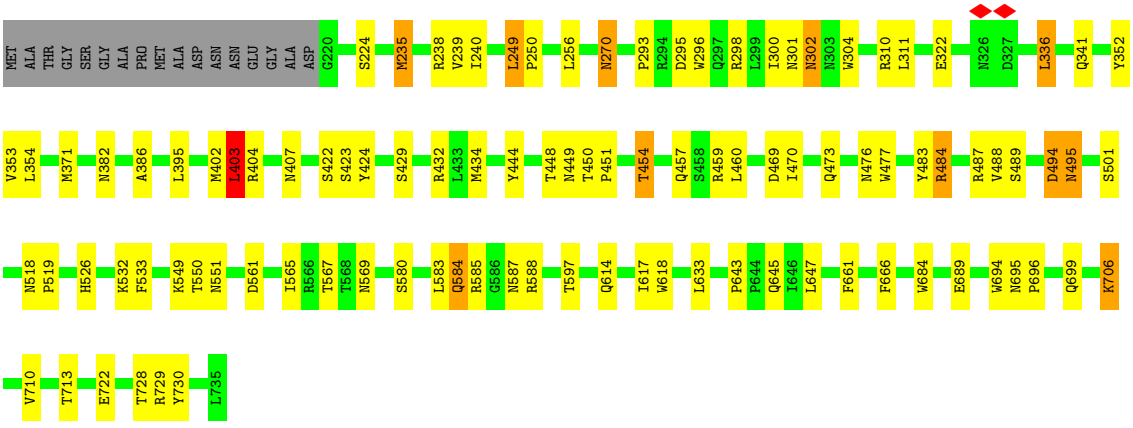




• Molecule 1: Capsid protein VP1

Chain o:





• Molecule 1: Capsid protein VP1

Chain p:

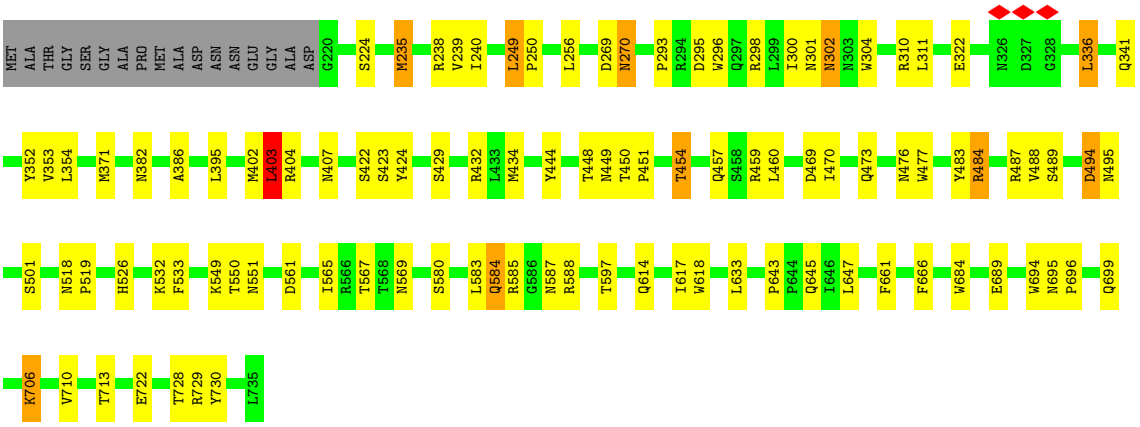




• Molecule 1: Capsid protein VP1

Chain q:

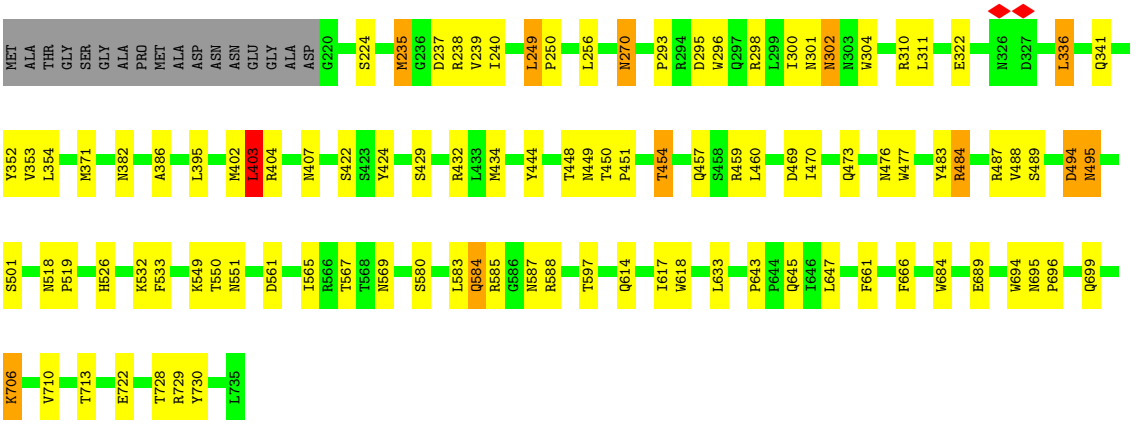




• Molecule 1: Capsid protein VP1

Chain r:

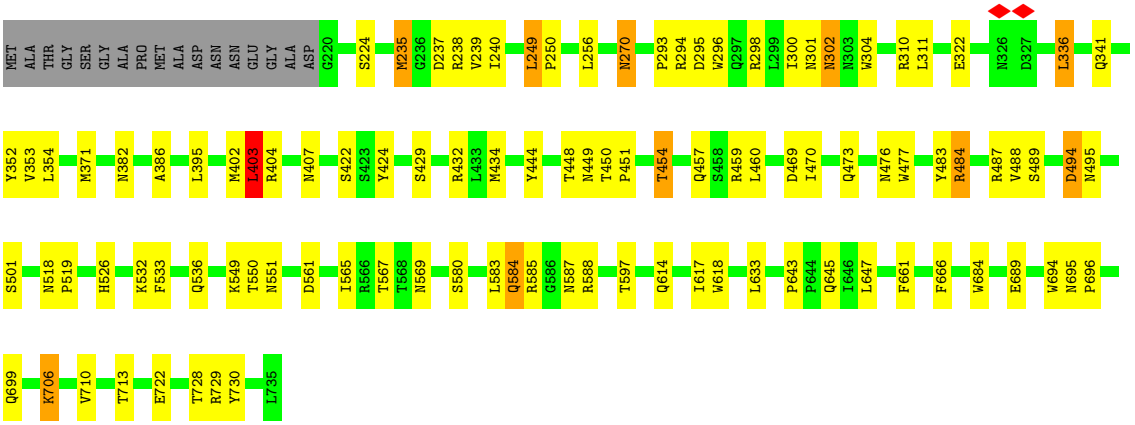




• Molecule 1: Capsid protein VP1

Chain s:





• Molecule 1: Capsid protein VP1

Chain t:

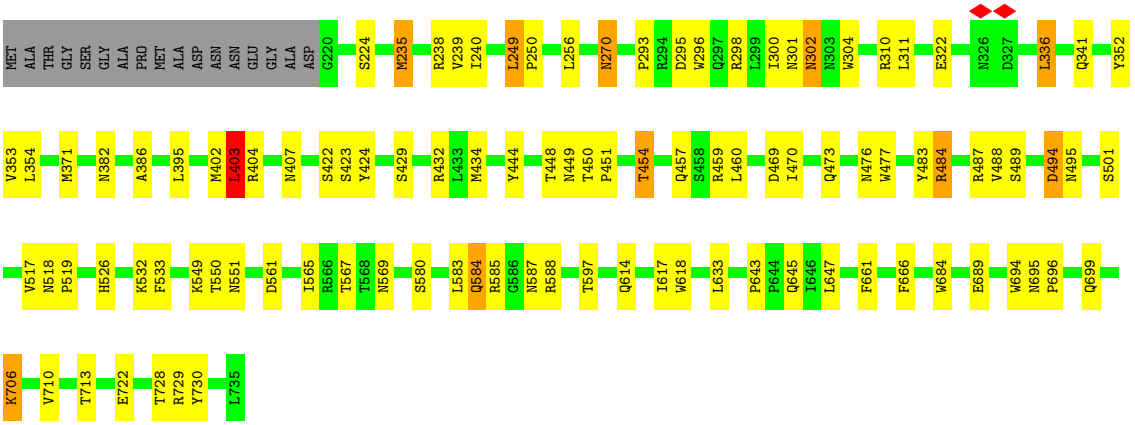




• Molecule 1: Capsid protein VP1

Chain u:





• Molecule 1: Capsid protein VP1

Chain v:

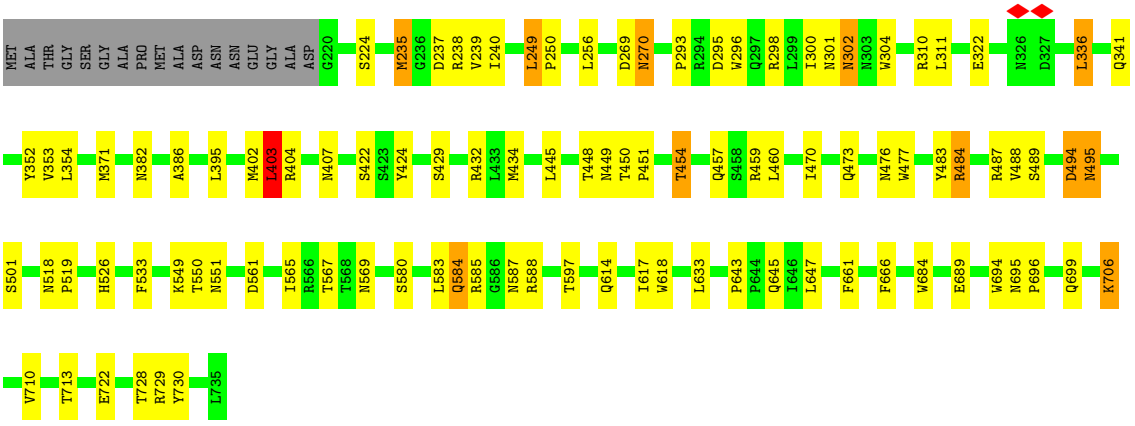




• Molecule 1: Capsid protein VP1

Chain w:

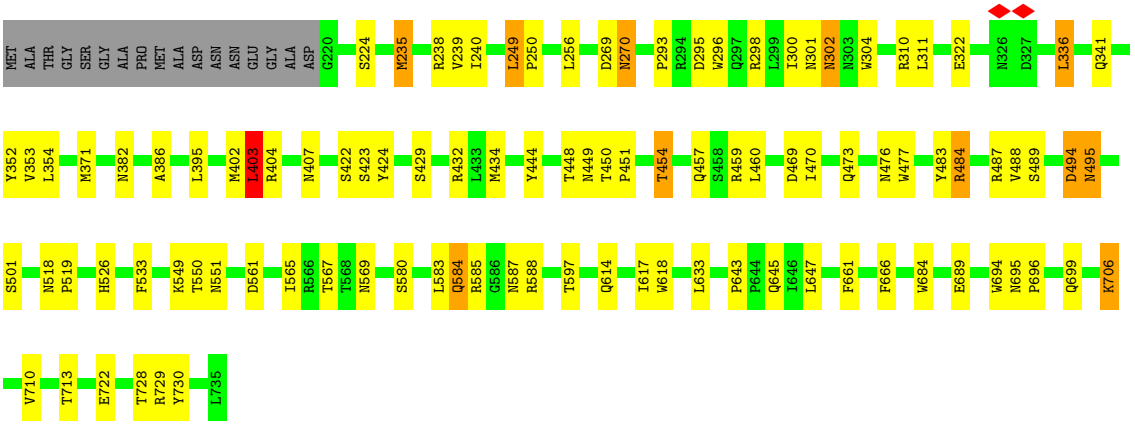




• Molecule 1: Capsid protein VP1

Chain x:

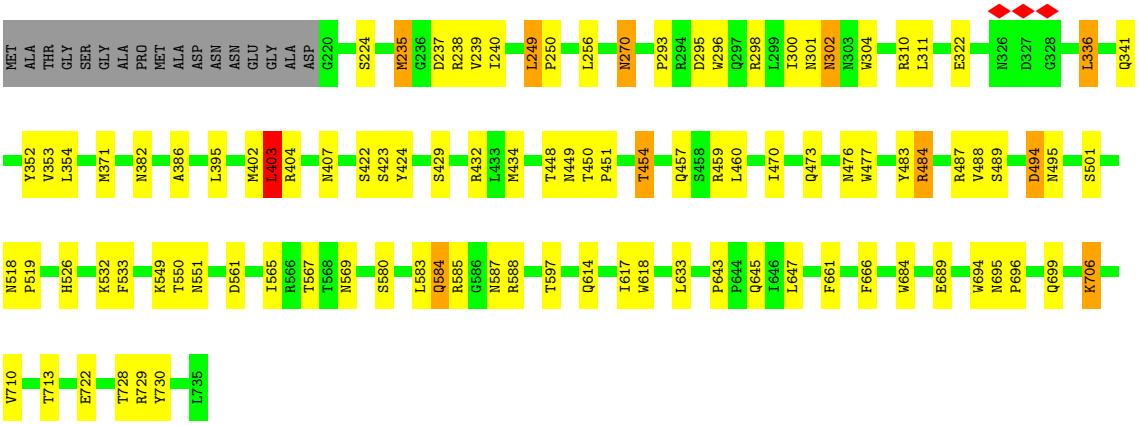




• Molecule 1: Capsid protein VP1

Chain y:

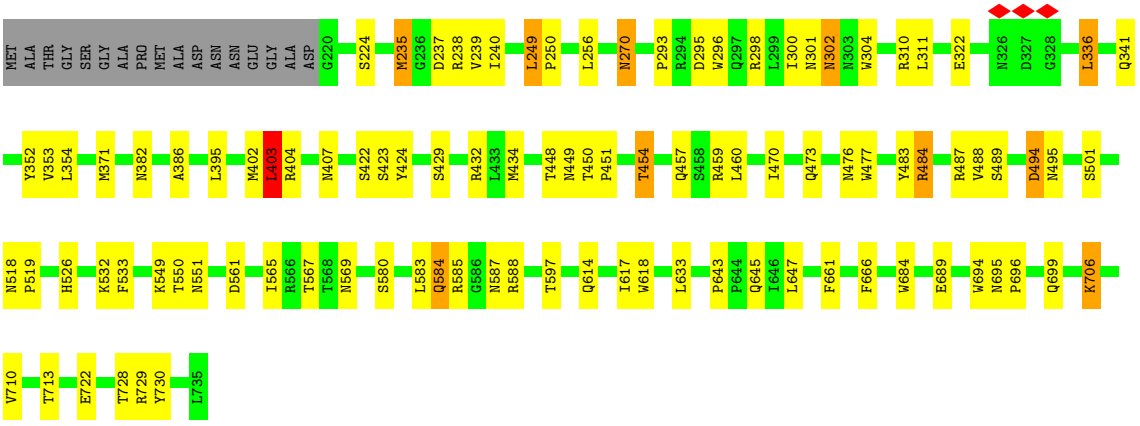




• Molecule 1: Capsid protein VP1

Chain z:

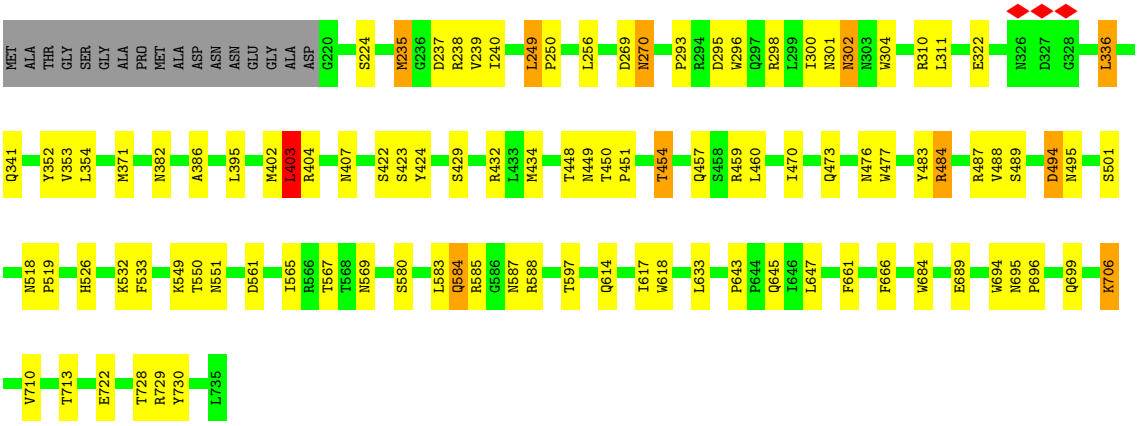




• Molecule 1: Capsid protein VP1

Chain 7:

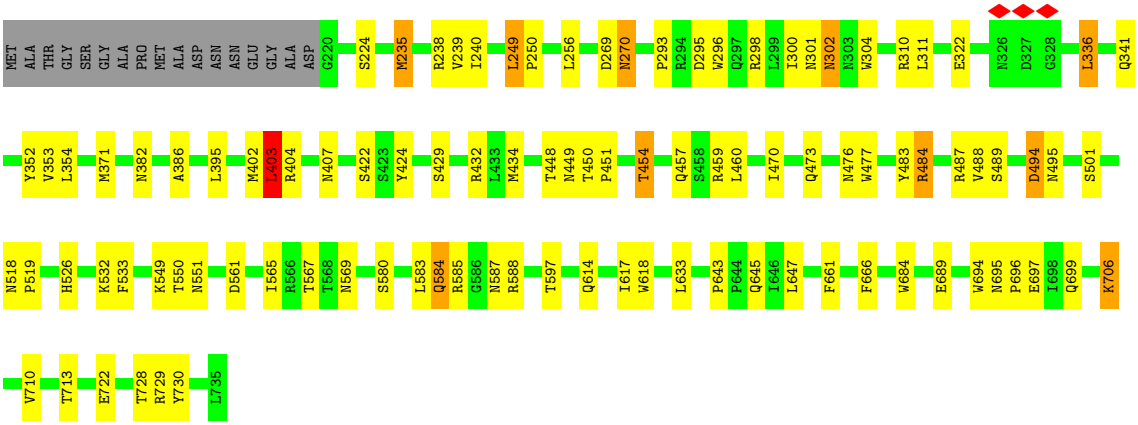




• Molecule 1: Capsid protein VP1

Chain 8:

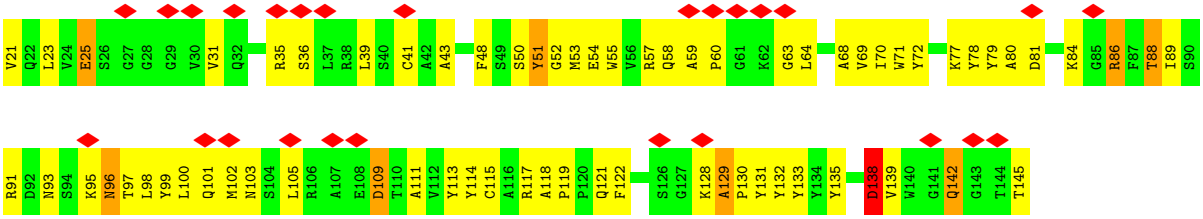




• Molecule 2: IgG Fab3-4 heavy chain

Chain Ah:

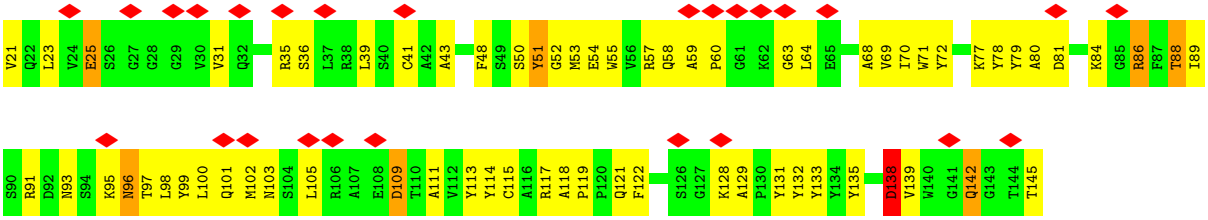




• Molecule 2: IgG Fab3-4 heavy chain

Chain Bh:

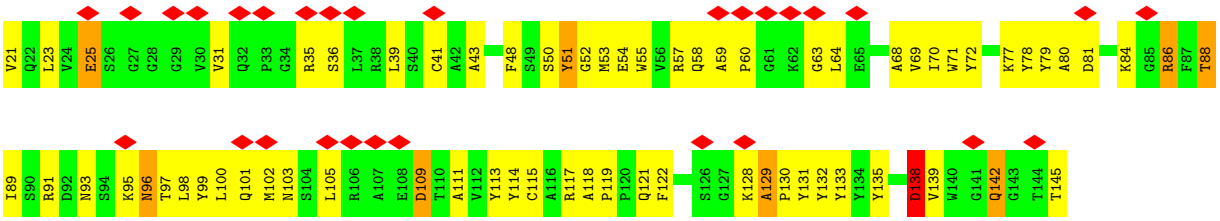




• Molecule 2: IgG Fab3-4 heavy chain

Chain Ch:

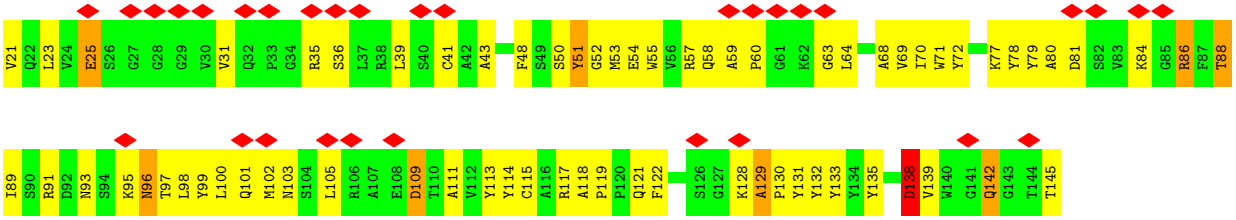




• Molecule 2: IgG Fab3-4 heavy chain

Chain Dh:

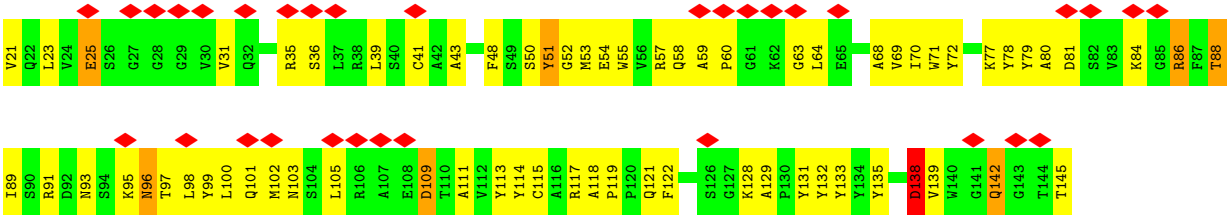




• Molecule 2: IgG Fab3-4 heavy chain

Chain Eh:

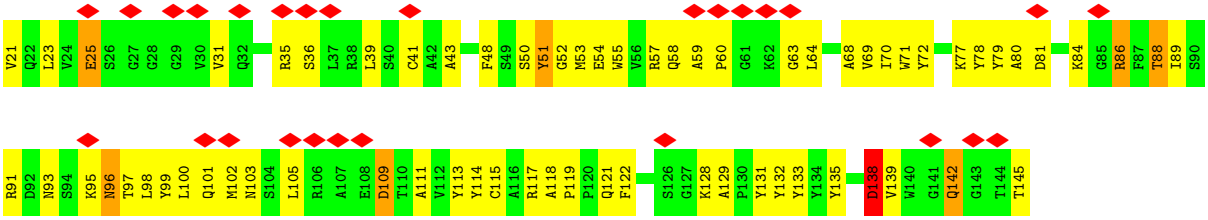




• Molecule 2: IgG Fab3-4 heavy chain

Chain Fh:

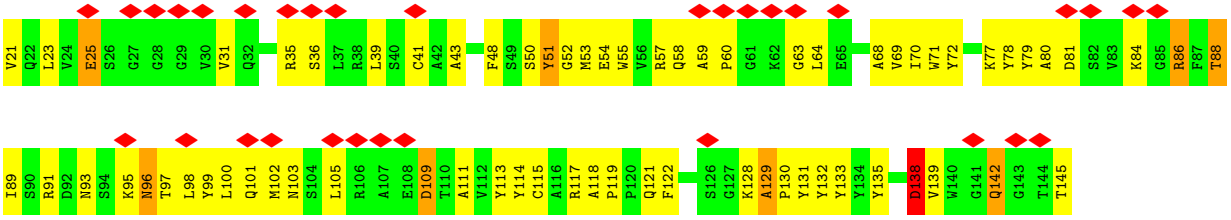




• Molecule 2: IgG Fab3-4 heavy chain

Chain Gh:

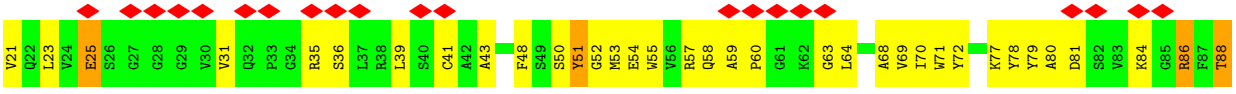


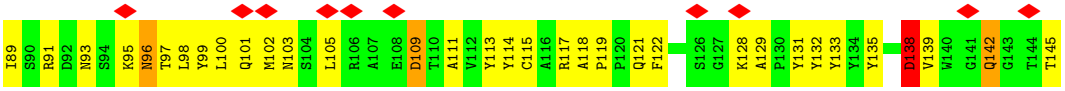


• Molecule 2: IgG Fab3-4 heavy chain

Chain Hh:



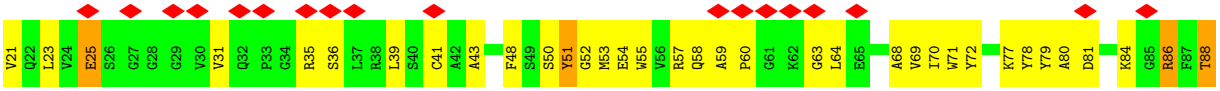


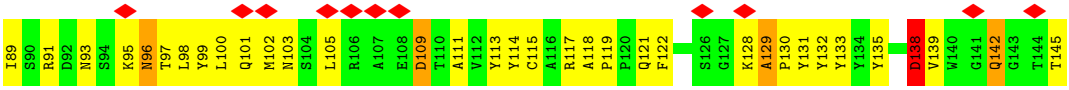


• Molecule 2: IgG Fab3-4 heavy chain

Chain Ih:



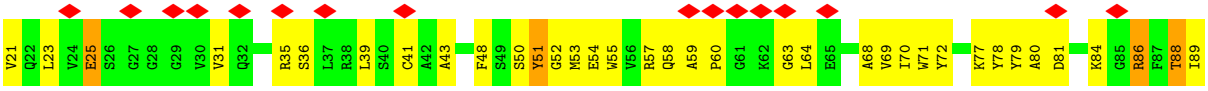




• Molecule 2: IgG Fab3-4 heavy chain

Chain Jh:



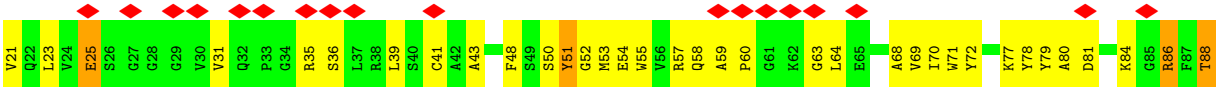




• Molecule 2: IgG Fab3-4 heavy chain

Chain Kh:



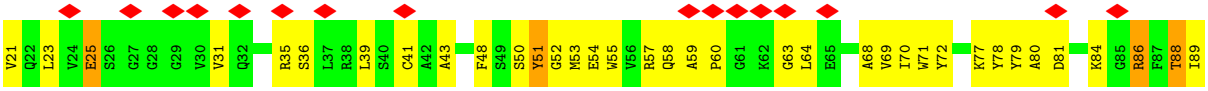




• Molecule 2: IgG Fab3-4 heavy chain

Chain Lh:

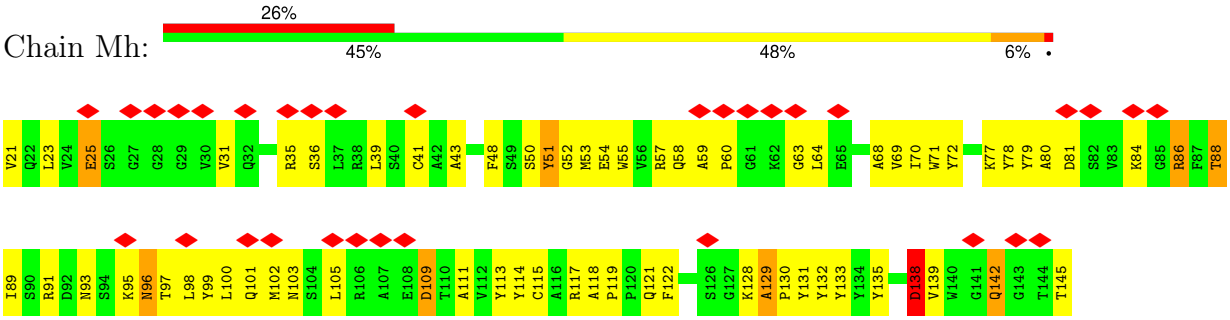






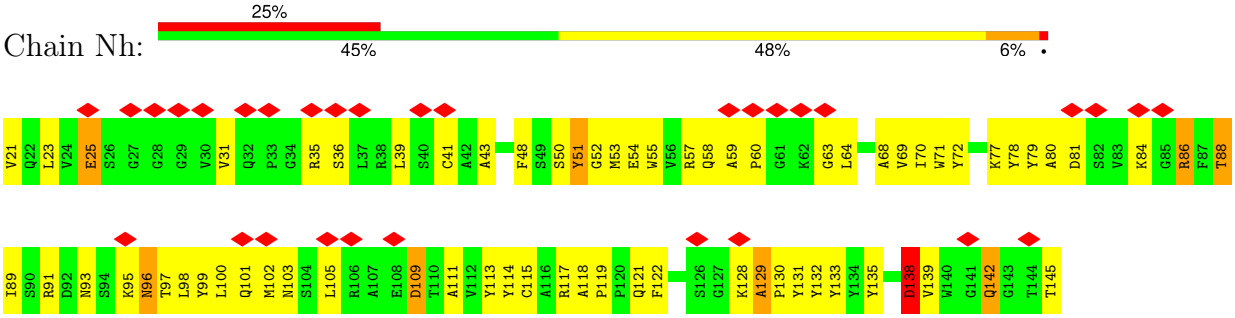
• Molecule 2: IgG Fab3-4 heavy chain

Chain Mh:



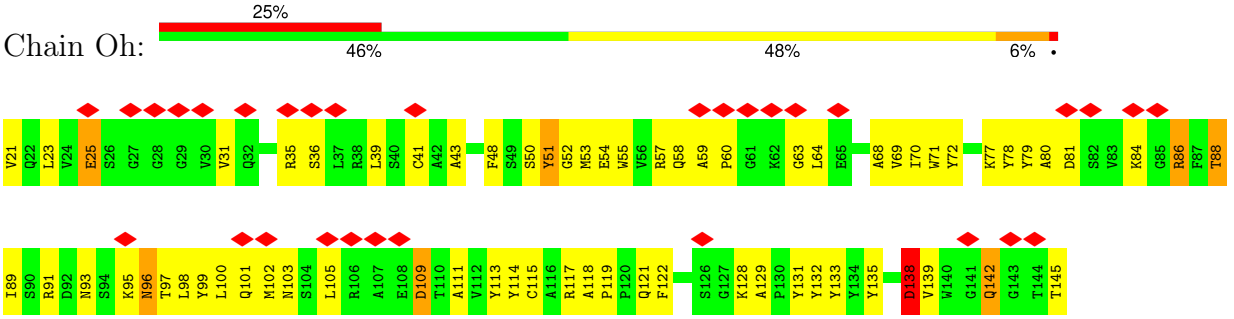
• Molecule 2: IgG Fab3-4 heavy chain

Chain Nh:



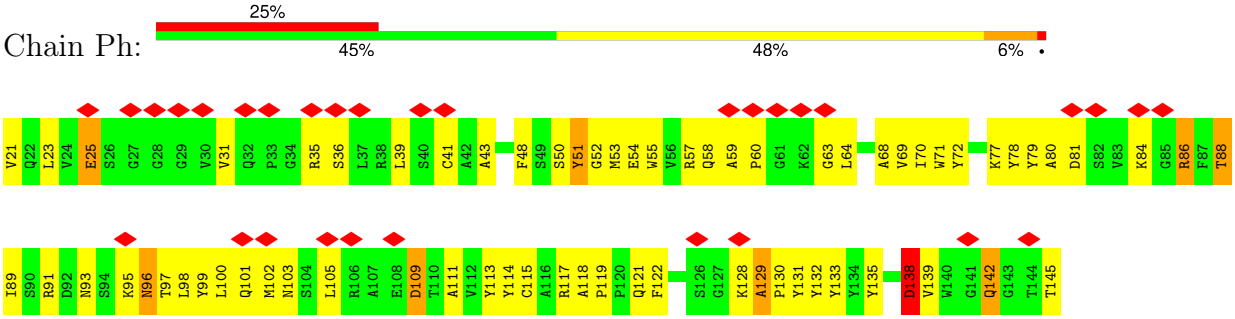
• Molecule 2: IgG Fab3-4 heavy chain

Chain Oh:



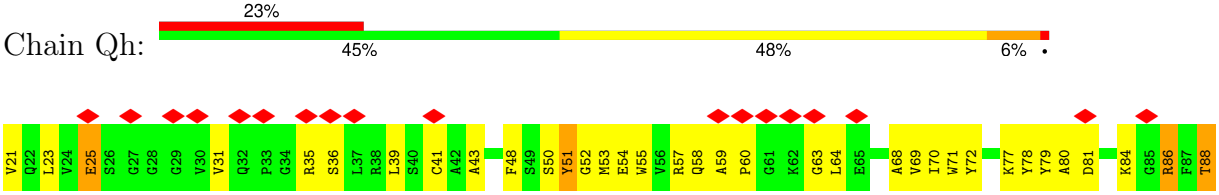
• Molecule 2: IgG Fab3-4 heavy chain

Chain Ph:



• Molecule 2: IgG Fab3-4 heavy chain

Chain Qh:

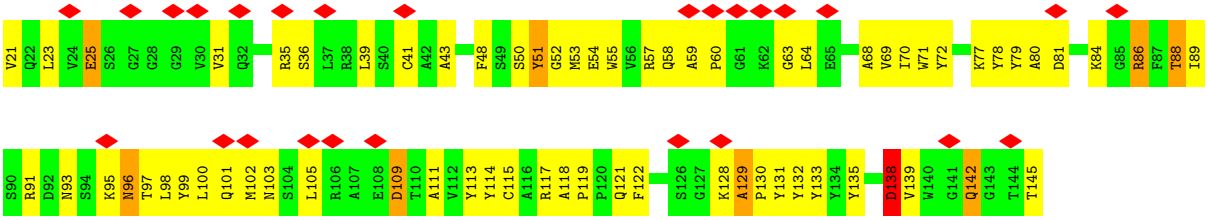




• Molecule 2: IgG Fab3-4 heavy chain

Chain Rh:

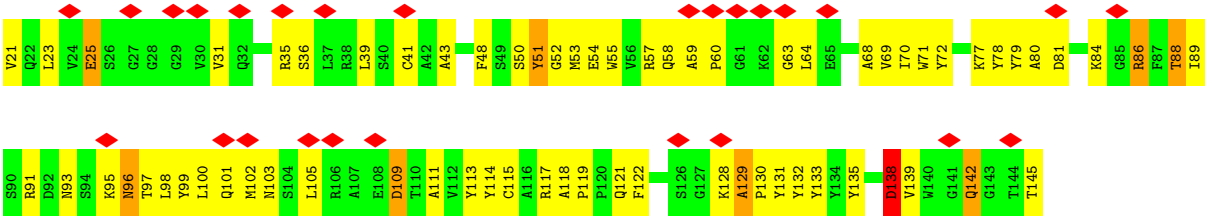




• Molecule 2: IgG Fab3-4 heavy chain

Chain Sh:

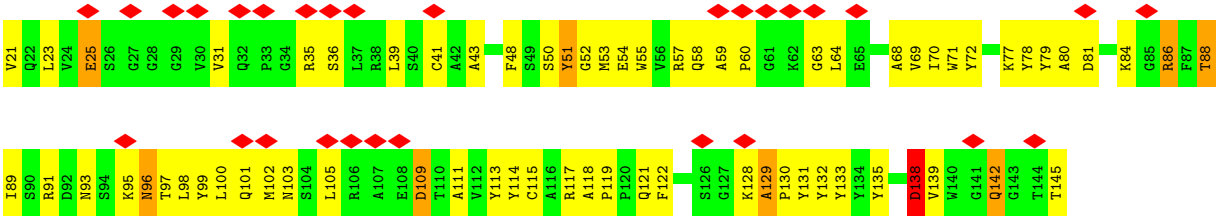




• Molecule 2: IgG Fab3-4 heavy chain

Chain Th:

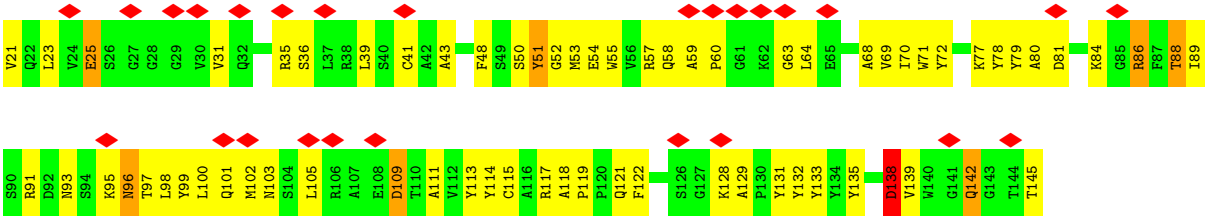




• Molecule 2: IgG Fab3-4 heavy chain

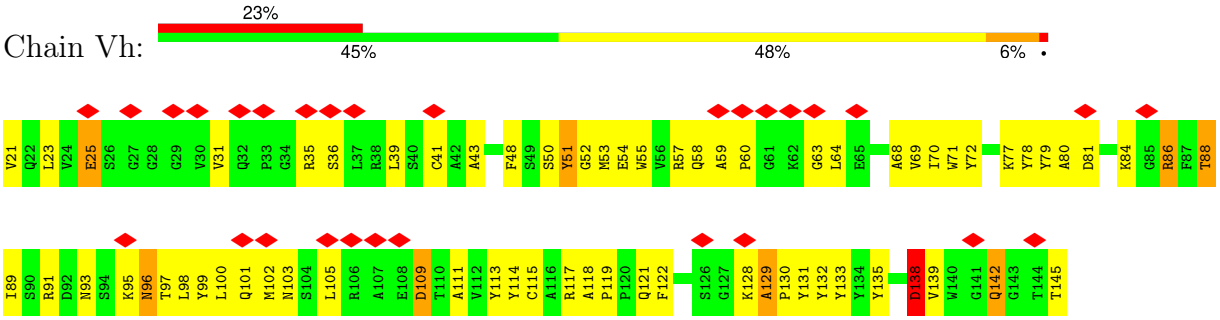
Chain Uh:





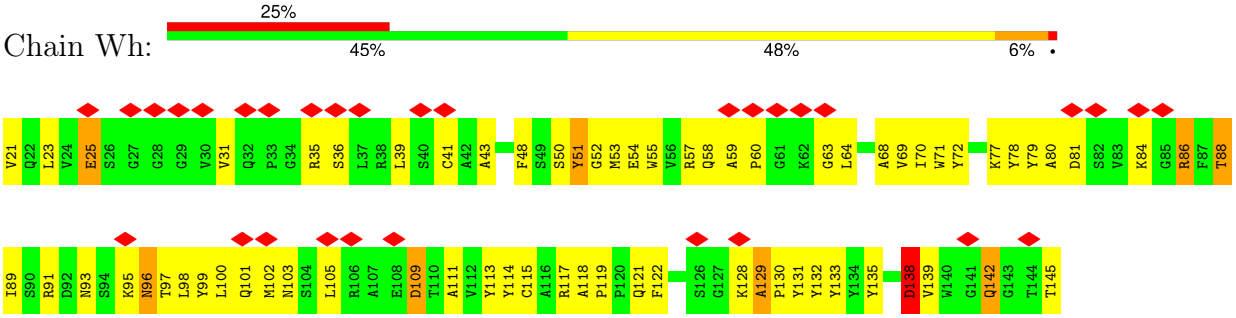
• Molecule 2: IgG Fab3-4 heavy chain

Chain Vh:



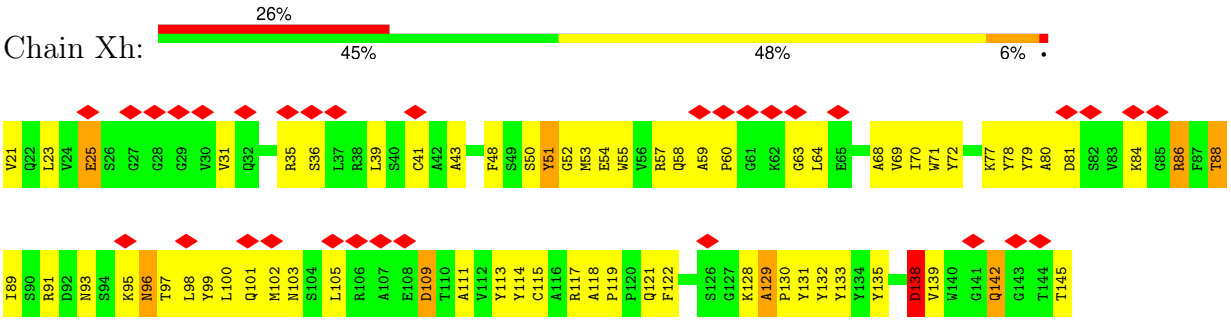
• Molecule 2: IgG Fab3-4 heavy chain

Chain Wh:



• Molecule 2: IgG Fab3-4 heavy chain

Chain Xh:



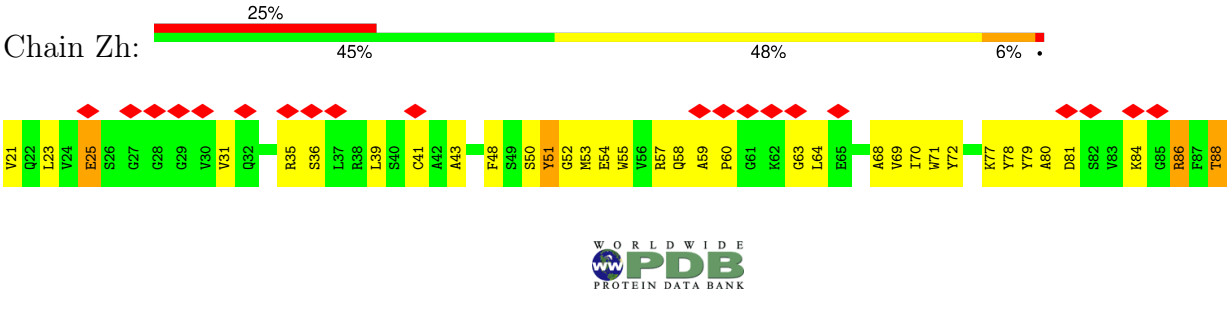
• Molecule 2: IgG Fab3-4 heavy chain

Chain Yh:



• Molecule 2: IgG Fab3-4 heavy chain

Chain Zh:

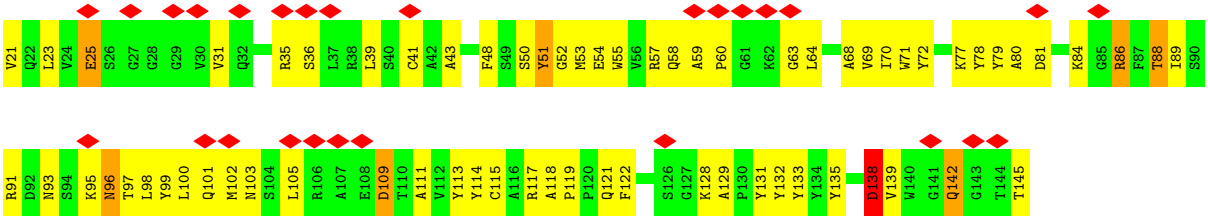




• Molecule 2: IgG Fab3-4 heavy chain

Chain 1h:

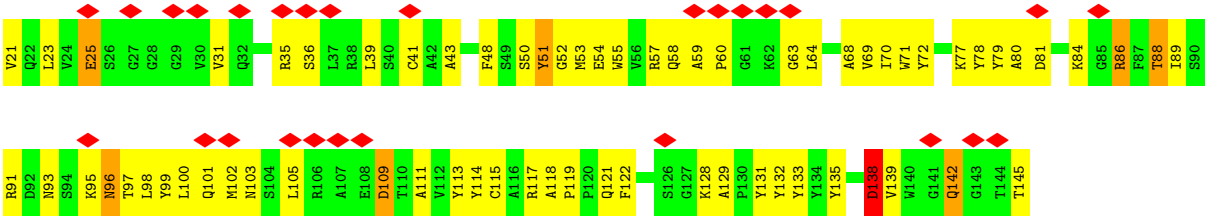




• Molecule 2: IgG Fab3-4 heavy chain

Chain 2h:

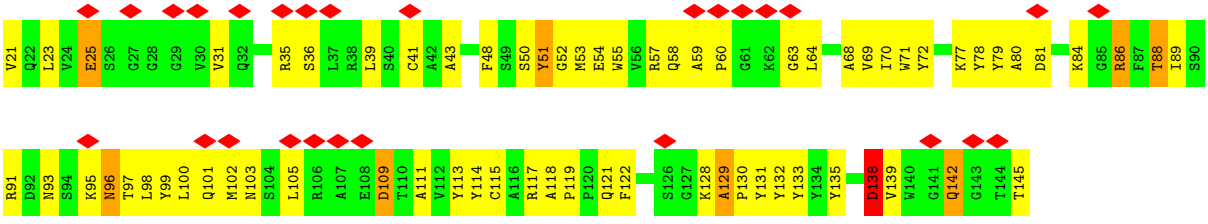




• Molecule 2: IgG Fab3-4 heavy chain

Chain 3h:

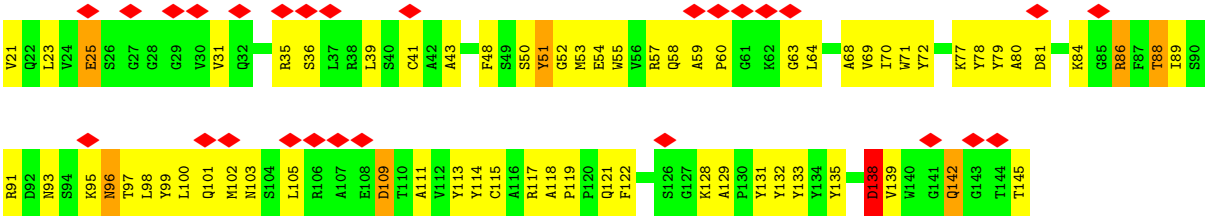




• Molecule 2: IgG Fab3-4 heavy chain

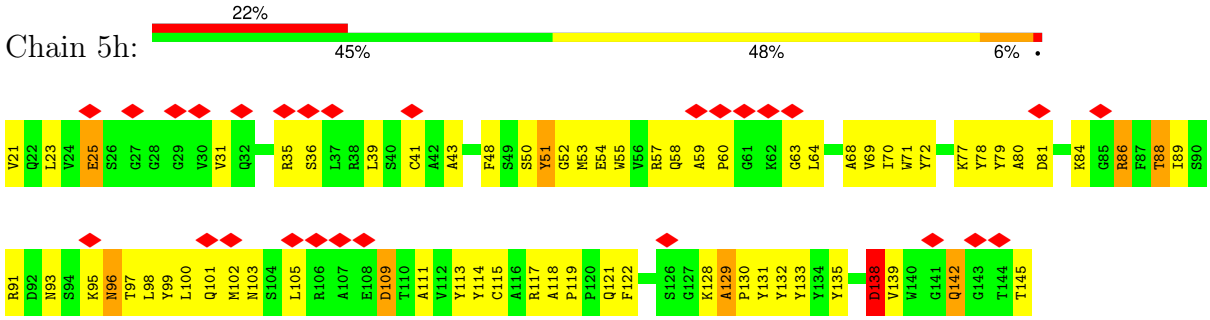
Chain 4h:





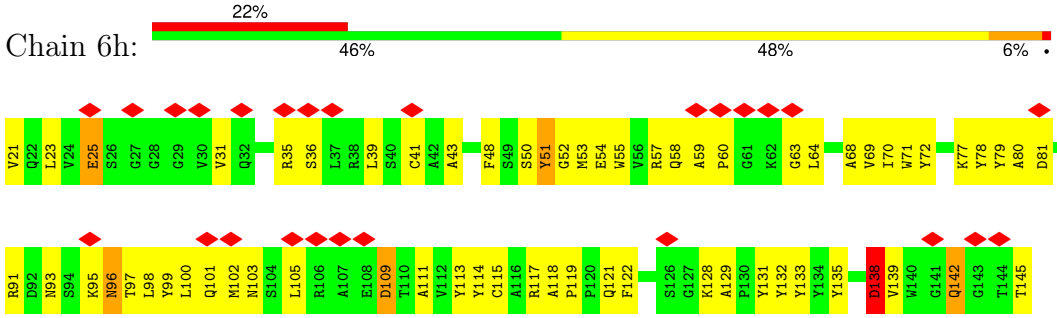
• Molecule 2: IgG Fab3-4 heavy chain

Chain 5h:



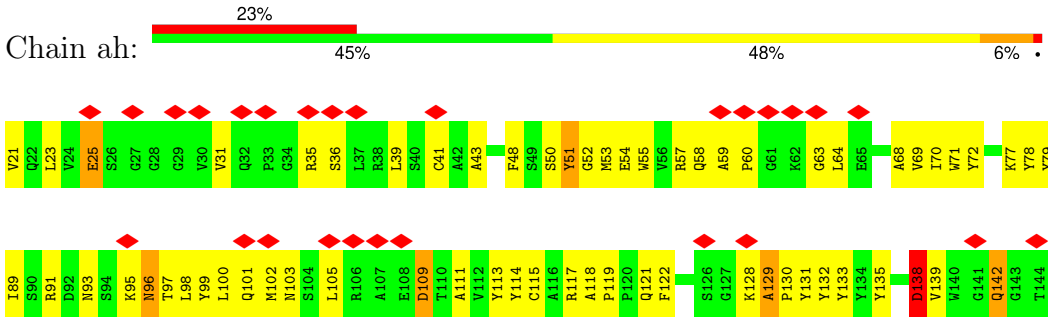
• Molecule 2: IgG Fab3-4 heavy chain

Chain 6h:



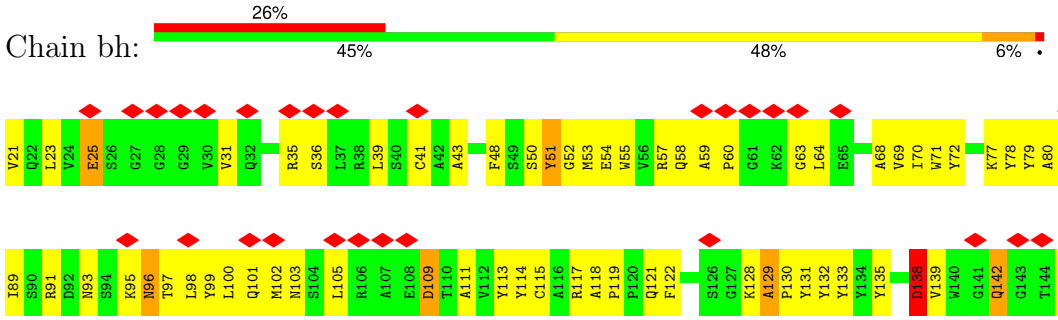
• Molecule 2: IgG Fab3-4 heavy chain

Chain ah:



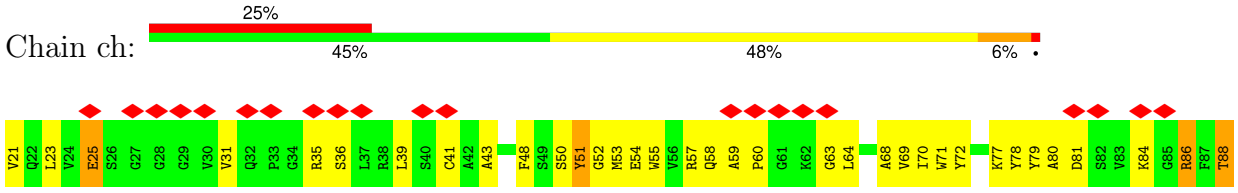
• Molecule 2: IgG Fab3-4 heavy chain

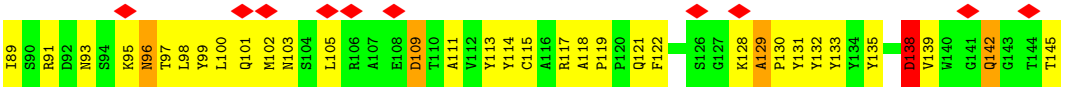
Chain bh:



• Molecule 2: IgG Fab3-4 heavy chain

Chain ch:

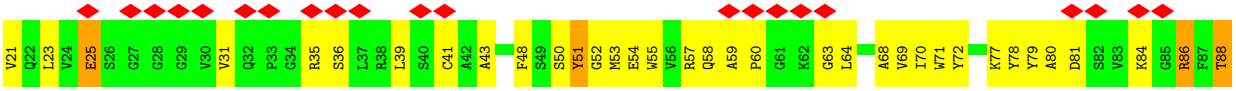


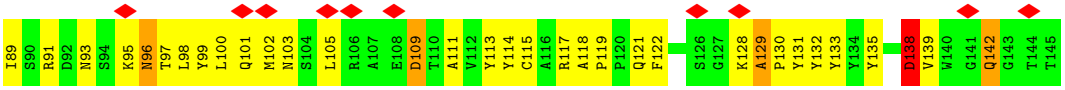


• Molecule 2: IgG Fab3-4 heavy chain

Chain dh:





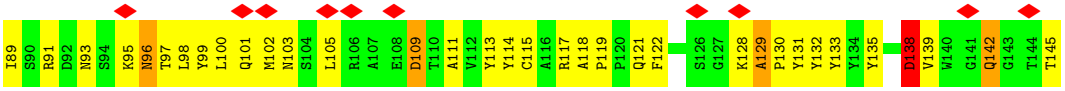


• Molecule 2: IgG Fab3-4 heavy chain

Chain eh:



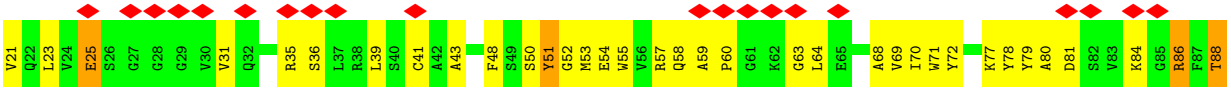


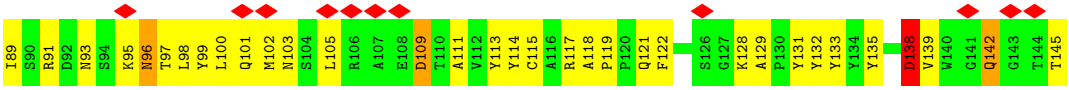


• Molecule 2: IgG Fab3-4 heavy chain

Chain fh:



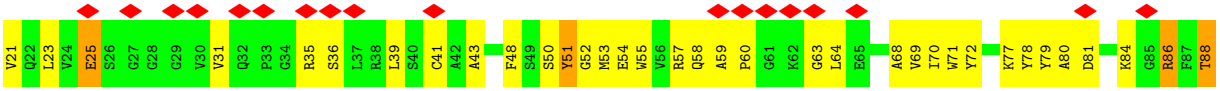




• Molecule 2: IgG Fab3-4 heavy chain

Chain gh:

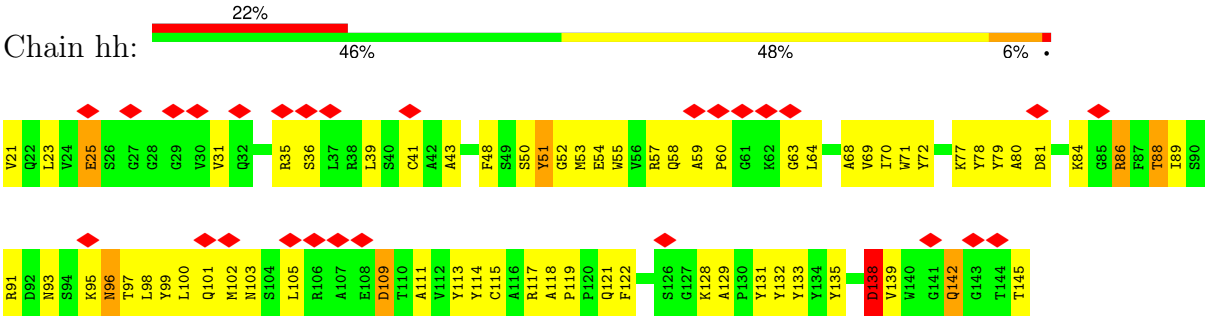






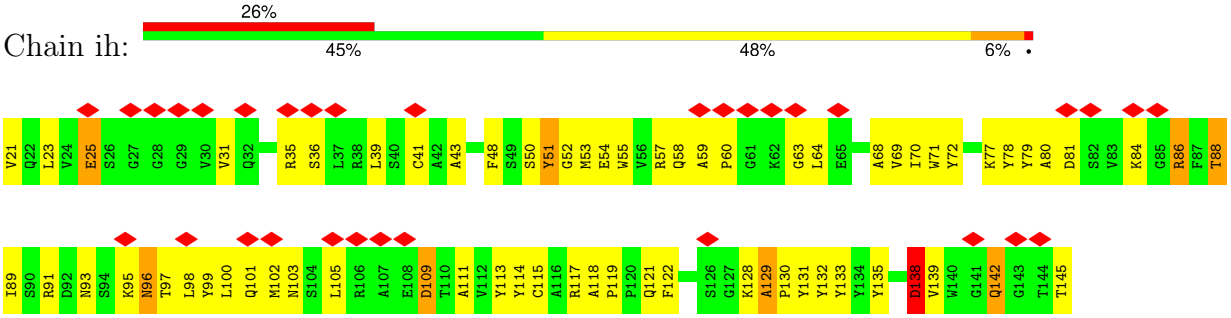
• Molecule 2: IgG Fab3-4 heavy chain

Chain hh:



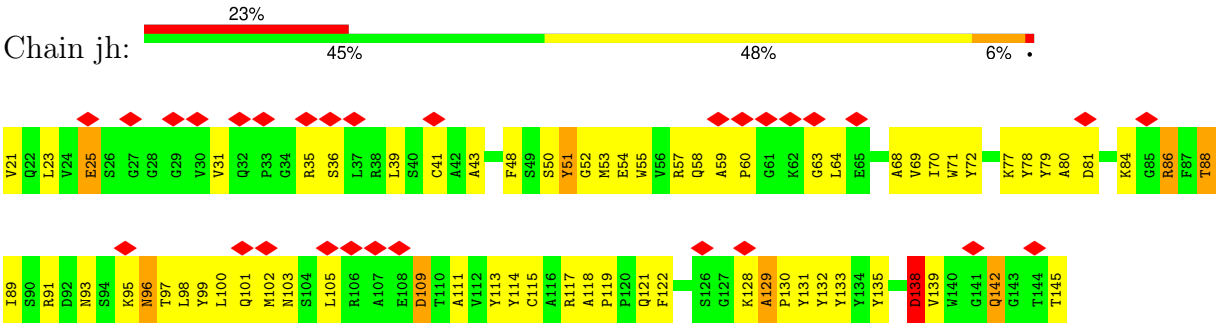
• Molecule 2: IgG Fab3-4 heavy chain

Chain ih:



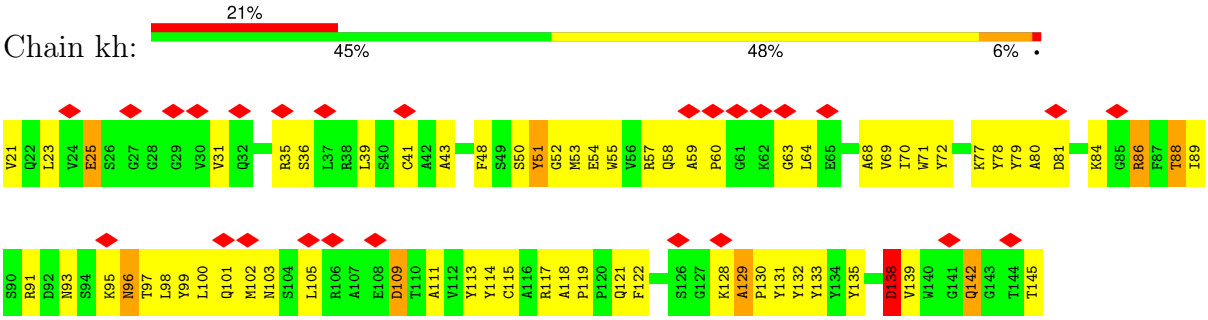
• Molecule 2: IgG Fab3-4 heavy chain

Chain jh:



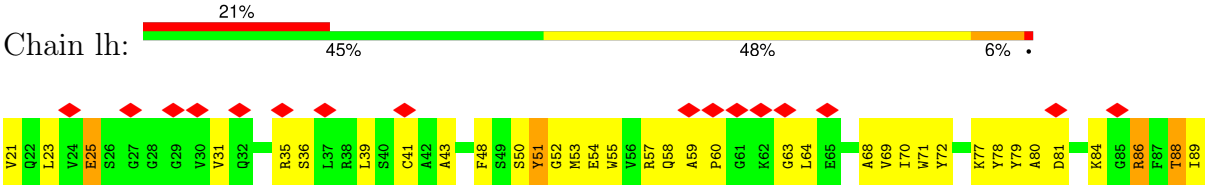
• Molecule 2: IgG Fab3-4 heavy chain

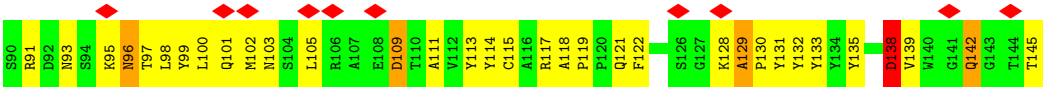
Chain kh:



• Molecule 2: IgG Fab3-4 heavy chain

Chain lh:

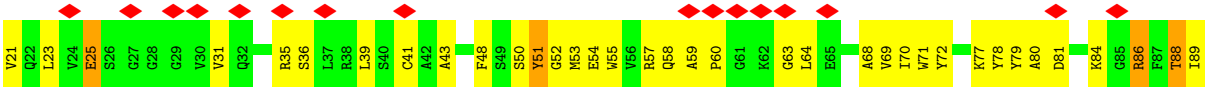




• Molecule 2: IgG Fab3-4 heavy chain

Chain mh:



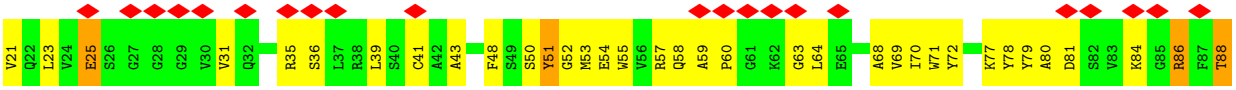




• Molecule 2: IgG Fab3-4 heavy chain

Chain nh:



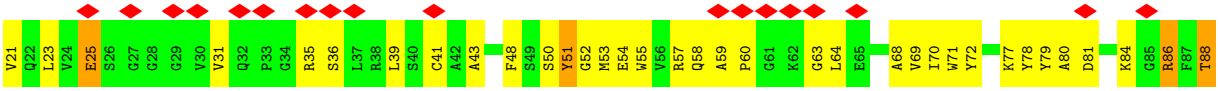




• Molecule 2: IgG Fab3-4 heavy chain

Chain oh:



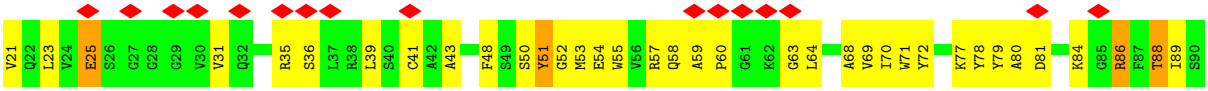


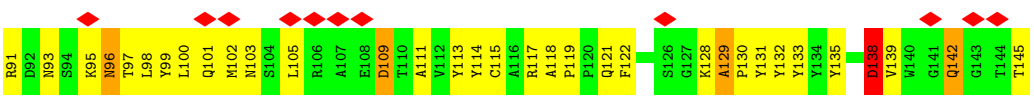


• Molecule 2: IgG Fab3-4 heavy chain

Chain ph:

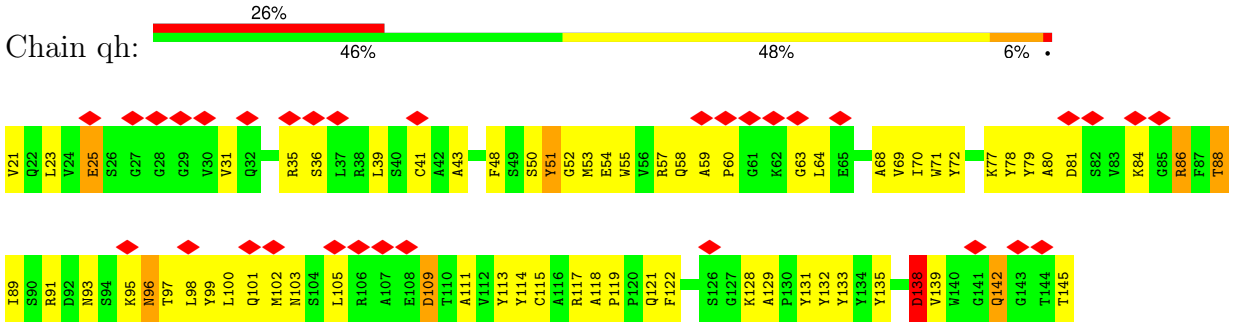






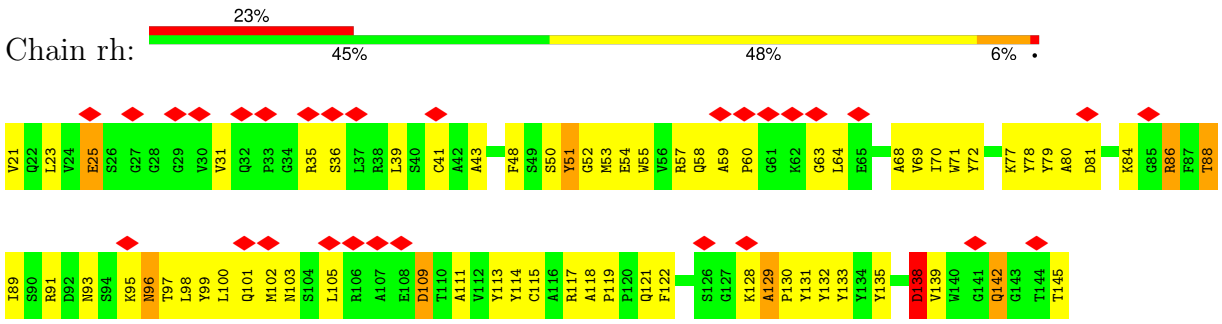
• Molecule 2: IgG Fab3-4 heavy chain

Chain qh:



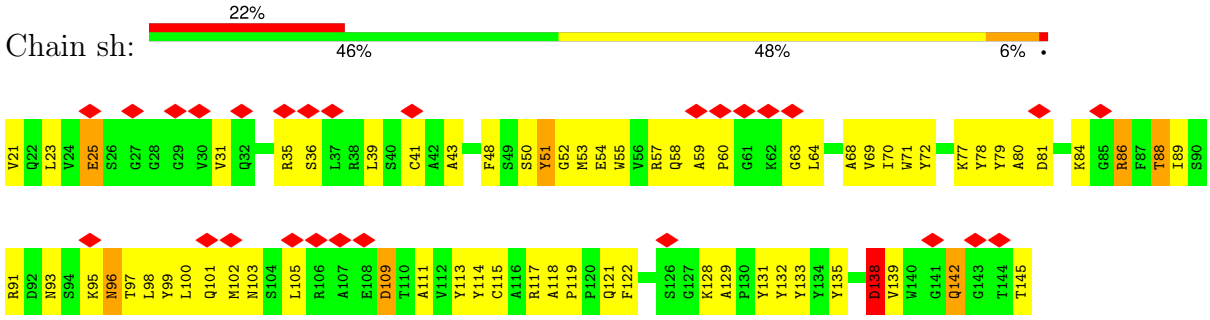
• Molecule 2: IgG Fab3-4 heavy chain

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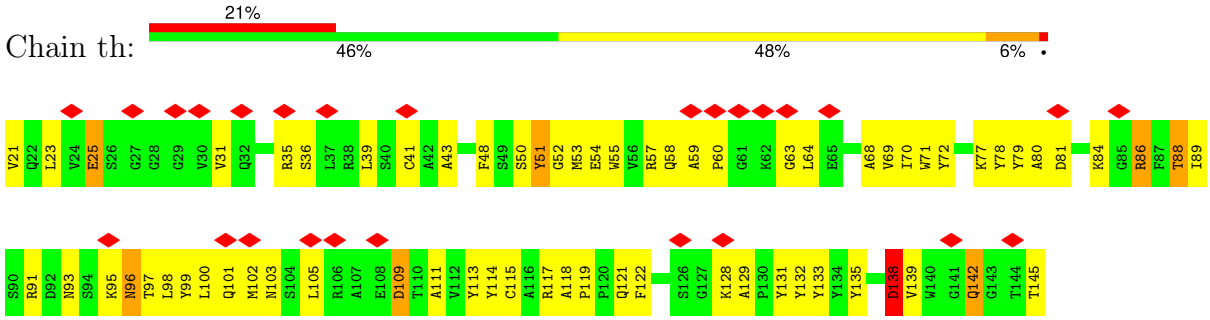
• Molecule 2: IgG Fab3-4 heavy chain

Chain sh:



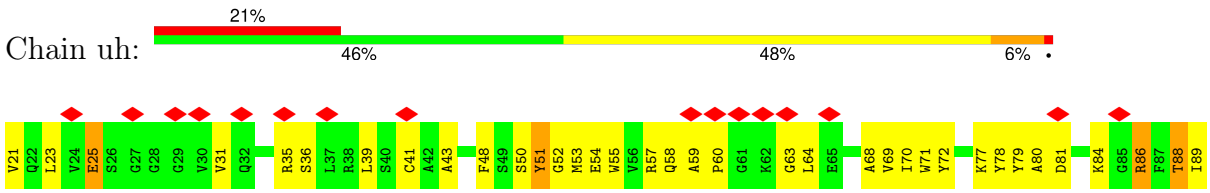
• Molecule 2: IgG Fab3-4 heavy chain

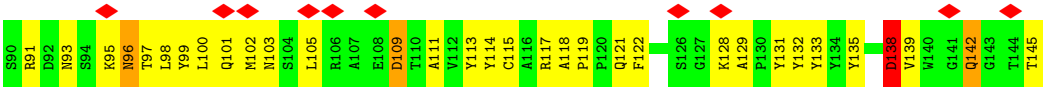
Chain th:



• Molecule 2: IgG Fab3-4 heavy chain

Chain uh:

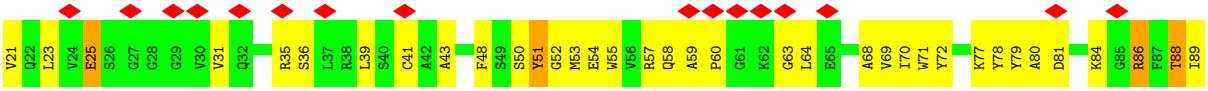




• Molecule 2: IgG Fab3-4 heavy chain

Chain vh:



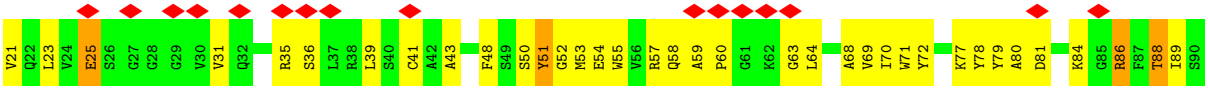


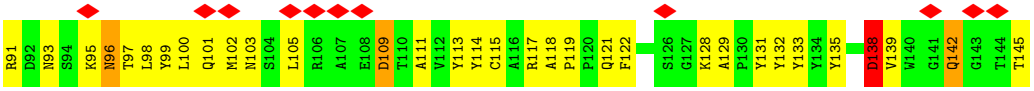


• Molecule 2: IgG Fab3-4 heavy chain

Chain wh:



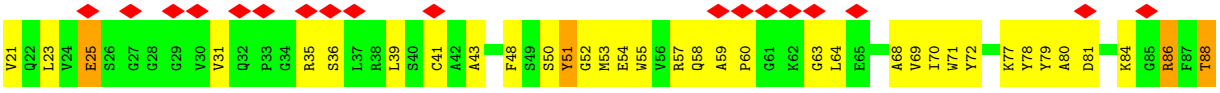




• Molecule 2: IgG Fab3-4 heavy chain

Chain xh:



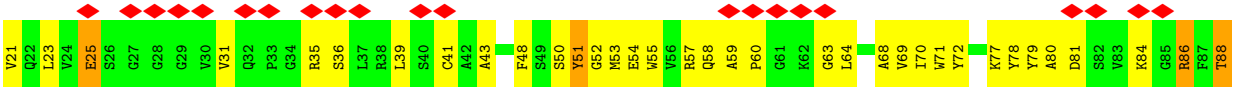




• Molecule 2: IgG Fab3-4 heavy chain

Chain yh:

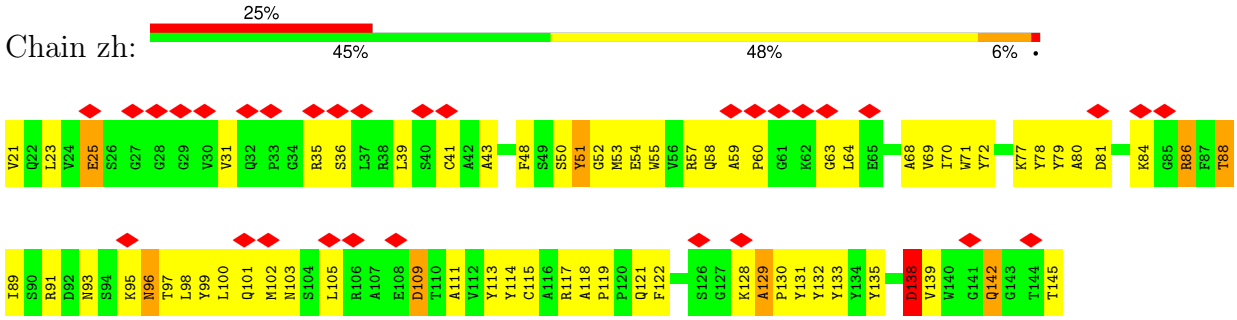






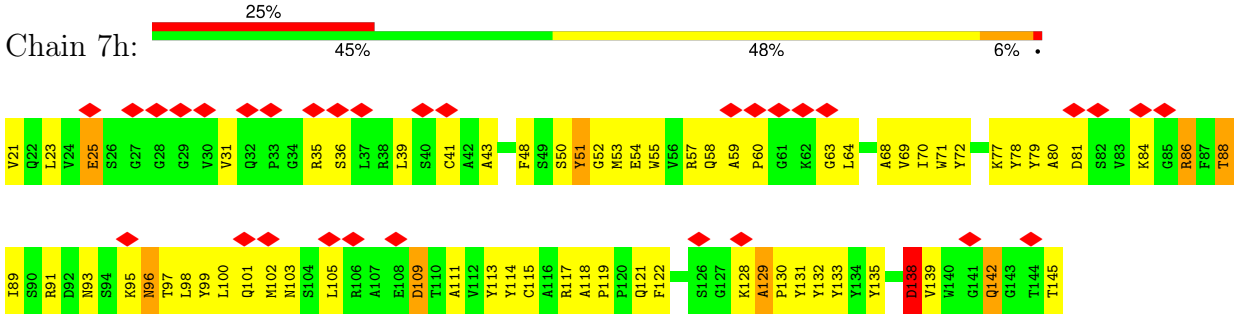
• Molecule 2: IgG Fab3-4 heavy chain

Chain zh:



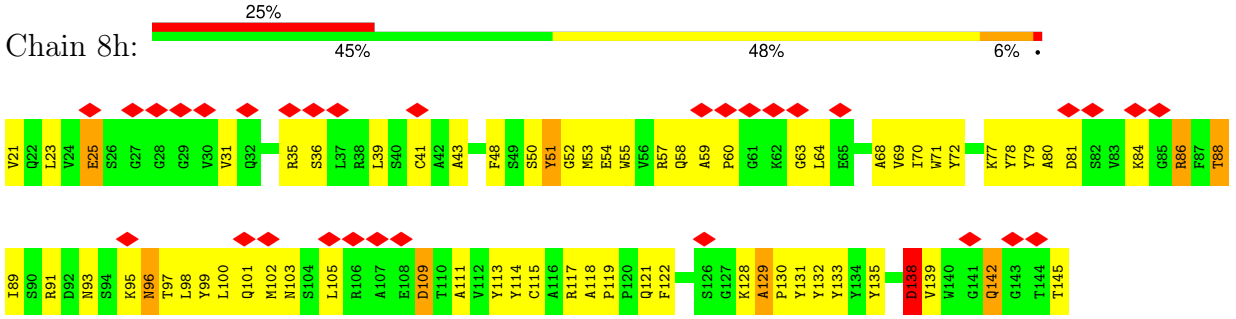
• Molecule 2: IgG Fab3-4 heavy chain

Chain 7h:



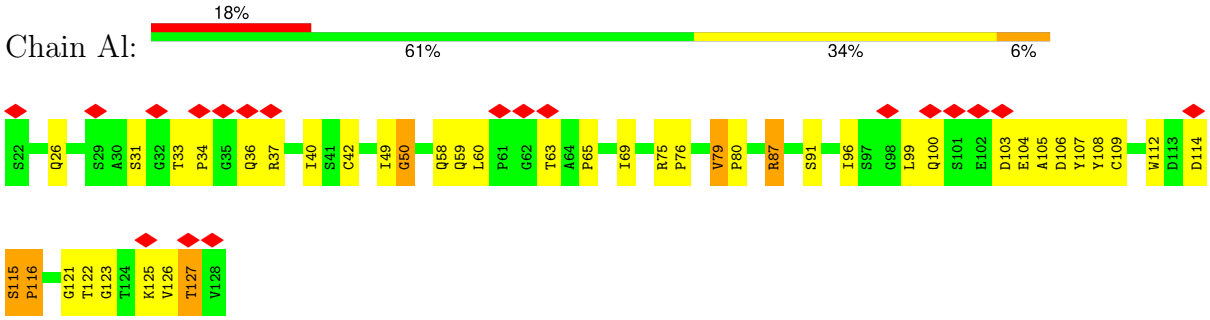
• Molecule 2: IgG Fab3-4 heavy chain

Chain 8h:



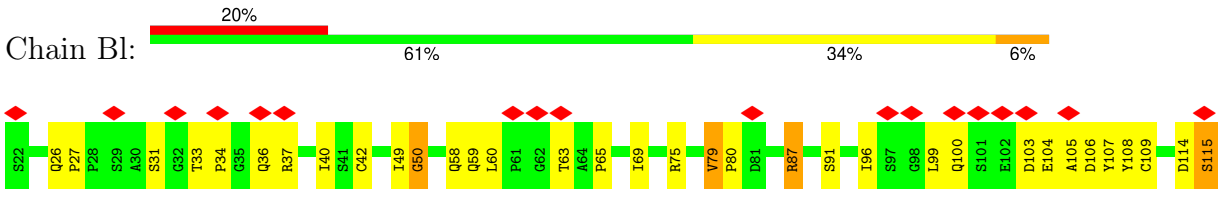
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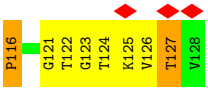
Chain Al:



• Molecule 3: IgG Fab3-4 light chain

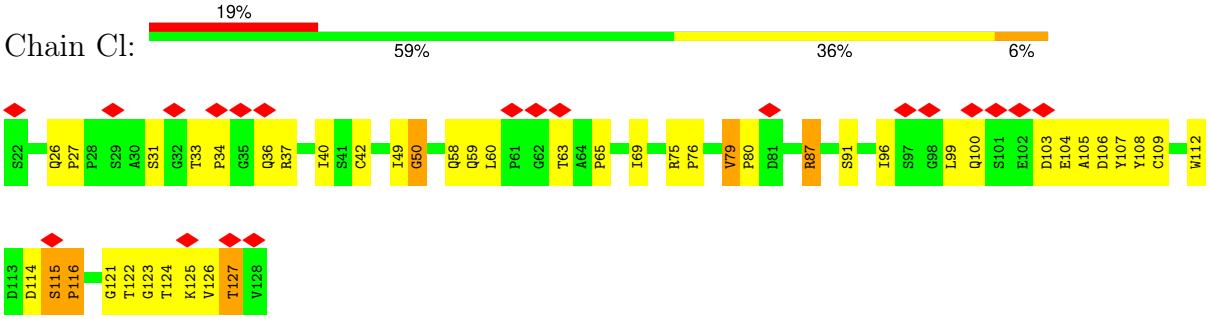
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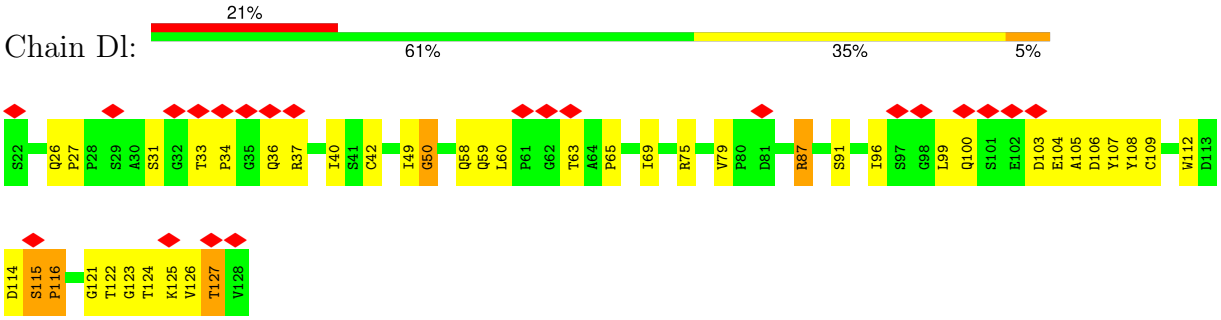
• Molecule 3: IgG Fab3-4 light chain

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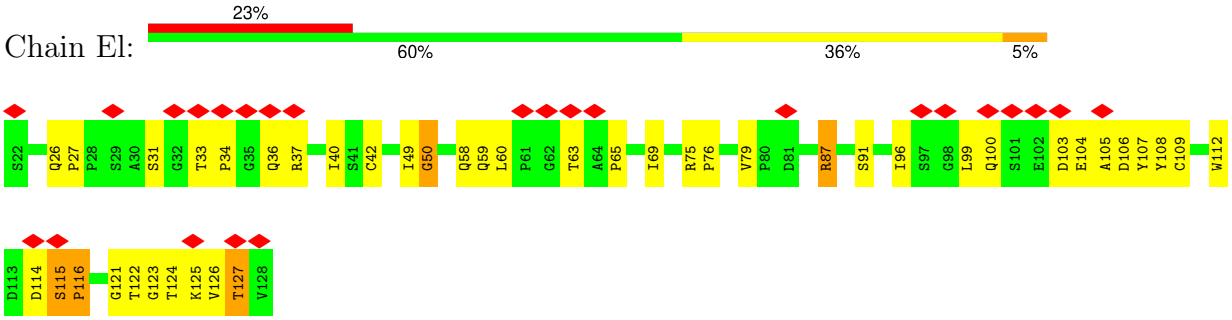
• Molecule 3: IgG Fab3-4 light chain

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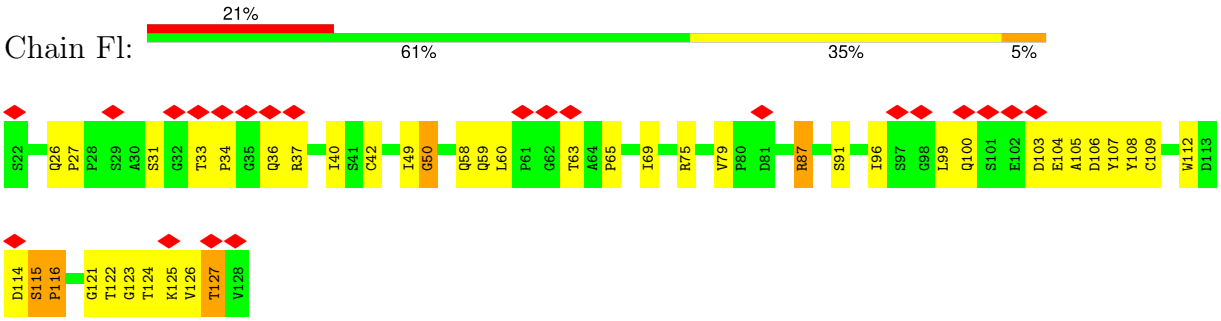
• Molecule 3: IgG Fab3-4 light chain

Chain El:



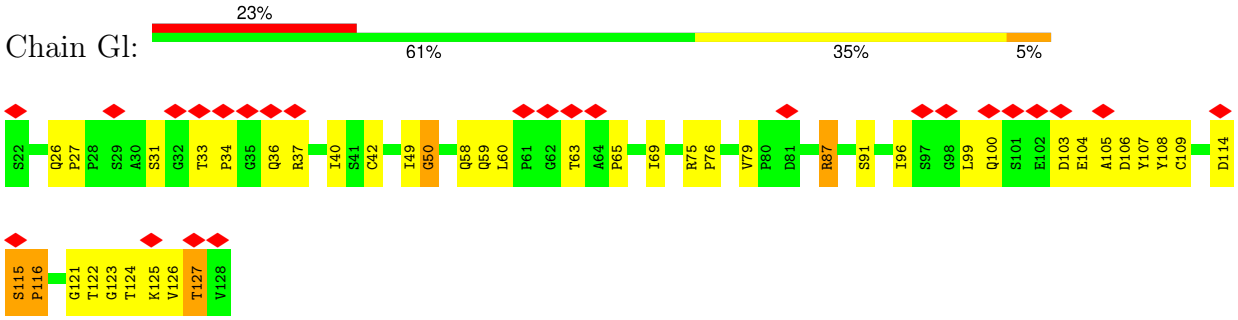
• Molecule 3: IgG Fab3-4 light chain

Chain Fl:



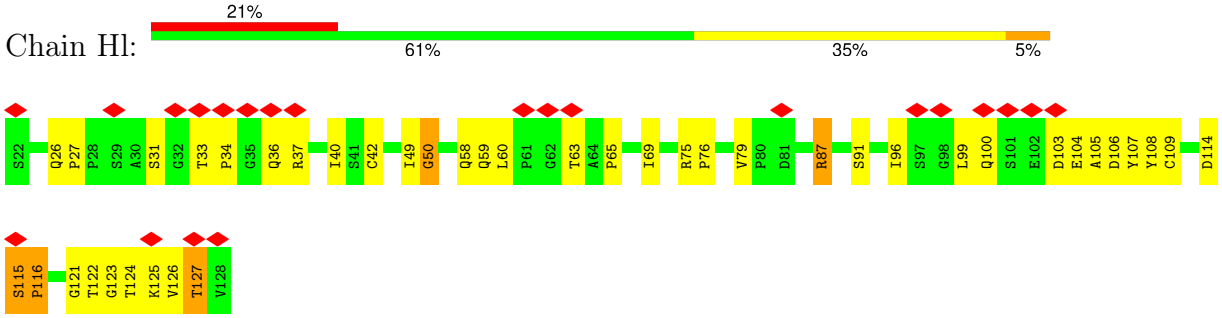
• Molecule 3: IgG Fab3-4 light chain

Chain Gl:



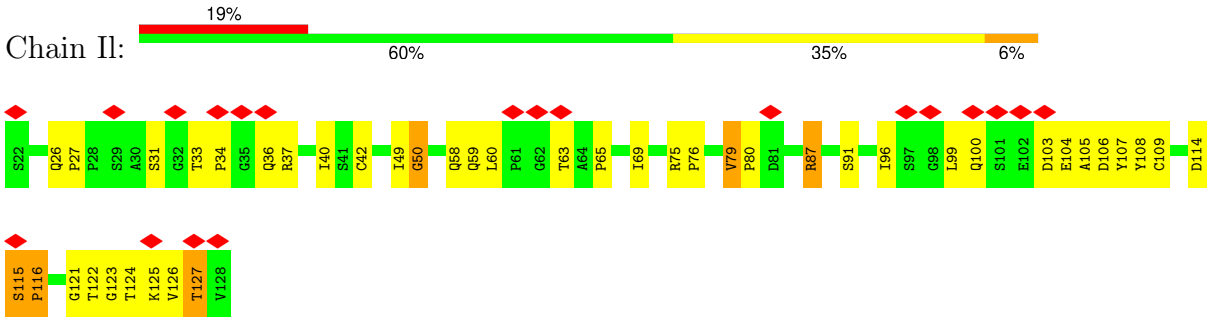
• Molecule 3: IgG Fab3-4 light chain

Chain Hl:



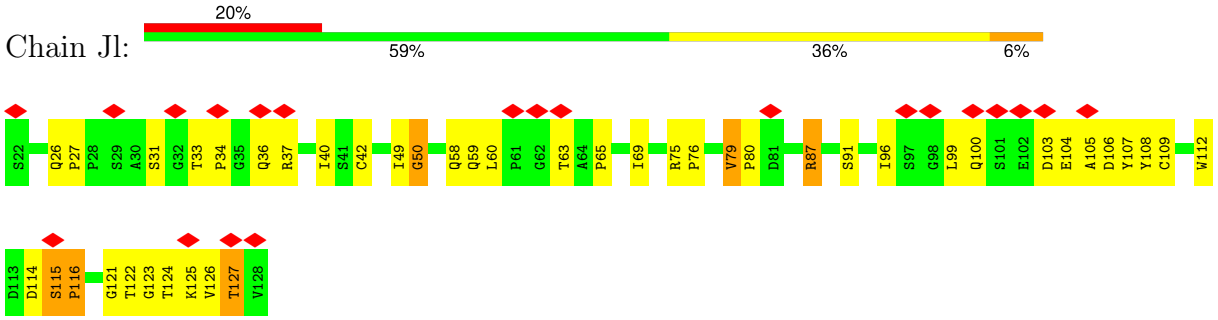
• Molecule 3: IgG Fab3-4 light chain

Chain Il:



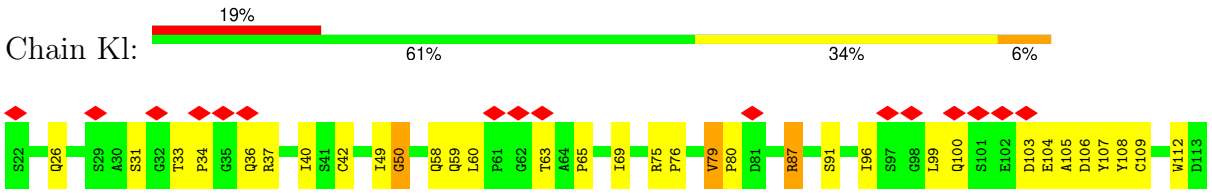
• Molecule 3: IgG Fab3-4 light chain

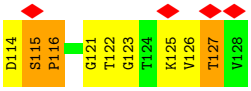
Chain Jl:



• Molecule 3: IgG Fab3-4 light chain

Chain Kl:

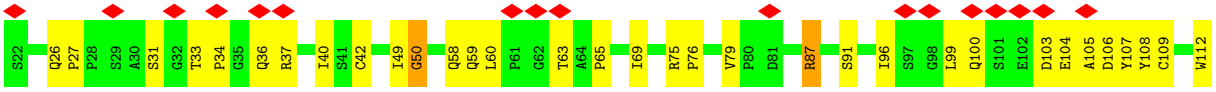


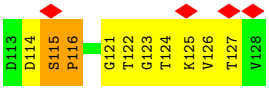


• Molecule 3: IgG Fab3-4 light chain

Chain Ll:



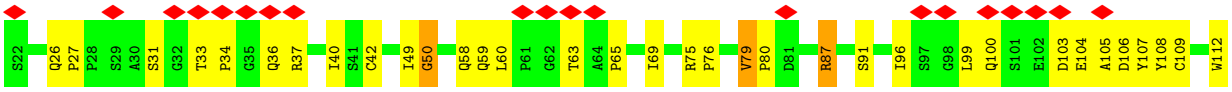


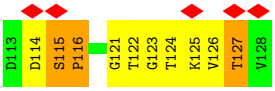


• Molecule 3: IgG Fab3-4 light chain

Chain Ml:



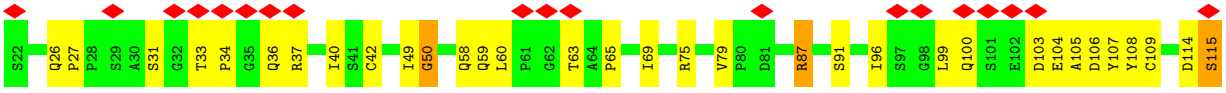


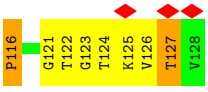


• Molecule 3: IgG Fab3-4 light chain

Chain Nl:



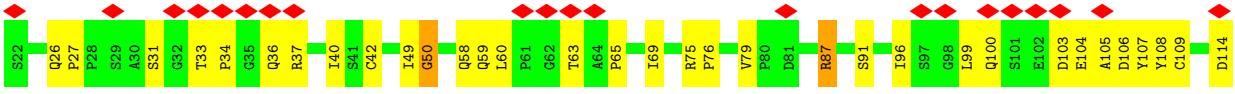


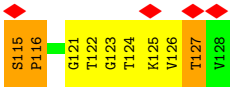


• Molecule 3: IgG Fab3-4 light chain

Chain Ol:

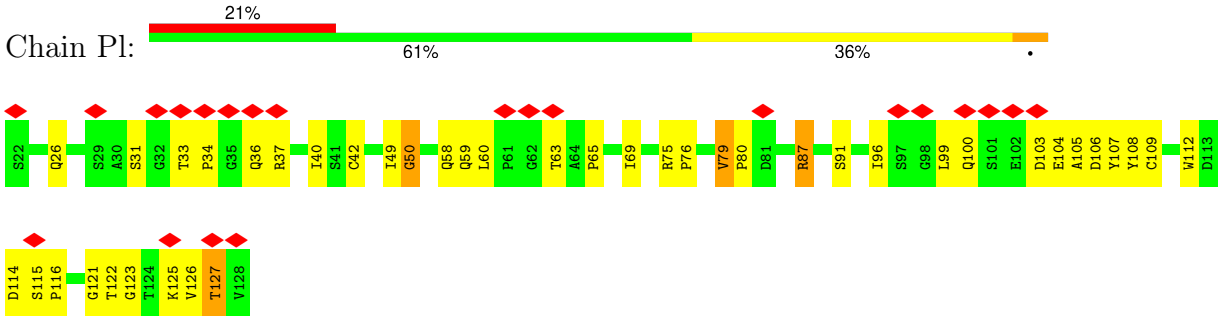






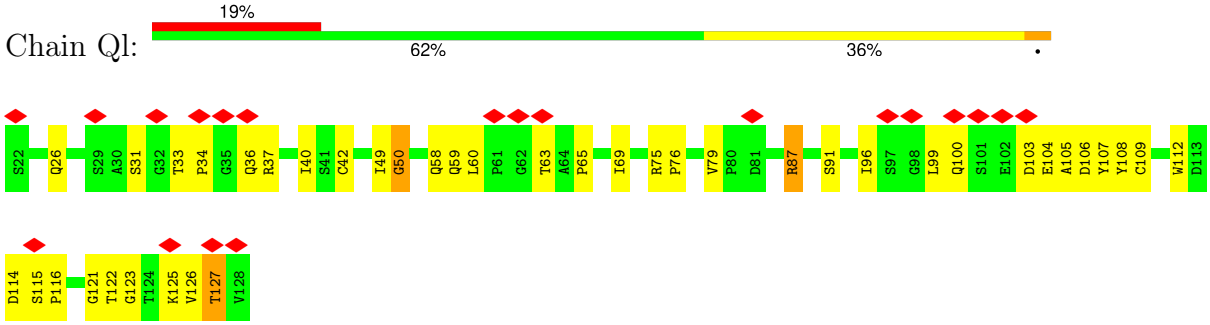
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Chain Pl:



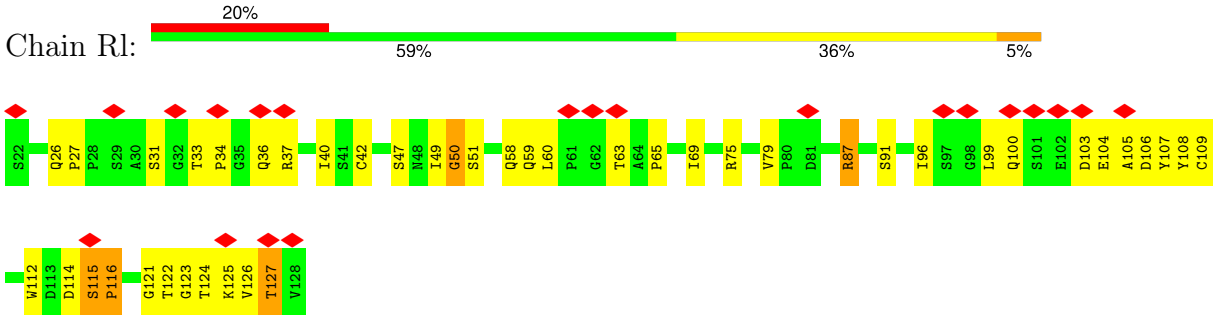
• Molecule 3: IgG Fab3-4 light chain

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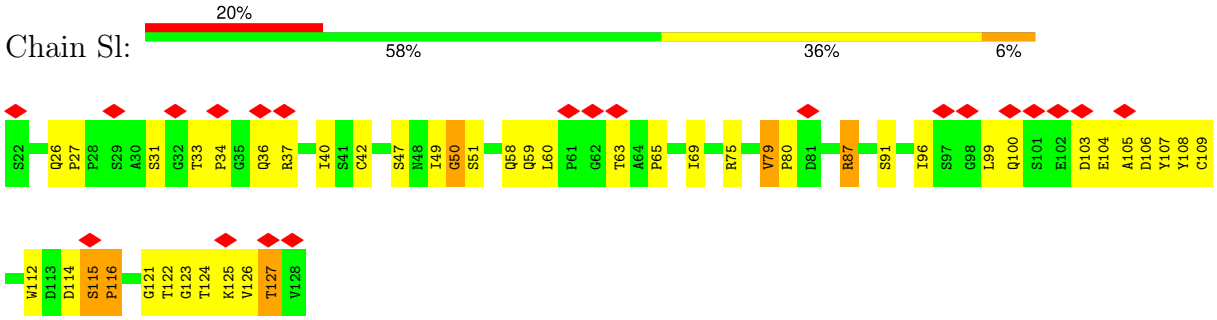
• Molecule 3: IgG Fab3-4 light chain

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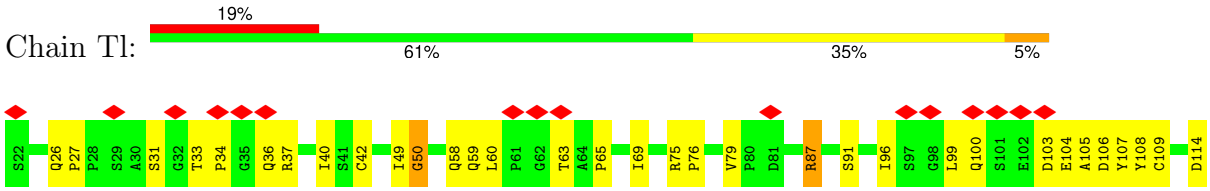
• Molecule 3: IgG Fab3-4 light chain

Chain Sl:



• Molecule 3: IgG Fab3-4 light chain

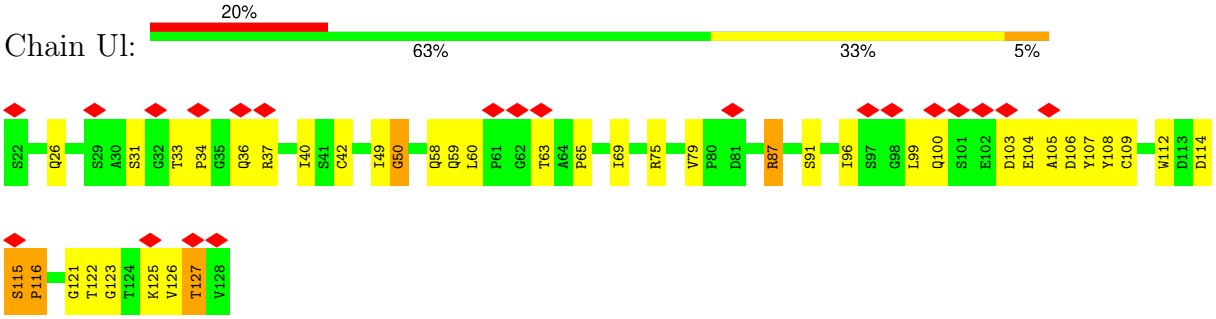
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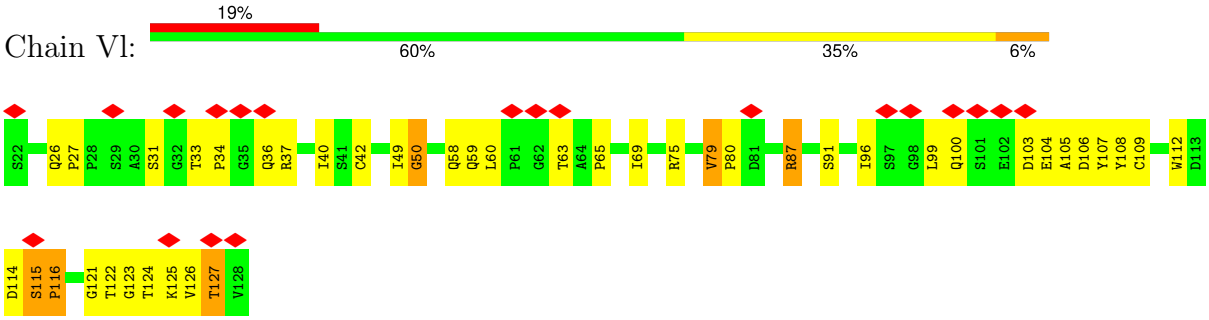
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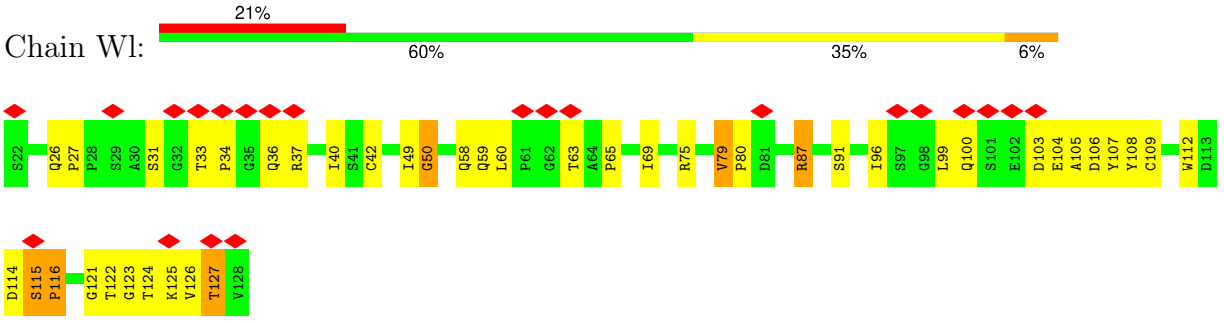
• Molecule 3: IgG Fab3-4 light chain

Chain Vl:



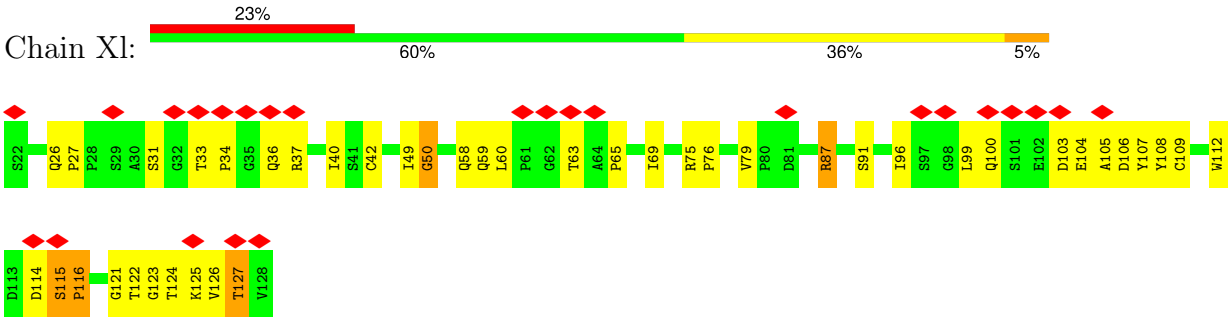
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Chain Wl:



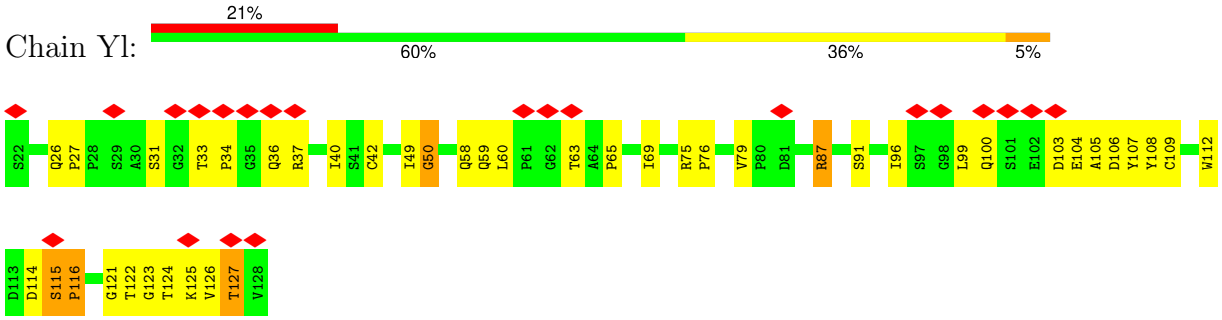
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Chain Xl:



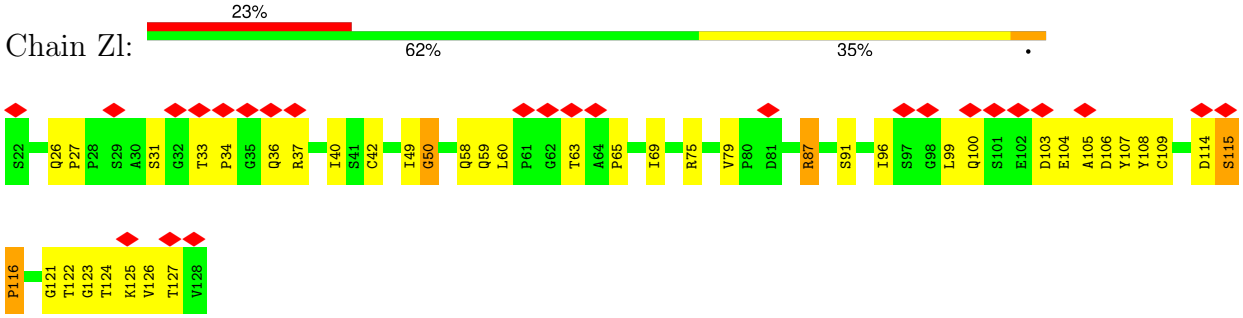
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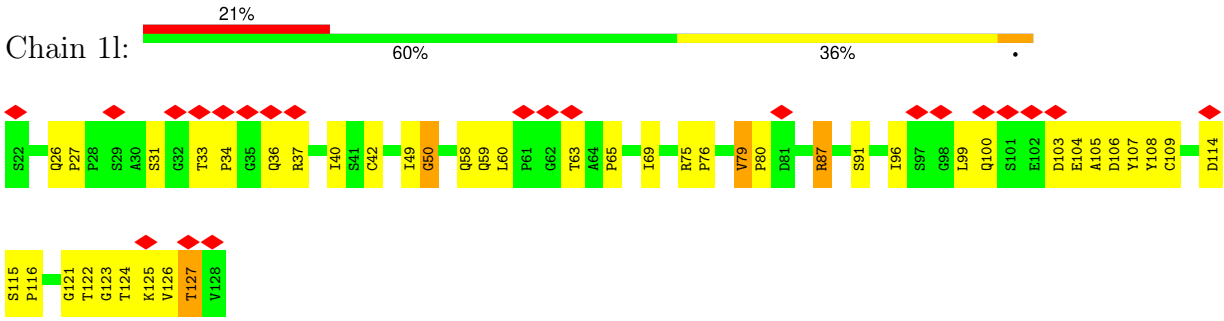
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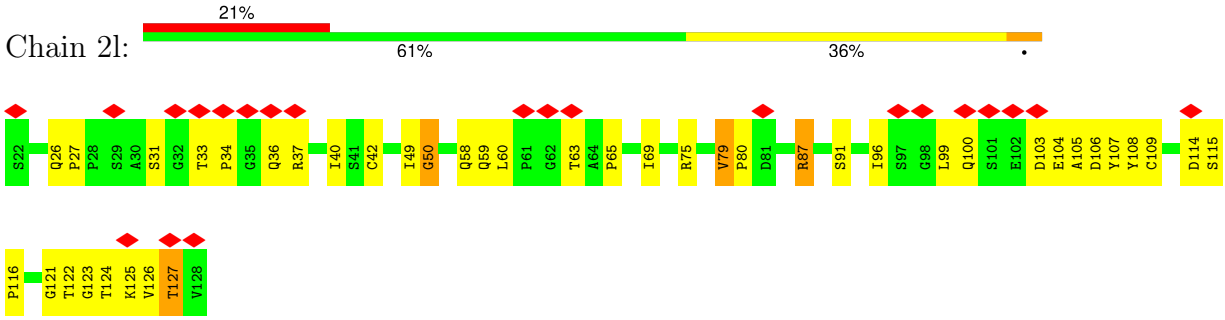
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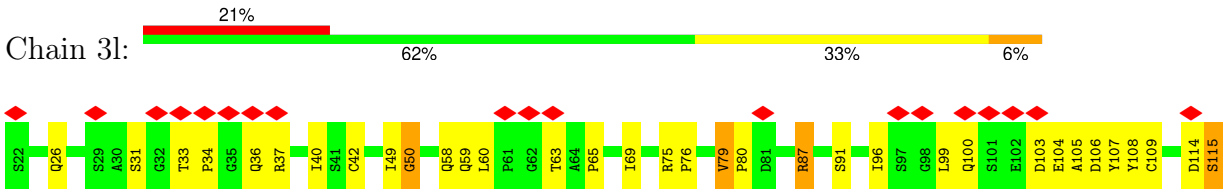
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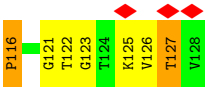
Chain 2l:



• Molecule 3: IgG Fab3-4 light chain

Chain 3l:

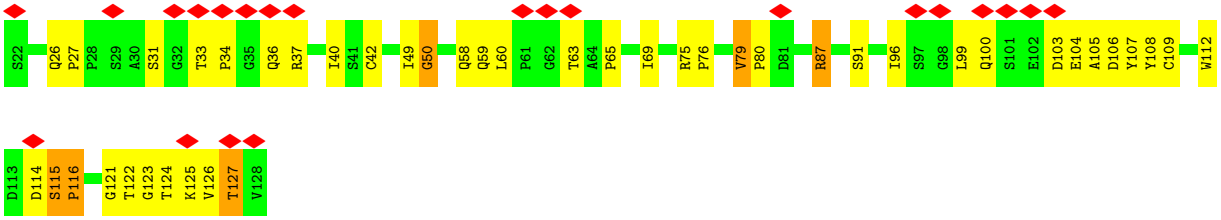




• Molecule 3: IgG Fab3-4 light chain

Chain 4l:

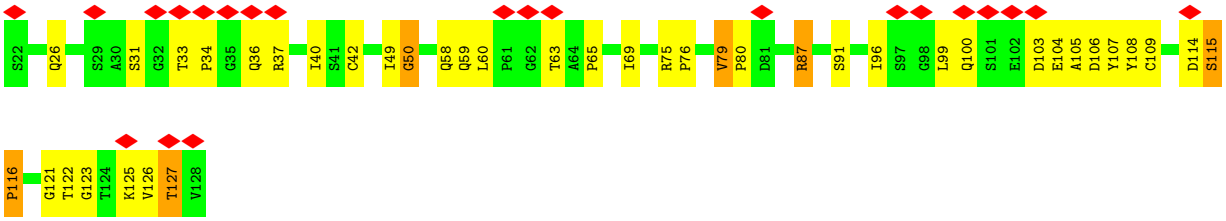




• Molecule 3: IgG Fab3-4 light chain

Chain 5l:

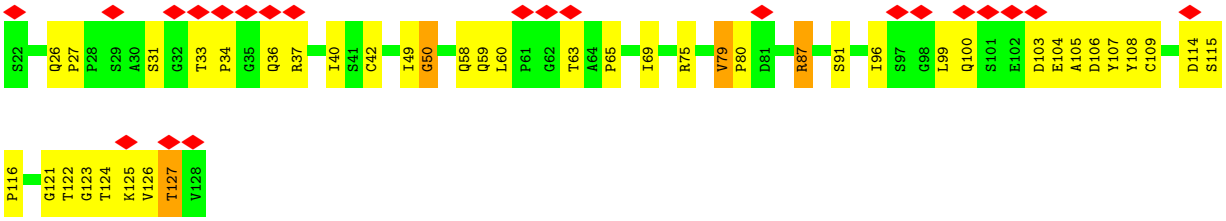




• Molecule 3: IgG Fab3-4 light chain

Chain 6l:

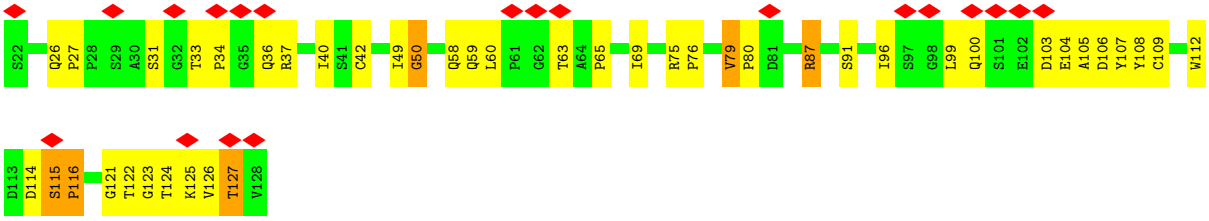




• Molecule 3: IgG Fab3-4 light chain

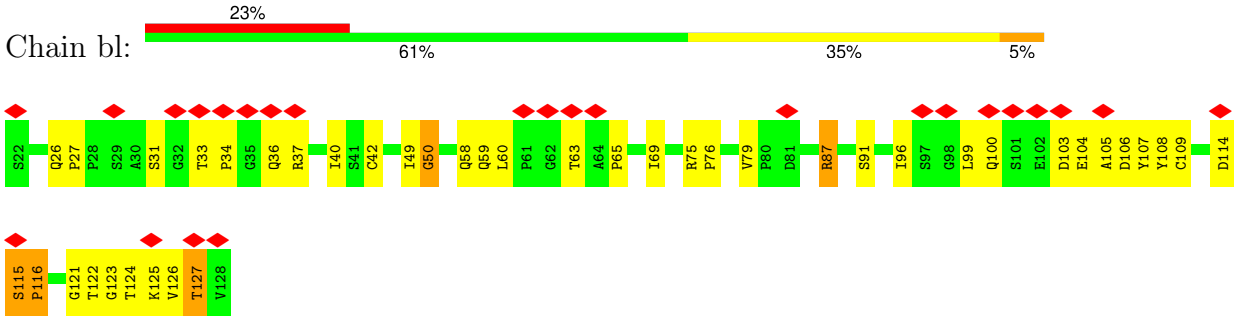
Chain al:





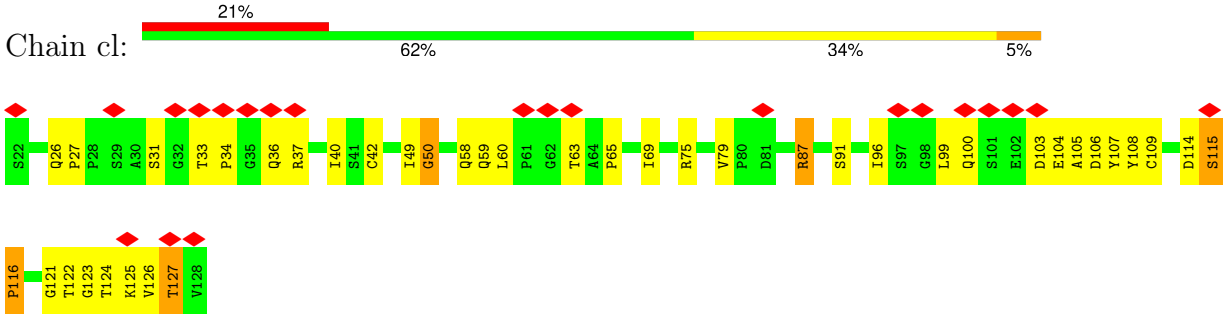
• Molecule 3: IgG Fab3-4 light chain

Chain bl:



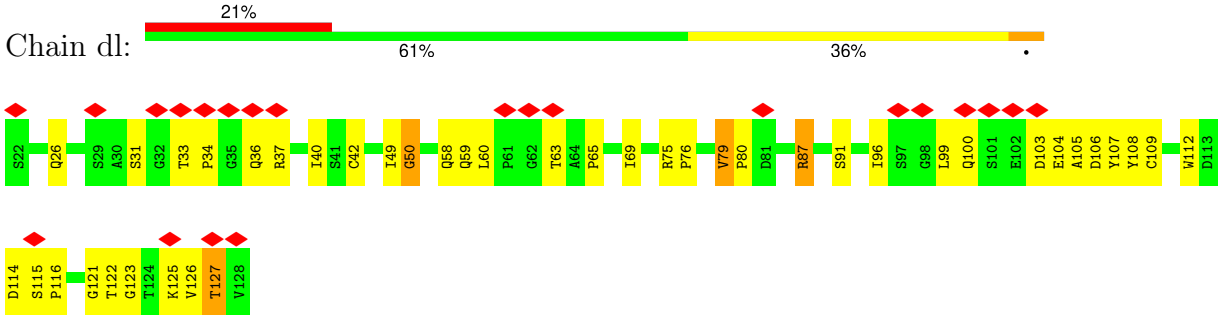
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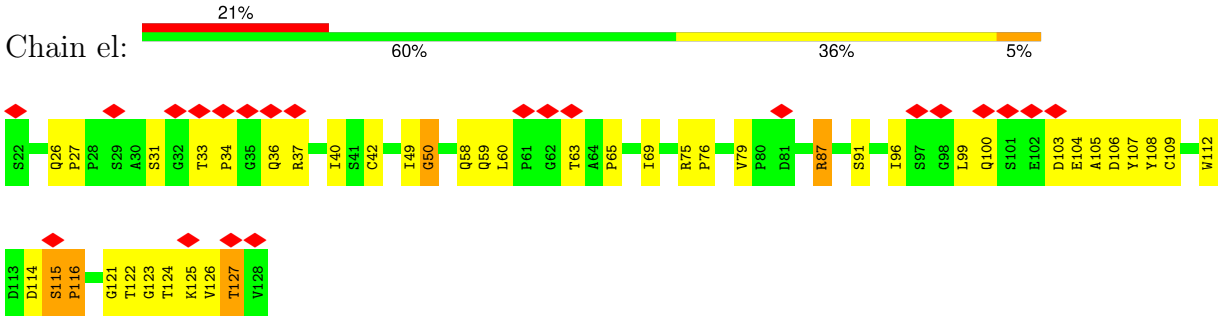
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Chain dl:



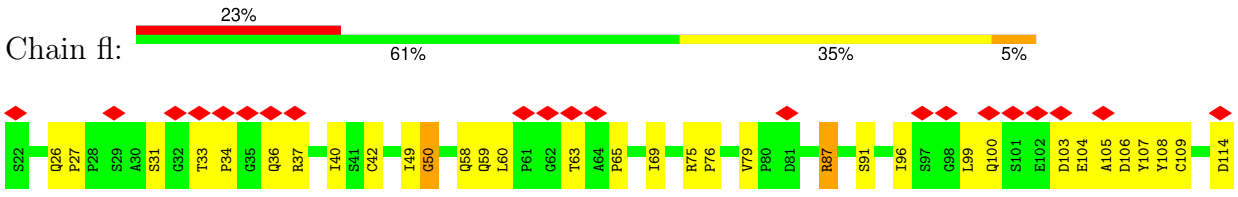
• Molecule 3: IgG Fab3-4 light chain

Chain el:



• Molecule 3: IgG Fab3-4 light chain

Chain fl:

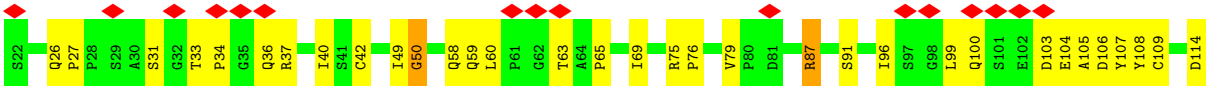




• Molecule 3: IgG Fab3-4 light chain

Chain gl:



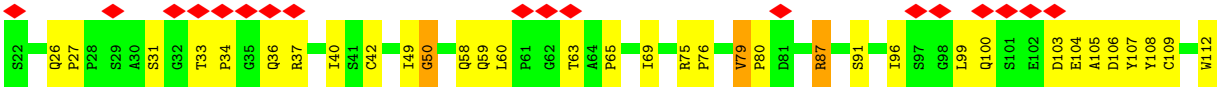


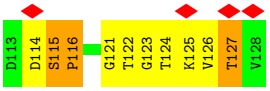


• Molecule 3: IgG Fab3-4 light chain

Chain hl:



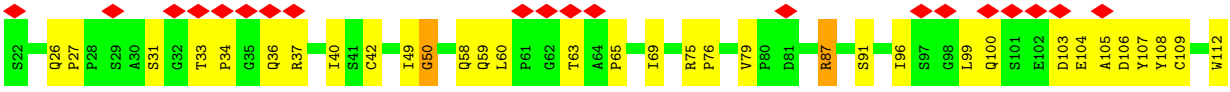


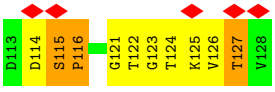


• Molecule 3: IgG Fab3-4 light chain

Chain il:



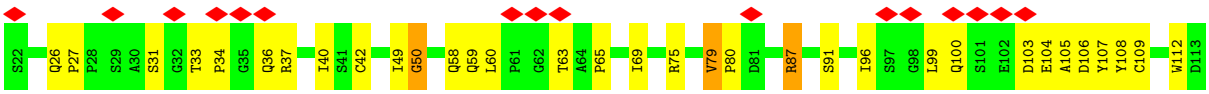


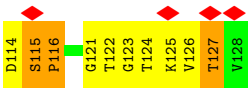


• Molecule 3: IgG Fab3-4 light chain

Chain jl:

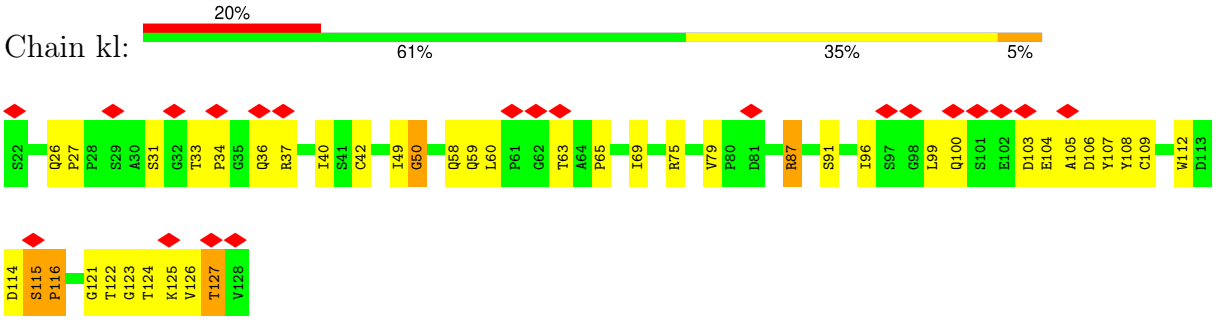






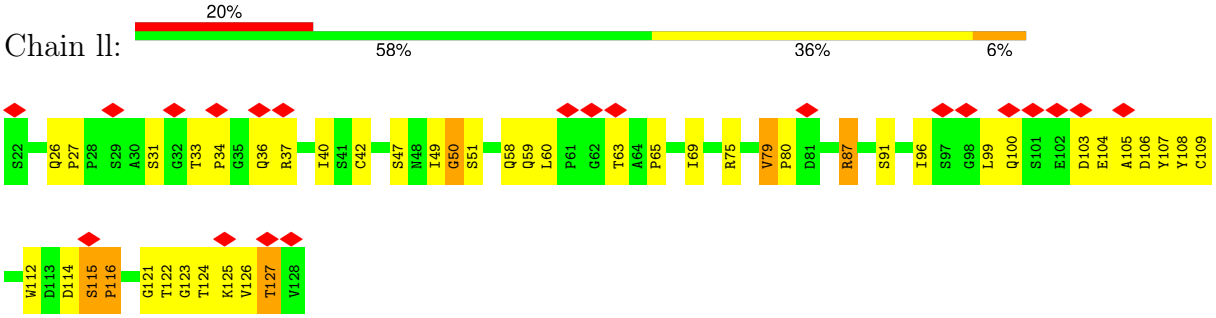
• Molecule 3: IgG Fab3-4 light chain

Chain kl:



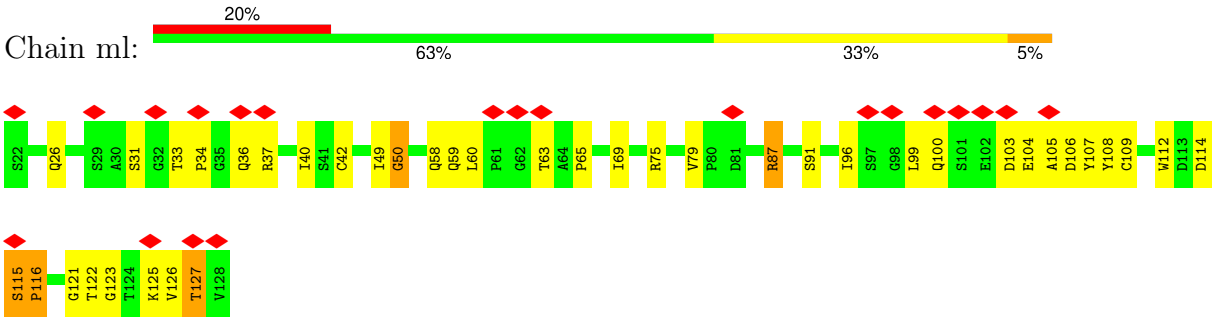
• Molecule 3: IgG Fab3-4 light chain

Chain ll:



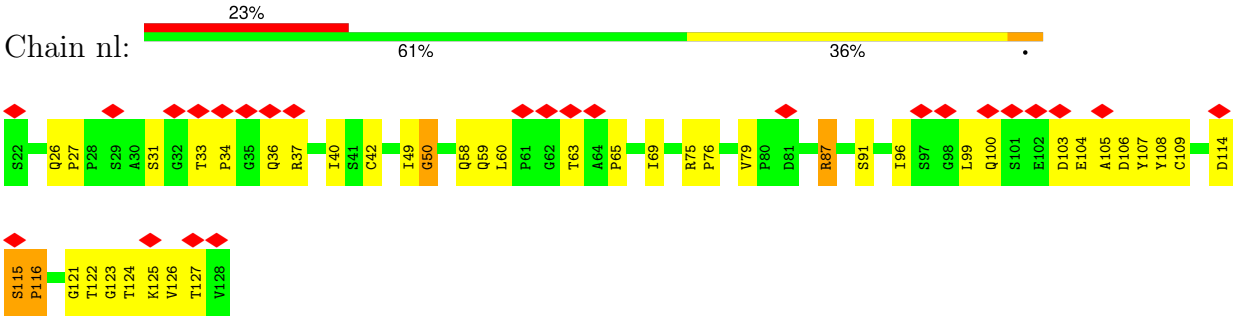
• Molecule 3: IgG Fab3-4 light chain

Chain ml:



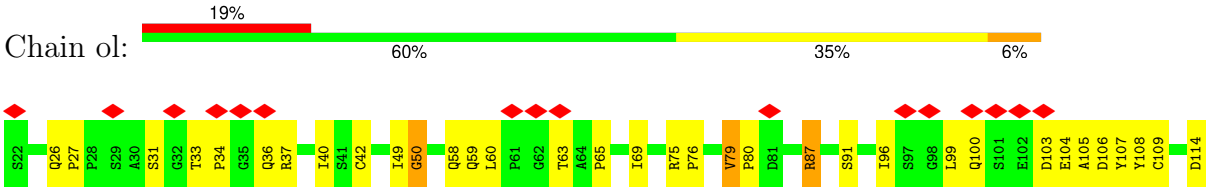
• Molecule 3: IgG Fab3-4 light chain

Chain nl:



• Molecule 3: IgG Fab3-4 light chain

Chain ol:

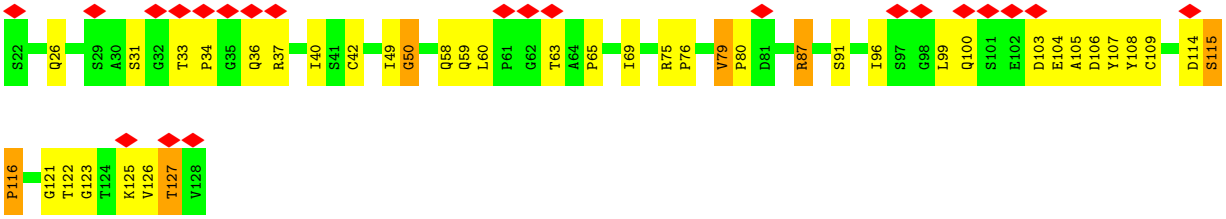




• Molecule 3: IgG Fab3-4 light chain

Chain pl:

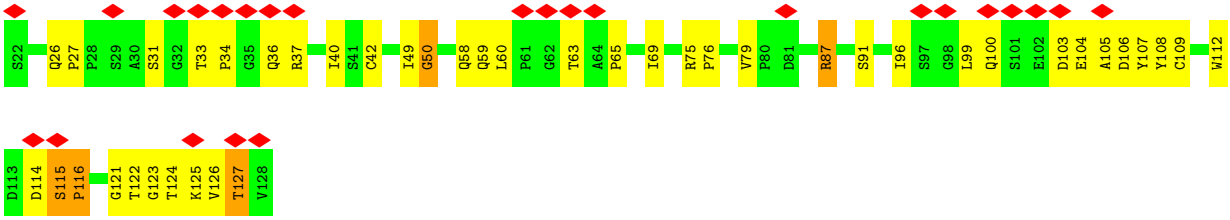




• Molecule 3: IgG Fab3-4 light chain

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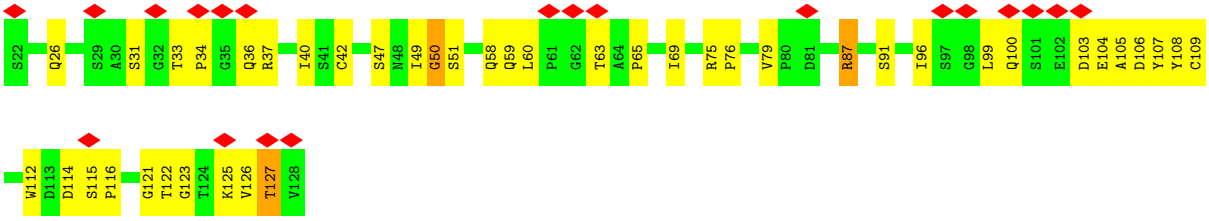




• Molecule 3: IgG Fab3-4 light chain

Chain rl:

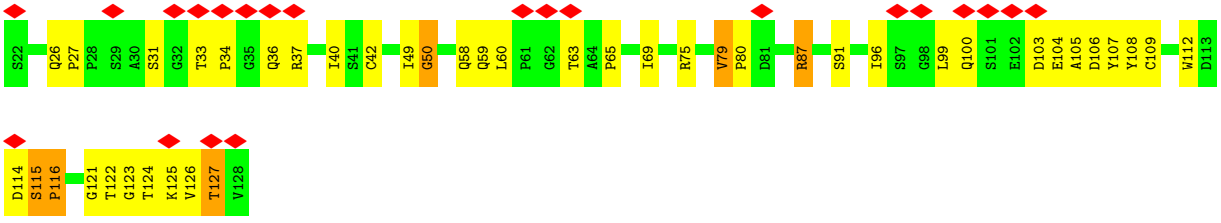




• Molecule 3: IgG Fab3-4 light chain

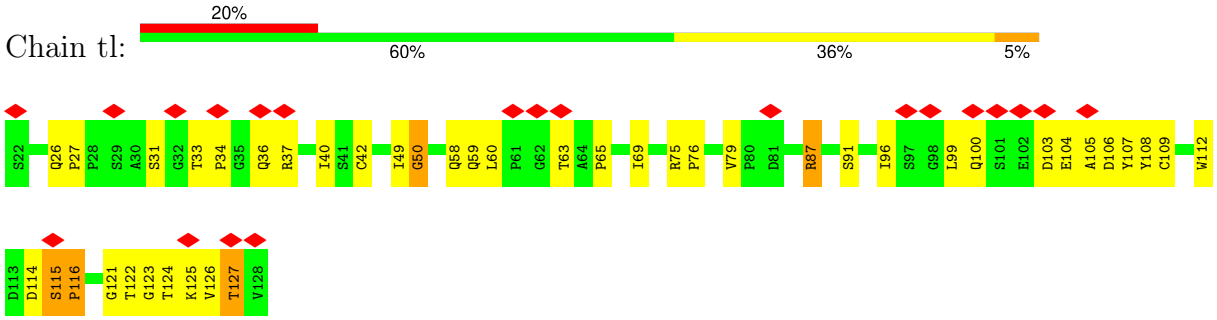
Chain sl:





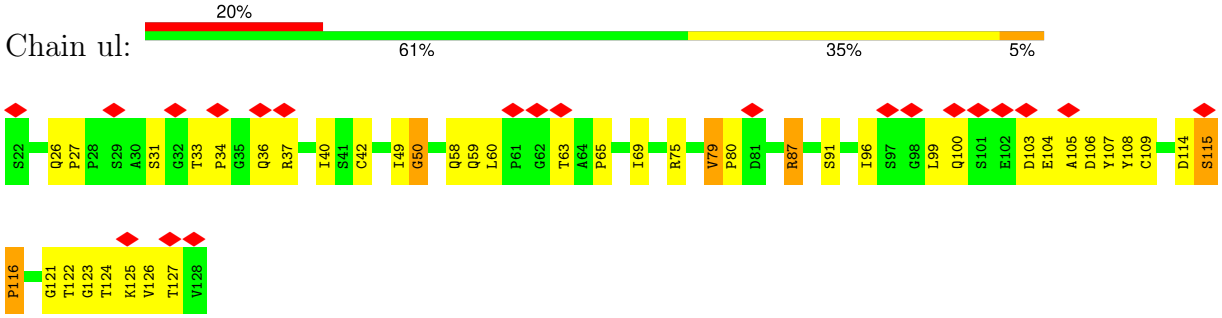
• Molecule 3: IgG Fab3-4 light chain

Chain tl:



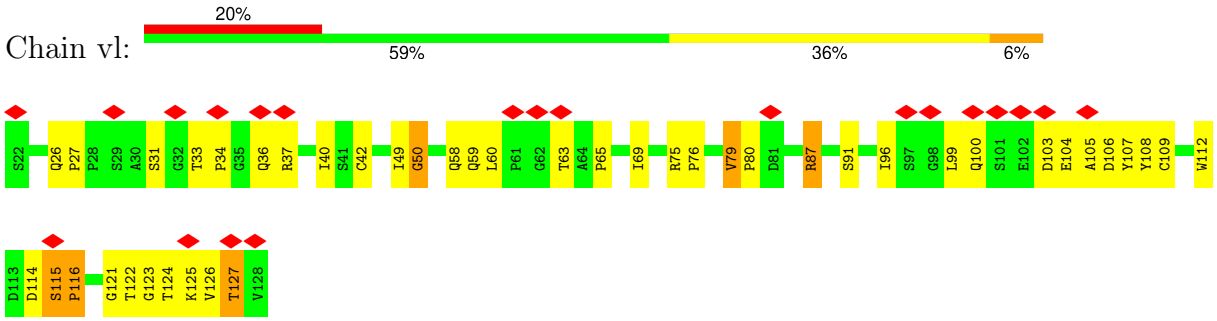
• Molecule 3: IgG Fab3-4 light chain

Chain ul:



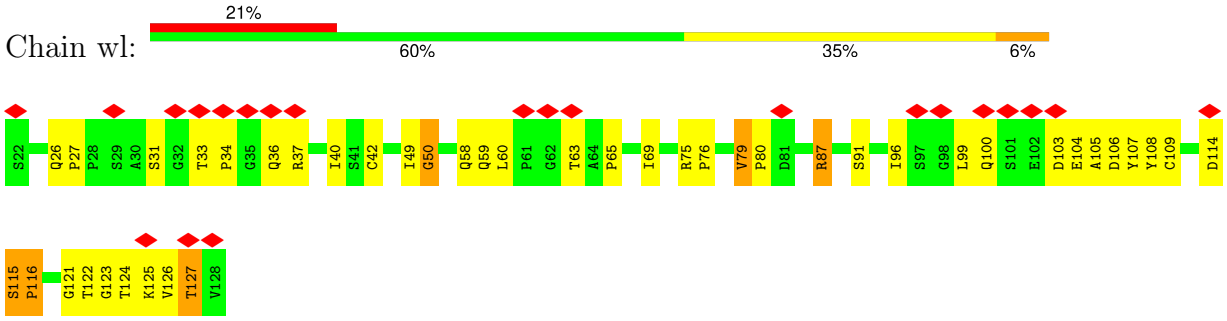
• Molecule 3: IgG Fab3-4 light chain

Chain vl:



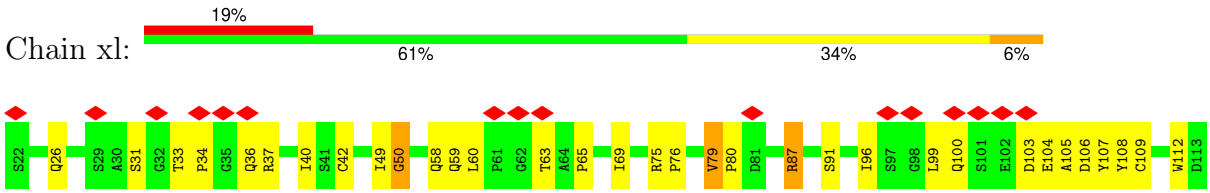
• Molecule 3: IgG Fab3-4 light chain

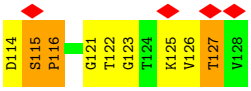
Chain wl:



• Molecule 3: IgG Fab3-4 light chain

Chain xl:

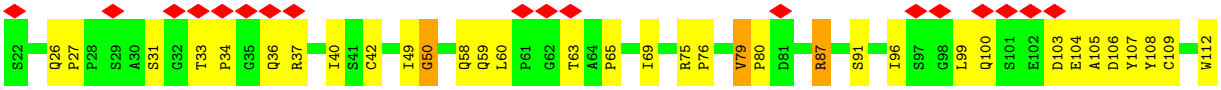


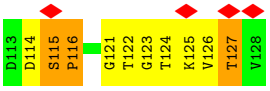


• Molecule 3: IgG Fab3-4 light chain

Chain yl:



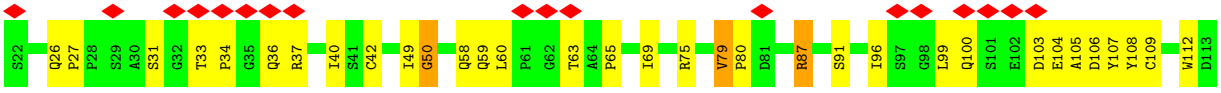




• Molecule 3: IgG Fab3-4 light chain

Chain zl:



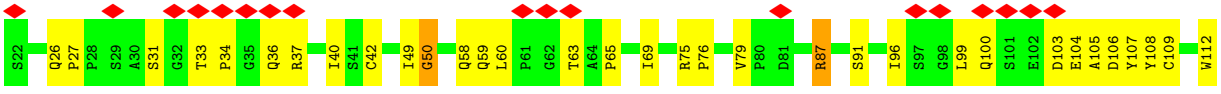


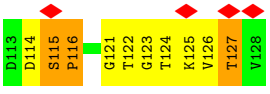


• Molecule 3: IgG Fab3-4 light chain

Chain 7l:



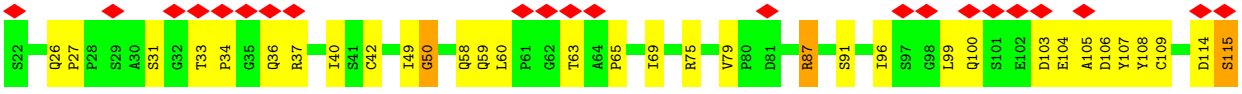


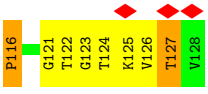


• Molecule 3: IgG Fab3-4 light chain

Chain 8l:







4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	22372	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS GLACIOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	32.44	Depositor
Minimum defocus (nm)	320	Depositor
Maximum defocus (nm)	2450	Depositor
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	16.151	Depositor
Minimum map value	-10.420	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	439.19998, 439.19998, 439.19998	wwPDB
Map dimensions	600, 600, 600	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.732, 0.732, 0.732	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	2	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	3	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	4	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	5	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	6	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	7	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	8	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	A	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	B	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	C	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	D	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	E	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	F	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	G	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	H	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	I	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	J	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	K	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	L	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	M	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	N	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	O	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	P	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	Q	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	R	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	S	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	T	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	U	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	V	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	W	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	X	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	Y	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	Z	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	b	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	c	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	d	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	e	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	f	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	g	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	h	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	i	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	j	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	k	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	l	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	m	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	n	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	o	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	p	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	q	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	r	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	s	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	t	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	u	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	v	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	w	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	x	0.72	3/4258 (0.1%)	0.91	21/5804 (0.4%)
1	y	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
1	z	0.72	3/4258 (0.1%)	0.91	20/5804 (0.3%)
2	1h	0.55	0/1018	1.03	5/1383 (0.4%)
2	2h	0.55	0/1018	1.03	5/1383 (0.4%)
2	3h	0.55	0/1018	1.03	5/1383 (0.4%)
2	4h	0.55	0/1018	1.03	5/1383 (0.4%)
2	5h	0.55	0/1018	1.03	5/1383 (0.4%)
2	6h	0.55	0/1018	1.03	5/1383 (0.4%)
2	7h	0.55	0/1018	1.03	5/1383 (0.4%)
2	8h	0.55	0/1018	1.03	5/1383 (0.4%)
2	Ah	0.55	0/1018	1.03	5/1383 (0.4%)
2	Bh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Ch	0.55	0/1018	1.03	5/1383 (0.4%)
2	Dh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Eh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Fh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Gh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Hh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Ih	0.55	0/1018	1.03	5/1383 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	Jh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Kh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Lh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Mh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Nh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Oh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Ph	0.55	0/1018	1.03	5/1383 (0.4%)
2	Qh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Rh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Sh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Th	0.55	0/1018	1.03	5/1383 (0.4%)
2	Uh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Vh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Wh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Xh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Yh	0.55	0/1018	1.03	5/1383 (0.4%)
2	Zh	0.55	0/1018	1.03	5/1383 (0.4%)
2	ah	0.55	0/1018	1.03	5/1383 (0.4%)
2	bh	0.55	0/1018	1.03	5/1383 (0.4%)
2	ch	0.55	0/1018	1.03	5/1383 (0.4%)
2	dh	0.55	0/1018	1.03	5/1383 (0.4%)
2	eh	0.55	0/1018	1.03	5/1383 (0.4%)
2	fh	0.55	0/1018	1.03	5/1383 (0.4%)
2	gh	0.55	0/1018	1.03	5/1383 (0.4%)
2	hh	0.55	0/1018	1.03	5/1383 (0.4%)
2	ih	0.55	0/1018	1.03	5/1383 (0.4%)
2	jh	0.55	0/1018	1.03	5/1383 (0.4%)
2	kh	0.55	0/1018	1.03	5/1383 (0.4%)
2	lh	0.55	0/1018	1.03	5/1383 (0.4%)
2	mh	0.55	0/1018	1.03	5/1383 (0.4%)
2	nh	0.55	0/1018	1.03	5/1383 (0.4%)
2	oh	0.55	0/1018	1.03	5/1383 (0.4%)
2	ph	0.55	0/1018	1.03	5/1383 (0.4%)
2	qh	0.55	0/1018	1.03	5/1383 (0.4%)
2	rh	0.55	0/1018	1.03	5/1383 (0.4%)
2	sh	0.55	0/1018	1.03	5/1383 (0.4%)
2	th	0.55	0/1018	1.03	5/1383 (0.4%)
2	uh	0.55	0/1018	1.03	5/1383 (0.4%)
2	vh	0.55	0/1018	1.03	5/1383 (0.4%)
2	wh	0.55	0/1018	1.03	5/1383 (0.4%)
2	xh	0.55	0/1018	1.03	5/1383 (0.4%)
2	yh	0.55	0/1018	1.03	5/1383 (0.4%)
2	zh	0.55	0/1018	1.03	5/1383 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	1l	0.52	0/803	1.07	5/1098 (0.5%)
3	2l	0.52	0/803	1.07	5/1098 (0.5%)
3	3l	0.52	0/803	1.07	5/1098 (0.5%)
3	4l	0.52	0/803	1.07	5/1098 (0.5%)
3	5l	0.52	0/803	1.07	5/1098 (0.5%)
3	6l	0.52	0/803	1.07	5/1098 (0.5%)
3	7l	0.51	0/803	1.07	5/1098 (0.5%)
3	8l	0.52	0/803	1.07	5/1098 (0.5%)
3	Al	0.52	0/803	1.07	5/1098 (0.5%)
3	Bl	0.52	0/803	1.07	5/1098 (0.5%)
3	Cl	0.52	0/803	1.07	5/1098 (0.5%)
3	Dl	0.52	0/803	1.07	5/1098 (0.5%)
3	El	0.52	0/803	1.07	5/1098 (0.5%)
3	Fl	0.52	0/803	1.07	5/1098 (0.5%)
3	Gl	0.51	0/803	1.07	5/1098 (0.5%)
3	Hl	0.52	0/803	1.07	5/1098 (0.5%)
3	Il	0.52	0/803	1.07	5/1098 (0.5%)
3	Jl	0.52	0/803	1.07	5/1098 (0.5%)
3	Kl	0.52	0/803	1.07	5/1098 (0.5%)
3	Ll	0.52	0/803	1.07	4/1098 (0.4%)
3	Ml	0.52	0/803	1.07	5/1098 (0.5%)
3	Nl	0.52	0/803	1.07	5/1098 (0.5%)
3	Ol	0.52	0/803	1.07	5/1098 (0.5%)
3	Pl	0.52	0/803	1.07	5/1098 (0.5%)
3	Ql	0.52	0/803	1.07	5/1098 (0.5%)
3	Rl	0.52	0/803	1.07	5/1098 (0.5%)
3	Sl	0.52	0/803	1.07	5/1098 (0.5%)
3	Tl	0.52	0/803	1.07	5/1098 (0.5%)
3	Ul	0.52	0/803	1.07	5/1098 (0.5%)
3	Vl	0.52	0/803	1.07	5/1098 (0.5%)
3	Wl	0.52	0/803	1.07	5/1098 (0.5%)
3	Xl	0.52	0/803	1.07	5/1098 (0.5%)
3	Yl	0.51	0/803	1.07	5/1098 (0.5%)
3	Zl	0.52	0/803	1.07	4/1098 (0.4%)
3	al	0.52	0/803	1.07	5/1098 (0.5%)
3	bl	0.52	0/803	1.07	5/1098 (0.5%)
3	cl	0.51	0/803	1.07	5/1098 (0.5%)
3	dl	0.52	0/803	1.07	5/1098 (0.5%)
3	el	0.52	0/803	1.07	5/1098 (0.5%)
3	fl	0.52	0/803	1.07	5/1098 (0.5%)
3	gl	0.52	0/803	1.07	5/1098 (0.5%)
3	hl	0.52	0/803	1.07	5/1098 (0.5%)
3	il	0.52	0/803	1.07	5/1098 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	jl	0.52	0/803	1.07	5/1098 (0.5%)
3	kl	0.52	0/803	1.07	5/1098 (0.5%)
3	ll	0.52	0/803	1.07	5/1098 (0.5%)
3	ml	0.52	0/803	1.07	5/1098 (0.5%)
3	nl	0.52	0/803	1.07	4/1098 (0.4%)
3	ol	0.52	0/803	1.07	5/1098 (0.5%)
3	pl	0.52	0/803	1.07	5/1098 (0.5%)
3	ql	0.51	0/803	1.07	5/1098 (0.5%)
3	rl	0.52	0/803	1.07	5/1098 (0.5%)
3	sl	0.52	0/803	1.07	5/1098 (0.5%)
3	tl	0.52	0/803	1.07	5/1098 (0.5%)
3	ul	0.52	0/803	1.07	4/1098 (0.4%)
3	vl	0.52	0/803	1.07	5/1098 (0.5%)
3	wl	0.52	0/803	1.07	5/1098 (0.5%)
3	xl	0.52	0/803	1.07	5/1098 (0.5%)
3	yl	0.52	0/803	1.07	5/1098 (0.5%)
3	zl	0.52	0/803	1.07	5/1098 (0.5%)
All	All	0.67	180/364740 (0.0%)	0.95	1809/497100 (0.4%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	0	1
1	2	0	1
1	3	0	1
1	4	0	1
1	5	0	1
1	6	0	1
1	7	0	1
1	8	0	1
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
1	G	0	1
1	H	0	1
1	I	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	J	0	1
1	K	0	1
1	L	0	1
1	M	0	1
1	N	0	1
1	O	0	1
1	P	0	1
1	Q	0	1
1	R	0	1
1	S	0	1
1	T	0	1
1	U	0	1
1	V	0	1
1	W	0	1
1	X	0	1
1	Y	0	1
1	Z	0	1
1	a	0	1
1	b	0	1
1	c	0	1
1	d	0	1
1	e	0	1
1	f	0	1
1	g	0	1
1	h	0	1
1	i	0	1
1	j	0	1
1	k	0	1
1	l	0	1
1	m	0	1
1	n	0	1
1	o	0	1
1	p	0	1
1	q	0	1
1	r	0	1
1	s	0	1
1	t	0	1
1	u	0	1
1	v	0	1
1	w	0	1
1	x	0	1
1	y	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	z	0	1
All	All	0	60

All (180) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	310	ARG	C-N	8.49	1.46	1.33
1	J	310	ARG	C-N	8.47	1.46	1.33
1	S	310	ARG	C-N	8.47	1.46	1.33
1	l	310	ARG	C-N	8.47	1.46	1.33
1	v	310	ARG	C-N	8.47	1.46	1.33
1	C	310	ARG	C-N	8.47	1.46	1.33
1	T	310	ARG	C-N	8.47	1.46	1.33
1	V	310	ARG	C-N	8.47	1.46	1.33
1	a	310	ARG	C-N	8.47	1.46	1.33
1	j	310	ARG	C-N	8.47	1.46	1.33
1	H	310	ARG	C-N	8.46	1.46	1.33
1	P	310	ARG	C-N	8.46	1.46	1.33
1	d	310	ARG	C-N	8.46	1.46	1.33
1	y	310	ARG	C-N	8.46	1.46	1.33
1	p	310	ARG	C-N	8.46	1.46	1.33
1	s	310	ARG	C-N	8.46	1.46	1.33
1	M	310	ARG	C-N	8.46	1.46	1.33
1	N	310	ARG	C-N	8.46	1.46	1.33
1	X	310	ARG	C-N	8.46	1.46	1.33
1	b	310	ARG	C-N	8.46	1.46	1.33
1	c	310	ARG	C-N	8.46	1.46	1.33
1	f	310	ARG	C-N	8.46	1.46	1.33
1	i	310	ARG	C-N	8.46	1.46	1.33
1	7	310	ARG	C-N	8.46	1.46	1.33
1	B	310	ARG	C-N	8.45	1.46	1.33
1	L	310	ARG	C-N	8.45	1.46	1.33
1	R	310	ARG	C-N	8.45	1.46	1.33
1	U	310	ARG	C-N	8.45	1.46	1.33
1	k	310	ARG	C-N	8.45	1.46	1.33
1	m	310	ARG	C-N	8.45	1.46	1.33
1	t	310	ARG	C-N	8.45	1.46	1.33
1	u	310	ARG	C-N	8.45	1.46	1.33
1	A	310	ARG	C-N	8.44	1.46	1.33
1	F	310	ARG	C-N	8.44	1.46	1.33
1	G	310	ARG	C-N	8.44	1.46	1.33
1	O	310	ARG	C-N	8.44	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	310	ARG	C-N	8.44	1.46	1.33
1	E	310	ARG	C-N	8.44	1.46	1.33
1	n	310	ARG	C-N	8.44	1.46	1.33
1	q	310	ARG	C-N	8.44	1.46	1.33
1	I	310	ARG	C-N	8.42	1.46	1.33
1	Q	310	ARG	C-N	8.42	1.46	1.33
1	o	310	ARG	C-N	8.42	1.46	1.33
1	r	310	ARG	C-N	8.42	1.46	1.33
1	Y	310	ARG	C-N	8.41	1.46	1.33
1	3	310	ARG	C-N	8.41	1.46	1.33
1	4	310	ARG	C-N	8.41	1.46	1.33
1	5	310	ARG	C-N	8.41	1.46	1.33
1	D	310	ARG	C-N	8.41	1.46	1.33
1	W	310	ARG	C-N	8.41	1.46	1.33
1	e	310	ARG	C-N	8.41	1.46	1.33
1	z	310	ARG	C-N	8.41	1.46	1.33
1	2	310	ARG	C-N	8.40	1.46	1.33
1	6	310	ARG	C-N	8.40	1.46	1.33
1	h	310	ARG	C-N	8.40	1.46	1.33
1	w	310	ARG	C-N	8.40	1.46	1.33
1	K	310	ARG	C-N	8.40	1.46	1.33
1	g	310	ARG	C-N	8.40	1.46	1.33
1	x	310	ARG	C-N	8.40	1.46	1.33
1	Z	310	ARG	C-N	8.38	1.46	1.33
1	M	706	LYS	C-N	-7.07	1.25	1.33
1	X	706	LYS	C-N	-7.07	1.25	1.33
1	1	706	LYS	C-N	-7.07	1.25	1.33
1	4	706	LYS	C-N	-7.07	1.25	1.33
1	6	706	LYS	C-N	-7.07	1.25	1.33
1	f	706	LYS	C-N	-7.07	1.25	1.33
1	h	706	LYS	C-N	-7.07	1.25	1.33
1	i	706	LYS	C-N	-7.07	1.25	1.33
1	O	706	LYS	C-N	-7.06	1.25	1.33
1	8	706	LYS	C-N	-7.06	1.25	1.33
1	N	706	LYS	C-N	-7.05	1.25	1.33
1	Y	706	LYS	C-N	-7.05	1.25	1.33
1	c	706	LYS	C-N	-7.05	1.25	1.33
1	7	706	LYS	C-N	-7.05	1.25	1.33
1	B	706	LYS	C-N	-7.04	1.25	1.33
1	L	706	LYS	C-N	-7.04	1.25	1.33
1	R	706	LYS	C-N	-7.04	1.25	1.33
1	U	706	LYS	C-N	-7.04	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k	706	LYS	C-N	-7.04	1.25	1.33
1	m	706	LYS	C-N	-7.04	1.25	1.33
1	t	706	LYS	C-N	-7.04	1.25	1.33
1	u	706	LYS	C-N	-7.04	1.25	1.33
1	3	706	LYS	C-N	-7.03	1.25	1.33
1	p	706	LYS	C-N	-7.03	1.25	1.33
1	s	706	LYS	C-N	-7.03	1.25	1.33
1	C	706	LYS	C-N	-7.03	1.25	1.33
1	I	706	LYS	C-N	-7.03	1.25	1.33
1	K	706	LYS	C-N	-7.03	1.25	1.33
1	Q	706	LYS	C-N	-7.03	1.25	1.33
1	T	706	LYS	C-N	-7.03	1.25	1.33
1	V	706	LYS	C-N	-7.03	1.25	1.33
1	a	706	LYS	C-N	-7.03	1.25	1.33
1	g	706	LYS	C-N	-7.03	1.25	1.33
1	j	706	LYS	C-N	-7.03	1.25	1.33
1	o	706	LYS	C-N	-7.03	1.25	1.33
1	r	706	LYS	C-N	-7.03	1.25	1.33
1	x	706	LYS	C-N	-7.03	1.25	1.33
1	A	706	LYS	C-N	-7.02	1.25	1.33
1	H	706	LYS	C-N	-7.00	1.25	1.33
1	P	706	LYS	C-N	-7.00	1.25	1.33
1	d	706	LYS	C-N	-7.00	1.25	1.33
1	y	706	LYS	C-N	-7.00	1.25	1.33
1	2	706	LYS	C-N	-6.99	1.25	1.33
1	5	706	LYS	C-N	-6.99	1.25	1.33
1	w	706	LYS	C-N	-6.99	1.25	1.33
1	Z	706	LYS	C-N	-6.98	1.25	1.33
1	b	706	LYS	C-N	-6.98	1.25	1.33
1	D	706	LYS	C-N	-6.98	1.25	1.33
1	E	706	LYS	C-N	-6.98	1.25	1.33
1	G	706	LYS	C-N	-6.98	1.25	1.33
1	W	706	LYS	C-N	-6.98	1.25	1.33
1	e	706	LYS	C-N	-6.98	1.25	1.33
1	n	706	LYS	C-N	-6.98	1.25	1.33
1	q	706	LYS	C-N	-6.98	1.25	1.33
1	z	706	LYS	C-N	-6.98	1.25	1.33
1	F	706	LYS	C-N	-6.97	1.25	1.33
1	J	706	LYS	C-N	-6.95	1.25	1.33
1	S	706	LYS	C-N	-6.95	1.25	1.33
1	l	706	LYS	C-N	-6.95	1.25	1.33
1	v	706	LYS	C-N	-6.95	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5	311	LEU	C-N	5.91	1.42	1.33
1	w	311	LEU	C-N	5.91	1.42	1.33
1	L	311	LEU	C-N	5.91	1.42	1.33
1	U	311	LEU	C-N	5.91	1.42	1.33
1	m	311	LEU	C-N	5.91	1.42	1.33
1	t	311	LEU	C-N	5.91	1.42	1.33
1	f	311	LEU	C-N	5.90	1.42	1.33
1	Z	311	LEU	C-N	5.90	1.42	1.33
1	H	311	LEU	C-N	5.89	1.42	1.33
1	P	311	LEU	C-N	5.89	1.42	1.33
1	d	311	LEU	C-N	5.89	1.42	1.33
1	y	311	LEU	C-N	5.89	1.42	1.33
1	B	311	LEU	C-N	5.88	1.42	1.33
1	R	311	LEU	C-N	5.88	1.42	1.33
1	T	311	LEU	C-N	5.88	1.42	1.33
1	k	311	LEU	C-N	5.88	1.42	1.33
1	u	311	LEU	C-N	5.88	1.42	1.33
1	2	311	LEU	C-N	5.88	1.42	1.33
1	I	311	LEU	C-N	5.87	1.42	1.33
1	K	311	LEU	C-N	5.87	1.42	1.33
1	Q	311	LEU	C-N	5.87	1.42	1.33
1	g	311	LEU	C-N	5.87	1.42	1.33
1	o	311	LEU	C-N	5.87	1.42	1.33
1	r	311	LEU	C-N	5.87	1.42	1.33
1	x	311	LEU	C-N	5.87	1.42	1.33
1	A	311	LEU	C-N	5.86	1.42	1.33
1	F	311	LEU	C-N	5.86	1.42	1.33
1	3	311	LEU	C-N	5.86	1.42	1.33
1	N	311	LEU	C-N	5.86	1.42	1.33
1	Y	311	LEU	C-N	5.86	1.42	1.33
1	c	311	LEU	C-N	5.86	1.42	1.33
1	7	311	LEU	C-N	5.86	1.42	1.33
1	4	311	LEU	C-N	5.84	1.42	1.33
1	6	311	LEU	C-N	5.84	1.42	1.33
1	h	311	LEU	C-N	5.84	1.42	1.33
1	p	311	LEU	C-N	5.84	1.42	1.33
1	D	311	LEU	C-N	5.84	1.42	1.33
1	W	311	LEU	C-N	5.84	1.42	1.33
1	e	311	LEU	C-N	5.84	1.42	1.33
1	z	311	LEU	C-N	5.84	1.42	1.33
1	E	311	LEU	C-N	5.83	1.42	1.33
1	G	311	LEU	C-N	5.83	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	311	LEU	C-N	5.83	1.42	1.33
1	n	311	LEU	C-N	5.83	1.42	1.33
1	q	311	LEU	C-N	5.83	1.42	1.33
1	8	311	LEU	C-N	5.83	1.42	1.33
1	M	311	LEU	C-N	5.83	1.42	1.33
1	X	311	LEU	C-N	5.83	1.42	1.33
1	b	311	LEU	C-N	5.83	1.42	1.33
1	i	311	LEU	C-N	5.83	1.42	1.33
1	J	311	LEU	C-N	5.83	1.42	1.33
1	S	311	LEU	C-N	5.83	1.42	1.33
1	l	311	LEU	C-N	5.83	1.42	1.33
1	v	311	LEU	C-N	5.83	1.42	1.33
1	1	311	LEU	C-N	5.82	1.42	1.33
1	C	311	LEU	C-N	5.81	1.41	1.33
1	V	311	LEU	C-N	5.81	1.41	1.33
1	a	311	LEU	C-N	5.81	1.41	1.33
1	j	311	LEU	C-N	5.81	1.41	1.33
1	s	311	LEU	C-N	5.80	1.41	1.33

All (1809) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	617	ILE	N-CA-C	9.68	120.50	110.72
1	L	617	ILE	N-CA-C	9.68	120.50	110.72
1	S	617	ILE	N-CA-C	9.68	120.50	110.72
1	U	617	ILE	N-CA-C	9.68	120.50	110.72
1	l	617	ILE	N-CA-C	9.68	120.50	110.72
1	m	617	ILE	N-CA-C	9.68	120.50	110.72
1	v	617	ILE	N-CA-C	9.68	120.50	110.72
1	C	617	ILE	N-CA-C	9.67	120.49	110.72
1	M	617	ILE	N-CA-C	9.67	120.49	110.72
1	V	617	ILE	N-CA-C	9.67	120.49	110.72
1	X	617	ILE	N-CA-C	9.67	120.49	110.72
1	a	617	ILE	N-CA-C	9.67	120.49	110.72
1	b	617	ILE	N-CA-C	9.67	120.49	110.72
1	i	617	ILE	N-CA-C	9.67	120.49	110.72
1	j	617	ILE	N-CA-C	9.67	120.49	110.72
1	3	617	ILE	N-CA-C	9.67	120.48	110.72
1	1	617	ILE	N-CA-C	9.66	120.48	110.72
1	t	617	ILE	N-CA-C	9.66	120.48	110.72
1	p	617	ILE	N-CA-C	9.66	120.48	110.72
1	s	617	ILE	N-CA-C	9.66	120.48	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	617	ILE	N-CA-C	9.65	120.47	110.72
1	Y	617	ILE	N-CA-C	9.65	120.47	110.72
1	c	617	ILE	N-CA-C	9.65	120.47	110.72
1	7	617	ILE	N-CA-C	9.65	120.47	110.72
1	G	617	ILE	N-CA-C	9.65	120.47	110.72
1	O	617	ILE	N-CA-C	9.65	120.47	110.72
1	f	617	ILE	N-CA-C	9.65	120.47	110.72
1	8	617	ILE	N-CA-C	9.65	120.47	110.72
1	Q	617	ILE	N-CA-C	9.65	120.46	110.72
1	6	617	ILE	N-CA-C	9.65	120.46	110.72
1	r	617	ILE	N-CA-C	9.65	120.46	110.72
1	w	617	ILE	N-CA-C	9.65	120.46	110.72
1	D	617	ILE	N-CA-C	9.64	120.46	110.72
1	E	617	ILE	N-CA-C	9.64	120.46	110.72
1	W	617	ILE	N-CA-C	9.64	120.46	110.72
1	e	617	ILE	N-CA-C	9.64	120.46	110.72
1	n	617	ILE	N-CA-C	9.64	120.46	110.72
1	q	617	ILE	N-CA-C	9.64	120.46	110.72
1	z	617	ILE	N-CA-C	9.64	120.46	110.72
1	A	617	ILE	N-CA-C	9.64	120.45	110.72
1	K	617	ILE	N-CA-C	9.63	120.45	110.72
1	g	617	ILE	N-CA-C	9.63	120.45	110.72
1	x	617	ILE	N-CA-C	9.63	120.45	110.72
1	F	617	ILE	N-CA-C	9.63	120.44	110.72
1	B	617	ILE	N-CA-C	9.62	120.44	110.72
1	I	617	ILE	N-CA-C	9.62	120.44	110.72
1	R	617	ILE	N-CA-C	9.62	120.44	110.72
1	k	617	ILE	N-CA-C	9.62	120.44	110.72
1	o	617	ILE	N-CA-C	9.62	120.44	110.72
1	u	617	ILE	N-CA-C	9.62	120.44	110.72
1	H	617	ILE	N-CA-C	9.62	120.44	110.72
1	P	617	ILE	N-CA-C	9.62	120.44	110.72
1	d	617	ILE	N-CA-C	9.62	120.44	110.72
1	y	617	ILE	N-CA-C	9.62	120.44	110.72
1	T	617	ILE	N-CA-C	9.62	120.43	110.72
1	Z	617	ILE	N-CA-C	9.61	120.43	110.72
1	4	617	ILE	N-CA-C	9.60	120.42	110.72
1	h	617	ILE	N-CA-C	9.60	120.42	110.72
1	2	617	ILE	N-CA-C	9.59	120.41	110.72
1	5	617	ILE	N-CA-C	9.59	120.41	110.72
2	Ih	93	ASN	N-CA-C	8.49	120.62	111.36
2	Kh	93	ASN	N-CA-C	8.49	120.62	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Qh	93	ASN	N-CA-C	8.49	120.62	111.36
2	Th	93	ASN	N-CA-C	8.49	120.62	111.36
2	ah	93	ASN	N-CA-C	8.49	120.62	111.36
2	jh	93	ASN	N-CA-C	8.49	120.62	111.36
2	oh	93	ASN	N-CA-C	8.49	120.62	111.36
2	xh	93	ASN	N-CA-C	8.49	120.62	111.36
2	Bh	93	ASN	N-CA-C	8.46	120.59	111.36
2	Ch	93	ASN	N-CA-C	8.46	120.59	111.36
2	Vh	93	ASN	N-CA-C	8.46	120.59	111.36
2	Yh	93	ASN	N-CA-C	8.47	120.59	111.36
2	ch	93	ASN	N-CA-C	8.47	120.59	111.36
2	rh	93	ASN	N-CA-C	8.46	120.59	111.36
2	uh	93	ASN	N-CA-C	8.46	120.59	111.36
2	7h	93	ASN	N-CA-C	8.47	120.59	111.36
2	Ah	93	ASN	N-CA-C	8.46	120.58	111.36
2	Xh	93	ASN	N-CA-C	8.45	120.57	111.36
2	bh	93	ASN	N-CA-C	8.45	120.57	111.36
2	fh	93	ASN	N-CA-C	8.45	120.57	111.36
2	ih	93	ASN	N-CA-C	8.45	120.57	111.36
2	Oh	93	ASN	N-CA-C	8.45	120.56	111.36
2	Zh	93	ASN	N-CA-C	8.45	120.56	111.36
2	8h	93	ASN	N-CA-C	8.45	120.56	111.36
2	Jh	93	ASN	N-CA-C	8.44	120.56	111.36
2	Lh	93	ASN	N-CA-C	8.44	120.56	111.36
2	Rh	93	ASN	N-CA-C	8.44	120.56	111.36
2	Sh	93	ASN	N-CA-C	8.44	120.56	111.36
2	Uh	93	ASN	N-CA-C	8.44	120.56	111.36
2	kh	93	ASN	N-CA-C	8.44	120.56	111.36
2	lh	93	ASN	N-CA-C	8.44	120.56	111.36
2	mh	93	ASN	N-CA-C	8.44	120.56	111.36
2	th	93	ASN	N-CA-C	8.44	120.56	111.36
2	vh	93	ASN	N-CA-C	8.44	120.56	111.36
2	Fh	93	ASN	N-CA-C	8.44	120.56	111.36
2	2h	93	ASN	N-CA-C	8.44	120.56	111.36
2	5h	93	ASN	N-CA-C	8.44	120.56	111.36
2	6h	93	ASN	N-CA-C	8.44	120.56	111.36
2	ph	93	ASN	N-CA-C	8.44	120.56	111.36
2	Nh	93	ASN	N-CA-C	8.44	120.55	111.36
2	gh	93	ASN	N-CA-C	8.43	120.55	111.36
2	nh	93	ASN	N-CA-C	8.43	120.55	111.36
2	Dh	93	ASN	N-CA-C	8.42	120.54	111.36
2	Hh	93	ASN	N-CA-C	8.42	120.54	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Ph	93	ASN	N-CA-C	8.42	120.54	111.36
2	Wh	93	ASN	N-CA-C	8.42	120.54	111.36
2	dh	93	ASN	N-CA-C	8.42	120.54	111.36
2	eh	93	ASN	N-CA-C	8.42	120.54	111.36
2	yh	93	ASN	N-CA-C	8.42	120.54	111.36
2	zh	93	ASN	N-CA-C	8.42	120.54	111.36
2	1h	93	ASN	N-CA-C	8.42	120.54	111.36
2	3h	93	ASN	N-CA-C	8.42	120.54	111.36
2	4h	93	ASN	N-CA-C	8.42	120.54	111.36
2	hh	93	ASN	N-CA-C	8.42	120.54	111.36
2	sh	93	ASN	N-CA-C	8.42	120.54	111.36
2	wh	93	ASN	N-CA-C	8.42	120.54	111.36
2	Eh	93	ASN	N-CA-C	8.42	120.53	111.36
2	Gh	93	ASN	N-CA-C	8.42	120.53	111.36
2	Mh	93	ASN	N-CA-C	8.42	120.53	111.36
2	qh	93	ASN	N-CA-C	8.42	120.53	111.36
2	fh	138	ASP	N-CA-C	7.22	119.23	111.36
2	Dh	138	ASP	N-CA-C	7.19	119.19	111.36
2	Wh	138	ASP	N-CA-C	7.19	119.19	111.36
2	ch	138	ASP	N-CA-C	7.19	119.19	111.36
2	eh	138	ASP	N-CA-C	7.19	119.19	111.36
2	zh	138	ASP	N-CA-C	7.19	119.19	111.36
2	Fh	138	ASP	N-CA-C	7.18	119.19	111.36
2	1h	138	ASP	N-CA-C	7.18	119.19	111.36
2	2h	138	ASP	N-CA-C	7.18	119.19	111.36
2	3h	138	ASP	N-CA-C	7.18	119.19	111.36
2	4h	138	ASP	N-CA-C	7.18	119.19	111.36
2	5h	138	ASP	N-CA-C	7.18	119.19	111.36
2	6h	138	ASP	N-CA-C	7.18	119.19	111.36
2	hh	138	ASP	N-CA-C	7.18	119.19	111.36
2	ph	138	ASP	N-CA-C	7.18	119.19	111.36
2	sh	138	ASP	N-CA-C	7.18	119.19	111.36
2	wh	138	ASP	N-CA-C	7.18	119.19	111.36
2	nh	138	ASP	N-CA-C	7.18	119.19	111.36
2	Nh	138	ASP	N-CA-C	7.18	119.19	111.36
2	Bh	138	ASP	N-CA-C	7.17	119.18	111.36
2	Jh	138	ASP	N-CA-C	7.17	119.18	111.36
2	Lh	138	ASP	N-CA-C	7.17	119.18	111.36
2	Rh	138	ASP	N-CA-C	7.17	119.18	111.36
2	Sh	138	ASP	N-CA-C	7.17	119.18	111.36
2	Uh	138	ASP	N-CA-C	7.17	119.18	111.36
2	kh	138	ASP	N-CA-C	7.17	119.18	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	lh	138	ASP	N-CA-C	7.17	119.18	111.36
2	mh	138	ASP	N-CA-C	7.17	119.18	111.36
2	th	138	ASP	N-CA-C	7.17	119.18	111.36
2	uh	138	ASP	N-CA-C	7.17	119.18	111.36
2	vh	138	ASP	N-CA-C	7.17	119.18	111.36
2	jh	138	ASP	N-CA-C	7.17	119.18	111.36
2	Zh	138	ASP	N-CA-C	7.17	119.17	111.36
2	Ch	138	ASP	N-CA-C	7.16	119.17	111.36
2	Ih	138	ASP	N-CA-C	7.16	119.17	111.36
2	Kh	138	ASP	N-CA-C	7.16	119.17	111.36
2	Qh	138	ASP	N-CA-C	7.16	119.17	111.36
2	Th	138	ASP	N-CA-C	7.16	119.17	111.36
2	Vh	138	ASP	N-CA-C	7.16	119.17	111.36
2	Yh	138	ASP	N-CA-C	7.16	119.17	111.36
2	ah	138	ASP	N-CA-C	7.16	119.17	111.36
2	oh	138	ASP	N-CA-C	7.16	119.17	111.36
2	rh	138	ASP	N-CA-C	7.16	119.17	111.36
2	xh	138	ASP	N-CA-C	7.16	119.17	111.36
2	7h	138	ASP	N-CA-C	7.16	119.17	111.36
2	Ah	138	ASP	N-CA-C	7.16	119.16	111.36
2	gh	138	ASP	N-CA-C	7.16	119.16	111.36
2	Eh	138	ASP	N-CA-C	7.15	119.15	111.36
2	Gh	138	ASP	N-CA-C	7.15	119.15	111.36
2	Mh	138	ASP	N-CA-C	7.15	119.15	111.36
2	Oh	138	ASP	N-CA-C	7.15	119.15	111.36
2	Xh	138	ASP	N-CA-C	7.15	119.15	111.36
2	bh	138	ASP	N-CA-C	7.15	119.15	111.36
2	ih	138	ASP	N-CA-C	7.15	119.15	111.36
2	qh	138	ASP	N-CA-C	7.15	119.15	111.36
2	8h	138	ASP	N-CA-C	7.15	119.15	111.36
2	Hh	138	ASP	N-CA-C	7.13	119.14	111.36
2	Ph	138	ASP	N-CA-C	7.13	119.14	111.36
2	dh	138	ASP	N-CA-C	7.13	119.14	111.36
2	yh	138	ASP	N-CA-C	7.13	119.14	111.36
1	1	551	ASN	N-CA-C	6.60	120.52	111.54
1	I	551	ASN	N-CA-C	6.60	120.52	111.54
1	K	551	ASN	N-CA-C	6.60	120.52	111.54
1	Q	551	ASN	N-CA-C	6.60	120.52	111.54
1	g	551	ASN	N-CA-C	6.60	120.52	111.54
1	r	551	ASN	N-CA-C	6.60	120.52	111.54
1	x	551	ASN	N-CA-C	6.60	120.52	111.54
1	R	551	ASN	N-CA-C	6.60	120.51	111.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	551	ASN	N-CA-C	6.60	120.51	111.54
1	Y	310	ARG	O-C-N	6.59	130.77	123.25
1	L	551	ASN	N-CA-C	6.59	120.50	111.54
1	U	551	ASN	N-CA-C	6.59	120.50	111.54
1	t	551	ASN	N-CA-C	6.59	120.50	111.54
1	H	551	ASN	N-CA-C	6.59	120.50	111.54
1	P	551	ASN	N-CA-C	6.59	120.50	111.54
1	d	551	ASN	N-CA-C	6.59	120.50	111.54
1	y	551	ASN	N-CA-C	6.59	120.50	111.54
1	H	310	ARG	O-C-N	6.59	130.76	123.25
1	P	310	ARG	O-C-N	6.59	130.76	123.25
1	6	551	ASN	N-CA-C	6.59	120.50	111.54
1	d	310	ARG	O-C-N	6.59	130.76	123.25
1	y	310	ARG	O-C-N	6.59	130.76	123.25
1	B	551	ASN	N-CA-C	6.58	120.50	111.54
1	k	551	ASN	N-CA-C	6.58	120.50	111.54
1	p	551	ASN	N-CA-C	6.58	120.50	111.54
1	E	551	ASN	N-CA-C	6.58	120.49	111.54
1	f	551	ASN	N-CA-C	6.58	120.49	111.54
1	n	551	ASN	N-CA-C	6.58	120.49	111.54
1	q	551	ASN	N-CA-C	6.58	120.49	111.54
1	h	551	ASN	N-CA-C	6.58	120.49	111.54
1	w	551	ASN	N-CA-C	6.58	120.49	111.54
1	D	551	ASN	N-CA-C	6.58	120.49	111.54
1	W	551	ASN	N-CA-C	6.58	120.49	111.54
1	e	551	ASN	N-CA-C	6.58	120.49	111.54
1	C	310	ARG	O-C-N	6.58	130.75	123.25
1	E	310	ARG	O-C-N	6.58	130.75	123.25
1	V	310	ARG	O-C-N	6.58	130.75	123.25
1	2	551	ASN	N-CA-C	6.58	120.48	111.54
1	5	551	ASN	N-CA-C	6.58	120.48	111.54
1	a	310	ARG	O-C-N	6.58	130.75	123.25
1	j	310	ARG	O-C-N	6.58	130.75	123.25
1	n	310	ARG	O-C-N	6.58	130.75	123.25
1	q	310	ARG	O-C-N	6.58	130.75	123.25
1	O	551	ASN	N-CA-C	6.57	120.48	111.54
1	8	551	ASN	N-CA-C	6.57	120.48	111.54
1	G	551	ASN	N-CA-C	6.57	120.48	111.54
1	T	551	ASN	N-CA-C	6.57	120.48	111.54
1	h	310	ARG	O-C-N	6.57	130.74	123.25
1	w	310	ARG	O-C-N	6.57	130.74	123.25
1	A	551	ASN	N-CA-C	6.57	120.48	111.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	310	ARG	O-C-N	6.57	130.74	123.25
1	3	551	ASN	N-CA-C	6.57	120.48	111.54
1	L	310	ARG	O-C-N	6.57	130.74	123.25
1	U	310	ARG	O-C-N	6.57	130.74	123.25
1	m	310	ARG	O-C-N	6.57	130.74	123.25
1	s	551	ASN	N-CA-C	6.57	120.47	111.54
1	t	310	ARG	O-C-N	6.57	130.74	123.25
1	m	551	ASN	N-CA-C	6.56	120.47	111.54
1	p	310	ARG	O-C-N	6.56	130.73	123.25
1	s	310	ARG	O-C-N	6.56	130.73	123.25
1	C	551	ASN	N-CA-C	6.55	120.45	111.54
1	V	551	ASN	N-CA-C	6.55	120.45	111.54
1	a	551	ASN	N-CA-C	6.55	120.45	111.54
1	j	551	ASN	N-CA-C	6.55	120.45	111.54
1	o	551	ASN	N-CA-C	6.55	120.45	111.54
1	z	551	ASN	N-CA-C	6.55	120.45	111.54
1	J	551	ASN	N-CA-C	6.55	120.45	111.54
1	S	551	ASN	N-CA-C	6.55	120.45	111.54
1	2	310	ARG	O-C-N	6.55	130.72	123.25
1	6	310	ARG	O-C-N	6.55	130.72	123.25
1	l	551	ASN	N-CA-C	6.55	120.45	111.54
1	v	551	ASN	N-CA-C	6.55	120.45	111.54
1	M	551	ASN	N-CA-C	6.54	120.44	111.54
1	N	551	ASN	N-CA-C	6.54	120.44	111.54
1	X	551	ASN	N-CA-C	6.54	120.44	111.54
1	Y	551	ASN	N-CA-C	6.54	120.44	111.54
1	b	551	ASN	N-CA-C	6.54	120.44	111.54
1	c	551	ASN	N-CA-C	6.54	120.44	111.54
1	i	551	ASN	N-CA-C	6.54	120.44	111.54
1	7	551	ASN	N-CA-C	6.54	120.44	111.54
1	Z	551	ASN	N-CA-C	6.54	120.44	111.54
1	J	310	ARG	O-C-N	6.54	130.70	123.25
1	S	310	ARG	O-C-N	6.54	130.70	123.25
1	l	310	ARG	O-C-N	6.54	130.70	123.25
1	v	310	ARG	O-C-N	6.54	130.70	123.25
1	D	310	ARG	O-C-N	6.54	130.70	123.25
1	M	310	ARG	O-C-N	6.54	130.70	123.25
1	W	310	ARG	O-C-N	6.54	130.70	123.25
1	X	310	ARG	O-C-N	6.54	130.70	123.25
1	b	310	ARG	O-C-N	6.54	130.70	123.25
1	e	310	ARG	O-C-N	6.54	130.70	123.25
1	f	310	ARG	O-C-N	6.54	130.70	123.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	310	ARG	O-C-N	6.54	130.70	123.25
1	z	310	ARG	O-C-N	6.54	130.70	123.25
1	F	551	ASN	N-CA-C	6.54	120.43	111.54
1	4	551	ASN	N-CA-C	6.54	120.43	111.54
1	A	310	ARG	O-C-N	6.53	130.70	123.25
1	3	310	ARG	O-C-N	6.53	130.70	123.25
1	4	310	ARG	O-C-N	6.53	130.70	123.25
1	5	310	ARG	O-C-N	6.53	130.70	123.25
1	K	310	ARG	O-C-N	6.53	130.69	123.25
1	T	310	ARG	O-C-N	6.53	130.69	123.25
1	g	310	ARG	O-C-N	6.53	130.69	123.25
1	x	310	ARG	O-C-N	6.53	130.69	123.25
1	B	310	ARG	O-C-N	6.53	130.69	123.25
1	I	310	ARG	O-C-N	6.53	130.69	123.25
1	Q	310	ARG	O-C-N	6.53	130.69	123.25
1	R	310	ARG	O-C-N	6.53	130.69	123.25
1	k	310	ARG	O-C-N	6.53	130.69	123.25
1	o	310	ARG	O-C-N	6.53	130.69	123.25
1	r	310	ARG	O-C-N	6.53	130.69	123.25
1	u	310	ARG	O-C-N	6.53	130.69	123.25
1	1	310	ARG	O-C-N	6.52	130.69	123.25
1	F	310	ARG	O-C-N	6.52	130.68	123.25
1	G	310	ARG	O-C-N	6.52	130.68	123.25
1	O	310	ARG	O-C-N	6.52	130.68	123.25
1	8	310	ARG	O-C-N	6.52	130.68	123.25
1	N	310	ARG	O-C-N	6.50	130.66	123.25
1	c	310	ARG	O-C-N	6.50	130.66	123.25
1	7	310	ARG	O-C-N	6.50	130.66	123.25
2	7h	129	ALA	CA-C-N	6.48	126.45	120.03
2	7h	129	ALA	C-N-CA	6.48	126.45	120.03
2	Yh	129	ALA	CA-C-N	6.47	126.44	120.03
2	Yh	129	ALA	C-N-CA	6.47	126.44	120.03
1	w	382	ASN	N-CA-C	-6.47	96.70	108.02
1	N	382	ASN	N-CA-C	-6.46	96.71	108.02
1	Y	382	ASN	N-CA-C	-6.46	96.71	108.02
1	c	382	ASN	N-CA-C	-6.46	96.71	108.02
1	7	382	ASN	N-CA-C	-6.46	96.71	108.02
2	Ch	129	ALA	CA-C-N	6.46	126.43	120.03
2	Ch	129	ALA	C-N-CA	6.46	126.43	120.03
2	Ih	129	ALA	CA-C-N	6.46	126.43	120.03
2	Ih	129	ALA	C-N-CA	6.46	126.43	120.03
2	Kh	129	ALA	CA-C-N	6.46	126.43	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Kh	129	ALA	C-N-CA	6.46	126.43	120.03
2	Qh	129	ALA	CA-C-N	6.46	126.43	120.03
2	Qh	129	ALA	C-N-CA	6.46	126.43	120.03
2	Th	129	ALA	CA-C-N	6.46	126.43	120.03
2	Th	129	ALA	C-N-CA	6.46	126.43	120.03
2	Vh	129	ALA	CA-C-N	6.46	126.43	120.03
2	Vh	129	ALA	C-N-CA	6.46	126.43	120.03
2	ah	129	ALA	CA-C-N	6.46	126.43	120.03
2	ah	129	ALA	C-N-CA	6.46	126.43	120.03
2	gh	129	ALA	CA-C-N	6.46	126.43	120.03
2	gh	129	ALA	C-N-CA	6.46	126.43	120.03
2	oh	129	ALA	CA-C-N	6.46	126.43	120.03
2	oh	129	ALA	C-N-CA	6.46	126.43	120.03
2	rh	129	ALA	CA-C-N	6.46	126.43	120.03
2	rh	129	ALA	C-N-CA	6.46	126.43	120.03
2	xh	129	ALA	CA-C-N	6.46	126.43	120.03
2	xh	129	ALA	C-N-CA	6.46	126.43	120.03
1	T	382	ASN	N-CA-C	-6.46	96.72	108.02
1	V	382	ASN	N-CA-C	-6.46	96.72	108.02
1	2	382	ASN	N-CA-C	-6.46	96.72	108.02
1	h	382	ASN	N-CA-C	-6.46	96.72	108.02
1	j	382	ASN	N-CA-C	-6.46	96.72	108.02
2	nh	129	ALA	CA-C-N	6.46	126.42	120.03
2	nh	129	ALA	C-N-CA	6.46	126.42	120.03
1	E	382	ASN	N-CA-C	-6.45	96.73	108.02
1	G	382	ASN	N-CA-C	-6.45	96.73	108.02
1	O	382	ASN	N-CA-C	-6.45	96.73	108.02
1	f	382	ASN	N-CA-C	-6.45	96.73	108.02
1	n	382	ASN	N-CA-C	-6.45	96.73	108.02
1	8	382	ASN	N-CA-C	-6.45	96.73	108.02
1	T	549	LYS	N-CA-C	6.45	118.31	111.28
1	q	382	ASN	N-CA-C	-6.45	96.73	108.02
1	B	549	LYS	N-CA-C	6.45	118.31	111.28
1	K	382	ASN	N-CA-C	-6.45	96.73	108.02
1	R	549	LYS	N-CA-C	6.45	118.31	111.28
1	g	382	ASN	N-CA-C	-6.45	96.73	108.02
1	u	549	LYS	N-CA-C	6.45	118.31	111.28
1	x	382	ASN	N-CA-C	-6.45	96.73	108.02
1	F	382	ASN	N-CA-C	-6.45	96.74	108.02
1	3	382	ASN	N-CA-C	-6.45	96.74	108.02
1	6	382	ASN	N-CA-C	-6.45	96.74	108.02
1	o	549	LYS	N-CA-C	6.45	118.31	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Lh	129	ALA	CA-C-N	6.45	126.42	120.03
2	Lh	129	ALA	C-N-CA	6.45	126.42	120.03
1	D	382	ASN	N-CA-C	-6.45	96.74	108.02
1	W	382	ASN	N-CA-C	-6.45	96.74	108.02
1	e	382	ASN	N-CA-C	-6.45	96.74	108.02
1	z	382	ASN	N-CA-C	-6.45	96.74	108.02
2	Dh	129	ALA	CA-C-N	6.45	126.41	120.03
2	Dh	129	ALA	C-N-CA	6.45	126.41	120.03
2	Hh	129	ALA	CA-C-N	6.45	126.41	120.03
2	Hh	129	ALA	C-N-CA	6.45	126.41	120.03
2	Nh	129	ALA	CA-C-N	6.45	126.41	120.03
2	Nh	129	ALA	C-N-CA	6.45	126.41	120.03
2	Ph	129	ALA	CA-C-N	6.45	126.41	120.03
2	Ph	129	ALA	C-N-CA	6.45	126.41	120.03
2	Wh	129	ALA	CA-C-N	6.45	126.41	120.03
2	Wh	129	ALA	C-N-CA	6.45	126.41	120.03
2	ch	129	ALA	CA-C-N	6.45	126.41	120.03
2	ch	129	ALA	C-N-CA	6.45	126.41	120.03
2	dh	129	ALA	CA-C-N	6.45	126.41	120.03
2	dh	129	ALA	C-N-CA	6.45	126.41	120.03
2	eh	129	ALA	CA-C-N	6.45	126.41	120.03
2	eh	129	ALA	C-N-CA	6.45	126.41	120.03
2	yh	129	ALA	CA-C-N	6.45	126.41	120.03
2	yh	129	ALA	C-N-CA	6.45	126.41	120.03
2	Fh	129	ALA	CA-C-N	6.45	126.41	120.03
2	Fh	129	ALA	C-N-CA	6.45	126.41	120.03
2	1h	129	ALA	CA-C-N	6.45	126.41	120.03
2	1h	129	ALA	C-N-CA	6.45	126.41	120.03
2	2h	129	ALA	CA-C-N	6.45	126.41	120.03
2	2h	129	ALA	C-N-CA	6.45	126.41	120.03
2	3h	129	ALA	CA-C-N	6.45	126.41	120.03
2	3h	129	ALA	C-N-CA	6.45	126.41	120.03
2	4h	129	ALA	CA-C-N	6.45	126.41	120.03
2	4h	129	ALA	C-N-CA	6.45	126.41	120.03
2	5h	129	ALA	CA-C-N	6.45	126.41	120.03
2	5h	129	ALA	C-N-CA	6.45	126.41	120.03
2	6h	129	ALA	CA-C-N	6.45	126.41	120.03
2	6h	129	ALA	C-N-CA	6.45	126.41	120.03
2	fh	129	ALA	CA-C-N	6.45	126.41	120.03
2	fh	129	ALA	C-N-CA	6.45	126.41	120.03
2	hh	129	ALA	CA-C-N	6.45	126.41	120.03
2	hh	129	ALA	C-N-CA	6.45	126.41	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	ph	129	ALA	CA-C-N	6.45	126.41	120.03
2	ph	129	ALA	C-N-CA	6.45	126.41	120.03
2	sh	129	ALA	CA-C-N	6.45	126.41	120.03
2	sh	129	ALA	C-N-CA	6.45	126.41	120.03
2	wh	129	ALA	CA-C-N	6.45	126.41	120.03
2	wh	129	ALA	C-N-CA	6.45	126.41	120.03
1	1	549	LYS	N-CA-C	6.44	118.30	111.28
1	C	382	ASN	N-CA-C	-6.44	96.75	108.02
1	J	382	ASN	N-CA-C	-6.44	96.74	108.02
1	S	382	ASN	N-CA-C	-6.44	96.74	108.02
1	a	382	ASN	N-CA-C	-6.44	96.75	108.02
1	l	382	ASN	N-CA-C	-6.44	96.74	108.02
1	v	382	ASN	N-CA-C	-6.44	96.74	108.02
1	H	382	ASN	N-CA-C	-6.44	96.75	108.02
1	P	382	ASN	N-CA-C	-6.44	96.75	108.02
1	d	382	ASN	N-CA-C	-6.44	96.75	108.02
1	y	382	ASN	N-CA-C	-6.44	96.75	108.02
1	A	382	ASN	N-CA-C	-6.44	96.75	108.02
1	I	382	ASN	N-CA-C	-6.44	96.75	108.02
1	Q	382	ASN	N-CA-C	-6.44	96.75	108.02
1	4	382	ASN	N-CA-C	-6.44	96.75	108.02
1	o	382	ASN	N-CA-C	-6.44	96.75	108.02
1	p	382	ASN	N-CA-C	-6.44	96.75	108.02
1	r	382	ASN	N-CA-C	-6.44	96.75	108.02
1	s	382	ASN	N-CA-C	-6.44	96.75	108.02
1	M	382	ASN	N-CA-C	-6.43	96.76	108.02
1	X	382	ASN	N-CA-C	-6.43	96.76	108.02
1	Z	382	ASN	N-CA-C	-6.43	96.76	108.02
1	b	382	ASN	N-CA-C	-6.43	96.76	108.02
1	i	382	ASN	N-CA-C	-6.43	96.76	108.02
1	L	382	ASN	N-CA-C	-6.43	96.77	108.02
1	U	382	ASN	N-CA-C	-6.43	96.77	108.02
1	Z	549	LYS	N-CA-C	6.43	118.29	111.28
1	m	382	ASN	N-CA-C	-6.43	96.77	108.02
1	t	382	ASN	N-CA-C	-6.43	96.77	108.02
2	Eh	129	ALA	CA-C-N	6.43	126.40	120.03
2	Eh	129	ALA	C-N-CA	6.43	126.40	120.03
2	Gh	129	ALA	CA-C-N	6.43	126.40	120.03
2	Gh	129	ALA	C-N-CA	6.43	126.40	120.03
2	Mh	129	ALA	CA-C-N	6.43	126.40	120.03
2	Mh	129	ALA	C-N-CA	6.43	126.40	120.03
2	Xh	129	ALA	CA-C-N	6.43	126.40	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Xh	129	ALA	C-N-CA	6.43	126.40	120.03
2	bh	129	ALA	CA-C-N	6.43	126.40	120.03
2	bh	129	ALA	C-N-CA	6.43	126.40	120.03
2	ih	129	ALA	CA-C-N	6.43	126.40	120.03
2	ih	129	ALA	C-N-CA	6.43	126.40	120.03
2	qh	129	ALA	CA-C-N	6.43	126.40	120.03
2	qh	129	ALA	C-N-CA	6.43	126.40	120.03
1	5	382	ASN	N-CA-C	-6.43	96.77	108.02
1	R	382	ASN	N-CA-C	-6.42	96.78	108.02
1	k	382	ASN	N-CA-C	-6.42	96.78	108.02
2	zh	129	ALA	CA-C-N	6.42	126.39	120.03
2	zh	129	ALA	C-N-CA	6.42	126.39	120.03
1	1	382	ASN	N-CA-C	-6.42	96.79	108.02
1	B	382	ASN	N-CA-C	-6.42	96.79	108.02
1	u	382	ASN	N-CA-C	-6.42	96.79	108.02
2	Bh	129	ALA	CA-C-N	6.41	126.38	120.03
2	Bh	129	ALA	C-N-CA	6.41	126.38	120.03
2	Jh	129	ALA	CA-C-N	6.41	126.38	120.03
2	Jh	129	ALA	C-N-CA	6.41	126.38	120.03
2	Rh	129	ALA	CA-C-N	6.41	126.38	120.03
2	Rh	129	ALA	C-N-CA	6.41	126.38	120.03
2	Sh	129	ALA	CA-C-N	6.41	126.38	120.03
2	Sh	129	ALA	C-N-CA	6.41	126.38	120.03
2	Uh	129	ALA	CA-C-N	6.41	126.38	120.03
2	Uh	129	ALA	C-N-CA	6.41	126.38	120.03
2	kh	129	ALA	CA-C-N	6.41	126.38	120.03
2	kh	129	ALA	C-N-CA	6.41	126.38	120.03
2	lh	129	ALA	CA-C-N	6.41	126.38	120.03
2	lh	129	ALA	C-N-CA	6.41	126.38	120.03
2	mh	129	ALA	CA-C-N	6.41	126.38	120.03
2	mh	129	ALA	C-N-CA	6.41	126.38	120.03
2	th	129	ALA	CA-C-N	6.41	126.38	120.03
2	th	129	ALA	C-N-CA	6.41	126.38	120.03
2	uh	129	ALA	CA-C-N	6.41	126.38	120.03
2	uh	129	ALA	C-N-CA	6.41	126.38	120.03
2	vh	129	ALA	CA-C-N	6.41	126.38	120.03
2	vh	129	ALA	C-N-CA	6.41	126.38	120.03
3	fl	114	ASP	N-CA-C	6.41	118.27	111.28
2	Ah	129	ALA	CA-C-N	6.41	126.37	120.03
2	Ah	129	ALA	C-N-CA	6.41	126.37	120.03
2	Oh	129	ALA	CA-C-N	6.40	126.37	120.03
2	Oh	129	ALA	C-N-CA	6.40	126.37	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Zh	129	ALA	CA-C-N	6.40	126.37	120.03
2	Zh	129	ALA	C-N-CA	6.40	126.37	120.03
2	8h	129	ALA	CA-C-N	6.40	126.37	120.03
2	8h	129	ALA	C-N-CA	6.40	126.37	120.03
3	Ol	114	ASP	N-CA-C	6.40	118.26	111.28
3	Zl	114	ASP	N-CA-C	6.40	118.26	111.28
3	8l	114	ASP	N-CA-C	6.40	118.26	111.28
3	Cl	114	ASP	N-CA-C	6.40	118.25	111.28
3	Il	114	ASP	N-CA-C	6.40	118.25	111.28
3	Kl	114	ASP	N-CA-C	6.40	118.25	111.28
3	Vl	114	ASP	N-CA-C	6.40	118.25	111.28
3	al	114	ASP	N-CA-C	6.40	118.25	111.28
3	ol	114	ASP	N-CA-C	6.40	118.25	111.28
1	J	549	LYS	N-CA-C	6.40	118.33	111.36
1	S	549	LYS	N-CA-C	6.40	118.33	111.36
1	l	549	LYS	N-CA-C	6.40	118.33	111.36
1	v	549	LYS	N-CA-C	6.40	118.33	111.36
2	jh	129	ALA	CA-C-N	6.40	126.36	120.03
2	jh	129	ALA	C-N-CA	6.40	126.36	120.03
3	Al	114	ASP	N-CA-C	6.40	118.25	111.28
1	D	549	LYS	N-CA-C	6.39	118.33	111.36
1	W	549	LYS	N-CA-C	6.39	118.33	111.36
1	e	549	LYS	N-CA-C	6.39	118.33	111.36
1	z	549	LYS	N-CA-C	6.39	118.33	111.36
3	1l	114	ASP	N-CA-C	6.39	118.25	111.28
3	2l	114	ASP	N-CA-C	6.39	118.25	111.28
3	4l	114	ASP	N-CA-C	6.39	118.25	111.28
3	6l	114	ASP	N-CA-C	6.39	118.25	111.28
3	hl	114	ASP	N-CA-C	6.39	118.25	111.28
3	wl	114	ASP	N-CA-C	6.39	118.25	111.28
3	3l	114	ASP	N-CA-C	6.39	118.25	111.28
3	5l	114	ASP	N-CA-C	6.39	118.25	111.28
1	p	549	LYS	N-CA-C	6.39	118.33	111.36
1	s	549	LYS	N-CA-C	6.39	118.33	111.36
1	H	549	LYS	N-CA-C	6.39	118.33	111.36
1	L	549	LYS	N-CA-C	6.39	118.33	111.36
1	U	549	LYS	N-CA-C	6.39	118.33	111.36
1	d	549	LYS	N-CA-C	6.39	118.33	111.36
1	k	549	LYS	N-CA-C	6.39	118.33	111.36
1	m	549	LYS	N-CA-C	6.39	118.33	111.36
1	t	549	LYS	N-CA-C	6.39	118.33	111.36
1	P	549	LYS	N-CA-C	6.38	118.32	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	549	LYS	N-CA-C	6.38	118.32	111.36
3	il	114	ASP	N-CA-C	6.38	118.24	111.28
3	nl	114	ASP	N-CA-C	6.38	118.24	111.28
3	Dl	114	ASP	N-CA-C	6.38	118.23	111.28
3	Hl	114	ASP	N-CA-C	6.38	118.23	111.28
3	Pl	114	ASP	N-CA-C	6.38	118.23	111.28
3	Wl	114	ASP	N-CA-C	6.38	118.23	111.28
3	Yl	114	ASP	N-CA-C	6.38	118.23	111.28
3	cl	114	ASP	N-CA-C	6.38	118.23	111.28
3	el	114	ASP	N-CA-C	6.38	118.23	111.28
3	yl	114	ASP	N-CA-C	6.38	118.23	111.28
3	7l	114	ASP	N-CA-C	6.38	118.23	111.28
1	N	549	LYS	N-CA-C	6.38	118.31	111.36
1	Y	549	LYS	N-CA-C	6.38	118.31	111.36
1	c	549	LYS	N-CA-C	6.38	118.31	111.36
1	7	549	LYS	N-CA-C	6.38	118.31	111.36
3	dl	114	ASP	N-CA-C	6.38	118.23	111.28
1	O	549	LYS	N-CA-C	6.37	118.31	111.36
1	8	549	LYS	N-CA-C	6.37	118.31	111.36
3	Jl	114	ASP	N-CA-C	6.37	118.23	111.28
3	Sl	114	ASP	N-CA-C	6.37	118.23	111.28
3	ll	114	ASP	N-CA-C	6.37	118.23	111.28
3	vl	114	ASP	N-CA-C	6.37	118.23	111.28
3	Ll	114	ASP	N-CA-C	6.37	118.22	111.28
3	ul	114	ASP	N-CA-C	6.37	118.22	111.28
1	A	549	LYS	N-CA-C	6.37	118.30	111.36
1	M	549	LYS	N-CA-C	6.37	118.30	111.36
1	X	549	LYS	N-CA-C	6.37	118.30	111.36
1	b	549	LYS	N-CA-C	6.37	118.30	111.36
1	i	549	LYS	N-CA-C	6.37	118.30	111.36
3	Ql	114	ASP	N-CA-C	6.37	118.22	111.28
3	Tl	114	ASP	N-CA-C	6.37	118.22	111.28
3	gl	114	ASP	N-CA-C	6.37	118.22	111.28
3	rl	114	ASP	N-CA-C	6.37	118.22	111.28
3	xl	114	ASP	N-CA-C	6.37	118.22	111.28
3	zl	114	ASP	N-CA-C	6.37	118.22	111.28
1	F	549	LYS	N-CA-C	6.36	118.29	111.36
1	2	549	LYS	N-CA-C	6.36	118.29	111.36
1	3	549	LYS	N-CA-C	6.36	118.29	111.36
1	5	549	LYS	N-CA-C	6.36	118.29	111.36
1	6	549	LYS	N-CA-C	6.36	118.29	111.36
1	h	549	LYS	N-CA-C	6.36	118.29	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	w	549	LYS	N-CA-C	6.36	118.29	111.36
1	G	549	LYS	N-CA-C	6.36	118.29	111.36
3	Bl	114	ASP	N-CA-C	6.36	118.21	111.28
3	Rl	114	ASP	N-CA-C	6.36	118.21	111.28
3	Ul	114	ASP	N-CA-C	6.36	118.21	111.28
3	kl	114	ASP	N-CA-C	6.36	118.21	111.28
3	ml	114	ASP	N-CA-C	6.36	118.21	111.28
3	tl	114	ASP	N-CA-C	6.36	118.21	111.28
1	C	549	LYS	N-CA-C	6.36	118.29	111.36
1	V	549	LYS	N-CA-C	6.36	118.29	111.36
1	a	549	LYS	N-CA-C	6.36	118.29	111.36
1	j	549	LYS	N-CA-C	6.36	118.29	111.36
3	El	114	ASP	N-CA-C	6.36	118.21	111.28
3	Gl	114	ASP	N-CA-C	6.36	118.21	111.28
3	Ml	114	ASP	N-CA-C	6.36	118.21	111.28
3	Xl	114	ASP	N-CA-C	6.36	118.21	111.28
3	bl	114	ASP	N-CA-C	6.36	118.21	111.28
3	ql	114	ASP	N-CA-C	6.36	118.21	111.28
3	Fl	114	ASP	N-CA-C	6.35	118.20	111.28
3	jl	114	ASP	N-CA-C	6.35	118.20	111.28
3	pl	114	ASP	N-CA-C	6.35	118.20	111.28
3	sl	114	ASP	N-CA-C	6.35	118.20	111.28
1	E	549	LYS	N-CA-C	6.35	118.28	111.36
1	4	549	LYS	N-CA-C	6.35	118.28	111.36
1	f	549	LYS	N-CA-C	6.35	118.28	111.36
1	n	549	LYS	N-CA-C	6.35	118.28	111.36
1	q	549	LYS	N-CA-C	6.35	118.28	111.36
1	I	549	LYS	N-CA-C	6.34	118.27	111.36
1	Q	549	LYS	N-CA-C	6.34	118.27	111.36
1	r	549	LYS	N-CA-C	6.34	118.27	111.36
3	Nl	114	ASP	N-CA-C	6.34	118.19	111.28
1	K	549	LYS	N-CA-C	6.33	118.26	111.36
1	g	549	LYS	N-CA-C	6.33	118.26	111.36
1	x	549	LYS	N-CA-C	6.33	118.26	111.36
1	w	550	THR	N-CA-C	6.31	119.23	109.07
1	p	550	THR	N-CA-C	6.30	119.22	109.07
1	s	550	THR	N-CA-C	6.30	119.22	109.07
1	N	550	THR	N-CA-C	6.30	119.21	109.07
1	Y	550	THR	N-CA-C	6.30	119.21	109.07
1	c	550	THR	N-CA-C	6.30	119.21	109.07
1	7	550	THR	N-CA-C	6.30	119.21	109.07
1	C	550	THR	N-CA-C	6.29	119.19	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	550	THR	N-CA-C	6.29	119.19	109.07
1	T	550	THR	N-CA-C	6.29	119.19	109.07
1	V	550	THR	N-CA-C	6.29	119.19	109.07
1	a	550	THR	N-CA-C	6.29	119.19	109.07
1	g	550	THR	N-CA-C	6.29	119.19	109.07
1	j	550	THR	N-CA-C	6.29	119.19	109.07
1	x	550	THR	N-CA-C	6.29	119.19	109.07
1	6	550	THR	N-CA-C	6.28	119.19	109.07
1	G	550	THR	N-CA-C	6.28	119.18	109.07
1	Z	550	THR	N-CA-C	6.28	119.18	109.07
1	1	550	THR	N-CA-C	6.28	119.19	109.07
1	3	550	THR	N-CA-C	6.28	119.19	109.07
1	l	550	THR	N-CA-C	6.28	119.18	109.07
1	v	550	THR	N-CA-C	6.28	119.18	109.07
1	H	550	THR	N-CA-C	6.28	119.18	109.07
1	d	550	THR	N-CA-C	6.28	119.18	109.07
1	y	550	THR	N-CA-C	6.28	119.18	109.07
1	F	550	THR	N-CA-C	6.28	119.18	109.07
1	4	550	THR	N-CA-C	6.28	119.18	109.07
1	h	550	THR	N-CA-C	6.28	119.18	109.07
1	A	550	THR	N-CA-C	6.27	119.17	109.07
1	J	550	THR	N-CA-C	6.27	119.17	109.07
1	O	550	THR	N-CA-C	6.27	119.17	109.07
1	P	550	THR	N-CA-C	6.27	119.17	109.07
1	S	550	THR	N-CA-C	6.27	119.17	109.07
1	8	550	THR	N-CA-C	6.27	119.17	109.07
1	L	550	THR	N-CA-C	6.26	119.16	109.07
1	U	550	THR	N-CA-C	6.26	119.16	109.07
1	m	550	THR	N-CA-C	6.26	119.16	109.07
1	t	550	THR	N-CA-C	6.26	119.16	109.07
1	B	550	THR	N-CA-C	6.26	119.15	109.07
1	R	550	THR	N-CA-C	6.26	119.15	109.07
1	k	550	THR	N-CA-C	6.26	119.15	109.07
1	u	550	THR	N-CA-C	6.26	119.15	109.07
1	M	550	THR	N-CA-C	6.26	119.15	109.07
1	X	550	THR	N-CA-C	6.26	119.15	109.07
1	b	550	THR	N-CA-C	6.26	119.15	109.07
1	i	550	THR	N-CA-C	6.26	119.15	109.07
1	2	550	THR	N-CA-C	6.25	119.14	109.07
1	5	550	THR	N-CA-C	6.25	119.14	109.07
1	o	550	THR	N-CA-C	6.25	119.13	109.07
1	D	550	THR	N-CA-C	6.24	119.12	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	550	THR	N-CA-C	6.24	119.12	109.07
1	W	550	THR	N-CA-C	6.24	119.12	109.07
1	e	550	THR	N-CA-C	6.24	119.12	109.07
1	n	550	THR	N-CA-C	6.24	119.12	109.07
1	q	550	THR	N-CA-C	6.24	119.12	109.07
1	z	550	THR	N-CA-C	6.24	119.12	109.07
1	f	550	THR	N-CA-C	6.24	119.12	109.07
1	I	550	THR	N-CA-C	6.24	119.12	109.07
1	Q	550	THR	N-CA-C	6.24	119.12	109.07
1	r	550	THR	N-CA-C	6.24	119.12	109.07
1	D	249	LEU	CA-C-N	6.16	127.54	119.84
1	D	249	LEU	C-N-CA	6.16	127.54	119.84
1	W	249	LEU	CA-C-N	6.16	127.54	119.84
1	W	249	LEU	C-N-CA	6.16	127.54	119.84
1	3	476	ASN	N-CA-C	6.16	118.08	111.36
1	e	249	LEU	CA-C-N	6.16	127.54	119.84
1	e	249	LEU	C-N-CA	6.16	127.54	119.84
1	z	249	LEU	CA-C-N	6.16	127.54	119.84
1	z	249	LEU	C-N-CA	6.16	127.54	119.84
1	6	249	LEU	CA-C-N	6.14	127.52	119.84
1	6	249	LEU	C-N-CA	6.14	127.52	119.84
1	F	249	LEU	CA-C-N	6.14	127.52	119.84
1	F	249	LEU	C-N-CA	6.14	127.52	119.84
1	I	249	LEU	CA-C-N	6.14	127.51	119.84
1	I	249	LEU	C-N-CA	6.14	127.51	119.84
1	Q	249	LEU	CA-C-N	6.14	127.51	119.84
1	Q	249	LEU	C-N-CA	6.14	127.51	119.84
1	o	249	LEU	CA-C-N	6.14	127.51	119.84
1	o	249	LEU	C-N-CA	6.14	127.51	119.84
1	p	249	LEU	CA-C-N	6.14	127.52	119.84
1	p	249	LEU	C-N-CA	6.14	127.52	119.84
1	r	249	LEU	CA-C-N	6.14	127.51	119.84
1	r	249	LEU	C-N-CA	6.14	127.51	119.84
1	J	476	ASN	N-CA-C	6.14	118.05	111.36
1	L	476	ASN	N-CA-C	6.14	118.05	111.36
1	S	476	ASN	N-CA-C	6.14	118.05	111.36
1	U	476	ASN	N-CA-C	6.14	118.05	111.36
1	l	476	ASN	N-CA-C	6.14	118.05	111.36
1	m	476	ASN	N-CA-C	6.14	118.05	111.36
1	t	476	ASN	N-CA-C	6.14	118.05	111.36
1	v	476	ASN	N-CA-C	6.14	118.05	111.36
1	C	249	LEU	CA-C-N	6.13	127.50	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	249	LEU	C-N-CA	6.13	127.50	119.84
1	E	249	LEU	CA-C-N	6.13	127.50	119.84
1	E	249	LEU	C-N-CA	6.13	127.50	119.84
1	F	476	ASN	N-CA-C	6.13	118.04	111.36
1	I	476	ASN	N-CA-C	6.13	118.04	111.36
1	K	249	LEU	CA-C-N	6.13	127.50	119.84
1	K	249	LEU	C-N-CA	6.13	127.50	119.84
1	K	476	ASN	N-CA-C	6.13	118.04	111.36
1	M	249	LEU	CA-C-N	6.13	127.50	119.84
1	M	249	LEU	C-N-CA	6.13	127.50	119.84
1	O	249	LEU	CA-C-N	6.13	127.50	119.84
1	O	249	LEU	C-N-CA	6.13	127.50	119.84
1	Q	476	ASN	N-CA-C	6.13	118.04	111.36
1	V	249	LEU	CA-C-N	6.13	127.50	119.84
1	V	249	LEU	C-N-CA	6.13	127.50	119.84
1	X	249	LEU	CA-C-N	6.13	127.50	119.84
1	X	249	LEU	C-N-CA	6.13	127.50	119.84
1	a	249	LEU	CA-C-N	6.13	127.50	119.84
1	a	249	LEU	C-N-CA	6.13	127.50	119.84
1	b	249	LEU	CA-C-N	6.13	127.50	119.84
1	b	249	LEU	C-N-CA	6.13	127.50	119.84
1	g	249	LEU	CA-C-N	6.13	127.50	119.84
1	g	249	LEU	C-N-CA	6.13	127.50	119.84
1	g	476	ASN	N-CA-C	6.13	118.04	111.36
1	i	249	LEU	CA-C-N	6.13	127.50	119.84
1	i	249	LEU	C-N-CA	6.13	127.50	119.84
1	j	249	LEU	CA-C-N	6.13	127.50	119.84
1	j	249	LEU	C-N-CA	6.13	127.50	119.84
1	n	249	LEU	CA-C-N	6.13	127.50	119.84
1	n	249	LEU	C-N-CA	6.13	127.50	119.84
1	o	476	ASN	N-CA-C	6.13	118.04	111.36
1	q	249	LEU	CA-C-N	6.13	127.50	119.84
1	q	249	LEU	C-N-CA	6.13	127.50	119.84
1	r	476	ASN	N-CA-C	6.13	118.04	111.36
1	x	249	LEU	CA-C-N	6.13	127.50	119.84
1	x	249	LEU	C-N-CA	6.13	127.50	119.84
1	x	476	ASN	N-CA-C	6.13	118.04	111.36
1	8	249	LEU	CA-C-N	6.13	127.50	119.84
1	8	249	LEU	C-N-CA	6.13	127.50	119.84
1	E	476	ASN	N-CA-C	6.13	118.04	111.36
1	G	476	ASN	N-CA-C	6.13	118.04	111.36
1	Z	249	LEU	CA-C-N	6.13	127.50	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	249	LEU	C-N-CA	6.13	127.50	119.84
1	Z	476	ASN	N-CA-C	6.13	118.04	111.36
1	2	249	LEU	CA-C-N	6.13	127.50	119.84
1	2	249	LEU	C-N-CA	6.13	127.50	119.84
1	5	249	LEU	CA-C-N	6.13	127.50	119.84
1	5	249	LEU	C-N-CA	6.13	127.50	119.84
1	6	476	ASN	N-CA-C	6.13	118.04	111.36
1	f	476	ASN	N-CA-C	6.13	118.04	111.36
1	n	476	ASN	N-CA-C	6.13	118.04	111.36
1	q	476	ASN	N-CA-C	6.13	118.04	111.36
1	A	249	LEU	CA-C-N	6.12	127.50	119.84
1	A	249	LEU	C-N-CA	6.12	127.50	119.84
1	1	476	ASN	N-CA-C	6.12	118.03	111.36
1	D	476	ASN	N-CA-C	6.12	118.03	111.36
1	N	476	ASN	N-CA-C	6.12	118.03	111.36
1	W	476	ASN	N-CA-C	6.12	118.03	111.36
1	Y	476	ASN	N-CA-C	6.12	118.03	111.36
1	c	476	ASN	N-CA-C	6.12	118.03	111.36
1	e	476	ASN	N-CA-C	6.12	118.03	111.36
1	f	249	LEU	CA-C-N	6.12	127.49	119.84
1	f	249	LEU	C-N-CA	6.12	127.49	119.84
1	z	476	ASN	N-CA-C	6.12	118.03	111.36
1	7	476	ASN	N-CA-C	6.12	118.03	111.36
1	J	249	LEU	CA-C-N	6.12	127.49	119.84
1	J	249	LEU	C-N-CA	6.12	127.49	119.84
1	S	249	LEU	CA-C-N	6.12	127.49	119.84
1	S	249	LEU	C-N-CA	6.12	127.49	119.84
1	l	249	LEU	CA-C-N	6.12	127.49	119.84
1	l	249	LEU	C-N-CA	6.12	127.49	119.84
1	v	249	LEU	CA-C-N	6.12	127.49	119.84
1	v	249	LEU	C-N-CA	6.12	127.49	119.84
1	B	476	ASN	N-CA-C	6.12	118.03	111.36
1	R	476	ASN	N-CA-C	6.12	118.03	111.36
1	k	476	ASN	N-CA-C	6.12	118.03	111.36
1	u	476	ASN	N-CA-C	6.12	118.03	111.36
1	A	476	ASN	N-CA-C	6.12	118.03	111.36
1	T	476	ASN	N-CA-C	6.12	118.03	111.36
1	p	476	ASN	N-CA-C	6.12	118.03	111.36
1	s	249	LEU	CA-C-N	6.12	127.48	119.84
1	s	249	LEU	C-N-CA	6.12	127.48	119.84
1	T	249	LEU	CA-C-N	6.11	127.48	119.84
1	T	249	LEU	C-N-CA	6.11	127.48	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	249	LEU	CA-C-N	6.11	127.48	119.84
1	G	249	LEU	C-N-CA	6.11	127.48	119.84
1	M	476	ASN	N-CA-C	6.11	118.02	111.36
1	O	476	ASN	N-CA-C	6.11	118.02	111.36
1	b	476	ASN	N-CA-C	6.11	118.02	111.36
1	i	476	ASN	N-CA-C	6.11	118.02	111.36
1	8	476	ASN	N-CA-C	6.11	118.02	111.36
1	H	476	ASN	N-CA-C	6.11	118.02	111.36
1	P	476	ASN	N-CA-C	6.11	118.02	111.36
1	1	249	LEU	CA-C-N	6.11	127.47	119.84
1	1	249	LEU	C-N-CA	6.11	127.47	119.84
1	d	476	ASN	N-CA-C	6.11	118.02	111.36
1	w	249	LEU	CA-C-N	6.11	127.47	119.84
1	w	249	LEU	C-N-CA	6.11	127.47	119.84
1	y	476	ASN	N-CA-C	6.11	118.02	111.36
1	X	476	ASN	N-CA-C	6.10	118.01	111.36
1	L	249	LEU	CA-C-N	6.10	127.47	119.84
1	L	249	LEU	C-N-CA	6.10	127.47	119.84
1	U	249	LEU	CA-C-N	6.10	127.47	119.84
1	U	249	LEU	C-N-CA	6.10	127.47	119.84
1	3	249	LEU	CA-C-N	6.10	127.47	119.84
1	3	249	LEU	C-N-CA	6.10	127.47	119.84
1	4	249	LEU	CA-C-N	6.10	127.47	119.84
1	4	249	LEU	C-N-CA	6.10	127.47	119.84
1	m	249	LEU	CA-C-N	6.10	127.47	119.84
1	m	249	LEU	C-N-CA	6.10	127.47	119.84
1	t	249	LEU	CA-C-N	6.10	127.47	119.84
1	t	249	LEU	C-N-CA	6.10	127.47	119.84
3	pl	79	VAL	CA-C-N	6.10	126.05	119.76
3	pl	79	VAL	C-N-CA	6.10	126.05	119.76
1	B	249	LEU	CA-C-N	6.10	127.47	119.84
1	B	249	LEU	C-N-CA	6.10	127.47	119.84
1	P	249	LEU	CA-C-N	6.10	127.47	119.84
1	P	249	LEU	C-N-CA	6.10	127.47	119.84
1	R	249	LEU	CA-C-N	6.10	127.47	119.84
1	R	249	LEU	C-N-CA	6.10	127.47	119.84
1	k	249	LEU	CA-C-N	6.10	127.47	119.84
1	k	249	LEU	C-N-CA	6.10	127.47	119.84
1	u	249	LEU	CA-C-N	6.10	127.47	119.84
1	u	249	LEU	C-N-CA	6.10	127.47	119.84
1	N	249	LEU	CA-C-N	6.10	127.46	119.84
1	N	249	LEU	C-N-CA	6.10	127.46	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	249	LEU	CA-C-N	6.10	127.46	119.84
1	Y	249	LEU	C-N-CA	6.10	127.46	119.84
1	c	249	LEU	CA-C-N	6.10	127.46	119.84
1	c	249	LEU	C-N-CA	6.10	127.46	119.84
1	7	249	LEU	CA-C-N	6.10	127.46	119.84
1	7	249	LEU	C-N-CA	6.10	127.46	119.84
1	H	249	LEU	CA-C-N	6.10	127.46	119.84
1	H	249	LEU	C-N-CA	6.10	127.46	119.84
1	d	249	LEU	CA-C-N	6.10	127.46	119.84
1	d	249	LEU	C-N-CA	6.10	127.46	119.84
1	y	249	LEU	CA-C-N	6.10	127.46	119.84
1	y	249	LEU	C-N-CA	6.10	127.46	119.84
1	C	476	ASN	N-CA-C	6.09	118.00	111.36
1	a	476	ASN	N-CA-C	6.09	118.00	111.36
3	cl	79	VAL	CA-C-N	6.09	126.03	119.76
3	cl	79	VAL	C-N-CA	6.09	126.03	119.76
3	Kl	79	VAL	CA-C-N	6.09	126.03	119.76
3	Kl	79	VAL	C-N-CA	6.09	126.03	119.76
1	2	476	ASN	N-CA-C	6.08	117.99	111.36
1	4	476	ASN	N-CA-C	6.08	117.99	111.36
1	5	476	ASN	N-CA-C	6.08	117.99	111.36
1	h	476	ASN	N-CA-C	6.08	117.99	111.36
1	s	476	ASN	N-CA-C	6.08	117.99	111.36
1	w	476	ASN	N-CA-C	6.08	117.99	111.36
1	V	476	ASN	N-CA-C	6.08	117.99	111.36
1	h	249	LEU	CA-C-N	6.08	127.44	119.84
1	h	249	LEU	C-N-CA	6.08	127.44	119.84
1	j	476	ASN	N-CA-C	6.08	117.99	111.36
3	fl	79	VAL	CA-C-N	6.07	126.01	119.76
3	fl	79	VAL	C-N-CA	6.07	126.01	119.76
3	El	79	VAL	CA-C-N	6.07	126.01	119.76
3	El	79	VAL	C-N-CA	6.07	126.01	119.76
3	Gl	79	VAL	CA-C-N	6.07	126.01	119.76
3	Gl	79	VAL	C-N-CA	6.07	126.01	119.76
3	Ml	79	VAL	CA-C-N	6.07	126.01	119.76
3	Ml	79	VAL	C-N-CA	6.07	126.01	119.76
3	Xl	79	VAL	CA-C-N	6.07	126.01	119.76
3	Xl	79	VAL	C-N-CA	6.07	126.01	119.76
3	bl	79	VAL	CA-C-N	6.07	126.01	119.76
3	bl	79	VAL	C-N-CA	6.07	126.01	119.76
3	ql	79	VAL	CA-C-N	6.07	126.01	119.76
3	ql	79	VAL	C-N-CA	6.07	126.01	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Dl	79	VAL	CA-C-N	6.07	126.01	119.76
3	Dl	79	VAL	C-N-CA	6.07	126.01	119.76
3	Wl	79	VAL	CA-C-N	6.07	126.01	119.76
3	Wl	79	VAL	C-N-CA	6.07	126.01	119.76
3	Yl	79	VAL	CA-C-N	6.07	126.01	119.76
3	Yl	79	VAL	C-N-CA	6.07	126.01	119.76
3	el	79	VAL	CA-C-N	6.07	126.01	119.76
3	el	79	VAL	C-N-CA	6.07	126.01	119.76
3	7l	79	VAL	CA-C-N	6.07	126.01	119.76
3	7l	79	VAL	C-N-CA	6.07	126.01	119.76
3	Nl	79	VAL	CA-C-N	6.06	126.00	119.76
3	Nl	79	VAL	C-N-CA	6.06	126.00	119.76
3	nl	79	VAL	CA-C-N	6.06	126.00	119.76
3	nl	79	VAL	C-N-CA	6.06	126.00	119.76
3	jl	79	VAL	CA-C-N	6.05	125.99	119.76
3	jl	79	VAL	C-N-CA	6.05	125.99	119.76
3	Ll	79	VAL	CA-C-N	6.04	125.99	119.76
3	Ll	79	VAL	C-N-CA	6.04	125.99	119.76
3	Fl	79	VAL	CA-C-N	6.04	125.98	119.76
3	Fl	79	VAL	C-N-CA	6.04	125.98	119.76
3	1l	79	VAL	CA-C-N	6.04	125.98	119.76
3	1l	79	VAL	C-N-CA	6.04	125.98	119.76
3	2l	79	VAL	CA-C-N	6.04	125.98	119.76
3	2l	79	VAL	C-N-CA	6.04	125.98	119.76
3	3l	79	VAL	CA-C-N	6.04	125.98	119.76
3	3l	79	VAL	C-N-CA	6.04	125.98	119.76
3	4l	79	VAL	CA-C-N	6.04	125.98	119.76
3	4l	79	VAL	C-N-CA	6.04	125.98	119.76
3	5l	79	VAL	CA-C-N	6.04	125.98	119.76
3	5l	79	VAL	C-N-CA	6.04	125.98	119.76
3	6l	79	VAL	CA-C-N	6.04	125.98	119.76
3	6l	79	VAL	C-N-CA	6.04	125.98	119.76
3	hl	79	VAL	CA-C-N	6.04	125.98	119.76
3	hl	79	VAL	C-N-CA	6.04	125.98	119.76
3	sl	79	VAL	CA-C-N	6.04	125.98	119.76
3	sl	79	VAL	C-N-CA	6.04	125.98	119.76
3	il	79	VAL	CA-C-N	6.04	125.98	119.76
3	il	79	VAL	C-N-CA	6.04	125.98	119.76
3	Al	79	VAL	CA-C-N	6.04	125.98	119.76
3	Al	79	VAL	C-N-CA	6.04	125.98	119.76
3	Pl	79	VAL	CA-C-N	6.03	125.97	119.76
3	Pl	79	VAL	C-N-CA	6.03	125.97	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	dl	79	VAL	CA-C-N	6.03	125.97	119.76
3	dl	79	VAL	C-N-CA	6.03	125.97	119.76
3	yl	79	VAL	CA-C-N	6.03	125.97	119.76
3	yl	79	VAL	C-N-CA	6.03	125.97	119.76
3	Ol	79	VAL	CA-C-N	6.03	125.97	119.76
3	Ol	79	VAL	C-N-CA	6.03	125.97	119.76
3	Zl	79	VAL	CA-C-N	6.03	125.97	119.76
3	Zl	79	VAL	C-N-CA	6.03	125.97	119.76
3	8l	79	VAL	CA-C-N	6.03	125.97	119.76
3	8l	79	VAL	C-N-CA	6.03	125.97	119.76
3	gl	79	VAL	CA-C-N	6.02	125.96	119.76
3	gl	79	VAL	C-N-CA	6.02	125.96	119.76
3	Hl	79	VAL	CA-C-N	6.02	125.96	119.76
3	Hl	79	VAL	C-N-CA	6.02	125.96	119.76
3	Bl	79	VAL	CA-C-N	6.02	125.96	119.76
3	Bl	79	VAL	C-N-CA	6.02	125.96	119.76
3	Rl	79	VAL	CA-C-N	6.02	125.96	119.76
3	Rl	79	VAL	C-N-CA	6.02	125.96	119.76
3	ul	79	VAL	CA-C-N	6.02	125.96	119.76
3	ul	79	VAL	C-N-CA	6.02	125.96	119.76
3	Cl	79	VAL	CA-C-N	6.01	125.96	119.76
3	Cl	79	VAL	C-N-CA	6.01	125.96	119.76
3	Il	79	VAL	CA-C-N	6.01	125.96	119.76
3	Il	79	VAL	C-N-CA	6.01	125.96	119.76
3	Ql	79	VAL	CA-C-N	6.01	125.96	119.76
3	Ql	79	VAL	C-N-CA	6.01	125.96	119.76
3	Tl	79	VAL	CA-C-N	6.01	125.96	119.76
3	Tl	79	VAL	C-N-CA	6.01	125.96	119.76
3	Vl	79	VAL	CA-C-N	6.01	125.96	119.76
3	Vl	79	VAL	C-N-CA	6.01	125.96	119.76
3	al	79	VAL	CA-C-N	6.01	125.96	119.76
3	al	79	VAL	C-N-CA	6.01	125.96	119.76
3	ol	79	VAL	CA-C-N	6.01	125.96	119.76
3	ol	79	VAL	C-N-CA	6.01	125.96	119.76
3	rl	79	VAL	CA-C-N	6.01	125.96	119.76
3	rl	79	VAL	C-N-CA	6.01	125.96	119.76
3	xl	79	VAL	CA-C-N	6.01	125.96	119.76
3	xl	79	VAL	C-N-CA	6.01	125.96	119.76
3	wl	79	VAL	CA-C-N	6.01	125.95	119.76
3	wl	79	VAL	C-N-CA	6.01	125.95	119.76
3	zl	79	VAL	CA-C-N	6.00	125.94	119.76
3	zl	79	VAL	C-N-CA	6.00	125.94	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Jl	79	VAL	CA-C-N	5.99	125.93	119.76
3	Jl	79	VAL	C-N-CA	5.99	125.93	119.76
3	Ul	79	VAL	CA-C-N	5.99	125.93	119.76
3	Ul	79	VAL	C-N-CA	5.99	125.93	119.76
3	kl	79	VAL	CA-C-N	5.99	125.93	119.76
3	kl	79	VAL	C-N-CA	5.99	125.93	119.76
3	ml	79	VAL	CA-C-N	5.99	125.93	119.76
3	ml	79	VAL	C-N-CA	5.99	125.93	119.76
3	tl	79	VAL	CA-C-N	5.99	125.93	119.76
3	tl	79	VAL	C-N-CA	5.99	125.93	119.76
3	ll	79	VAL	CA-C-N	5.98	125.92	119.76
3	ll	79	VAL	C-N-CA	5.98	125.92	119.76
3	Sl	79	VAL	CA-C-N	5.98	125.92	119.76
3	Sl	79	VAL	C-N-CA	5.98	125.92	119.76
3	vl	79	VAL	CA-C-N	5.98	125.92	119.76
3	vl	79	VAL	C-N-CA	5.98	125.92	119.76
1	5	484	ARG	N-CA-C	5.97	118.91	110.50
1	I	484	ARG	N-CA-C	5.95	118.89	110.50
1	Q	484	ARG	N-CA-C	5.95	118.89	110.50
1	o	484	ARG	N-CA-C	5.95	118.89	110.50
1	r	484	ARG	N-CA-C	5.95	118.89	110.50
1	F	484	ARG	N-CA-C	5.94	118.88	110.50
1	6	484	ARG	N-CA-C	5.94	118.87	110.50
1	w	484	ARG	N-CA-C	5.94	118.87	110.50
1	B	484	ARG	N-CA-C	5.93	118.87	110.50
1	R	484	ARG	N-CA-C	5.93	118.87	110.50
1	k	484	ARG	N-CA-C	5.93	118.87	110.50
1	u	484	ARG	N-CA-C	5.93	118.87	110.50
1	2	484	ARG	N-CA-C	5.93	118.87	110.50
1	E	484	ARG	N-CA-C	5.93	118.86	110.50
1	n	484	ARG	N-CA-C	5.93	118.86	110.50
1	q	484	ARG	N-CA-C	5.93	118.86	110.50
1	H	484	ARG	N-CA-C	5.93	118.86	110.50
1	N	484	ARG	N-CA-C	5.93	118.86	110.50
1	P	484	ARG	N-CA-C	5.93	118.86	110.50
1	Y	484	ARG	N-CA-C	5.93	118.86	110.50
1	c	484	ARG	N-CA-C	5.93	118.86	110.50
1	d	484	ARG	N-CA-C	5.93	118.86	110.50
1	y	484	ARG	N-CA-C	5.93	118.86	110.50
1	7	484	ARG	N-CA-C	5.93	118.86	110.50
1	4	484	ARG	N-CA-C	5.93	118.86	110.50
1	K	484	ARG	N-CA-C	5.92	118.85	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	484	ARG	N-CA-C	5.92	118.85	110.50
1	x	484	ARG	N-CA-C	5.92	118.85	110.50
1	A	484	ARG	N-CA-C	5.92	118.85	110.50
1	O	484	ARG	N-CA-C	5.92	118.84	110.50
1	3	484	ARG	N-CA-C	5.92	118.84	110.50
1	f	484	ARG	N-CA-C	5.92	118.84	110.50
1	h	484	ARG	N-CA-C	5.92	118.84	110.50
1	D	484	ARG	N-CA-C	5.91	118.84	110.50
1	W	484	ARG	N-CA-C	5.91	118.84	110.50
1	1	484	ARG	N-CA-C	5.91	118.83	110.50
1	M	484	ARG	N-CA-C	5.91	118.83	110.50
1	X	484	ARG	N-CA-C	5.91	118.83	110.50
1	Z	484	ARG	N-CA-C	5.91	118.83	110.50
1	b	484	ARG	N-CA-C	5.91	118.83	110.50
1	i	484	ARG	N-CA-C	5.91	118.83	110.50
1	8	484	ARG	N-CA-C	5.91	118.83	110.50
1	J	484	ARG	N-CA-C	5.91	118.83	110.50
1	L	484	ARG	N-CA-C	5.91	118.83	110.50
1	S	484	ARG	N-CA-C	5.91	118.83	110.50
1	U	484	ARG	N-CA-C	5.91	118.83	110.50
1	l	484	ARG	N-CA-C	5.91	118.83	110.50
1	m	484	ARG	N-CA-C	5.91	118.83	110.50
1	t	484	ARG	N-CA-C	5.91	118.83	110.50
1	v	484	ARG	N-CA-C	5.91	118.83	110.50
1	p	484	ARG	N-CA-C	5.89	118.81	110.50
1	s	484	ARG	N-CA-C	5.89	118.81	110.50
1	e	484	ARG	N-CA-C	5.89	118.80	110.50
1	z	484	ARG	N-CA-C	5.89	118.80	110.50
1	C	484	ARG	N-CA-C	5.88	118.80	110.50
1	G	484	ARG	N-CA-C	5.88	118.80	110.50
1	T	484	ARG	N-CA-C	5.88	118.80	110.50
1	V	484	ARG	N-CA-C	5.88	118.80	110.50
1	a	484	ARG	N-CA-C	5.88	118.80	110.50
1	j	484	ARG	N-CA-C	5.88	118.80	110.50
1	C	483	TYR	N-CA-C	-5.88	98.70	108.34
1	H	483	TYR	N-CA-C	-5.88	98.71	108.34
1	N	483	TYR	N-CA-C	-5.88	98.71	108.34
1	P	483	TYR	N-CA-C	-5.88	98.71	108.34
1	V	483	TYR	N-CA-C	-5.88	98.70	108.34
1	Y	483	TYR	N-CA-C	-5.88	98.71	108.34
1	a	483	TYR	N-CA-C	-5.88	98.70	108.34
1	c	483	TYR	N-CA-C	-5.88	98.71	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	483	TYR	N-CA-C	-5.88	98.71	108.34
1	j	483	TYR	N-CA-C	-5.88	98.70	108.34
1	y	483	TYR	N-CA-C	-5.88	98.71	108.34
1	7	483	TYR	N-CA-C	-5.88	98.71	108.34
1	4	483	TYR	N-CA-C	-5.87	98.71	108.34
1	F	483	TYR	N-CA-C	-5.86	98.73	108.34
1	2	483	TYR	N-CA-C	-5.86	98.73	108.34
1	5	483	TYR	N-CA-C	-5.86	98.73	108.34
1	h	483	TYR	N-CA-C	-5.86	98.73	108.34
1	p	694	TRP	N-CA-C	5.86	117.47	111.14
1	w	483	TYR	N-CA-C	-5.86	98.73	108.34
1	H	694	TRP	N-CA-C	5.86	117.47	111.14
1	I	483	TYR	N-CA-C	-5.86	98.73	108.34
1	P	694	TRP	N-CA-C	5.86	117.47	111.14
1	Q	483	TYR	N-CA-C	-5.86	98.73	108.34
1	d	694	TRP	N-CA-C	5.86	117.47	111.14
1	r	483	TYR	N-CA-C	-5.86	98.73	108.34
1	y	694	TRP	N-CA-C	5.86	117.47	111.14
1	G	483	TYR	N-CA-C	-5.85	98.75	108.34
1	f	483	TYR	N-CA-C	-5.85	98.75	108.34
1	E	483	TYR	N-CA-C	-5.85	98.75	108.34
1	O	483	TYR	N-CA-C	-5.85	98.75	108.34
1	Z	483	TYR	N-CA-C	-5.85	98.75	108.34
1	n	483	TYR	N-CA-C	-5.85	98.75	108.34
1	q	483	TYR	N-CA-C	-5.85	98.75	108.34
1	8	483	TYR	N-CA-C	-5.85	98.75	108.34
1	K	483	TYR	N-CA-C	-5.84	98.75	108.34
1	T	483	TYR	N-CA-C	-5.84	98.75	108.34
1	6	483	TYR	N-CA-C	-5.84	98.76	108.34
1	o	483	TYR	N-CA-C	-5.84	98.75	108.34
1	x	483	TYR	N-CA-C	-5.84	98.75	108.34
1	A	483	TYR	N-CA-C	-5.84	98.76	108.34
1	J	694	TRP	N-CA-C	5.84	117.45	111.14
1	S	694	TRP	N-CA-C	5.84	117.45	111.14
1	l	694	TRP	N-CA-C	5.84	117.45	111.14
1	v	694	TRP	N-CA-C	5.84	117.45	111.14
1	J	483	TYR	N-CA-C	-5.84	98.76	108.34
1	S	483	TYR	N-CA-C	-5.84	98.76	108.34
1	1	483	TYR	N-CA-C	-5.84	98.76	108.34
1	l	483	TYR	N-CA-C	-5.84	98.76	108.34
1	p	483	TYR	N-CA-C	-5.84	98.76	108.34
1	v	483	TYR	N-CA-C	-5.84	98.76	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	483	TYR	N-CA-C	-5.84	98.77	108.34
1	U	483	TYR	N-CA-C	-5.84	98.77	108.34
1	m	483	TYR	N-CA-C	-5.84	98.77	108.34
1	t	483	TYR	N-CA-C	-5.84	98.77	108.34
1	B	483	TYR	N-CA-C	-5.84	98.77	108.34
1	M	483	TYR	N-CA-C	-5.83	98.77	108.34
1	X	483	TYR	N-CA-C	-5.83	98.77	108.34
1	b	483	TYR	N-CA-C	-5.83	98.77	108.34
1	i	483	TYR	N-CA-C	-5.83	98.77	108.34
1	3	483	TYR	N-CA-C	-5.83	98.78	108.34
1	N	694	TRP	N-CA-C	5.83	117.44	111.14
1	T	694	TRP	N-CA-C	5.83	117.44	111.14
1	Y	694	TRP	N-CA-C	5.83	117.44	111.14
1	c	694	TRP	N-CA-C	5.83	117.44	111.14
1	7	694	TRP	N-CA-C	5.83	117.44	111.14
1	D	483	TYR	N-CA-C	-5.83	98.78	108.34
1	I	694	TRP	N-CA-C	5.83	117.44	111.14
1	W	483	TYR	N-CA-C	-5.83	98.78	108.34
1	Z	694	TRP	N-CA-C	5.83	117.44	111.14
1	e	483	TYR	N-CA-C	-5.83	98.78	108.34
1	z	483	TYR	N-CA-C	-5.83	98.78	108.34
1	C	694	TRP	N-CA-C	5.83	117.43	111.14
1	K	694	TRP	N-CA-C	5.83	117.43	111.14
1	V	694	TRP	N-CA-C	5.83	117.43	111.14
1	a	694	TRP	N-CA-C	5.83	117.43	111.14
1	g	483	TYR	N-CA-C	-5.83	98.78	108.34
1	g	694	TRP	N-CA-C	5.83	117.43	111.14
1	j	694	TRP	N-CA-C	5.83	117.43	111.14
1	x	694	TRP	N-CA-C	5.83	117.43	111.14
1	F	694	TRP	N-CA-C	5.83	117.43	111.14
1	2	694	TRP	N-CA-C	5.83	117.43	111.14
1	4	694	TRP	N-CA-C	5.83	117.43	111.14
1	h	694	TRP	N-CA-C	5.83	117.43	111.14
1	A	694	TRP	N-CA-C	5.82	117.43	111.14
1	3	694	TRP	N-CA-C	5.82	117.43	111.14
1	w	694	TRP	N-CA-C	5.82	117.43	111.14
1	Q	694	TRP	N-CA-C	5.82	117.43	111.14
1	o	694	TRP	N-CA-C	5.82	117.43	111.14
1	r	694	TRP	N-CA-C	5.82	117.43	111.14
1	B	694	TRP	N-CA-C	5.82	117.43	111.14
1	R	483	TYR	N-CA-C	-5.82	98.79	108.34
1	k	483	TYR	N-CA-C	-5.82	98.79	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	694	TRP	N-CA-C	5.82	117.43	111.14
1	u	483	TYR	N-CA-C	-5.82	98.79	108.34
1	u	694	TRP	N-CA-C	5.82	117.43	111.14
1	5	694	TRP	N-CA-C	5.82	117.42	111.14
1	6	694	TRP	N-CA-C	5.82	117.42	111.14
1	s	694	TRP	N-CA-C	5.82	117.42	111.14
1	D	694	TRP	N-CA-C	5.81	117.42	111.14
1	W	694	TRP	N-CA-C	5.81	117.42	111.14
1	e	694	TRP	N-CA-C	5.81	117.42	111.14
1	z	694	TRP	N-CA-C	5.81	117.42	111.14
1	s	483	TYR	N-CA-C	-5.81	98.81	108.34
1	1	694	TRP	N-CA-C	5.81	117.41	111.14
1	E	694	TRP	N-CA-C	5.80	117.41	111.14
1	G	694	TRP	N-CA-C	5.80	117.41	111.14
1	f	694	TRP	N-CA-C	5.80	117.41	111.14
1	n	694	TRP	N-CA-C	5.80	117.41	111.14
1	q	694	TRP	N-CA-C	5.80	117.41	111.14
1	L	694	TRP	N-CA-C	5.79	117.39	111.14
1	R	694	TRP	N-CA-C	5.79	117.40	111.14
1	U	694	TRP	N-CA-C	5.79	117.39	111.14
1	m	694	TRP	N-CA-C	5.79	117.39	111.14
1	t	694	TRP	N-CA-C	5.79	117.39	111.14
1	M	694	TRP	N-CA-C	5.78	117.38	111.14
1	O	694	TRP	N-CA-C	5.78	117.38	111.14
1	X	694	TRP	N-CA-C	5.78	117.38	111.14
1	b	694	TRP	N-CA-C	5.78	117.38	111.14
1	i	694	TRP	N-CA-C	5.78	117.38	111.14
1	8	694	TRP	N-CA-C	5.78	117.38	111.14
1	4	722	GLU	CA-C-N	5.67	125.34	119.05
1	4	722	GLU	C-N-CA	5.67	125.34	119.05
1	5	722	GLU	CA-C-N	5.67	125.34	119.05
1	5	722	GLU	C-N-CA	5.67	125.34	119.05
1	j	722	GLU	CA-C-N	5.67	125.34	119.05
1	j	722	GLU	C-N-CA	5.67	125.34	119.05
1	B	722	GLU	CA-C-N	5.67	125.34	119.05
1	B	722	GLU	C-N-CA	5.67	125.34	119.05
1	k	722	GLU	CA-C-N	5.67	125.34	119.05
1	k	722	GLU	C-N-CA	5.67	125.34	119.05
1	u	722	GLU	CA-C-N	5.67	125.34	119.05
1	u	722	GLU	C-N-CA	5.67	125.34	119.05
1	C	722	GLU	CA-C-N	5.66	125.33	119.05
1	C	722	GLU	C-N-CA	5.66	125.33	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	V	722	GLU	CA-C-N	5.66	125.33	119.05
1	V	722	GLU	C-N-CA	5.66	125.33	119.05
1	a	722	GLU	CA-C-N	5.66	125.33	119.05
1	a	722	GLU	C-N-CA	5.66	125.33	119.05
1	G	722	GLU	CA-C-N	5.66	125.33	119.05
1	G	722	GLU	C-N-CA	5.66	125.33	119.05
1	M	722	GLU	CA-C-N	5.66	125.33	119.05
1	M	722	GLU	C-N-CA	5.66	125.33	119.05
1	X	722	GLU	CA-C-N	5.66	125.33	119.05
1	X	722	GLU	C-N-CA	5.66	125.33	119.05
1	b	722	GLU	CA-C-N	5.66	125.33	119.05
1	b	722	GLU	C-N-CA	5.66	125.33	119.05
1	i	722	GLU	CA-C-N	5.66	125.33	119.05
1	i	722	GLU	C-N-CA	5.66	125.33	119.05
1	J	722	GLU	CA-C-N	5.65	125.32	119.05
1	J	722	GLU	C-N-CA	5.65	125.32	119.05
1	S	722	GLU	CA-C-N	5.65	125.32	119.05
1	S	722	GLU	C-N-CA	5.65	125.32	119.05
1	l	722	GLU	CA-C-N	5.65	125.32	119.05
1	l	722	GLU	C-N-CA	5.65	125.32	119.05
1	v	722	GLU	CA-C-N	5.65	125.32	119.05
1	v	722	GLU	C-N-CA	5.65	125.32	119.05
1	K	722	GLU	CA-C-N	5.64	125.32	119.05
1	K	722	GLU	C-N-CA	5.64	125.32	119.05
1	g	722	GLU	CA-C-N	5.64	125.32	119.05
1	g	722	GLU	C-N-CA	5.64	125.32	119.05
1	x	722	GLU	CA-C-N	5.64	125.32	119.05
1	x	722	GLU	C-N-CA	5.64	125.32	119.05
1	2	722	GLU	CA-C-N	5.64	125.31	119.05
1	2	722	GLU	C-N-CA	5.64	125.31	119.05
1	w	722	GLU	CA-C-N	5.64	125.31	119.05
1	w	722	GLU	C-N-CA	5.64	125.31	119.05
1	E	722	GLU	CA-C-N	5.64	125.31	119.05
1	E	722	GLU	C-N-CA	5.64	125.31	119.05
1	Z	722	GLU	CA-C-N	5.64	125.31	119.05
1	Z	722	GLU	C-N-CA	5.64	125.31	119.05
1	n	722	GLU	CA-C-N	5.64	125.31	119.05
1	n	722	GLU	C-N-CA	5.64	125.31	119.05
1	R	722	GLU	CA-C-N	5.64	125.31	119.05
1	R	722	GLU	C-N-CA	5.64	125.31	119.05
1	H	722	GLU	CA-C-N	5.63	125.30	119.05
1	H	722	GLU	C-N-CA	5.63	125.30	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	722	GLU	CA-C-N	5.63	125.30	119.05
1	P	722	GLU	C-N-CA	5.63	125.30	119.05
1	d	722	GLU	CA-C-N	5.63	125.30	119.05
1	d	722	GLU	C-N-CA	5.63	125.30	119.05
1	y	722	GLU	CA-C-N	5.63	125.30	119.05
1	y	722	GLU	C-N-CA	5.63	125.30	119.05
1	A	722	GLU	CA-C-N	5.62	125.29	119.05
1	A	722	GLU	C-N-CA	5.62	125.29	119.05
1	3	722	GLU	CA-C-N	5.62	125.29	119.05
1	3	722	GLU	C-N-CA	5.62	125.29	119.05
1	h	722	GLU	CA-C-N	5.62	125.29	119.05
1	h	722	GLU	C-N-CA	5.62	125.29	119.05
1	L	722	GLU	CA-C-N	5.62	125.29	119.05
1	L	722	GLU	C-N-CA	5.62	125.29	119.05
1	U	722	GLU	CA-C-N	5.62	125.29	119.05
1	U	722	GLU	C-N-CA	5.62	125.29	119.05
1	m	722	GLU	CA-C-N	5.62	125.29	119.05
1	m	722	GLU	C-N-CA	5.62	125.29	119.05
1	t	722	GLU	CA-C-N	5.62	125.29	119.05
1	t	722	GLU	C-N-CA	5.62	125.29	119.05
1	o	722	GLU	CA-C-N	5.62	125.28	119.05
1	o	722	GLU	C-N-CA	5.62	125.28	119.05
1	p	722	GLU	CA-C-N	5.61	125.28	119.05
1	p	722	GLU	C-N-CA	5.61	125.28	119.05
1	D	722	GLU	CA-C-N	5.61	125.28	119.05
1	D	722	GLU	C-N-CA	5.61	125.28	119.05
1	W	722	GLU	CA-C-N	5.61	125.28	119.05
1	W	722	GLU	C-N-CA	5.61	125.28	119.05
1	e	722	GLU	CA-C-N	5.61	125.28	119.05
1	e	722	GLU	C-N-CA	5.61	125.28	119.05
1	z	722	GLU	CA-C-N	5.61	125.28	119.05
1	z	722	GLU	C-N-CA	5.61	125.28	119.05
1	F	722	GLU	CA-C-N	5.61	125.28	119.05
1	F	722	GLU	C-N-CA	5.61	125.28	119.05
1	N	722	GLU	CA-C-N	5.61	125.28	119.05
1	N	722	GLU	C-N-CA	5.61	125.28	119.05
1	Y	722	GLU	CA-C-N	5.61	125.28	119.05
1	Y	722	GLU	C-N-CA	5.61	125.28	119.05
1	c	722	GLU	CA-C-N	5.61	125.28	119.05
1	c	722	GLU	C-N-CA	5.61	125.28	119.05
1	s	722	GLU	CA-C-N	5.61	125.28	119.05
1	s	722	GLU	C-N-CA	5.61	125.28	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	722	GLU	CA-C-N	5.61	125.28	119.05
1	7	722	GLU	C-N-CA	5.61	125.28	119.05
1	I	722	GLU	CA-C-N	5.60	125.27	119.05
1	I	722	GLU	C-N-CA	5.60	125.27	119.05
1	Q	722	GLU	CA-C-N	5.60	125.27	119.05
1	Q	722	GLU	C-N-CA	5.60	125.27	119.05
1	T	722	GLU	CA-C-N	5.60	125.27	119.05
1	T	722	GLU	C-N-CA	5.60	125.27	119.05
1	r	722	GLU	CA-C-N	5.60	125.27	119.05
1	r	722	GLU	C-N-CA	5.60	125.27	119.05
1	1	722	GLU	CA-C-N	5.59	125.26	119.05
1	1	722	GLU	C-N-CA	5.59	125.26	119.05
1	6	722	GLU	CA-C-N	5.59	125.26	119.05
1	6	722	GLU	C-N-CA	5.59	125.26	119.05
2	Ih	109	ASP	N-CA-C	5.59	118.14	111.71
2	Kh	109	ASP	N-CA-C	5.59	118.14	111.71
2	Qh	109	ASP	N-CA-C	5.59	118.14	111.71
2	Th	109	ASP	N-CA-C	5.59	118.14	111.71
2	oh	109	ASP	N-CA-C	5.59	118.14	111.71
2	rh	109	ASP	N-CA-C	5.59	118.14	111.71
2	xh	109	ASP	N-CA-C	5.59	118.14	111.71
2	Bh	109	ASP	N-CA-C	5.59	118.14	111.71
2	Lh	109	ASP	N-CA-C	5.59	118.14	111.71
2	Rh	109	ASP	N-CA-C	5.59	118.14	111.71
2	Uh	109	ASP	N-CA-C	5.59	118.14	111.71
2	kh	109	ASP	N-CA-C	5.59	118.14	111.71
2	mh	109	ASP	N-CA-C	5.59	118.14	111.71
2	th	109	ASP	N-CA-C	5.59	118.14	111.71
2	uh	109	ASP	N-CA-C	5.59	118.13	111.71
1	f	722	GLU	CA-C-N	5.58	125.25	119.05
1	f	722	GLU	C-N-CA	5.58	125.25	119.05
2	nh	109	ASP	N-CA-C	5.58	118.13	111.71
1	O	722	GLU	CA-C-N	5.58	125.24	119.05
1	O	722	GLU	C-N-CA	5.58	125.24	119.05
1	q	722	GLU	CA-C-N	5.58	125.24	119.05
1	q	722	GLU	C-N-CA	5.58	125.24	119.05
1	8	722	GLU	CA-C-N	5.58	125.24	119.05
1	8	722	GLU	C-N-CA	5.58	125.24	119.05
2	Jh	109	ASP	N-CA-C	5.57	118.12	111.71
2	Sh	109	ASP	N-CA-C	5.57	118.12	111.71
2	lh	109	ASP	N-CA-C	5.57	118.12	111.71
2	vh	109	ASP	N-CA-C	5.57	118.12	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Ch	109	ASP	N-CA-C	5.57	118.11	111.71
2	ah	109	ASP	N-CA-C	5.57	118.11	111.71
2	dh	109	ASP	N-CA-C	5.57	118.11	111.71
2	Fh	109	ASP	N-CA-C	5.56	118.11	111.71
2	2h	109	ASP	N-CA-C	5.56	118.11	111.71
2	5h	109	ASP	N-CA-C	5.56	118.11	111.71
2	6h	109	ASP	N-CA-C	5.56	118.11	111.71
2	Ah	109	ASP	N-CA-C	5.56	118.11	111.71
1	o	336	LEU	N-CA-C	5.55	117.41	111.36
2	jh	109	ASP	N-CA-C	5.55	118.10	111.71
2	Dh	109	ASP	N-CA-C	5.55	118.09	111.71
2	Wh	109	ASP	N-CA-C	5.55	118.09	111.71
2	1h	109	ASP	N-CA-C	5.55	118.09	111.71
2	4h	109	ASP	N-CA-C	5.55	118.09	111.71
2	eh	109	ASP	N-CA-C	5.55	118.09	111.71
2	hh	109	ASP	N-CA-C	5.55	118.09	111.71
2	ph	109	ASP	N-CA-C	5.55	118.09	111.71
2	sh	109	ASP	N-CA-C	5.55	118.09	111.71
2	wh	109	ASP	N-CA-C	5.55	118.09	111.71
2	Vh	109	ASP	N-CA-C	5.55	118.09	111.71
2	gh	109	ASP	N-CA-C	5.55	118.09	111.71
2	Zh	109	ASP	N-CA-C	5.55	118.09	111.71
1	F	336	LEU	N-CA-C	5.54	117.40	111.36
2	Hh	109	ASP	N-CA-C	5.54	118.08	111.71
2	Ph	109	ASP	N-CA-C	5.54	118.08	111.71
2	yh	109	ASP	N-CA-C	5.54	118.08	111.71
1	E	336	LEU	N-CA-C	5.54	117.40	111.36
1	n	336	LEU	N-CA-C	5.54	117.40	111.36
1	q	336	LEU	N-CA-C	5.54	117.40	111.36
2	Eh	109	ASP	N-CA-C	5.54	118.08	111.71
2	Gh	109	ASP	N-CA-C	5.54	118.08	111.71
2	Mh	109	ASP	N-CA-C	5.54	118.08	111.71
2	Xh	109	ASP	N-CA-C	5.54	118.08	111.71
2	bh	109	ASP	N-CA-C	5.54	118.08	111.71
2	ih	109	ASP	N-CA-C	5.54	118.08	111.71
2	qh	109	ASP	N-CA-C	5.54	118.08	111.71
1	G	336	LEU	N-CA-C	5.54	117.40	111.36
1	f	336	LEU	N-CA-C	5.54	117.40	111.36
1	3	336	LEU	N-CA-C	5.54	117.39	111.36
1	w	336	LEU	N-CA-C	5.54	117.39	111.36
1	I	336	LEU	N-CA-C	5.53	117.39	111.36
1	Q	336	LEU	N-CA-C	5.53	117.39	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	336	LEU	N-CA-C	5.53	117.39	111.36
2	Oh	109	ASP	N-CA-C	5.53	118.07	111.71
2	8h	109	ASP	N-CA-C	5.53	118.07	111.71
2	Nh	109	ASP	N-CA-C	5.53	118.07	111.71
2	Yh	109	ASP	N-CA-C	5.53	118.07	111.71
2	ch	109	ASP	N-CA-C	5.53	118.07	111.71
2	zh	109	ASP	N-CA-C	5.53	118.07	111.71
2	7h	109	ASP	N-CA-C	5.53	118.07	111.71
1	H	336	LEU	N-CA-C	5.53	117.38	111.36
1	P	336	LEU	N-CA-C	5.53	117.38	111.36
1	d	336	LEU	N-CA-C	5.53	117.38	111.36
1	p	336	LEU	N-CA-C	5.53	117.39	111.36
1	s	336	LEU	N-CA-C	5.53	117.39	111.36
1	y	336	LEU	N-CA-C	5.53	117.38	111.36
1	1	336	LEU	N-CA-C	5.52	117.38	111.36
2	3h	109	ASP	N-CA-C	5.52	118.06	111.71
1	R	336	LEU	N-CA-C	5.52	117.38	111.36
1	k	336	LEU	N-CA-C	5.52	117.38	111.36
2	fh	109	ASP	N-CA-C	5.52	118.06	111.71
1	6	336	LEU	N-CA-C	5.52	117.38	111.36
1	A	336	LEU	N-CA-C	5.51	117.37	111.36
1	J	336	LEU	N-CA-C	5.51	117.36	111.36
1	L	336	LEU	N-CA-C	5.51	117.36	111.36
1	S	336	LEU	N-CA-C	5.51	117.36	111.36
1	U	336	LEU	N-CA-C	5.51	117.36	111.36
1	l	336	LEU	N-CA-C	5.51	117.36	111.36
1	m	336	LEU	N-CA-C	5.51	117.36	111.36
1	t	336	LEU	N-CA-C	5.51	117.36	111.36
1	v	336	LEU	N-CA-C	5.51	117.36	111.36
1	B	336	LEU	N-CA-C	5.51	117.36	111.36
1	Z	336	LEU	N-CA-C	5.51	117.36	111.36
1	u	336	LEU	N-CA-C	5.51	117.36	111.36
1	4	336	LEU	N-CA-C	5.50	117.36	111.36
1	h	336	LEU	N-CA-C	5.50	117.36	111.36
1	D	336	LEU	N-CA-C	5.50	117.36	111.36
1	W	336	LEU	N-CA-C	5.50	117.36	111.36
1	e	336	LEU	N-CA-C	5.50	117.36	111.36
1	z	336	LEU	N-CA-C	5.50	117.36	111.36
1	5	336	LEU	N-CA-C	5.50	117.36	111.36
1	M	336	LEU	N-CA-C	5.50	117.35	111.36
1	X	336	LEU	N-CA-C	5.50	117.35	111.36
1	b	336	LEU	N-CA-C	5.50	117.35	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	336	LEU	N-CA-C	5.50	117.35	111.36
1	8	336	LEU	N-CA-C	5.50	117.35	111.36
1	N	336	LEU	N-CA-C	5.49	117.34	111.36
1	Y	336	LEU	N-CA-C	5.49	117.34	111.36
1	c	336	LEU	N-CA-C	5.49	117.34	111.36
1	7	336	LEU	N-CA-C	5.49	117.34	111.36
1	O	336	LEU	N-CA-C	5.48	117.33	111.36
1	2	336	LEU	N-CA-C	5.48	117.33	111.36
1	T	336	LEU	N-CA-C	5.47	117.33	111.36
1	6	729	ARG	N-CA-C	5.47	117.92	107.75
1	H	729	ARG	N-CA-C	5.46	117.90	107.75
1	K	336	LEU	N-CA-C	5.46	117.31	111.36
1	P	729	ARG	N-CA-C	5.46	117.90	107.75
1	4	729	ARG	N-CA-C	5.46	117.90	107.75
1	d	729	ARG	N-CA-C	5.46	117.90	107.75
1	g	336	LEU	N-CA-C	5.46	117.31	111.36
1	h	729	ARG	N-CA-C	5.46	117.90	107.75
1	x	336	LEU	N-CA-C	5.46	117.31	111.36
1	y	729	ARG	N-CA-C	5.46	117.90	107.75
1	L	729	ARG	N-CA-C	5.46	117.90	107.75
1	U	729	ARG	N-CA-C	5.46	117.90	107.75
1	m	729	ARG	N-CA-C	5.46	117.90	107.75
1	t	729	ARG	N-CA-C	5.46	117.90	107.75
1	C	336	LEU	N-CA-C	5.45	117.30	111.36
1	V	336	LEU	N-CA-C	5.45	117.30	111.36
1	a	336	LEU	N-CA-C	5.45	117.30	111.36
1	j	336	LEU	N-CA-C	5.45	117.30	111.36
1	w	729	ARG	N-CA-C	5.44	117.87	107.75
1	B	729	ARG	N-CA-C	5.44	117.86	107.75
1	G	729	ARG	N-CA-C	5.44	117.86	107.75
1	I	729	ARG	N-CA-C	5.44	117.86	107.75
1	M	729	ARG	N-CA-C	5.44	117.86	107.75
1	O	729	ARG	N-CA-C	5.44	117.86	107.75
1	Q	729	ARG	N-CA-C	5.44	117.86	107.75
1	R	729	ARG	N-CA-C	5.44	117.86	107.75
1	T	729	ARG	N-CA-C	5.44	117.86	107.75
1	X	729	ARG	N-CA-C	5.44	117.86	107.75
1	b	729	ARG	N-CA-C	5.44	117.86	107.75
1	f	729	ARG	N-CA-C	5.44	117.86	107.75
1	i	729	ARG	N-CA-C	5.44	117.86	107.75
1	k	729	ARG	N-CA-C	5.44	117.86	107.75
1	o	729	ARG	N-CA-C	5.44	117.86	107.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	729	ARG	N-CA-C	5.44	117.86	107.75
1	u	729	ARG	N-CA-C	5.44	117.86	107.75
1	8	729	ARG	N-CA-C	5.44	117.86	107.75
1	K	729	ARG	N-CA-C	5.43	117.86	107.75
1	x	729	ARG	N-CA-C	5.43	117.86	107.75
1	A	729	ARG	N-CA-C	5.43	117.86	107.75
1	N	729	ARG	N-CA-C	5.43	117.86	107.75
1	Y	729	ARG	N-CA-C	5.43	117.86	107.75
1	c	729	ARG	N-CA-C	5.43	117.86	107.75
1	7	729	ARG	N-CA-C	5.43	117.86	107.75
1	C	729	ARG	N-CA-C	5.43	117.85	107.75
1	V	729	ARG	N-CA-C	5.43	117.85	107.75
1	a	729	ARG	N-CA-C	5.43	117.85	107.75
1	E	729	ARG	N-CA-C	5.43	117.85	107.75
1	1	729	ARG	N-CA-C	5.43	117.85	107.75
1	n	729	ARG	N-CA-C	5.43	117.85	107.75
1	q	729	ARG	N-CA-C	5.43	117.85	107.75
1	F	729	ARG	N-CA-C	5.43	117.85	107.75
1	j	729	ARG	N-CA-C	5.43	117.84	107.75
1	5	729	ARG	N-CA-C	5.42	117.84	107.75
1	D	729	ARG	N-CA-C	5.42	117.84	107.75
1	W	729	ARG	N-CA-C	5.42	117.84	107.75
1	e	729	ARG	N-CA-C	5.42	117.84	107.75
1	z	729	ARG	N-CA-C	5.42	117.84	107.75
1	J	729	ARG	N-CA-C	5.42	117.83	107.75
1	S	729	ARG	N-CA-C	5.42	117.83	107.75
1	Z	729	ARG	N-CA-C	5.42	117.83	107.75
1	l	729	ARG	N-CA-C	5.42	117.83	107.75
1	v	729	ARG	N-CA-C	5.42	117.83	107.75
1	3	729	ARG	N-CA-C	5.42	117.83	107.75
1	p	729	ARG	N-CA-C	5.42	117.83	107.75
1	s	729	ARG	N-CA-C	5.42	117.83	107.75
1	g	729	ARG	N-CA-C	5.42	117.83	107.75
1	2	729	ARG	N-CA-C	5.41	117.81	107.75
3	Gl	50	GLY	N-CA-C	-5.30	108.39	114.69
3	Ml	50	GLY	N-CA-C	-5.30	108.39	114.69
3	ql	50	GLY	N-CA-C	-5.30	108.39	114.69
3	jl	50	GLY	N-CA-C	-5.29	108.39	114.69
3	El	50	GLY	N-CA-C	-5.29	108.40	114.69
3	Ol	50	GLY	N-CA-C	-5.29	108.40	114.69
3	Xl	50	GLY	N-CA-C	-5.29	108.40	114.69
3	bl	50	GLY	N-CA-C	-5.29	108.40	114.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Yl	50	GLY	N-CA-C	-5.28	108.41	114.69
3	cl	50	GLY	N-CA-C	-5.28	108.41	114.69
3	7l	50	GLY	N-CA-C	-5.28	108.41	114.69
3	ul	50	GLY	N-CA-C	-5.27	108.41	114.69
3	Rl	50	GLY	N-CA-C	-5.27	108.42	114.69
3	ml	50	GLY	N-CA-C	-5.27	108.42	114.69
3	Nl	50	GLY	N-CA-C	-5.27	108.42	114.69
3	pl	50	GLY	N-CA-C	-5.27	108.42	114.69
3	il	50	GLY	N-CA-C	-5.27	108.42	114.69
3	Kl	50	GLY	N-CA-C	-5.26	108.42	114.69
3	ol	50	GLY	N-CA-C	-5.26	108.42	114.69
3	rl	50	GLY	N-CA-C	-5.26	108.42	114.69
3	Ql	50	GLY	N-CA-C	-5.26	108.43	114.69
3	Tl	50	GLY	N-CA-C	-5.26	108.43	114.69
3	gl	50	GLY	N-CA-C	-5.26	108.43	114.69
3	xl	50	GLY	N-CA-C	-5.26	108.43	114.69
3	Zl	50	GLY	N-CA-C	-5.26	108.43	114.69
3	8l	50	GLY	N-CA-C	-5.26	108.43	114.69
3	Cl	50	GLY	N-CA-C	-5.26	108.43	114.69
3	Il	50	GLY	N-CA-C	-5.26	108.43	114.69
3	Vl	50	GLY	N-CA-C	-5.26	108.43	114.69
3	al	50	GLY	N-CA-C	-5.26	108.43	114.69
3	Al	50	GLY	N-CA-C	-5.25	108.44	114.69
3	Hl	50	GLY	N-CA-C	-5.25	108.44	114.69
3	Pl	50	GLY	N-CA-C	-5.25	108.44	114.69
3	dl	50	GLY	N-CA-C	-5.25	108.44	114.69
3	yl	50	GLY	N-CA-C	-5.25	108.44	114.69
3	Dl	50	GLY	N-CA-C	-5.25	108.45	114.69
3	Wl	50	GLY	N-CA-C	-5.25	108.45	114.69
3	el	50	GLY	N-CA-C	-5.25	108.45	114.69
3	Ll	50	GLY	N-CA-C	-5.25	108.45	114.69
3	Bl	50	GLY	N-CA-C	-5.24	108.45	114.69
3	Jl	50	GLY	N-CA-C	-5.24	108.45	114.69
3	Sl	50	GLY	N-CA-C	-5.24	108.45	114.69
3	Ul	50	GLY	N-CA-C	-5.24	108.45	114.69
3	fl	50	GLY	N-CA-C	-5.24	108.45	114.69
3	kl	50	GLY	N-CA-C	-5.24	108.45	114.69
3	ll	50	GLY	N-CA-C	-5.24	108.45	114.69
3	tl	50	GLY	N-CA-C	-5.24	108.45	114.69
3	vl	50	GLY	N-CA-C	-5.24	108.45	114.69
3	sl	50	GLY	N-CA-C	-5.24	108.45	114.69
3	3l	50	GLY	N-CA-C	-5.24	108.46	114.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	5l	50	GLY	N-CA-C	-5.24	108.46	114.69
1	g	494	ASP	N-CA-C	5.23	116.98	111.28
1	x	494	ASP	N-CA-C	5.23	116.98	111.28
3	zl	50	GLY	N-CA-C	-5.23	108.47	114.69
1	M	494	ASP	N-CA-C	5.22	116.97	111.28
1	X	494	ASP	N-CA-C	5.22	116.97	111.28
1	1	494	ASP	N-CA-C	5.22	116.97	111.28
1	i	494	ASP	N-CA-C	5.22	116.97	111.28
3	Fl	50	GLY	N-CA-C	-5.22	108.48	114.69
3	1l	50	GLY	N-CA-C	-5.22	108.48	114.69
3	2l	50	GLY	N-CA-C	-5.22	108.48	114.69
3	4l	50	GLY	N-CA-C	-5.22	108.48	114.69
3	6l	50	GLY	N-CA-C	-5.22	108.48	114.69
3	hl	50	GLY	N-CA-C	-5.22	108.48	114.69
3	nl	50	GLY	N-CA-C	-5.22	108.48	114.69
3	wl	50	GLY	N-CA-C	-5.22	108.48	114.69
1	K	494	ASP	N-CA-C	5.22	116.97	111.28
1	f	494	ASP	N-CA-C	5.21	116.96	111.28
1	H	494	ASP	N-CA-C	5.21	116.96	111.28
1	I	494	ASP	N-CA-C	5.21	116.96	111.28
1	P	494	ASP	N-CA-C	5.21	116.96	111.28
1	Q	494	ASP	N-CA-C	5.21	116.96	111.28
1	d	494	ASP	N-CA-C	5.21	116.96	111.28
1	o	494	ASP	N-CA-C	5.21	116.96	111.28
1	r	494	ASP	N-CA-C	5.21	116.96	111.28
1	y	494	ASP	N-CA-C	5.21	116.96	111.28
1	6	494	ASP	N-CA-C	5.20	116.95	111.28
1	b	494	ASP	N-CA-C	5.19	116.94	111.28
1	T	494	ASP	N-CA-C	5.19	116.94	111.28
1	w	494	ASP	N-CA-C	5.19	116.94	111.28
1	A	494	ASP	N-CA-C	5.18	116.93	111.28
1	E	494	ASP	N-CA-C	5.18	116.93	111.28
1	G	494	ASP	N-CA-C	5.18	116.93	111.28
1	Q	403	LEU	N-CA-C	5.18	117.35	108.90
1	n	494	ASP	N-CA-C	5.18	116.93	111.28
1	o	403	LEU	N-CA-C	5.18	117.35	108.90
1	q	494	ASP	N-CA-C	5.18	116.93	111.28
1	N	494	ASP	N-CA-C	5.18	116.93	111.28
1	Y	494	ASP	N-CA-C	5.18	116.93	111.28
1	c	494	ASP	N-CA-C	5.18	116.93	111.28
1	7	494	ASP	N-CA-C	5.18	116.93	111.28
1	M	403	LEU	N-CA-C	5.18	117.34	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	403	LEU	N-CA-C	5.18	117.34	108.90
1	X	403	LEU	N-CA-C	5.18	117.34	108.90
1	b	403	LEU	N-CA-C	5.18	117.34	108.90
1	i	403	LEU	N-CA-C	5.18	117.34	108.90
1	w	403	LEU	N-CA-C	5.18	117.34	108.90
1	8	403	LEU	N-CA-C	5.18	117.34	108.90
1	3	403	LEU	N-CA-C	5.18	117.34	108.90
1	C	494	ASP	N-CA-C	5.17	116.92	111.28
1	J	494	ASP	N-CA-C	5.17	116.92	111.28
1	S	494	ASP	N-CA-C	5.17	116.92	111.28
1	V	494	ASP	N-CA-C	5.17	116.92	111.28
1	2	403	LEU	N-CA-C	5.17	117.34	108.90
1	5	403	LEU	N-CA-C	5.17	117.34	108.90
1	a	494	ASP	N-CA-C	5.17	116.92	111.28
1	j	494	ASP	N-CA-C	5.17	116.92	111.28
1	l	494	ASP	N-CA-C	5.17	116.92	111.28
1	v	494	ASP	N-CA-C	5.17	116.92	111.28
1	D	403	LEU	N-CA-C	5.17	117.33	108.90
1	e	403	LEU	N-CA-C	5.17	117.33	108.90
1	z	403	LEU	N-CA-C	5.17	117.33	108.90
1	2	494	ASP	N-CA-C	5.17	116.91	111.28
1	B	494	ASP	N-CA-C	5.17	116.91	111.28
1	F	494	ASP	N-CA-C	5.17	116.91	111.28
1	L	494	ASP	N-CA-C	5.17	116.91	111.28
1	R	494	ASP	N-CA-C	5.17	116.91	111.28
1	U	494	ASP	N-CA-C	5.17	116.91	111.28
1	4	494	ASP	N-CA-C	5.17	116.91	111.28
1	6	403	LEU	N-CA-C	5.17	117.32	108.90
1	k	494	ASP	N-CA-C	5.17	116.91	111.28
1	t	494	ASP	N-CA-C	5.17	116.91	111.28
1	u	494	ASP	N-CA-C	5.17	116.91	111.28
1	O	494	ASP	N-CA-C	5.17	116.91	111.28
1	Z	494	ASP	N-CA-C	5.17	116.91	111.28
1	8	494	ASP	N-CA-C	5.17	116.91	111.28
1	3	494	ASP	N-CA-C	5.16	116.91	111.28
1	p	494	ASP	N-CA-C	5.16	116.91	111.28
1	r	403	LEU	N-CA-C	5.16	117.31	108.90
1	s	494	ASP	N-CA-C	5.16	116.91	111.28
1	L	403	LEU	N-CA-C	5.16	117.31	108.90
1	U	403	LEU	N-CA-C	5.16	117.31	108.90
1	m	403	LEU	N-CA-C	5.16	117.31	108.90
1	t	403	LEU	N-CA-C	5.16	117.31	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	403	LEU	N-CA-C	5.16	117.31	108.90
1	S	403	LEU	N-CA-C	5.16	117.31	108.90
1	l	403	LEU	N-CA-C	5.16	117.31	108.90
1	p	403	LEU	N-CA-C	5.16	117.31	108.90
1	v	403	LEU	N-CA-C	5.16	117.31	108.90
1	W	403	LEU	N-CA-C	5.16	117.30	108.90
1	A	403	LEU	N-CA-C	5.15	117.30	108.90
1	I	403	LEU	N-CA-C	5.15	117.30	108.90
1	m	494	ASP	N-CA-C	5.15	116.90	111.28
1	T	403	LEU	N-CA-C	5.15	117.30	108.90
1	5	494	ASP	N-CA-C	5.15	116.89	111.28
1	h	494	ASP	N-CA-C	5.15	116.89	111.28
1	D	494	ASP	N-CA-C	5.15	116.89	111.28
1	E	403	LEU	N-CA-C	5.15	117.29	108.90
1	G	403	LEU	N-CA-C	5.15	117.29	108.90
1	W	494	ASP	N-CA-C	5.15	116.89	111.28
1	e	494	ASP	N-CA-C	5.15	116.89	111.28
1	n	403	LEU	N-CA-C	5.15	117.29	108.90
1	q	403	LEU	N-CA-C	5.15	117.29	108.90
1	z	494	ASP	N-CA-C	5.15	116.89	111.28
1	B	403	LEU	N-CA-C	5.14	117.29	108.90
1	R	403	LEU	N-CA-C	5.14	117.29	108.90
1	Z	403	LEU	N-CA-C	5.14	117.28	108.90
1	f	403	LEU	N-CA-C	5.14	117.28	108.90
1	u	403	LEU	N-CA-C	5.14	117.29	108.90
1	k	403	LEU	N-CA-C	5.14	117.28	108.90
1	C	403	LEU	N-CA-C	5.14	117.28	108.90
1	V	403	LEU	N-CA-C	5.14	117.28	108.90
1	a	403	LEU	N-CA-C	5.14	117.28	108.90
1	j	403	LEU	N-CA-C	5.14	117.28	108.90
1	F	403	LEU	N-CA-C	5.13	117.27	108.90
1	K	403	LEU	N-CA-C	5.13	117.27	108.90
1	g	403	LEU	N-CA-C	5.13	117.27	108.90
1	s	403	LEU	N-CA-C	5.13	117.27	108.90
1	x	403	LEU	N-CA-C	5.13	117.27	108.90
1	4	403	LEU	N-CA-C	5.13	117.27	108.90
1	h	403	LEU	N-CA-C	5.13	117.27	108.90
1	1	403	LEU	N-CA-C	5.13	117.26	108.90
1	H	403	LEU	N-CA-C	5.13	117.26	108.90
1	N	403	LEU	N-CA-C	5.13	117.26	108.90
1	P	403	LEU	N-CA-C	5.13	117.26	108.90
1	Y	403	LEU	N-CA-C	5.13	117.26	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	403	LEU	N-CA-C	5.13	117.26	108.90
1	d	403	LEU	N-CA-C	5.13	117.26	108.90
1	y	403	LEU	N-CA-C	5.13	117.26	108.90
1	7	403	LEU	N-CA-C	5.13	117.26	108.90
1	G	270	ASN	N-CA-C	5.11	119.50	113.16
1	B	270	ASN	N-CA-C	5.11	119.50	113.16
1	R	270	ASN	N-CA-C	5.11	119.50	113.16
1	k	270	ASN	N-CA-C	5.11	119.50	113.16
1	u	270	ASN	N-CA-C	5.11	119.50	113.16
1	M	270	ASN	N-CA-C	5.10	119.48	113.16
1	X	270	ASN	N-CA-C	5.10	119.48	113.16
1	b	270	ASN	N-CA-C	5.10	119.48	113.16
1	i	270	ASN	N-CA-C	5.10	119.48	113.16
1	m	270	ASN	N-CA-C	5.09	119.47	113.16
1	E	270	ASN	N-CA-C	5.08	119.47	113.16
1	L	270	ASN	N-CA-C	5.08	119.47	113.16
1	U	270	ASN	N-CA-C	5.08	119.47	113.16
1	5	270	ASN	N-CA-C	5.08	119.47	113.16
1	n	270	ASN	N-CA-C	5.08	119.47	113.16
1	p	270	ASN	N-CA-C	5.08	119.47	113.16
1	q	270	ASN	N-CA-C	5.08	119.47	113.16
1	t	270	ASN	N-CA-C	5.08	119.47	113.16
1	I	270	ASN	N-CA-C	5.08	119.46	113.16
1	O	270	ASN	N-CA-C	5.08	119.46	113.16
1	Q	270	ASN	N-CA-C	5.08	119.46	113.16
1	r	270	ASN	N-CA-C	5.08	119.46	113.16
1	T	270	ASN	N-CA-C	5.08	119.46	113.16
1	N	270	ASN	N-CA-C	5.08	119.46	113.16
1	Y	270	ASN	N-CA-C	5.08	119.46	113.16
1	c	270	ASN	N-CA-C	5.08	119.46	113.16
1	7	270	ASN	N-CA-C	5.08	119.46	113.16
1	Z	270	ASN	N-CA-C	5.07	119.44	113.16
1	3	270	ASN	N-CA-C	5.07	119.44	113.16
1	o	270	ASN	N-CA-C	5.07	119.44	113.16
1	8	270	ASN	N-CA-C	5.07	119.44	113.16
1	A	270	ASN	N-CA-C	5.07	119.44	113.16
1	J	270	ASN	N-CA-C	5.07	119.44	113.16
1	O	477	TRP	N-CA-C	5.07	117.85	109.85
1	S	270	ASN	N-CA-C	5.07	119.44	113.16
1	l	270	ASN	N-CA-C	5.07	119.44	113.16
1	D	270	ASN	N-CA-C	5.06	119.44	113.16
1	H	270	ASN	N-CA-C	5.06	119.44	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	270	ASN	N-CA-C	5.06	119.44	113.16
1	L	477	TRP	N-CA-C	5.06	117.85	109.85
1	P	270	ASN	N-CA-C	5.06	119.44	113.16
1	U	477	TRP	N-CA-C	5.06	117.85	109.85
1	W	270	ASN	N-CA-C	5.06	119.44	113.16
1	d	270	ASN	N-CA-C	5.06	119.44	113.16
1	e	270	ASN	N-CA-C	5.06	119.44	113.16
1	g	270	ASN	N-CA-C	5.06	119.44	113.16
1	m	477	TRP	N-CA-C	5.06	117.85	109.85
1	t	477	TRP	N-CA-C	5.06	117.85	109.85
1	x	270	ASN	N-CA-C	5.06	119.44	113.16
1	y	270	ASN	N-CA-C	5.06	119.44	113.16
1	z	270	ASN	N-CA-C	5.06	119.44	113.16
1	F	270	ASN	N-CA-C	5.06	119.43	113.16
1	1	270	ASN	N-CA-C	5.06	119.43	113.16
1	s	270	ASN	N-CA-C	5.06	119.43	113.16
1	w	477	TRP	N-CA-C	5.06	117.84	109.85
1	C	270	ASN	N-CA-C	5.06	119.43	113.16
1	V	270	ASN	N-CA-C	5.06	119.43	113.16
1	a	270	ASN	N-CA-C	5.06	119.43	113.16
1	j	270	ASN	N-CA-C	5.06	119.43	113.16
1	I	477	TRP	N-CA-C	5.05	117.83	109.85
1	K	477	TRP	N-CA-C	5.05	117.83	109.85
1	Q	477	TRP	N-CA-C	5.05	117.83	109.85
1	g	477	TRP	N-CA-C	5.05	117.83	109.85
1	o	477	TRP	N-CA-C	5.05	117.83	109.85
1	r	477	TRP	N-CA-C	5.05	117.83	109.85
1	x	477	TRP	N-CA-C	5.05	117.83	109.85
1	h	477	TRP	N-CA-C	5.05	117.82	109.85
1	2	270	ASN	N-CA-C	5.04	119.42	113.16
1	4	270	ASN	N-CA-C	5.04	119.42	113.16
1	6	270	ASN	N-CA-C	5.04	119.41	113.16
1	f	477	TRP	N-CA-C	5.04	117.82	109.85
1	v	270	ASN	N-CA-C	5.04	119.41	113.16
1	8	477	TRP	N-CA-C	5.04	117.82	109.85
3	El	127	THR	CB-CA-C	-5.04	110.78	116.63
3	Gl	127	THR	CB-CA-C	-5.04	110.78	116.63
3	Xl	127	THR	CB-CA-C	-5.04	110.78	116.63
3	bl	127	THR	CB-CA-C	-5.04	110.78	116.63
3	il	127	THR	CB-CA-C	-5.04	110.78	116.63
3	ql	127	THR	CB-CA-C	-5.04	110.78	116.63
1	H	477	TRP	N-CA-C	5.04	117.82	109.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	477	TRP	N-CA-C	5.04	117.82	109.85
1	d	477	TRP	N-CA-C	5.04	117.82	109.85
1	y	477	TRP	N-CA-C	5.04	117.82	109.85
1	B	477	TRP	N-CA-C	5.04	117.81	109.85
1	E	477	TRP	N-CA-C	5.04	117.81	109.85
1	R	477	TRP	N-CA-C	5.04	117.81	109.85
1	k	477	TRP	N-CA-C	5.04	117.81	109.85
1	n	477	TRP	N-CA-C	5.04	117.81	109.85
1	q	477	TRP	N-CA-C	5.04	117.81	109.85
1	u	477	TRP	N-CA-C	5.04	117.81	109.85
1	N	477	TRP	N-CA-C	5.03	117.80	109.85
1	Y	477	TRP	N-CA-C	5.03	117.80	109.85
1	c	477	TRP	N-CA-C	5.03	117.80	109.85
1	7	477	TRP	N-CA-C	5.03	117.80	109.85
1	f	270	ASN	N-CA-C	5.03	119.40	113.16
1	s	477	TRP	N-CA-C	5.03	117.80	109.85
1	3	477	TRP	N-CA-C	5.03	117.80	109.85
1	A	477	TRP	N-CA-C	5.03	117.79	109.85
3	Kl	127	THR	CB-CA-C	-5.03	110.80	116.63
3	Ml	127	THR	CB-CA-C	-5.03	110.80	116.63
1	G	477	TRP	N-CA-C	5.02	117.79	109.85
1	X	477	TRP	N-CA-C	5.02	117.79	109.85
1	b	477	TRP	N-CA-C	5.02	117.79	109.85
1	D	477	TRP	N-CA-C	5.02	117.78	109.85
1	Z	477	TRP	N-CA-C	5.02	117.78	109.85
1	e	477	TRP	N-CA-C	5.02	117.78	109.85
3	Hl	127	THR	CB-CA-C	-5.02	110.81	116.63
3	Ol	127	THR	CB-CA-C	-5.02	110.81	116.63
3	Pl	127	THR	CB-CA-C	-5.02	110.81	116.63
3	dl	127	THR	CB-CA-C	-5.02	110.81	116.63
3	yl	127	THR	CB-CA-C	-5.02	110.81	116.63
3	8l	127	THR	CB-CA-C	-5.02	110.81	116.63
1	I	495	ASN	N-CA-C	5.02	117.57	110.50
1	Q	495	ASN	N-CA-C	5.02	117.57	110.50
1	W	477	TRP	N-CA-C	5.02	117.78	109.85
1	6	477	TRP	N-CA-C	5.02	117.78	109.85
1	o	495	ASN	N-CA-C	5.02	117.57	110.50
1	r	495	ASN	N-CA-C	5.02	117.57	110.50
1	z	477	TRP	N-CA-C	5.02	117.78	109.85
1	T	477	TRP	N-CA-C	5.01	117.77	109.85
1	w	270	ASN	N-CA-C	5.01	119.38	113.16
3	Cl	127	THR	CB-CA-C	-5.01	110.81	116.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Il	127	THR	CB-CA-C	-5.01	110.81	116.63
3	Ql	127	THR	CB-CA-C	-5.01	110.81	116.63
3	Tl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	Vl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	al	127	THR	CB-CA-C	-5.01	110.81	116.63
3	gl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	jl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	ol	127	THR	CB-CA-C	-5.01	110.81	116.63
3	rl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	xl	127	THR	CB-CA-C	-5.01	110.81	116.63
1	1	477	TRP	N-CA-C	5.01	117.77	109.85
1	2	477	TRP	N-CA-C	5.01	117.77	109.85
1	4	477	TRP	N-CA-C	5.01	117.77	109.85
1	5	477	TRP	N-CA-C	5.01	117.77	109.85
1	p	477	TRP	N-CA-C	5.01	117.77	109.85
1	w	495	ASN	N-CA-C	5.01	117.57	110.50
3	Bl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	Jl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	Rl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	Sl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	Ul	127	THR	CB-CA-C	-5.01	110.81	116.63
3	kl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	ll	127	THR	CB-CA-C	-5.01	110.81	116.63
3	ml	127	THR	CB-CA-C	-5.01	110.81	116.63
3	tl	127	THR	CB-CA-C	-5.01	110.81	116.63
3	vl	127	THR	CB-CA-C	-5.01	110.81	116.63
1	F	477	TRP	N-CA-C	5.01	117.77	109.85
1	h	270	ASN	N-CA-C	5.01	119.38	113.16
3	Al	127	THR	CB-CA-C	-5.01	110.82	116.63
1	L	495	ASN	N-CA-C	5.01	117.56	110.50
1	M	477	TRP	N-CA-C	5.01	117.77	109.85
1	U	495	ASN	N-CA-C	5.01	117.56	110.50
1	i	477	TRP	N-CA-C	5.01	117.77	109.85
1	m	495	ASN	N-CA-C	5.01	117.56	110.50
1	t	495	ASN	N-CA-C	5.01	117.56	110.50
3	4l	127	THR	CB-CA-C	-5.01	110.82	116.63
3	6l	127	THR	CB-CA-C	-5.01	110.82	116.63
3	pl	127	THR	CB-CA-C	-5.01	110.82	116.63
3	wl	127	THR	CB-CA-C	-5.01	110.82	116.63
1	l	477	TRP	N-CA-C	5.01	117.76	109.85
1	p	495	ASN	N-CA-C	5.01	117.56	110.50
1	K	495	ASN	N-CA-C	5.01	117.56	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	495	ASN	N-CA-C	5.01	117.56	110.50
1	x	495	ASN	N-CA-C	5.01	117.56	110.50
3	Fl	127	THR	CB-CA-C	-5.01	110.82	116.63
3	Nl	127	THR	CB-CA-C	-5.01	110.82	116.63
3	1l	127	THR	CB-CA-C	-5.01	110.82	116.63
3	2l	127	THR	CB-CA-C	-5.01	110.82	116.63
3	3l	127	THR	CB-CA-C	-5.01	110.82	116.63
3	5l	127	THR	CB-CA-C	-5.01	110.82	116.63
3	cl	127	THR	CB-CA-C	-5.01	110.82	116.63
3	fl	127	THR	CB-CA-C	-5.01	110.82	116.63
3	hl	127	THR	CB-CA-C	-5.01	110.82	116.63
3	sl	127	THR	CB-CA-C	-5.01	110.82	116.63
3	zl	127	THR	CB-CA-C	-5.01	110.82	116.63
3	7l	127	THR	CB-CA-C	-5.01	110.82	116.63
1	J	477	TRP	N-CA-C	5.00	117.76	109.85
1	S	477	TRP	N-CA-C	5.00	117.76	109.85
1	v	477	TRP	N-CA-C	5.00	117.76	109.85
3	Dl	127	THR	CB-CA-C	-5.00	110.83	116.63
3	Wl	127	THR	CB-CA-C	-5.00	110.83	116.63
3	Yl	127	THR	CB-CA-C	-5.00	110.83	116.63
3	el	127	THR	CB-CA-C	-5.00	110.83	116.63
1	C	477	TRP	N-CA-C	5.00	117.75	109.85
1	V	477	TRP	N-CA-C	5.00	117.75	109.85
1	a	477	TRP	N-CA-C	5.00	117.75	109.85
1	j	477	TRP	N-CA-C	5.00	117.75	109.85

There are no chirality outliers.

All (60) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	518	ASN	Peptide
1	2	518	ASN	Peptide
1	3	518	ASN	Peptide
1	4	518	ASN	Peptide
1	5	518	ASN	Peptide
1	6	518	ASN	Peptide
1	7	518	ASN	Peptide
1	8	518	ASN	Peptide
1	A	518	ASN	Peptide
1	B	518	ASN	Peptide
1	C	518	ASN	Peptide
1	D	518	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	E	518	ASN	Peptide
1	F	518	ASN	Peptide
1	G	518	ASN	Peptide
1	H	518	ASN	Peptide
1	I	518	ASN	Peptide
1	J	518	ASN	Peptide
1	K	518	ASN	Peptide
1	L	518	ASN	Peptide
1	M	518	ASN	Peptide
1	N	518	ASN	Peptide
1	O	518	ASN	Peptide
1	P	518	ASN	Peptide
1	Q	518	ASN	Peptide
1	R	518	ASN	Peptide
1	S	518	ASN	Peptide
1	T	518	ASN	Peptide
1	U	518	ASN	Peptide
1	V	518	ASN	Peptide
1	W	518	ASN	Peptide
1	X	518	ASN	Peptide
1	Y	518	ASN	Peptide
1	Z	518	ASN	Peptide
1	a	518	ASN	Peptide
1	b	518	ASN	Peptide
1	c	518	ASN	Peptide
1	d	518	ASN	Peptide
1	e	518	ASN	Peptide
1	f	518	ASN	Peptide
1	g	518	ASN	Peptide
1	h	518	ASN	Peptide
1	i	518	ASN	Peptide
1	j	518	ASN	Peptide
1	k	518	ASN	Peptide
1	l	518	ASN	Peptide
1	m	518	ASN	Peptide
1	n	518	ASN	Peptide
1	o	518	ASN	Peptide
1	p	518	ASN	Peptide
1	q	518	ASN	Peptide
1	r	518	ASN	Peptide
1	s	518	ASN	Peptide
1	t	518	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	u	518	ASN	Peptide
1	v	518	ASN	Peptide
1	w	518	ASN	Peptide
1	x	518	ASN	Peptide
1	y	518	ASN	Peptide
1	z	518	ASN	Peptide

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	4135	0	3892	89	0
1	2	4135	0	3892	89	0
1	3	4135	0	3892	91	0
1	4	4135	0	3892	91	0
1	5	4135	0	3892	92	0
1	6	4135	0	3892	90	0
1	7	4135	0	3892	93	0
1	8	4135	0	3892	93	0
1	A	4135	0	3892	94	0
1	B	4135	0	3892	93	0
1	C	4135	0	3892	93	0
1	D	4135	0	3892	95	0
1	E	4135	0	3892	93	0
1	F	4135	0	3892	91	0
1	G	4135	0	3892	92	0
1	H	4135	0	3892	92	0
1	I	4135	0	3892	92	0
1	J	4135	0	3892	92	0
1	K	4135	0	3892	92	0
1	L	4135	0	3892	93	0
1	M	4135	0	3892	95	0
1	N	4135	0	3892	93	0
1	O	4135	0	3892	91	0
1	P	4135	0	3892	92	0
1	Q	4135	0	3892	91	0
1	R	4135	0	3892	95	0
1	S	4135	0	3892	93	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	T	4135	0	3892	94	0
1	U	4135	0	3892	94	0
1	V	4135	0	3892	92	0
1	W	4135	0	3892	91	0
1	X	4135	0	3892	93	0
1	Y	4135	0	3892	94	0
1	Z	4135	0	3892	92	0
1	a	4135	0	3892	92	0
1	b	4135	0	3892	95	0
1	c	4135	0	3892	93	0
1	d	4135	0	3892	92	0
1	e	4135	0	3892	94	0
1	f	4135	0	3892	89	0
1	g	4135	0	3892	95	0
1	h	4135	0	3892	93	0
1	i	4135	0	3892	92	0
1	j	4135	0	3892	92	0
1	k	4135	0	3892	97	0
1	l	4135	0	3892	92	0
1	m	4135	0	3892	94	0
1	n	4135	0	3892	91	0
1	o	4135	0	3892	91	0
1	p	4135	0	3892	95	0
1	q	4135	0	3892	93	0
1	r	4135	0	3892	91	0
1	s	4135	0	3892	92	0
1	t	4135	0	3892	94	0
1	u	4135	0	3892	93	0
1	v	4135	0	3892	92	0
1	w	4135	0	3892	91	0
1	x	4135	0	3892	94	0
1	y	4135	0	3892	90	0
1	z	4135	0	3892	91	0
2	1h	989	0	930	105	0
2	2h	989	0	930	106	0
2	3h	989	0	930	105	0
2	4h	989	0	930	107	0
2	5h	989	0	930	106	0
2	6h	989	0	930	106	0
2	7h	989	0	930	109	0
2	8h	989	0	930	106	0
2	Ah	989	0	930	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Bh	989	0	930	104	0
2	Ch	989	0	930	109	0
2	Dh	989	0	930	109	0
2	Eh	989	0	930	106	0
2	Fh	989	0	930	105	0
2	Gh	989	0	930	105	0
2	Hh	989	0	930	107	0
2	Ih	989	0	930	107	0
2	Jh	989	0	930	106	0
2	Kh	989	0	930	106	0
2	Lh	989	0	930	107	0
2	Mh	989	0	930	107	0
2	Nh	989	0	930	105	0
2	Oh	989	0	930	106	0
2	Ph	989	0	930	105	0
2	Qh	989	0	930	110	0
2	Rh	989	0	930	105	0
2	Sh	989	0	930	106	0
2	Th	989	0	930	107	0
2	Uh	989	0	930	107	0
2	Vh	989	0	930	109	0
2	Wh	989	0	930	105	0
2	Xh	989	0	930	108	0
2	Yh	989	0	930	109	0
2	Zh	989	0	930	106	0
2	ah	989	0	930	108	0
2	bh	989	0	930	106	0
2	ch	989	0	930	105	0
2	dh	989	0	930	104	0
2	eh	989	0	930	108	0
2	fh	989	0	930	107	0
2	gh	989	0	930	105	0
2	hh	989	0	930	106	0
2	ih	989	0	930	108	0
2	jh	989	0	930	109	0
2	kh	989	0	930	104	0
2	lh	989	0	930	106	0
2	mh	989	0	930	108	0
2	nh	989	0	930	105	0
2	oh	989	0	930	107	0
2	ph	989	0	930	106	0
2	qh	989	0	930	107	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	rh	989	0	930	110	0
2	sh	989	0	930	106	0
2	th	989	0	930	106	0
2	uh	989	0	930	105	0
2	vh	989	0	930	106	0
2	wh	989	0	930	105	0
2	xh	989	0	930	107	0
2	yh	989	0	930	107	0
2	zh	989	0	930	105	0
3	1l	785	0	741	55	0
3	2l	785	0	741	58	0
3	3l	785	0	741	58	0
3	4l	785	0	741	61	0
3	5l	785	0	741	57	0
3	6l	785	0	741	55	0
3	7l	785	0	741	63	0
3	8l	785	0	741	59	0
3	Al	785	0	741	64	0
3	Bl	785	0	741	62	0
3	Cl	785	0	741	61	0
3	Dl	785	0	741	63	0
3	El	785	0	741	62	0
3	Fl	785	0	741	61	0
3	Gl	785	0	741	59	0
3	Hl	785	0	741	60	0
3	Il	785	0	741	61	0
3	Jl	785	0	741	64	0
3	Kl	785	0	741	62	0
3	Ll	785	0	741	58	0
3	Ml	785	0	741	65	0
3	Nl	785	0	741	60	0
3	Ol	785	0	741	61	0
3	Pl	785	0	741	62	0
3	Ql	785	0	741	57	0
3	Rl	785	0	741	62	0
3	Sl	785	0	741	64	0
3	Tl	785	0	741	59	0
3	Ul	785	0	741	57	0
3	Vl	785	0	741	59	0
3	Wl	785	0	741	58	0
3	Xl	785	0	741	62	0
3	Yl	785	0	741	63	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	Zl	785	0	741	59	0
3	al	785	0	741	60	0
3	bl	785	0	741	62	0
3	cl	785	0	741	60	0
3	dl	785	0	741	60	0
3	el	785	0	741	63	0
3	fl	785	0	741	61	0
3	gl	785	0	741	59	0
3	hl	785	0	741	61	0
3	il	785	0	741	63	0
3	jl	785	0	741	60	0
3	kl	785	0	741	61	0
3	ll	785	0	741	62	0
3	ml	785	0	741	57	0
3	nl	785	0	741	59	0
3	ol	785	0	741	61	0
3	pl	785	0	741	61	0
3	ql	785	0	741	63	0
3	rl	785	0	741	59	0
3	sl	785	0	741	63	0
3	tl	785	0	741	58	0
3	ul	785	0	741	62	0
3	vl	785	0	741	64	0
3	wl	785	0	741	57	0
3	xl	785	0	741	61	0
3	yl	785	0	741	62	0
3	zl	785	0	741	56	0
All	All	354540	0	333780	13529	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 20.

All (13529) 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)
3:Vl:107:TYR:HE2	3:Vl:126:VAL:CG2	1.58	1.17
3:Sl:107:TYR:HE2	3:Sl:126:VAL:CG2	1.58	1.17
3:Zl:107:TYR:HE2	3:Zl:126:VAL:CG2	1.58	1.17
3:jl:107:TYR:HE2	3:jl:126:VAL:CG2	1.58	1.17
3:ll:107:TYR:HE2	3:ll:126:VAL:CG2	1.58	1.17
3:8l:107:TYR:HE2	3:8l:126:VAL:CG2	1.58	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:kl:107:TYR:HE2	3:kl:126:VAL:CG2	1.58	1.17
3:ol:107:TYR:HE2	3:ol:126:VAL:CG2	1.58	1.17
3:Il:107:TYR:HE2	3:Il:126:VAL:CG2	1.58	1.16
3:Jl:107:TYR:HE2	3:Jl:126:VAL:CG2	1.58	1.16
3:Rl:107:TYR:HE2	3:Rl:126:VAL:CG2	1.58	1.16
3:Wl:107:TYR:HE2	3:Wl:126:VAL:CG2	1.58	1.16
3:1l:107:TYR:HE2	3:1l:126:VAL:CG2	1.58	1.16
3:al:107:TYR:HE2	3:al:126:VAL:CG2	1.58	1.16
3:vl:107:TYR:HE2	3:vl:126:VAL:CG2	1.58	1.16
3:wl:107:TYR:HE2	3:wl:126:VAL:CG2	1.58	1.16
3:Cl:107:TYR:HE2	3:Cl:126:VAL:CG2	1.58	1.16
3:fl:107:TYR:HE2	3:fl:126:VAL:CG2	1.58	1.16
3:zl:107:TYR:HE2	3:zl:126:VAL:CG2	1.58	1.16
3:El:107:TYR:HE2	3:El:126:VAL:CG2	1.58	1.16
3:Ol:107:TYR:HE2	3:Ol:126:VAL:CG2	1.58	1.16
3:4l:107:TYR:HE2	3:4l:126:VAL:CG2	1.58	1.16
3:5l:107:TYR:HE2	3:5l:126:VAL:CG2	1.58	1.16
3:dl:107:TYR:HE2	3:dl:126:VAL:CG2	1.58	1.16
3:nl:107:TYR:HE2	3:nl:126:VAL:CG2	1.58	1.16
3:ql:107:TYR:HE2	3:ql:126:VAL:CG2	1.58	1.16
3:Pl:107:TYR:HE2	3:Pl:126:VAL:CG2	1.58	1.16
3:Ql:107:TYR:HE2	3:Ql:126:VAL:CG2	1.58	1.16
3:3l:107:TYR:HE2	3:3l:126:VAL:CG2	1.58	1.16
3:hl:107:TYR:HE2	3:hl:126:VAL:CG2	1.58	1.16
3:Fl:107:TYR:HE2	3:Fl:126:VAL:CG2	1.58	1.16
3:Gl:107:TYR:HE2	3:Gl:126:VAL:CG2	1.58	1.16
3:rl:107:TYR:HE2	3:rl:126:VAL:CG2	1.58	1.16
3:sl:107:TYR:HE2	3:sl:126:VAL:CG2	1.58	1.16
3:xl:107:TYR:HE2	3:xl:126:VAL:CG2	1.58	1.16
3:Kl:107:TYR:HE2	3:Kl:126:VAL:CG2	1.58	1.15
3:Ll:107:TYR:HE2	3:Ll:126:VAL:CG2	1.58	1.15
3:Al:107:TYR:HE2	3:Al:126:VAL:CG2	1.58	1.15
3:pl:107:TYR:HE2	3:pl:126:VAL:CG2	1.58	1.15
3:tl:107:TYR:HE2	3:tl:126:VAL:CG2	1.58	1.15
3:Ml:107:TYR:HE2	3:Ml:126:VAL:CG2	1.58	1.15
3:Tl:107:TYR:HE2	3:Tl:126:VAL:CG2	1.58	1.15
3:Ul:107:TYR:HE2	3:Ul:126:VAL:CG2	1.58	1.15
3:bl:107:TYR:HE2	3:bl:126:VAL:CG2	1.58	1.15
3:ml:107:TYR:HE2	3:ml:126:VAL:CG2	1.58	1.15
3:gl:107:TYR:HE2	3:gl:126:VAL:CG2	1.58	1.15
3:Hl:107:TYR:HE2	3:Hl:126:VAL:CG2	1.58	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ul:107:TYR:HE2	3:ul:126:VAL:CG2	1.58	1.15
3:7l:107:TYR:HE2	3:7l:126:VAL:CG2	1.58	1.15
3:Bl:107:TYR:HE2	3:Bl:126:VAL:CG2	1.58	1.14
3:Yl:107:TYR:HE2	3:Yl:126:VAL:CG2	1.58	1.14
3:yl:107:TYR:HE2	3:yl:126:VAL:CG2	1.58	1.14
3:Dl:107:TYR:HE2	3:Dl:126:VAL:CG2	1.58	1.14
3:2l:107:TYR:HE2	3:2l:126:VAL:CG2	1.58	1.14
3:6l:107:TYR:HE2	3:6l:126:VAL:CG2	1.58	1.14
3:el:107:TYR:HE2	3:el:126:VAL:CG2	1.58	1.14
3:cl:107:TYR:HE2	3:cl:126:VAL:CG2	1.58	1.13
3:il:107:TYR:HE2	3:il:126:VAL:CG2	1.58	1.13
3:Nl:107:TYR:HE2	3:Nl:126:VAL:CG2	1.58	1.13
3:Xl:107:TYR:HE2	3:Xl:126:VAL:CG2	1.58	1.13
1:J:587:ASN:HB2	3:Jl:87:ARG:HH11	1.16	1.11
1:p:587:ASN:HB2	3:pl:87:ARG:HH11	1.16	1.11
1:v:587:ASN:HB2	3:vl:87:ARG:HH11	1.16	1.11
1:N:587:ASN:HB2	3:Nl:87:ARG:HH11	1.16	1.11
1:c:587:ASN:HB2	3:cl:87:ARG:HH11	1.16	1.11
2:Ch:88:THR:HG22	2:Ch:101:GLN:NE2	1.66	1.11
2:Th:88:THR:HG22	2:Th:101:GLN:NE2	1.66	1.11
2:ah:88:THR:HG22	2:ah:101:GLN:NE2	1.66	1.11
2:gh:88:THR:HG22	2:gh:101:GLN:NE2	1.66	1.11
2:Mh:88:THR:HG22	2:Mh:101:GLN:NE2	1.66	1.10
2:bh:88:THR:HG22	2:bh:101:GLN:NE2	1.66	1.10
2:ih:88:THR:HG22	2:ih:101:GLN:NE2	1.66	1.10
2:mh:88:THR:HG22	2:mh:101:GLN:NE2	1.66	1.10
1:V:587:ASN:HB2	3:Vl:87:ARG:HH11	1.16	1.10
1:j:587:ASN:HB2	3:jl:87:ARG:HH11	1.16	1.10
2:Rh:88:THR:HG22	2:Rh:101:GLN:NE2	1.66	1.10
2:Uh:88:THR:HG22	2:Uh:101:GLN:NE2	1.66	1.10
2:Xh:88:THR:HG22	2:Xh:101:GLN:NE2	1.66	1.10
2:7h:88:THR:HG22	2:7h:101:GLN:NE2	1.66	1.10
1:g:587:ASN:HB2	3:gl:87:ARG:HH11	1.16	1.10
2:Kh:88:THR:HG22	2:Kh:101:GLN:NE2	1.66	1.10
2:Wh:88:THR:HG22	2:Wh:101:GLN:NE2	1.66	1.10
2:Yh:88:THR:HG22	2:Yh:101:GLN:NE2	1.66	1.10
2:1h:88:THR:HG22	2:1h:101:GLN:NE2	1.66	1.10
2:4h:88:THR:HG22	2:4h:101:GLN:NE2	1.66	1.10
2:hh:88:THR:HG22	2:hh:101:GLN:NE2	1.66	1.10
2:kh:88:THR:HG22	2:kh:101:GLN:NE2	1.66	1.10
2:rh:88:THR:HG22	2:rh:101:GLN:NE2	1.66	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:xh:88:THR:HG22	2:xh:101:GLN:NE2	1.66	1.10
2:zh:88:THR:HG22	2:zh:101:GLN:NE2	1.66	1.10
1:O:587:ASN:HB2	3:Ol:87:ARG:HH11	1.16	1.09
1:2:587:ASN:HB2	3:2l:87:ARG:HH11	1.16	1.09
2:Uh:39:LEU:HD12	2:Uh:100:LEU:HD23	1.34	1.09
2:mh:39:LEU:HD12	2:mh:100:LEU:HD23	1.34	1.09
2:wh:88:THR:HG22	2:wh:101:GLN:NE2	1.66	1.09
1:T:587:ASN:HB2	3:Tl:87:ARG:HH11	1.16	1.09
1:f:587:ASN:HB2	3:fl:87:ARG:HH11	1.16	1.09
2:Fh:88:THR:HG22	2:Fh:101:GLN:NE2	1.66	1.09
2:Qh:88:THR:HG22	2:Qh:101:GLN:NE2	1.66	1.09
2:5h:88:THR:HG22	2:5h:101:GLN:NE2	1.66	1.09
2:3h:88:THR:HG22	2:3h:101:GLN:NE2	1.66	1.09
2:sh:88:THR:HG22	2:sh:101:GLN:NE2	1.66	1.09
1:P:587:ASN:HB2	3:Pl:87:ARG:HH11	1.16	1.09
2:Bh:88:THR:HG22	2:Bh:101:GLN:NE2	1.66	1.09
2:Zh:88:THR:HG22	2:Zh:101:GLN:NE2	1.66	1.09
2:eh:88:THR:HG22	2:eh:101:GLN:NE2	1.66	1.09
2:fh:88:THR:HG22	2:fh:101:GLN:NE2	1.66	1.09
2:8h:88:THR:HG22	2:8h:101:GLN:NE2	1.66	1.09
1:q:587:ASN:HB2	3:ql:87:ARG:HH11	1.16	1.09
2:Dh:88:THR:HG22	2:Dh:101:GLN:NE2	1.66	1.09
2:Oh:88:THR:HG22	2:Oh:101:GLN:NE2	1.66	1.09
2:uh:88:THR:HG22	2:uh:101:GLN:NE2	1.66	1.09
2:yh:88:THR:HG22	2:yh:101:GLN:NE2	1.66	1.09
1:C:587:ASN:HB2	3:Cl:87:ARG:HH11	1.16	1.08
1:d:587:ASN:HB2	3:dl:87:ARG:HH11	1.16	1.08
2:Hh:39:LEU:HD12	2:Hh:100:LEU:HD23	1.34	1.08
2:Hh:88:THR:HG22	2:Hh:101:GLN:NE2	1.66	1.08
2:Lh:88:THR:HG22	2:Lh:101:GLN:NE2	1.66	1.08
2:Sh:88:THR:HG22	2:Sh:101:GLN:NE2	1.66	1.08
2:eh:39:LEU:HD12	2:eh:100:LEU:HD23	1.34	1.08
2:lh:88:THR:HG22	2:lh:101:GLN:NE2	1.66	1.08
2:th:88:THR:HG22	2:th:101:GLN:NE2	1.66	1.08
1:E:587:ASN:HB2	3:El:87:ARG:HH11	1.16	1.08
1:M:587:ASN:HB2	3:Ml:87:ARG:HH11	1.16	1.08
2:Ah:88:THR:HG22	2:Ah:101:GLN:NE2	1.66	1.08
2:Ih:88:THR:HG22	2:Ih:101:GLN:NE2	1.66	1.08
2:Nh:88:THR:HG22	2:Nh:101:GLN:NE2	1.66	1.08
2:2h:39:LEU:HD12	2:2h:100:LEU:HD23	1.35	1.08
2:ch:88:THR:HG22	2:ch:101:GLN:NE2	1.66	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oh:88:THR:HG22	2:oh:101:GLN:NE2	1.66	1.08
2:yh:39:LEU:HD12	2:yh:100:LEU:HD23	1.34	1.08
1:a:587:ASN:HB2	3:al:87:ARG:HH11	1.16	1.08
1:y:587:ASN:HB2	3:yl:87:ARG:HH11	1.16	1.08
2:Dh:39:LEU:HD12	2:Dh:100:LEU:HD23	1.34	1.08
2:Vh:88:THR:HG22	2:Vh:101:GLN:NE2	1.66	1.08
2:6h:39:LEU:HD12	2:6h:100:LEU:HD23	1.35	1.08
2:jh:88:THR:HG22	2:jh:101:GLN:NE2	1.66	1.08
2:ph:88:THR:HG22	2:ph:101:GLN:NE2	1.66	1.08
1:D:587:ASN:HB2	3:Dl:87:ARG:HH11	1.16	1.08
1:H:587:ASN:HB2	3:Hl:87:ARG:HH11	1.16	1.08
1:b:587:ASN:HB2	3:bl:87:ARG:HH11	1.16	1.08
2:nh:88:THR:HG22	2:nh:101:GLN:NE2	1.66	1.08
2:Ph:88:THR:HG22	2:Ph:101:GLN:NE2	1.66	1.08
2:xh:39:LEU:HD12	2:xh:100:LEU:HD23	1.34	1.08
2:Gh:88:THR:HG22	2:Gh:101:GLN:NE2	1.66	1.07
2:Kh:39:LEU:HD12	2:Kh:100:LEU:HD23	1.34	1.07
2:dh:88:THR:HG22	2:dh:101:GLN:NE2	1.66	1.07
1:Q:587:ASN:HB2	3:Ql:87:ARG:HH11	1.16	1.07
1:6:587:ASN:HB2	3:6l:87:ARG:HH11	1.18	1.07
1:e:587:ASN:HB2	3:el:87:ARG:HH11	1.16	1.07
1:i:587:ASN:HB2	3:il:87:ARG:HH11	1.16	1.07
1:m:587:ASN:HB2	3:ml:87:ARG:HH11	1.16	1.07
2:Jh:88:THR:HG22	2:Jh:101:GLN:NE2	1.66	1.07
2:Mh:39:LEU:HD12	2:Mh:100:LEU:HD23	1.34	1.07
2:Ph:39:LEU:HD12	2:Ph:100:LEU:HD23	1.34	1.07
2:qh:88:THR:HG22	2:qh:101:GLN:NE2	1.66	1.07
1:r:587:ASN:HB2	3:rl:87:ARG:HH11	1.16	1.07
2:Eh:88:THR:HG22	2:Eh:101:GLN:NE2	1.66	1.07
2:bh:39:LEU:HD12	2:bh:100:LEU:HD23	1.34	1.07
2:vh:88:THR:HG22	2:vh:101:GLN:NE2	1.66	1.07
1:X:587:ASN:HB2	3:Xl:87:ARG:HH11	1.16	1.07
2:dh:39:LEU:HD12	2:dh:100:LEU:HD23	1.35	1.07
1:U:587:ASN:HB2	3:Ul:87:ARG:HH11	1.16	1.07
2:6h:88:THR:HG22	2:6h:101:GLN:NE2	1.66	1.07
2:fh:39:LEU:HD12	2:fh:100:LEU:HD23	1.34	1.07
2:Oh:39:LEU:HD12	2:Oh:100:LEU:HD23	1.34	1.06
2:2h:88:THR:HG22	2:2h:101:GLN:NE2	1.66	1.06
1:t:587:ASN:HB2	3:tl:87:ARG:HH11	1.16	1.06
2:hh:39:LEU:HD12	2:hh:100:LEU:HD23	1.35	1.06
2:ih:39:LEU:HD12	2:ih:100:LEU:HD23	1.34	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Xh:39:LEU:HD12	2:Xh:100:LEU:HD23	1.34	1.06
2:4h:39:LEU:HD12	2:4h:100:LEU:HD23	1.35	1.06
2:7h:39:LEU:HD12	2:7h:100:LEU:HD23	1.34	1.06
1:W:587:ASN:HB2	3:Wl:87:ARG:HH11	1.16	1.06
2:Yh:39:LEU:HD12	2:Yh:100:LEU:HD23	1.34	1.06
3:Tl:107:TYR:CE2	3:Tl:126:VAL:CG2	2.39	1.06
1:B:587:ASN:HB2	3:Bl:87:ARG:HH11	1.16	1.05
1:L:587:ASN:HB2	3:Ll:87:ARG:HH11	1.16	1.05
1:k:587:ASN:HB2	3:kl:87:ARG:HH11	1.16	1.05
1:s:587:ASN:HB2	3:sl:87:ARG:HH11	1.16	1.05
1:z:587:ASN:HB2	3:zl:87:ARG:HH11	1.16	1.05
2:ah:39:LEU:HD12	2:ah:100:LEU:HD23	1.34	1.05
2:oh:88:THR:CG2	2:oh:101:GLN:HE22	1.69	1.05
3:Al:107:TYR:CE2	3:Al:126:VAL:CG2	2.39	1.05
3:Bl:107:TYR:CE2	3:Bl:126:VAL:CG2	2.39	1.05
3:Cl:107:TYR:CE2	3:Cl:126:VAL:CG2	2.39	1.05
3:3l:107:TYR:CE2	3:3l:126:VAL:CG2	2.39	1.05
3:5l:107:TYR:CE2	3:5l:126:VAL:CG2	2.39	1.05
3:al:107:TYR:CE2	3:al:126:VAL:CG2	2.39	1.05
3:gl:107:TYR:CE2	3:gl:126:VAL:CG2	2.39	1.05
3:ul:107:TYR:CE2	3:ul:126:VAL:CG2	2.39	1.05
1:R:587:ASN:HB2	3:Rl:87:ARG:HH11	1.16	1.05
1:Z:587:ASN:HB2	3:Zl:87:ARG:HH11	1.16	1.05
2:Ih:88:THR:CG2	2:Ih:101:GLN:HE22	1.69	1.05
2:Mh:88:THR:CG2	2:Mh:101:GLN:HE22	1.69	1.05
2:Vh:88:THR:CG2	2:Vh:101:GLN:HE22	1.69	1.05
2:bh:88:THR:CG2	2:bh:101:GLN:HE22	1.69	1.05
2:jh:88:THR:CG2	2:jh:101:GLN:HE22	1.70	1.05
3:Gl:107:TYR:CE2	3:Gl:126:VAL:CG2	2.39	1.05
3:Wl:107:TYR:CE2	3:Wl:126:VAL:CG2	2.39	1.05
3:pl:107:TYR:CE2	3:pl:126:VAL:CG2	2.39	1.05
1:F:587:ASN:HB2	3:Fl:87:ARG:HH11	1.16	1.05
1:u:587:ASN:HB2	3:ul:87:ARG:HH11	1.16	1.05
2:Kh:88:THR:CG2	2:Kh:101:GLN:NE2	2.20	1.05
2:Qh:88:THR:CG2	2:Qh:101:GLN:HE22	1.69	1.05
2:Wh:88:THR:CG2	2:Wh:101:GLN:HE22	1.69	1.05
2:1h:88:THR:CG2	2:1h:101:GLN:HE22	1.69	1.05
2:3h:39:LEU:HD12	2:3h:100:LEU:HD23	1.35	1.05
2:4h:88:THR:CG2	2:4h:101:GLN:HE22	1.69	1.05
2:rh:88:THR:CG2	2:rh:101:GLN:HE22	1.69	1.05
2:xh:88:THR:CG2	2:xh:101:GLN:NE2	2.20	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Pl:107:TYR:CE2	3:Pl:126:VAL:CG2	2.39	1.05
3:4l:107:TYR:CE2	3:4l:126:VAL:CG2	2.39	1.05
3:dl:107:TYR:CE2	3:dl:126:VAL:CG2	2.39	1.05
3:nl:107:TYR:CE2	3:nl:126:VAL:CG2	2.39	1.05
3:zl:107:TYR:CE2	3:zl:126:VAL:CG2	2.39	1.05
1:h:587:ASN:HB2	3:hl:87:ARG:HH11	1.16	1.05
1:8:587:ASN:HB2	3:8l:87:ARG:HH11	1.16	1.05
2:Ch:39:LEU:HD12	2:Ch:100:LEU:HD23	1.34	1.05
2:Kh:88:THR:CG2	2:Kh:101:GLN:HE22	1.69	1.05
2:Nh:88:THR:CG2	2:Nh:101:GLN:HE22	1.69	1.05
2:Uh:88:THR:CG2	2:Uh:101:GLN:NE2	2.20	1.05
2:1h:39:LEU:HD12	2:1h:100:LEU:HD23	1.35	1.05
2:4h:88:THR:CG2	2:4h:101:GLN:NE2	2.20	1.05
2:5h:39:LEU:HD12	2:5h:100:LEU:HD23	1.35	1.05
2:ch:88:THR:CG2	2:ch:101:GLN:HE22	1.69	1.05
2:gh:39:LEU:HD12	2:gh:100:LEU:HD23	1.34	1.05
2:hh:88:THR:CG2	2:hh:101:GLN:HE22	1.69	1.05
2:hh:88:THR:CG2	2:hh:101:GLN:NE2	2.20	1.05
2:mh:88:THR:CG2	2:mh:101:GLN:NE2	2.20	1.05
2:qh:39:LEU:HD12	2:qh:100:LEU:HD23	1.34	1.05
2:rh:39:LEU:HD12	2:rh:100:LEU:HD23	1.34	1.05
2:wh:39:LEU:HD12	2:wh:100:LEU:HD23	1.35	1.05
2:wh:88:THR:CG2	2:wh:101:GLN:HE22	1.69	1.05
2:zh:88:THR:CG2	2:zh:101:GLN:HE22	1.70	1.05
3:Jl:107:TYR:CE2	3:Jl:126:VAL:CG2	2.39	1.05
3:Ll:107:TYR:CE2	3:Ll:126:VAL:CG2	2.39	1.05
3:hl:107:TYR:CE2	3:hl:126:VAL:CG2	2.39	1.05
3:vl:107:TYR:CE2	3:vl:126:VAL:CG2	2.39	1.05
2:Ah:88:THR:CG2	2:Ah:101:GLN:HE22	1.69	1.05
2:Gh:88:THR:CG2	2:Gh:101:GLN:HE22	1.69	1.05
2:Hh:88:THR:CG2	2:Hh:101:GLN:NE2	2.20	1.05
2:Sh:88:THR:CG2	2:Sh:101:GLN:NE2	2.20	1.05
2:Th:39:LEU:HD12	2:Th:100:LEU:HD23	1.34	1.05
2:3h:88:THR:CG2	2:3h:101:GLN:HE22	1.69	1.05
2:eh:88:THR:CG2	2:eh:101:GLN:NE2	2.20	1.05
2:lh:88:THR:CG2	2:lh:101:GLN:NE2	2.20	1.05
2:nh:88:THR:CG2	2:nh:101:GLN:HE22	1.69	1.05
2:ph:88:THR:CG2	2:ph:101:GLN:HE22	1.69	1.05
2:xh:88:THR:CG2	2:xh:101:GLN:HE22	1.69	1.05
2:yh:88:THR:CG2	2:yh:101:GLN:NE2	2.20	1.05
3:6l:107:TYR:CE2	3:6l:126:VAL:CG2	2.39	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:el:107:TYR:CE2	3:el:126:VAL:CG2	2.39	1.05
3:tl:107:TYR:CE2	3:tl:126:VAL:CG2	2.39	1.05
1:S:587:ASN:HB2	3:Sl:87:ARG:HH11	1.16	1.04
1:n:587:ASN:HB2	3:nl:87:ARG:HH11	1.16	1.04
2:Ch:88:THR:CG2	2:Ch:101:GLN:HE22	1.69	1.04
2:Dh:88:THR:CG2	2:Dh:101:GLN:HE22	1.69	1.04
2:Dh:88:THR:CG2	2:Dh:101:GLN:NE2	2.20	1.04
2:Hh:88:THR:CG2	2:Hh:101:GLN:HE22	1.69	1.04
2:Lh:39:LEU:HD12	2:Lh:100:LEU:HD23	1.34	1.04
2:Ph:88:THR:CG2	2:Ph:101:GLN:NE2	2.20	1.04
2:Qh:39:LEU:HD12	2:Qh:100:LEU:HD23	1.34	1.04
2:1h:88:THR:CG2	2:1h:101:GLN:NE2	2.20	1.04
2:3h:88:THR:CG2	2:3h:101:GLN:NE2	2.20	1.04
2:5h:88:THR:CG2	2:5h:101:GLN:HE22	1.69	1.04
2:5h:88:THR:CG2	2:5h:101:GLN:NE2	2.20	1.04
2:ah:88:THR:CG2	2:ah:101:GLN:HE22	1.69	1.04
2:eh:88:THR:CG2	2:eh:101:GLN:HE22	1.69	1.04
2:th:39:LEU:HD12	2:th:100:LEU:HD23	1.34	1.04
2:wh:88:THR:CG2	2:wh:101:GLN:NE2	2.20	1.04
2:yh:88:THR:CG2	2:yh:101:GLN:HE22	1.69	1.04
3:Dl:107:TYR:CE2	3:Dl:126:VAL:CG2	2.39	1.04
3:Ql:107:TYR:CE2	3:Ql:126:VAL:CG2	2.39	1.04
3:2l:107:TYR:CE2	3:2l:126:VAL:CG2	2.39	1.04
3:cl:107:TYR:CE2	3:cl:126:VAL:CG2	2.39	1.04
3:rl:107:TYR:CE2	3:rl:126:VAL:CG2	2.39	1.04
1:1:587:ASN:HB2	3:1l:87:ARG:HH11	1.16	1.04
1:4:587:ASN:HB2	3:4l:87:ARG:HH11	1.16	1.04
2:Ah:88:THR:CG2	2:Ah:101:GLN:NE2	2.20	1.04
2:Bh:39:LEU:HD12	2:Bh:100:LEU:HD23	1.34	1.04
2:Eh:39:LEU:HD12	2:Eh:100:LEU:HD23	1.34	1.04
2:Eh:88:THR:CG2	2:Eh:101:GLN:HE22	1.69	1.04
2:Fh:88:THR:CG2	2:Fh:101:GLN:NE2	2.20	1.04
2:Rh:88:THR:CG2	2:Rh:101:GLN:HE22	1.69	1.04
2:Sh:88:THR:CG2	2:Sh:101:GLN:HE22	1.69	1.04
2:Th:88:THR:CG2	2:Th:101:GLN:HE22	1.69	1.04
2:Yh:88:THR:CG2	2:Yh:101:GLN:HE22	1.69	1.04
2:dh:88:THR:CG2	2:dh:101:GLN:NE2	2.20	1.04
2:lh:88:THR:CG2	2:lh:101:GLN:HE22	1.69	1.04
2:qh:88:THR:CG2	2:qh:101:GLN:HE22	1.69	1.04
2:sh:88:THR:CG2	2:sh:101:GLN:NE2	2.20	1.04
2:vh:39:LEU:HD12	2:vh:100:LEU:HD23	1.34	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Fl:107:TYR:CE2	3:Fl:126:VAL:CG2	2.39	1.04
3:Kl:107:TYR:CE2	3:Kl:126:VAL:CG2	2.39	1.04
3:Nl:107:TYR:CE2	3:Nl:126:VAL:CG2	2.39	1.04
3:Sl:107:TYR:CE2	3:Sl:126:VAL:CG2	2.39	1.04
3:kl:107:TYR:CE2	3:kl:126:VAL:CG2	2.39	1.04
3:ll:107:TYR:CE2	3:ll:126:VAL:CG2	2.39	1.04
3:ol:107:TYR:CE2	3:ol:126:VAL:CG2	2.39	1.04
3:ql:107:TYR:CE2	3:ql:126:VAL:CG2	2.39	1.04
3:8l:107:TYR:CE2	3:8l:126:VAL:CG2	2.39	1.04
1:w:587:ASN:HB2	3:wl:87:ARG:HH11	1.16	1.04
2:Bh:88:THR:CG2	2:Bh:101:GLN:HE22	1.69	1.04
2:Gh:88:THR:CG2	2:Gh:101:GLN:NE2	2.20	1.04
2:Mh:88:THR:CG2	2:Mh:101:GLN:NE2	2.20	1.04
2:Ph:88:THR:CG2	2:Ph:101:GLN:HE22	1.69	1.04
2:Uh:88:THR:CG2	2:Uh:101:GLN:HE22	1.69	1.04
2:bh:88:THR:CG2	2:bh:101:GLN:NE2	2.20	1.04
2:gh:88:THR:CG2	2:gh:101:GLN:HE22	1.69	1.04
2:kh:88:THR:CG2	2:kh:101:GLN:HE22	1.69	1.04
2:mh:88:THR:CG2	2:mh:101:GLN:HE22	1.69	1.04
2:nh:88:THR:CG2	2:nh:101:GLN:NE2	2.20	1.04
2:ph:88:THR:CG2	2:ph:101:GLN:NE2	2.20	1.04
2:sh:88:THR:CG2	2:sh:101:GLN:HE22	1.69	1.04
2:uh:88:THR:CG2	2:uh:101:GLN:HE22	1.69	1.04
2:7h:88:THR:CG2	2:7h:101:GLN:HE22	1.69	1.04
3:El:107:TYR:CE2	3:El:126:VAL:CG2	2.39	1.04
3:Rl:107:TYR:CE2	3:Rl:126:VAL:CG2	2.39	1.04
3:Vl:107:TYR:CE2	3:Vl:126:VAL:CG2	2.39	1.04
3:Xl:107:TYR:CE2	3:Xl:126:VAL:CG2	2.39	1.04
3:Zl:107:TYR:CE2	3:Zl:126:VAL:CG2	2.39	1.04
3:1l:107:TYR:CE2	3:1l:126:VAL:CG2	2.39	1.04
3:il:107:TYR:CE2	3:il:126:VAL:CG2	2.39	1.04
3:jl:107:TYR:CE2	3:jl:126:VAL:CG2	2.39	1.04
3:ml:107:TYR:CE2	3:ml:126:VAL:CG2	2.39	1.04
3:sl:107:TYR:CE2	3:sl:126:VAL:CG2	2.39	1.04
3:wl:107:TYR:CE2	3:wl:126:VAL:CG2	2.39	1.04
3:xl:107:TYR:CE2	3:xl:126:VAL:CG2	2.39	1.04
1:G:587:ASN:HB2	3:Gl:87:ARG:HH11	1.16	1.04
1:Y:587:ASN:HB2	3:Yl:87:ARG:HH11	1.16	1.04
1:l:587:ASN:HB2	3:ll:87:ARG:HH11	1.16	1.04
2:Fh:88:THR:CG2	2:Fh:101:GLN:HE22	1.69	1.04
2:Ih:39:LEU:HD12	2:Ih:100:LEU:HD23	1.34	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Jh:39:LEU:HD12	2:Jh:100:LEU:HD23	1.34	1.04
2:Jh:88:THR:CG2	2:Jh:101:GLN:HE22	1.69	1.04
2:Jh:88:THR:CG2	2:Jh:101:GLN:NE2	2.20	1.04
2:Nh:88:THR:CG2	2:Nh:101:GLN:NE2	2.20	1.04
2:Sh:39:LEU:HD12	2:Sh:100:LEU:HD23	1.34	1.04
2:Xh:88:THR:CG2	2:Xh:101:GLN:HE22	1.69	1.04
2:Xh:88:THR:CG2	2:Xh:101:GLN:NE2	2.20	1.04
2:Yh:88:THR:CG2	2:Yh:101:GLN:NE2	2.20	1.04
2:Zh:88:THR:CG2	2:Zh:101:GLN:HE22	1.69	1.04
2:ch:88:THR:CG2	2:ch:101:GLN:NE2	2.20	1.04
2:uh:88:THR:CG2	2:uh:101:GLN:NE2	2.20	1.04
2:vh:88:THR:CG2	2:vh:101:GLN:HE22	1.69	1.04
2:vh:88:THR:CG2	2:vh:101:GLN:NE2	2.20	1.04
2:8h:88:THR:CG2	2:8h:101:GLN:HE22	1.69	1.04
3:Hl:107:TYR:CE2	3:Hl:126:VAL:CG2	2.39	1.04
3:Il:107:TYR:CE2	3:Il:126:VAL:CG2	2.39	1.04
3:Ul:107:TYR:CE2	3:Ul:126:VAL:CG2	2.39	1.04
3:Yl:107:TYR:CE2	3:Yl:126:VAL:CG2	2.39	1.04
3:yl:107:TYR:CE2	3:yl:126:VAL:CG2	2.39	1.04
1:x:587:ASN:HB2	3:xl:87:ARG:HH11	1.16	1.04
2:Bh:88:THR:CG2	2:Bh:101:GLN:NE2	2.20	1.04
2:Vh:39:LEU:HD12	2:Vh:100:LEU:HD23	1.34	1.04
2:dh:88:THR:CG2	2:dh:101:GLN:HE22	1.70	1.04
2:ih:88:THR:CG2	2:ih:101:GLN:HE22	1.69	1.04
2:ih:88:THR:CG2	2:ih:101:GLN:NE2	2.20	1.04
2:lh:39:LEU:HD12	2:lh:100:LEU:HD23	1.34	1.04
2:oh:39:LEU:HD12	2:oh:100:LEU:HD23	1.34	1.04
2:uh:39:LEU:HD12	2:uh:100:LEU:HD23	1.34	1.04
2:7h:88:THR:CG2	2:7h:101:GLN:NE2	2.20	1.04
3:Ml:107:TYR:CE2	3:Ml:126:VAL:CG2	2.39	1.04
3:bl:107:TYR:CE2	3:bl:126:VAL:CG2	2.39	1.04
3:fl:107:TYR:CE2	3:fl:126:VAL:CG2	2.39	1.04
3:7l:107:TYR:CE2	3:7l:126:VAL:CG2	2.39	1.04
1:K:587:ASN:HB2	3:Kl:87:ARG:HH11	1.16	1.03
2:Ih:88:THR:CG2	2:Ih:101:GLN:NE2	2.20	1.03
2:Lh:88:THR:CG2	2:Lh:101:GLN:NE2	2.20	1.03
2:Oh:88:THR:CG2	2:Oh:101:GLN:NE2	2.20	1.03
2:Oh:88:THR:CG2	2:Oh:101:GLN:HE22	1.69	1.03
2:Rh:88:THR:CG2	2:Rh:101:GLN:NE2	2.20	1.03
2:Vh:88:THR:CG2	2:Vh:101:GLN:NE2	2.20	1.03
2:2h:88:THR:CG2	2:2h:101:GLN:HE22	1.69	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fh:88:THR:CG2	2:fh:101:GLN:NE2	2.20	1.03
2:jh:88:THR:CG2	2:jh:101:GLN:NE2	2.20	1.03
2:kh:88:THR:CG2	2:kh:101:GLN:NE2	2.20	1.03
2:th:88:THR:CG2	2:th:101:GLN:HE22	1.69	1.03
2:th:88:THR:CG2	2:th:101:GLN:NE2	2.20	1.03
3:Ol:107:TYR:CE2	3:Ol:126:VAL:CG2	2.39	1.03
1:5:587:ASN:HB2	3:5l:87:ARG:HH11	1.16	1.03
1:7:587:ASN:HB2	3:7l:87:ARG:HH11	1.16	1.03
2:Lh:88:THR:CG2	2:Lh:101:GLN:HE22	1.69	1.03
2:Zh:39:LEU:HD12	2:Zh:100:LEU:HD23	1.34	1.03
2:ah:88:THR:CG2	2:ah:101:GLN:NE2	2.20	1.03
2:ch:39:LEU:HD12	2:ch:100:LEU:HD23	1.34	1.03
2:nh:39:LEU:HD12	2:nh:100:LEU:HD23	1.34	1.03
2:oh:88:THR:CG2	2:oh:101:GLN:NE2	2.20	1.03
2:8h:39:LEU:HD12	2:8h:100:LEU:HD23	1.34	1.03
1:A:587:ASN:HB2	3:Al:87:ARG:HH11	1.22	1.03
1:3:587:ASN:HB2	3:3l:87:ARG:HH11	1.16	1.03
2:Ch:88:THR:CG2	2:Ch:101:GLN:NE2	2.20	1.03
2:Eh:88:THR:CG2	2:Eh:101:GLN:NE2	2.20	1.03
2:Gh:39:LEU:HD12	2:Gh:100:LEU:HD23	1.34	1.03
2:Nh:39:LEU:HD12	2:Nh:100:LEU:HD23	1.34	1.03
2:Rh:39:LEU:HD12	2:Rh:100:LEU:HD23	1.34	1.03
2:fh:88:THR:CG2	2:fh:101:GLN:HE22	1.69	1.03
2:jh:39:LEU:HD12	2:jh:100:LEU:HD23	1.34	1.03
2:kh:39:LEU:HD12	2:kh:100:LEU:HD23	1.34	1.03
2:Qh:88:THR:CG2	2:Qh:101:GLN:NE2	2.20	1.03
2:Wh:39:LEU:HD12	2:Wh:100:LEU:HD23	1.34	1.03
2:gh:88:THR:CG2	2:gh:101:GLN:NE2	2.20	1.03
2:qh:88:THR:CG2	2:qh:101:GLN:NE2	2.20	1.03
2:zh:39:LEU:HD12	2:zh:100:LEU:HD23	1.34	1.03
2:Th:88:THR:CG2	2:Th:101:GLN:NE2	2.20	1.03
2:2h:88:THR:CG2	2:2h:101:GLN:NE2	2.20	1.03
2:6h:88:THR:CG2	2:6h:101:GLN:HE22	1.69	1.03
2:rh:88:THR:CG2	2:rh:101:GLN:NE2	2.20	1.03
2:zh:88:THR:CG2	2:zh:101:GLN:NE2	2.20	1.03
1:o:587:ASN:HB2	3:ol:87:ARG:HH11	1.16	1.02
2:Wh:88:THR:CG2	2:Wh:101:GLN:NE2	2.20	1.02
2:6h:88:THR:CG2	2:6h:101:GLN:NE2	2.20	1.02
1:z:454:THR:HG22	2:zh:138:ASP:HB3	1.42	1.02
1:I:587:ASN:HB2	3:Il:87:ARG:HH11	1.16	1.02
1:M:454:THR:HG22	2:Mh:138:ASP:HB3	1.42	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:454:THR:HG22	2:Sh:138:ASP:HB3	1.42	1.02
1:W:454:THR:HG22	2:Wh:138:ASP:HB3	1.42	1.02
1:b:454:THR:HG22	2:bh:138:ASP:HB3	1.42	1.02
1:l:454:THR:HG22	2:lh:138:ASP:HB3	1.42	1.02
2:ph:39:LEU:HD12	2:ph:100:LEU:HD23	1.35	1.02
2:8h:88:THR:CG2	2:8h:101:GLN:NE2	2.20	1.02
2:Fh:39:LEU:HD12	2:Fh:100:LEU:HD23	1.35	1.02
2:Zh:88:THR:CG2	2:Zh:101:GLN:NE2	2.20	1.02
1:X:454:THR:HG22	2:Xh:138:ASP:HB3	1.42	1.01
2:Ah:39:LEU:HD12	2:Ah:100:LEU:HD23	1.34	1.01
1:Z:454:THR:HG22	2:Zh:138:ASP:HB3	1.42	1.01
1:i:454:THR:HG22	2:ih:138:ASP:HB3	1.42	1.01
1:n:454:THR:HG22	2:nh:138:ASP:HB3	1.41	1.01
1:q:454:THR:HG22	2:qh:138:ASP:HB3	1.42	1.01
1:8:454:THR:HG22	2:8h:138:ASP:HB3	1.42	1.01
2:Kh:57:ARG:HD3	2:Kh:113:TYR:OH	1.61	1.01
2:sh:39:LEU:HD12	2:sh:100:LEU:HD23	1.34	1.01
2:xh:57:ARG:HD3	2:xh:113:TYR:OH	1.61	1.01
1:c:454:THR:HG22	2:ch:138:ASP:HB3	1.42	1.01
1:j:454:THR:HG22	2:jh:138:ASP:HB3	1.42	1.01
2:Fh:57:ARG:HD3	2:Fh:113:TYR:OH	1.61	1.01
2:Xh:57:ARG:HD3	2:Xh:113:TYR:OH	1.61	1.01
2:Zh:57:ARG:HD3	2:Zh:113:TYR:OH	1.61	1.01
1:D:454:THR:HG22	2:Dh:138:ASP:HB3	1.42	1.01
1:E:454:THR:HG22	2:Eh:138:ASP:HB3	1.42	1.01
1:N:454:THR:HG22	2:Nh:138:ASP:HB3	1.42	1.01
1:V:454:THR:HG22	2:Vh:138:ASP:HB3	1.42	1.01
2:Jh:57:ARG:HD3	2:Jh:113:TYR:OH	1.61	1.01
2:Lh:57:ARG:HD3	2:Lh:113:TYR:OH	1.61	1.01
2:2h:57:ARG:HD3	2:2h:113:TYR:OH	1.61	1.01
2:6h:57:ARG:HD3	2:6h:113:TYR:OH	1.61	1.01
2:ih:57:ARG:HD3	2:ih:113:TYR:OH	1.61	1.01
2:sh:57:ARG:HD3	2:sh:113:TYR:OH	1.61	1.01
2:vh:57:ARG:HD3	2:vh:113:TYR:OH	1.61	1.01
2:8h:57:ARG:HD3	2:8h:113:TYR:OH	1.61	1.01
3:Cl:33:THR:HG22	3:Cl:34:PRO:HD2	1.43	1.01
3:al:33:THR:HG22	3:al:34:PRO:HD2	1.43	1.01
1:B:454:THR:HG22	2:Bh:138:ASP:HB3	1.42	1.00
1:P:489:SER:H	1:P:495:ASN:HD21	1.09	1.00
1:e:454:THR:HG22	2:eh:138:ASP:HB3	1.42	1.00
1:p:454:THR:HG22	2:ph:138:ASP:HB3	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Eh:57:ARG:HD3	2:Eh:113:TYR:OH	1.61	1.00
2:Mh:57:ARG:HD3	2:Mh:113:TYR:OH	1.61	1.00
2:Uh:57:ARG:HD3	2:Uh:113:TYR:OH	1.61	1.00
2:bh:57:ARG:HD3	2:bh:113:TYR:OH	1.61	1.00
2:qh:57:ARG:HD3	2:qh:113:TYR:OH	1.61	1.00
2:th:57:ARG:HD3	2:th:113:TYR:OH	1.61	1.00
3:Kl:33:THR:HG22	3:Kl:34:PRO:HD2	1.43	1.00
3:Ul:33:THR:HG22	3:Ul:34:PRO:HD2	1.43	1.00
3:3l:33:THR:HG22	3:3l:34:PRO:HD2	1.43	1.00
3:4l:33:THR:HG22	3:4l:34:PRO:HD2	1.43	1.00
3:5l:33:THR:HG22	3:5l:34:PRO:HD2	1.43	1.00
3:ml:33:THR:HG22	3:ml:34:PRO:HD2	1.43	1.00
3:ul:33:THR:HG22	3:ul:34:PRO:HD2	1.43	1.00
3:xl:33:THR:HG22	3:xl:34:PRO:HD2	1.43	1.00
1:B:587:ASN:HB2	3:Bl:87:ARG:NH1	1.77	1.00
1:d:489:SER:H	1:d:495:ASN:HD21	1.09	1.00
1:t:454:THR:HG22	2:th:138:ASP:HB3	1.41	1.00
1:u:454:THR:HG22	2:uh:138:ASP:HB3	1.42	1.00
1:u:587:ASN:HB2	3:ul:87:ARG:NH1	1.77	1.00
2:Oh:57:ARG:HD3	2:Oh:113:TYR:OH	1.61	1.00
2:Ph:57:ARG:HD3	2:Ph:113:TYR:OH	1.61	1.00
2:4h:57:ARG:HD3	2:4h:113:TYR:OH	1.61	1.00
2:fh:57:ARG:HD3	2:fh:113:TYR:OH	1.61	1.00
2:gh:57:ARG:HD3	2:gh:113:TYR:OH	1.61	1.00
2:hh:57:ARG:HD3	2:hh:113:TYR:OH	1.61	1.00
2:mh:57:ARG:HD3	2:mh:113:TYR:OH	1.61	1.00
3:hl:33:THR:HG22	3:hl:34:PRO:HD2	1.43	1.00
1:G:454:THR:HG22	2:Gh:138:ASP:HB3	1.42	1.00
1:Y:587:ASN:HB2	3:Yl:87:ARG:NH1	1.77	1.00
1:Z:587:ASN:HB2	3:Zl:87:ARG:NH1	1.77	1.00
1:m:454:THR:HG22	2:mh:138:ASP:HB3	1.41	1.00
1:w:454:THR:HG22	2:wh:138:ASP:HB3	1.42	1.00
1:8:587:ASN:HB2	3:8l:87:ARG:NH1	1.77	1.00
2:Gh:57:ARG:HD3	2:Gh:113:TYR:OH	1.61	1.00
2:Th:57:ARG:HD3	2:Th:113:TYR:OH	1.61	1.00
2:dh:57:ARG:HD3	2:dh:113:TYR:OH	1.61	1.00
3:Bl:33:THR:HG22	3:Bl:34:PRO:HD2	1.43	1.00
3:Hl:33:THR:HG22	3:Hl:34:PRO:HD2	1.43	1.00
3:Yl:33:THR:HG22	3:Yl:34:PRO:HD2	1.43	1.00
3:nl:33:THR:HG22	3:nl:34:PRO:HD2	1.43	1.00
3:yl:33:THR:HG22	3:yl:34:PRO:HD2	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:454:THR:HG22	2:Fh:138:ASP:HB3	1.43	1.00
1:L:454:THR:HG22	2:Lh:138:ASP:HB3	1.41	1.00
1:U:454:THR:HG22	2:Uh:138:ASP:HB3	1.41	1.00
1:1:454:THR:HG22	2:1h:138:ASP:HB3	1.43	1.00
1:n:587:ASN:HB2	3:nl:87:ARG:NH1	1.77	1.00
1:s:454:THR:HG22	2:sh:138:ASP:HB3	1.43	1.00
1:s:587:ASN:HB2	3:sl:87:ARG:NH1	1.77	1.00
1:7:587:ASN:HB2	3:7l:87:ARG:NH1	1.77	1.00
2:Hh:57:ARG:HD3	2:Hh:113:TYR:OH	1.61	1.00
2:nh:57:ARG:HD3	2:nh:113:TYR:OH	1.61	1.00
3:Gl:33:THR:HG22	3:Gl:34:PRO:HD2	1.43	1.00
3:7l:33:THR:HG22	3:7l:34:PRO:HD2	1.43	1.00
1:F:587:ASN:HB2	3:Fl:87:ARG:NH1	1.77	1.00
1:R:587:ASN:HB2	3:Rl:87:ARG:NH1	1.77	1.00
1:1:587:ASN:HB2	3:1l:87:ARG:NH1	1.77	1.00
2:lh:57:ARG:HD3	2:lh:113:TYR:OH	1.61	1.00
3:Ll:33:THR:HG22	3:Ll:34:PRO:HD2	1.43	1.00
2:Nh:57:ARG:HD3	2:Nh:113:TYR:OH	1.61	1.00
2:Sh:57:ARG:HD3	2:Sh:113:TYR:OH	1.61	1.00
2:Vh:57:ARG:HD3	2:Vh:113:TYR:OH	1.61	1.00
2:yh:57:ARG:HD3	2:yh:113:TYR:OH	1.61	1.00
3:Tl:33:THR:HG22	3:Tl:34:PRO:HD2	1.43	1.00
1:A:587:ASN:HB2	3:Al:87:ARG:NH1	1.77	1.00
1:D:587:ASN:HB2	3:Dl:87:ARG:NH1	1.77	1.00
1:I:454:THR:HG22	2:Ih:138:ASP:HB3	1.43	1.00
1:T:454:THR:HG22	2:Th:138:ASP:HB3	1.43	1.00
1:k:587:ASN:HB2	3:kl:87:ARG:NH1	1.77	1.00
2:Wh:57:ARG:HD3	2:Wh:113:TYR:OH	1.61	1.00
2:wh:57:ARG:HD3	2:wh:113:TYR:OH	1.61	1.00
2:zh:57:ARG:HD3	2:zh:113:TYR:OH	1.61	1.00
3:Jl:33:THR:HG22	3:Jl:34:PRO:HD2	1.43	1.00
3:ql:33:THR:HG22	3:ql:34:PRO:HD2	1.43	1.00
1:G:587:ASN:HB2	3:Gl:87:ARG:NH1	1.77	0.99
1:e:587:ASN:HB2	3:el:87:ARG:NH1	1.77	0.99
1:r:587:ASN:HB2	3:rl:87:ARG:NH1	1.77	0.99
2:Qh:57:ARG:HD3	2:Qh:113:TYR:OH	1.61	0.99
2:1h:57:ARG:HD3	2:1h:113:TYR:OH	1.61	0.99
2:jh:57:ARG:HD3	2:jh:113:TYR:OH	1.61	0.99
2:oh:57:ARG:HD3	2:oh:113:TYR:OH	1.61	0.99
3:El:33:THR:HG22	3:El:34:PRO:HD2	1.43	0.99
3:tl:33:THR:HG22	3:tl:34:PRO:HD2	1.43	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:vl:33:THR:HG22	3:vl:34:PRO:HD2	1.43	0.99
1:P:587:ASN:HB2	3:Pl:87:ARG:NH1	1.77	0.99
1:Q:587:ASN:HB2	3:Ql:87:ARG:NH1	1.77	0.99
1:d:587:ASN:HB2	3:dl:87:ARG:NH1	1.77	0.99
1:o:454:THR:HG22	2:oh:138:ASP:HB3	1.43	0.99
1:o:587:ASN:HB2	3:ol:87:ARG:NH1	1.77	0.99
1:w:587:ASN:HB2	3:wl:87:ARG:NH1	1.77	0.99
2:ch:57:ARG:HD3	2:ch:113:TYR:OH	1.61	0.99
3:gl:33:THR:HG22	3:gl:34:PRO:HD2	1.43	0.99
1:P:454:THR:HG22	2:Ph:138:ASP:HB3	1.42	0.99
1:l:587:ASN:HB2	3:ll:87:ARG:NH1	1.77	0.99
2:uh:57:ARG:HD3	2:uh:113:TYR:OH	1.61	0.99
1:I:587:ASN:HB2	3:Il:87:ARG:NH1	1.77	0.99
1:S:587:ASN:HB2	3:Sl:87:ARG:NH1	1.77	0.99
1:g:454:THR:HG22	2:gh:138:ASP:HB3	1.43	0.99
2:Bh:57:ARG:HD3	2:Bh:113:TYR:OH	1.61	0.99
2:Ih:57:ARG:HD3	2:Ih:113:TYR:OH	1.61	0.99
2:rh:57:ARG:HD3	2:rh:113:TYR:OH	1.61	0.99
3:il:33:THR:HG22	3:il:34:PRO:HD2	1.43	0.99
1:a:454:THR:HG22	2:ah:138:ASP:HB3	1.42	0.99
1:c:489:SER:H	1:c:495:ASN:HD21	1.09	0.99
1:d:454:THR:HG22	2:dh:138:ASP:HB3	1.42	0.99
1:m:587:ASN:HB2	3:ml:87:ARG:NH1	1.77	0.99
3:Xl:33:THR:HG22	3:Xl:34:PRO:HD2	1.43	0.99
3:dl:33:THR:HG22	3:dl:34:PRO:HD2	1.43	0.99
1:M:587:ASN:HB2	3:Ml:87:ARG:NH1	1.77	0.99
1:R:454:THR:HG22	2:Rh:138:ASP:HB3	1.42	0.99
2:Ch:57:ARG:HD3	2:Ch:113:TYR:OH	1.61	0.99
2:ah:57:ARG:HD3	2:ah:113:TYR:OH	1.61	0.99
3:Vl:33:THR:HG22	3:Vl:34:PRO:HD2	1.43	0.99
3:jl:33:THR:HG22	3:jl:34:PRO:HD2	1.43	0.99
1:N:587:ASN:HB2	3:Nl:87:ARG:NH1	1.77	0.99
1:f:454:THR:HG22	2:fh:138:ASP:HB3	1.42	0.99
2:Ah:57:ARG:HD3	2:Ah:113:TYR:OH	1.61	0.99
2:kh:57:ARG:HD3	2:kh:113:TYR:OH	1.61	0.99
3:Pl:33:THR:HG22	3:Pl:34:PRO:HD2	1.43	0.99
1:C:454:THR:HG22	2:Ch:138:ASP:HB3	1.42	0.99
1:U:587:ASN:HB2	3:Ul:87:ARG:NH1	1.77	0.99
1:5:454:THR:HG22	2:5h:138:ASP:HB3	1.42	0.99
1:b:587:ASN:HB2	3:bl:87:ARG:NH1	1.77	0.99
1:c:587:ASN:HB2	3:cl:87:ARG:NH1	1.77	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:587:ASN:HB2	3:yl:87:ARG:NH1	1.77	0.99
3:Fl:33:THR:HG22	3:Fl:34:PRO:HD2	1.43	0.99
1:N:489:SER:H	1:N:495:ASN:HD21	1.09	0.99
1:3:454:THR:HG22	2:3h:138:ASP:HB3	1.43	0.99
1:k:454:THR:HG22	2:kh:138:ASP:HB3	1.42	0.99
2:ph:57:ARG:HD3	2:ph:113:TYR:OH	1.61	0.99
1:H:587:ASN:HB2	3:Hl:87:ARG:NH1	1.77	0.99
1:O:454:THR:HG22	2:Oh:138:ASP:HB3	1.42	0.99
1:i:587:ASN:HB2	3:il:87:ARG:NH1	1.77	0.99
1:q:587:ASN:HB2	3:ql:87:ARG:NH1	1.77	0.99
1:y:454:THR:HG22	2:yh:138:ASP:HB3	1.42	0.99
2:Rh:57:ARG:HD3	2:Rh:113:TYR:OH	1.61	0.99
2:Yh:57:ARG:HD3	2:Yh:113:TYR:OH	1.61	0.99
3:sl:33:THR:HG22	3:sl:34:PRO:HD2	1.43	0.99
1:E:587:ASN:HB2	3:El:87:ARG:NH1	1.77	0.98
1:2:489:SER:H	1:2:495:ASN:HD21	1.09	0.98
2:3h:57:ARG:HD3	2:3h:113:TYR:OH	1.61	0.98
2:5h:57:ARG:HD3	2:5h:113:TYR:OH	1.61	0.98
3:Ql:33:THR:HG22	3:Ql:34:PRO:HD2	1.43	0.98
3:1l:33:THR:HG22	3:1l:34:PRO:HD2	1.43	0.98
3:rl:33:THR:HG22	3:rl:34:PRO:HD2	1.43	0.98
1:C:587:ASN:HB2	3:Cl:87:ARG:NH1	1.77	0.98
1:X:587:ASN:HB2	3:Xl:87:ARG:NH1	1.77	0.98
1:2:587:ASN:HB2	3:2l:87:ARG:NH1	1.77	0.98
1:H:454:THR:HG22	2:Hh:138:ASP:HB3	1.42	0.98
1:Q:454:THR:HG22	2:Qh:138:ASP:HB3	1.43	0.98
1:Y:489:SER:H	1:Y:495:ASN:HD21	1.09	0.98
3:wl:33:THR:HG22	3:wl:34:PRO:HD2	1.43	0.98
1:A:489:SER:H	1:A:495:ASN:HD21	1.09	0.98
1:g:587:ASN:HB2	3:gl:87:ARG:NH1	1.77	0.98
2:7h:57:ARG:HD3	2:7h:113:TYR:OH	1.61	0.98
1:6:489:SER:H	1:6:495:ASN:HD21	1.09	0.98
1:a:587:ASN:HB2	3:al:87:ARG:NH1	1.77	0.98
1:v:454:THR:HG22	2:vh:138:ASP:HB3	1.42	0.98
3:bl:33:THR:HG22	3:bl:34:PRO:HD2	1.43	0.98
3:kl:33:THR:HG22	3:kl:34:PRO:HD2	1.43	0.98
1:J:489:SER:H	1:J:495:ASN:HD21	1.09	0.98
1:T:587:ASN:HB2	3:Tl:87:ARG:NH1	1.77	0.98
1:Y:454:THR:HG22	2:Yh:138:ASP:HB3	1.42	0.98
1:4:454:THR:HG22	2:4h:138:ASP:HB3	1.42	0.98
1:r:454:THR:HG22	2:rh:138:ASP:HB3	1.43	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:454:THR:HG22	2:Jh:138:ASP:HB3	1.42	0.98
1:T:489:SER:H	1:T:495:ASN:HD21	1.09	0.98
1:v:489:SER:H	1:v:495:ASN:HD21	1.09	0.98
3:Ml:33:THR:HG22	3:Ml:34:PRO:HD2	1.43	0.98
3:Nl:33:THR:HG22	3:Nl:34:PRO:HD2	1.43	0.98
3:Rl:33:THR:HG22	3:Rl:34:PRO:HD2	1.43	0.98
1:O:587:ASN:HB2	3:Ol:87:ARG:NH1	1.77	0.98
1:f:587:ASN:HB2	3:fl:87:ARG:NH1	1.77	0.98
1:p:587:ASN:HB2	3:pl:87:ARG:NH1	1.77	0.98
1:x:587:ASN:HB2	3:xl:87:ARG:NH1	1.77	0.98
2:Dh:57:ARG:HD3	2:Dh:113:TYR:OH	1.61	0.98
2:Th:53:MET:O	2:Th:70:ILE:HG22	1.64	0.98
3:cl:33:THR:HG22	3:cl:34:PRO:HD2	1.43	0.98
1:h:454:THR:HG22	2:hh:138:ASP:HB3	1.42	0.98
1:p:489:SER:H	1:p:495:ASN:HD21	1.09	0.98
1:7:454:THR:HG22	2:7h:138:ASP:HB3	1.42	0.98
2:Gh:53:MET:O	2:Gh:70:ILE:HG22	1.64	0.98
2:Oh:53:MET:O	2:Oh:70:ILE:HG22	1.64	0.98
2:dh:53:MET:O	2:dh:70:ILE:HG22	1.64	0.98
1:K:587:ASN:HB2	3:Kl:87:ARG:NH1	1.77	0.98
1:V:587:ASN:HB2	3:Vl:87:ARG:NH1	1.77	0.98
1:W:587:ASN:HB2	3:Wl:87:ARG:NH1	1.77	0.98
1:j:587:ASN:HB2	3:jl:87:ARG:NH1	1.77	0.98
1:z:587:ASN:HB2	3:zl:87:ARG:NH1	1.77	0.98
1:7:489:SER:H	1:7:495:ASN:HD21	1.09	0.98
2:Fh:53:MET:O	2:Fh:70:ILE:HG22	1.64	0.98
2:Ph:53:MET:O	2:Ph:70:ILE:HG22	1.64	0.98
2:4h:53:MET:O	2:4h:70:ILE:HG22	1.64	0.98
2:fh:53:MET:O	2:fh:70:ILE:HG22	1.64	0.98
2:gh:53:MET:O	2:gh:70:ILE:HG22	1.64	0.98
2:qh:53:MET:O	2:qh:70:ILE:HG22	1.64	0.98
1:5:587:ASN:HB2	3:5l:87:ARG:NH1	1.77	0.97
2:Eh:53:MET:O	2:Eh:70:ILE:HG22	1.64	0.97
2:hh:53:MET:O	2:hh:70:ILE:HG22	1.64	0.97
2:nh:53:MET:O	2:nh:70:ILE:HG22	1.64	0.97
2:sh:53:MET:O	2:sh:70:ILE:HG22	1.64	0.97
3:zl:33:THR:HG22	3:zl:34:PRO:HD2	1.43	0.97
1:g:489:SER:H	1:g:495:ASN:HD21	1.09	0.97
1:h:587:ASN:HB2	3:hl:87:ARG:NH1	1.77	0.97
2:eh:57:ARG:HD3	2:eh:113:TYR:OH	1.61	0.97
3:6l:33:THR:HG22	3:6l:34:PRO:HD2	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:489:SER:H	1:s:495:ASN:HD21	1.09	0.97
2:Zh:53:MET:O	2:Zh:70:ILE:HG22	1.64	0.97
2:xh:53:MET:O	2:xh:70:ILE:HG22	1.64	0.97
1:3:587:ASN:HB2	3:3l:87:ARG:NH1	1.77	0.97
1:4:587:ASN:HB2	3:4l:87:ARG:NH1	1.77	0.97
3:Wl:33:THR:HG22	3:Wl:34:PRO:HD2	1.43	0.97
1:J:587:ASN:HB2	3:Jl:87:ARG:NH1	1.77	0.97
2:Kh:53:MET:O	2:Kh:70:ILE:HG22	1.64	0.97
2:Rh:53:MET:O	2:Rh:70:ILE:HG22	1.64	0.97
2:8h:53:MET:O	2:8h:70:ILE:HG22	1.64	0.97
3:2l:33:THR:HG22	3:2l:34:PRO:HD2	1.44	0.97
1:t:587:ASN:HB2	3:tl:87:ARG:NH1	1.77	0.97
2:Uh:53:MET:O	2:Uh:70:ILE:HG22	1.64	0.97
2:kh:53:MET:O	2:kh:70:ILE:HG22	1.64	0.97
2:mh:53:MET:O	2:mh:70:ILE:HG22	1.64	0.97
1:F:489:SER:H	1:F:495:ASN:HD21	1.09	0.97
2:Nh:53:MET:O	2:Nh:70:ILE:HG22	1.64	0.97
3:Ol:33:THR:HG22	3:Ol:34:PRO:HD2	1.43	0.97
3:Pl:60:LEU:HD23	3:Pl:105:ALA:HB2	1.47	0.97
3:fl:33:THR:HG22	3:fl:34:PRO:HD2	1.43	0.97
1:L:587:ASN:HB2	3:Ll:87:ARG:NH1	1.77	0.97
1:v:587:ASN:HB2	3:vl:87:ARG:NH1	1.77	0.97
3:dl:60:LEU:HD23	3:dl:105:ALA:HB2	1.47	0.97
3:8l:33:THR:HG22	3:8l:34:PRO:HD2	1.43	0.97
2:Lh:53:MET:O	2:Lh:70:ILE:HG22	1.64	0.97
2:Mh:53:MET:O	2:Mh:70:ILE:HG22	1.64	0.97
3:Bl:60:LEU:HD23	3:Bl:105:ALA:HB2	1.47	0.97
3:Zl:33:THR:HG22	3:Zl:34:PRO:HD2	1.43	0.97
3:sl:60:LEU:HD23	3:sl:105:ALA:HB2	1.47	0.97
3:ul:60:LEU:HD23	3:ul:105:ALA:HB2	1.47	0.97
1:b:489:SER:H	1:b:495:ASN:HD21	1.09	0.97
2:5h:53:MET:O	2:5h:70:ILE:HG22	1.64	0.97
2:bh:53:MET:O	2:bh:70:ILE:HG22	1.64	0.97
2:ch:53:MET:O	2:ch:70:ILE:HG22	1.64	0.97
3:Fl:60:LEU:HD23	3:Fl:105:ALA:HB2	1.47	0.97
1:2:454:THR:HG22	2:2h:138:ASP:HB3	1.42	0.96
2:Ih:53:MET:O	2:Ih:70:ILE:HG22	1.64	0.96
2:Sh:53:MET:O	2:Sh:70:ILE:HG22	1.64	0.96
2:3h:53:MET:O	2:3h:70:ILE:HG22	1.64	0.96
2:oh:53:MET:O	2:oh:70:ILE:HG22	1.64	0.96
2:th:53:MET:O	2:th:70:ILE:HG22	1.64	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:454:THR:HG22	2:Kh:138:ASP:HB3	1.43	0.96
1:M:489:SER:H	1:M:495:ASN:HD21	1.09	0.96
2:Hh:53:MET:O	2:Hh:70:ILE:HG22	1.64	0.96
2:eh:53:MET:O	2:eh:70:ILE:HG22	1.64	0.96
2:lh:53:MET:O	2:lh:70:ILE:HG22	1.64	0.96
2:rh:53:MET:O	2:rh:70:ILE:HG22	1.64	0.96
3:Vl:60:LEU:HD23	3:Vl:105:ALA:HB2	1.47	0.96
3:ol:33:THR:HG22	3:ol:34:PRO:HD2	1.43	0.96
2:Ch:53:MET:O	2:Ch:70:ILE:HG22	1.64	0.96
2:Dh:53:MET:O	2:Dh:70:ILE:HG22	1.64	0.96
2:Qh:53:MET:O	2:Qh:70:ILE:HG22	1.64	0.96
3:jl:60:LEU:HD23	3:jl:105:ALA:HB2	1.47	0.96
1:K:489:SER:H	1:K:495:ASN:HD21	1.09	0.96
1:U:489:SER:H	1:U:495:ASN:HD21	1.09	0.96
1:m:489:SER:H	1:m:495:ASN:HD21	1.09	0.96
2:ah:53:MET:O	2:ah:70:ILE:HG22	1.64	0.96
2:yh:53:MET:O	2:yh:70:ILE:HG22	1.64	0.96
1:S:489:SER:H	1:S:495:ASN:HD21	1.09	0.96
1:n:489:SER:H	1:n:495:ASN:HD21	1.09	0.96
2:Bh:53:MET:O	2:Bh:70:ILE:HG22	1.64	0.96
2:wh:53:MET:O	2:wh:70:ILE:HG22	1.64	0.96
3:Al:60:LEU:HD23	3:Al:105:ALA:HB2	1.47	0.96
3:Xl:60:LEU:HD23	3:Xl:105:ALA:HB2	1.47	0.96
3:il:60:LEU:HD23	3:il:105:ALA:HB2	1.47	0.96
3:pl:60:LEU:HD23	3:pl:105:ALA:HB2	1.47	0.96
1:h:489:SER:H	1:h:495:ASN:HD21	1.09	0.96
1:x:454:THR:HG22	2:xh:138:ASP:HB3	1.43	0.96
2:Xh:53:MET:O	2:Xh:70:ILE:HG22	1.64	0.96
2:1h:53:MET:O	2:1h:70:ILE:HG22	1.64	0.96
3:Il:33:THR:HG22	3:Il:34:PRO:HD2	1.43	0.96
1:A:454:THR:HG22	2:Ah:138:ASP:HB3	1.46	0.96
1:l:489:SER:H	1:l:495:ASN:HD21	1.09	0.96
1:6:587:ASN:HB2	3:6l:87:ARG:NH1	1.80	0.96
2:Wh:53:MET:O	2:Wh:70:ILE:HG22	1.64	0.96
2:uh:53:MET:O	2:uh:70:ILE:HG22	1.64	0.96
3:Al:33:THR:HG22	3:Al:34:PRO:HD2	1.43	0.96
1:F:587:ASN:CB	3:Fl:87:ARG:NH1	2.29	0.96
1:G:489:SER:H	1:G:495:ASN:HD21	1.09	0.96
1:s:587:ASN:CB	3:sl:87:ARG:NH1	2.29	0.96
1:x:489:SER:H	1:x:495:ASN:HD21	1.09	0.96
2:ih:53:MET:O	2:ih:70:ILE:HG22	1.64	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:zh:53:MET:O	2:zh:70:ILE:HG22	1.64	0.96
1:p:587:ASN:CB	3:pl:87:ARG:NH1	2.29	0.96
3:pl:33:THR:HG22	3:pl:34:PRO:HD2	1.43	0.96
1:M:587:ASN:CB	3:Ml:87:ARG:NH1	2.29	0.95
1:X:587:ASN:CB	3:Xl:87:ARG:NH1	2.29	0.95
1:1:587:ASN:CB	3:1l:87:ARG:NH1	2.29	0.95
1:b:587:ASN:CB	3:bl:87:ARG:NH1	2.29	0.95
1:i:587:ASN:CB	3:il:87:ARG:NH1	2.29	0.95
1:L:587:ASN:CB	3:Ll:87:ARG:NH1	2.30	0.95
1:W:587:ASN:CB	3:Wl:87:ARG:NH1	2.29	0.95
1:6:454:THR:HG22	2:6h:138:ASP:HB3	1.45	0.95
1:t:587:ASN:CB	3:tl:87:ARG:NH1	2.30	0.95
2:Yh:53:MET:O	2:Yh:70:ILE:HG22	1.64	0.95
3:pl:107:TYR:HE2	3:pl:126:VAL:HG21	1.32	0.95
1:o:587:ASN:CB	3:ol:87:ARG:NH1	2.30	0.95
2:7h:53:MET:O	2:7h:70:ILE:HG22	1.64	0.95
3:Al:107:TYR:HE2	3:Al:126:VAL:HG21	1.32	0.95
3:Nl:60:LEU:HD23	3:Nl:105:ALA:HB2	1.47	0.95
3:ll:107:TYR:HE2	3:ll:126:VAL:HG21	1.32	0.95
1:I:587:ASN:CB	3:Il:87:ARG:NH1	2.30	0.95
1:4:489:SER:H	1:4:495:ASN:HD21	1.09	0.95
1:z:587:ASN:CB	3:zl:87:ARG:NH1	2.30	0.95
2:2h:53:MET:O	2:2h:70:ILE:HG22	1.64	0.95
3:Pl:107:TYR:HE2	3:Pl:126:VAL:HG21	1.32	0.95
3:Sl:107:TYR:HE2	3:Sl:126:VAL:HG21	1.32	0.95
3:xl:60:LEU:HD23	3:xl:105:ALA:HB2	1.47	0.95
1:E:587:ASN:CB	3:El:87:ARG:NH1	2.29	0.95
1:O:587:ASN:CB	3:Ol:87:ARG:NH1	2.29	0.95
1:q:587:ASN:CB	3:ql:87:ARG:NH1	2.29	0.95
3:Kl:60:LEU:HD23	3:Kl:105:ALA:HB2	1.47	0.95
3:Sl:33:THR:HG22	3:Sl:34:PRO:HD2	1.43	0.95
3:cl:60:LEU:HD23	3:cl:105:ALA:HB2	1.47	0.95
3:tl:60:LEU:HD23	3:tl:105:ALA:HB2	1.47	0.95
1:R:587:ASN:CB	3:Rl:87:ARG:NH1	2.30	0.95
1:f:587:ASN:CB	3:fl:87:ARG:NH1	2.29	0.95
1:g:587:ASN:CB	3:gl:87:ARG:NH1	2.30	0.95
1:k:587:ASN:CB	3:kl:87:ARG:NH1	2.30	0.95
2:Jh:53:MET:O	2:Jh:70:ILE:HG22	1.64	0.95
3:Dl:33:THR:HG22	3:Dl:34:PRO:HD2	1.43	0.95
3:Ll:60:LEU:HD23	3:Ll:105:ALA:HB2	1.47	0.95
3:2l:60:LEU:HD23	3:2l:105:ALA:HB2	1.47	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4l:60:LEU:HD23	3:4l:105:ALA:HB2	1.47	0.95
3:dl:107:TYR:HE2	3:dl:126:VAL:HG21	1.32	0.95
3:hl:60:LEU:HD23	3:hl:105:ALA:HB2	1.47	0.95
1:J:587:ASN:CB	3:Jl:87:ARG:NH1	2.30	0.95
1:N:587:ASN:CB	3:Nl:87:ARG:NH1	2.29	0.95
1:Y:587:ASN:CB	3:Yl:87:ARG:NH1	2.29	0.95
1:2:587:ASN:CB	3:2l:87:ARG:NH1	2.29	0.95
1:w:587:ASN:CB	3:wl:87:ARG:NH1	2.30	0.95
2:6h:53:MET:O	2:6h:70:ILE:HG22	1.64	0.95
1:T:587:ASN:CB	3:Tl:87:ARG:NH1	2.30	0.95
1:c:587:ASN:CB	3:cl:87:ARG:NH1	2.29	0.95
1:m:587:ASN:CB	3:ml:87:ARG:NH1	2.30	0.95
1:v:587:ASN:CB	3:vl:87:ARG:NH1	2.30	0.95
1:7:587:ASN:CB	3:7l:87:ARG:NH1	2.29	0.95
2:Vh:53:MET:O	2:Vh:70:ILE:HG22	1.64	0.95
3:Ol:60:LEU:HD23	3:Ol:105:ALA:HB2	1.47	0.95
3:6l:60:LEU:HD23	3:6l:105:ALA:HB2	1.47	0.95
3:el:33:THR:HG22	3:el:34:PRO:HD2	1.43	0.95
1:V:587:ASN:CB	3:Vl:87:ARG:NH1	2.30	0.95
2:jh:53:MET:O	2:jh:70:ILE:HG22	1.64	0.95
3:Ml:60:LEU:HD23	3:Ml:105:ALA:HB2	1.47	0.95
1:U:587:ASN:CB	3:Ul:87:ARG:NH1	2.30	0.95
1:d:587:ASN:CB	3:dl:87:ARG:NH1	2.30	0.95
1:w:489:SER:H	1:w:495:ASN:HD21	1.09	0.95
2:vh:53:MET:O	2:vh:70:ILE:HG22	1.64	0.95
3:Ql:60:LEU:HD23	3:Ql:105:ALA:HB2	1.47	0.95
3:fl:60:LEU:HD23	3:fl:105:ALA:HB2	1.47	0.95
3:ll:33:THR:HG22	3:ll:34:PRO:HD2	1.43	0.95
1:B:587:ASN:CB	3:Bl:87:ARG:NH1	2.30	0.94
1:D:587:ASN:CB	3:Dl:87:ARG:NH1	2.29	0.94
1:P:587:ASN:CB	3:Pl:87:ARG:NH1	2.30	0.94
1:Q:587:ASN:CB	3:Ql:87:ARG:NH1	2.30	0.94
1:5:587:ASN:CB	3:5l:87:ARG:NH1	2.29	0.94
1:i:489:SER:H	1:i:495:ASN:HD21	1.09	0.94
1:j:587:ASN:CB	3:jl:87:ARG:NH1	2.30	0.94
3:Hl:60:LEU:HD23	3:Hl:105:ALA:HB2	1.47	0.94
3:vl:60:LEU:HD23	3:vl:105:ALA:HB2	1.47	0.94
1:G:587:ASN:CB	3:Gl:87:ARG:NH1	2.29	0.94
1:X:489:SER:H	1:X:495:ASN:HD21	1.09	0.94
1:l:587:ASN:CB	3:ll:87:ARG:NH1	2.30	0.94
1:r:587:ASN:CB	3:rl:87:ARG:NH1	2.30	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:587:ASN:CB	3:ul:87:ARG:NH1	2.30	0.94
2:ph:53:MET:O	2:ph:70:ILE:HG22	1.64	0.94
3:bl:60:LEU:HD23	3:bl:105:ALA:HB2	1.47	0.94
3:yl:60:LEU:HD23	3:yl:105:ALA:HB2	1.47	0.94
1:S:587:ASN:CB	3:Sl:87:ARG:NH1	2.30	0.94
1:1:489:SER:H	1:1:495:ASN:HD21	1.09	0.94
1:e:587:ASN:CB	3:el:87:ARG:NH1	2.29	0.94
1:h:587:ASN:CB	3:hl:87:ARG:NH1	2.30	0.94
1:n:587:ASN:CB	3:nl:87:ARG:NH1	2.29	0.94
3:Ml:107:TYR:HE2	3:Ml:126:VAL:HG21	1.32	0.94
3:nl:60:LEU:HD23	3:nl:105:ALA:HB2	1.47	0.94
1:3:587:ASN:CB	3:3l:87:ARG:NH1	2.30	0.94
1:4:587:ASN:CB	3:4l:87:ARG:NH1	2.30	0.94
3:Jl:60:LEU:HD23	3:Jl:105:ALA:HB2	1.47	0.94
3:bl:107:TYR:HE2	3:bl:126:VAL:HG21	1.32	0.94
3:kl:60:LEU:HD23	3:kl:105:ALA:HB2	1.47	0.94
3:rl:60:LEU:HD23	3:rl:105:ALA:HB2	1.47	0.94
3:wl:60:LEU:HD23	3:wl:105:ALA:HB2	1.47	0.94
3:7l:107:TYR:HE2	3:7l:126:VAL:HG21	1.32	0.94
1:r:489:SER:H	1:r:495:ASN:HD21	1.09	0.94
2:Ah:53:MET:O	2:Ah:70:ILE:HG22	1.64	0.94
3:Dl:60:LEU:HD23	3:Dl:105:ALA:HB2	1.47	0.94
3:Rl:60:LEU:HD23	3:Rl:105:ALA:HB2	1.47	0.94
3:Yl:107:TYR:HE2	3:Yl:126:VAL:HG21	1.32	0.94
3:1l:60:LEU:HD23	3:1l:105:ALA:HB2	1.47	0.94
3:al:60:LEU:HD23	3:al:105:ALA:HB2	1.47	0.94
3:el:60:LEU:HD23	3:el:105:ALA:HB2	1.47	0.94
1:E:489:SER:H	1:E:495:ASN:HD21	1.09	0.94
1:H:489:SER:H	1:H:495:ASN:HD21	1.09	0.94
1:H:587:ASN:CB	3:Hl:87:ARG:NH1	2.30	0.94
1:8:587:ASN:CB	3:8l:87:ARG:NH1	2.29	0.94
3:Gl:60:LEU:HD23	3:Gl:105:ALA:HB2	1.47	0.94
3:Tl:60:LEU:HD23	3:Tl:105:ALA:HB2	1.47	0.94
3:zl:107:TYR:HE2	3:zl:126:VAL:HG21	1.32	0.94
1:q:489:SER:H	1:q:495:ASN:HD21	1.09	0.94
3:Cl:60:LEU:HD23	3:Cl:105:ALA:HB2	1.47	0.94
3:Cl:107:TYR:HE2	3:Cl:126:VAL:HG21	1.31	0.94
3:Sl:60:LEU:HD23	3:Sl:105:ALA:HB2	1.47	0.94
3:5l:107:TYR:HE2	3:5l:126:VAL:HG21	1.32	0.94
3:gl:60:LEU:HD23	3:gl:105:ALA:HB2	1.47	0.94
1:Q:489:SER:H	1:Q:495:ASN:HD21	1.09	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:587:ASN:CB	3:Zl:87:ARG:NH1	2.29	0.94
1:y:489:SER:H	1:y:495:ASN:HD21	1.09	0.94
1:y:587:ASN:CB	3:yl:87:ARG:NH1	2.30	0.94
3:Fl:107:TYR:HE2	3:Fl:126:VAL:HG21	1.32	0.94
3:Wl:107:TYR:HE2	3:Wl:126:VAL:HG21	1.32	0.94
3:3l:107:TYR:HE2	3:3l:126:VAL:HG21	1.32	0.94
3:al:107:TYR:HE2	3:al:126:VAL:HG21	1.31	0.94
3:ll:60:LEU:HD23	3:ll:105:ALA:HB2	1.47	0.94
3:8l:60:LEU:HD23	3:8l:105:ALA:HB2	1.47	0.94
3:Zl:60:LEU:HD23	3:Zl:105:ALA:HB2	1.47	0.94
3:Ol:107:TYR:HE2	3:Ol:126:VAL:HG21	1.32	0.94
3:fl:107:TYR:HE2	3:fl:126:VAL:HG21	1.32	0.93
3:sl:107:TYR:HE2	3:sl:126:VAL:HG21	1.32	0.93
1:C:587:ASN:CB	3:Cl:87:ARG:NH1	2.30	0.93
1:D:489:SER:H	1:D:495:ASN:HD21	1.09	0.93
1:a:587:ASN:CB	3:al:87:ARG:NH1	2.30	0.93
1:K:587:ASN:CB	3:Kl:87:ARG:NH1	2.30	0.93
1:t:489:SER:H	1:t:495:ASN:HD21	1.09	0.93
1:x:587:ASN:CB	3:xl:87:ARG:NH1	2.30	0.93
3:Zl:107:TYR:HE2	3:Zl:126:VAL:HG21	1.32	0.93
3:jl:107:TYR:HE2	3:jl:126:VAL:HG21	1.31	0.93
3:8l:107:TYR:HE2	3:8l:126:VAL:HG21	1.32	0.93
3:Ql:107:TYR:HE2	3:Ql:126:VAL:HG21	1.31	0.93
3:1l:107:TYR:HE2	3:1l:126:VAL:HG21	1.32	0.93
3:hl:107:TYR:HE2	3:hl:126:VAL:HG21	1.32	0.93
3:ql:60:LEU:HD23	3:ql:105:ALA:HB2	1.47	0.93
3:7l:60:LEU:HD23	3:7l:105:ALA:HB2	1.47	0.93
1:j:489:SER:H	1:j:495:ASN:HD21	1.09	0.93
3:wl:107:TYR:HE2	3:wl:126:VAL:HG21	1.32	0.93
1:V:489:SER:H	1:V:495:ASN:HD21	1.09	0.93
3:Il:107:TYR:HE2	3:Il:126:VAL:HG21	1.31	0.93
3:Jl:107:TYR:HE2	3:Jl:126:VAL:HG21	1.32	0.93
3:Rl:107:TYR:HE2	3:Rl:126:VAL:HG21	1.32	0.93
3:ol:107:TYR:HE2	3:ol:126:VAL:HG21	1.31	0.93
3:xl:107:TYR:HE2	3:xl:126:VAL:HG21	1.32	0.93
3:Kl:107:TYR:HE2	3:Kl:126:VAL:HG21	1.31	0.93
3:Vl:107:TYR:HE2	3:Vl:126:VAL:HG21	1.31	0.93
3:Yl:60:LEU:HD23	3:Yl:105:ALA:HB2	1.47	0.93
3:4l:107:TYR:HE2	3:4l:126:VAL:HG21	1.32	0.93
3:5l:60:LEU:HD23	3:5l:105:ALA:HB2	1.47	0.93
3:kl:107:TYR:HE2	3:kl:126:VAL:HG21	1.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:489:SER:H	1:L:495:ASN:HD21	1.09	0.93
3:Dl:107:TYR:HE2	3:Dl:126:VAL:HG21	1.32	0.93
3:El:60:LEU:HD23	3:El:105:ALA:HB2	1.47	0.93
3:el:107:TYR:HE2	3:el:126:VAL:HG21	1.32	0.93
3:il:107:TYR:HE2	3:il:126:VAL:HG21	1.32	0.93
3:rl:107:TYR:HE2	3:rl:126:VAL:HG21	1.31	0.93
3:Xl:107:TYR:HE2	3:Xl:126:VAL:HG21	1.32	0.93
1:6:587:ASN:CB	3:6l:87:ARG:NH1	2.32	0.93
1:e:489:SER:H	1:e:495:ASN:HD21	1.09	0.93
3:El:107:TYR:HE2	3:El:126:VAL:HG21	1.32	0.93
3:Hl:107:TYR:HE2	3:Hl:126:VAL:HG21	1.32	0.93
3:ql:107:TYR:HE2	3:ql:126:VAL:HG21	1.32	0.93
3:vl:107:TYR:HE2	3:vl:126:VAL:HG21	1.32	0.93
3:3l:60:LEU:HD23	3:3l:105:ALA:HB2	1.47	0.92
1:k:489:SER:H	1:k:495:ASN:HD21	1.09	0.92
1:C:489:SER:H	1:C:495:ASN:HD21	1.09	0.92
3:Il:60:LEU:HD23	3:Il:105:ALA:HB2	1.47	0.92
3:Ul:60:LEU:HD23	3:Ul:105:ALA:HB2	1.47	0.92
3:yl:107:TYR:HE2	3:yl:126:VAL:HG21	1.32	0.92
1:W:489:SER:H	1:W:495:ASN:HD21	1.09	0.92
1:a:489:SER:H	1:a:495:ASN:HD21	1.09	0.92
3:Nl:107:TYR:HE2	3:Nl:126:VAL:HG21	1.32	0.92
3:ml:60:LEU:HD23	3:ml:105:ALA:HB2	1.47	0.92
3:Ul:107:TYR:HE2	3:Ul:126:VAL:HG21	1.32	0.92
3:gl:107:TYR:HE2	3:gl:126:VAL:HG21	1.32	0.92
1:R:489:SER:H	1:R:495:ASN:HD21	1.09	0.92
3:ml:107:TYR:HE2	3:ml:126:VAL:HG21	1.32	0.92
3:ol:60:LEU:HD23	3:ol:105:ALA:HB2	1.47	0.92
1:o:489:SER:H	1:o:495:ASN:HD21	1.09	0.92
3:Ll:107:TYR:HE2	3:Ll:126:VAL:HG21	1.32	0.92
3:Wl:60:LEU:HD23	3:Wl:105:ALA:HB2	1.47	0.92
3:Tl:107:TYR:HE2	3:Tl:126:VAL:HG21	1.32	0.92
3:cl:107:TYR:HE2	3:cl:126:VAL:HG21	1.32	0.92
1:z:489:SER:H	1:z:495:ASN:HD21	1.09	0.91
3:zl:60:LEU:HD23	3:zl:105:ALA:HB2	1.47	0.91
1:I:489:SER:H	1:I:495:ASN:HD21	1.09	0.91
1:3:489:SER:H	1:3:495:ASN:HD21	1.09	0.91
1:5:489:SER:H	1:5:495:ASN:HD21	1.09	0.91
3:tl:107:TYR:HE2	3:tl:126:VAL:HG21	1.32	0.91
1:u:489:SER:H	1:u:495:ASN:HD21	1.09	0.91
3:Gl:107:TYR:HE2	3:Gl:126:VAL:HG21	1.32	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ul:107:TYR:HE2	3:ul:126:VAL:HG21	1.32	0.91
3:Bl:107:TYR:HE2	3:Bl:126:VAL:HG21	1.32	0.91
3:nl:107:TYR:HE2	3:nl:126:VAL:HG21	1.32	0.91
1:A:587:ASN:CB	3:Al:87:ARG:NH1	2.34	0.91
2:Fh:86:ARG:HG3	2:Fh:103:ASN:O	1.71	0.91
2:sh:86:ARG:HG3	2:sh:103:ASN:O	1.71	0.91
2:vh:86:ARG:HG3	2:vh:103:ASN:O	1.71	0.91
2:Jh:86:ARG:HG3	2:Jh:103:ASN:O	1.71	0.90
2:Rh:86:ARG:HG3	2:Rh:103:ASN:O	1.71	0.90
2:kh:86:ARG:HG3	2:kh:103:ASN:O	1.71	0.90
3:2l:107:TYR:HE2	3:2l:126:VAL:HG21	1.32	0.90
2:Uh:53:MET:HB3	2:Uh:98:LEU:HD22	1.54	0.90
2:hh:86:ARG:HG3	2:hh:103:ASN:O	1.71	0.90
1:B:489:SER:H	1:B:495:ASN:HD21	1.09	0.90
2:ih:53:MET:HB3	2:ih:98:LEU:HD22	1.54	0.90
2:mh:53:MET:HB3	2:mh:98:LEU:HD22	1.54	0.90
2:Ch:86:ARG:HG3	2:Ch:103:ASN:O	1.72	0.90
2:Gh:86:ARG:HG3	2:Gh:103:ASN:O	1.71	0.90
2:Xh:53:MET:HB3	2:Xh:98:LEU:HD22	1.54	0.90
2:4h:86:ARG:HG3	2:4h:103:ASN:O	1.71	0.90
2:hh:53:MET:HB3	2:hh:98:LEU:HD22	1.54	0.90
2:4h:53:MET:HB3	2:4h:98:LEU:HD22	1.54	0.90
2:nh:86:ARG:HG3	2:nh:103:ASN:O	1.71	0.90
3:6l:107:TYR:HE2	3:6l:126:VAL:HG21	1.32	0.90
2:Nh:86:ARG:HG3	2:Nh:103:ASN:O	1.71	0.90
2:ah:86:ARG:HG3	2:ah:103:ASN:O	1.72	0.90
2:Ah:86:ARG:HG3	2:Ah:103:ASN:O	1.71	0.90
2:Ih:86:ARG:HG3	2:Ih:103:ASN:O	1.72	0.90
2:1h:53:MET:HB3	2:1h:98:LEU:HD22	1.54	0.90
2:ch:86:ARG:HG3	2:ch:103:ASN:O	1.71	0.90
2:th:86:ARG:HG3	2:th:103:ASN:O	1.71	0.90
2:2h:86:ARG:HG3	2:2h:103:ASN:O	1.71	0.90
2:oh:86:ARG:HG3	2:oh:103:ASN:O	1.72	0.90
2:xh:53:MET:HB3	2:xh:98:LEU:HD22	1.54	0.90
2:Kh:53:MET:HB3	2:Kh:98:LEU:HD22	1.54	0.90
2:Lh:86:ARG:HG3	2:Lh:103:ASN:O	1.71	0.90
2:Th:86:ARG:HG3	2:Th:103:ASN:O	1.72	0.90
2:6h:86:ARG:HG3	2:6h:103:ASN:O	1.71	0.90
2:gh:86:ARG:HG3	2:gh:103:ASN:O	1.72	0.90
2:jh:86:ARG:HG3	2:jh:103:ASN:O	1.71	0.90
2:wh:53:MET:HB3	2:wh:98:LEU:HD22	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:489:SER:H	1:O:495:ASN:HD21	1.09	0.90
1:Z:489:SER:H	1:Z:495:ASN:HD21	1.09	0.90
2:lh:86:ARG:HG3	2:lh:103:ASN:O	1.71	0.90
2:ph:86:ARG:HG3	2:ph:103:ASN:O	1.71	0.90
2:uh:86:ARG:HG3	2:uh:103:ASN:O	1.71	0.90
2:Vh:86:ARG:HG3	2:Vh:103:ASN:O	1.72	0.89
2:ih:86:ARG:HG3	2:ih:103:ASN:O	1.71	0.89
1:k:457:GLN:HA	2:kh:121:GLN:O	1.72	0.89
2:Bh:86:ARG:HG3	2:Bh:103:ASN:O	1.71	0.89
2:Sh:86:ARG:HG3	2:Sh:103:ASN:O	1.71	0.89
2:ch:53:MET:HB3	2:ch:98:LEU:HD22	1.54	0.89
1:R:457:GLN:HA	2:Rh:121:GLN:O	1.72	0.89
1:U:457:GLN:HA	2:Uh:121:GLN:O	1.72	0.89
1:m:457:GLN:HA	2:mh:121:GLN:O	1.72	0.89
2:Dh:86:ARG:HG3	2:Dh:103:ASN:O	1.71	0.89
2:Ih:53:MET:HB3	2:Ih:98:LEU:HD22	1.54	0.89
2:Nh:53:MET:HB3	2:Nh:98:LEU:HD22	1.54	0.89
2:Xh:86:ARG:HG3	2:Xh:103:ASN:O	1.71	0.89
2:oh:53:MET:HB3	2:oh:98:LEU:HD22	1.54	0.89
1:n:457:GLN:HA	2:nh:121:GLN:O	1.72	0.89
2:xh:86:ARG:HG3	2:xh:103:ASN:O	1.72	0.89
2:yh:86:ARG:HG3	2:yh:103:ASN:O	1.71	0.89
1:B:457:GLN:HA	2:Bh:121:GLN:O	1.72	0.89
1:u:457:GLN:HA	2:uh:121:GLN:O	1.72	0.89
2:Bh:53:MET:HB3	2:Bh:98:LEU:HD22	1.54	0.89
2:eh:86:ARG:HG3	2:eh:103:ASN:O	1.71	0.89
2:fh:86:ARG:HG3	2:fh:103:ASN:O	1.71	0.89
1:f:489:SER:H	1:f:495:ASN:HD21	1.09	0.89
2:Ch:53:MET:HB3	2:Ch:98:LEU:HD22	1.54	0.89
2:Hh:86:ARG:HG3	2:Hh:103:ASN:O	1.71	0.89
2:Kh:86:ARG:HG3	2:Kh:103:ASN:O	1.72	0.89
2:Mh:86:ARG:HG3	2:Mh:103:ASN:O	1.71	0.89
2:Oh:86:ARG:HG3	2:Oh:103:ASN:O	1.71	0.89
2:3h:53:MET:HB3	2:3h:98:LEU:HD22	1.54	0.89
2:5h:53:MET:HB3	2:5h:98:LEU:HD22	1.54	0.89
2:bh:86:ARG:HG3	2:bh:103:ASN:O	1.71	0.89
2:dh:53:MET:HB3	2:dh:98:LEU:HD22	1.54	0.89
2:7h:53:MET:HB3	2:7h:98:LEU:HD22	1.54	0.89
2:8h:86:ARG:HG3	2:8h:103:ASN:O	1.71	0.89
2:Ph:53:MET:HB3	2:Ph:98:LEU:HD22	1.54	0.89
2:Zh:86:ARG:HG3	2:Zh:103:ASN:O	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:uh:53:MET:HB3	2:uh:98:LEU:HD22	1.54	0.89
1:8:489:SER:H	1:8:495:ASN:HD21	1.09	0.89
2:Eh:86:ARG:HG3	2:Eh:103:ASN:O	1.71	0.89
2:Qh:86:ARG:HG3	2:Qh:103:ASN:O	1.72	0.89
2:Yh:53:MET:HB3	2:Yh:98:LEU:HD22	1.54	0.89
2:3h:86:ARG:HG3	2:3h:103:ASN:O	1.71	0.89
2:5h:86:ARG:HG3	2:5h:103:ASN:O	1.71	0.89
2:ah:53:MET:HB3	2:ah:98:LEU:HD22	1.54	0.89
2:8h:53:MET:HB3	2:8h:98:LEU:HD22	1.54	0.89
1:E:457:GLN:HA	2:Eh:121:GLN:O	1.73	0.89
1:q:457:GLN:HA	2:qh:121:GLN:O	1.73	0.89
2:Yh:86:ARG:HG3	2:Yh:103:ASN:O	1.71	0.89
2:Zh:53:MET:HB3	2:Zh:98:LEU:HD22	1.54	0.89
2:th:53:MET:HB3	2:th:98:LEU:HD22	1.54	0.89
2:wh:86:ARG:HG3	2:wh:103:ASN:O	1.71	0.89
1:C:457:GLN:HA	2:Ch:121:GLN:O	1.73	0.88
1:c:457:GLN:HA	2:ch:121:GLN:O	1.73	0.88
2:Ah:53:MET:HB3	2:Ah:98:LEU:HD22	1.54	0.88
2:Lh:53:MET:HB3	2:Lh:98:LEU:HD22	1.54	0.88
2:Mh:53:MET:HB3	2:Mh:98:LEU:HD22	1.54	0.88
2:Th:53:MET:HB3	2:Th:98:LEU:HD22	1.54	0.88
2:1h:86:ARG:HG3	2:1h:103:ASN:O	1.71	0.88
2:qh:86:ARG:HG3	2:qh:103:ASN:O	1.71	0.88
1:I:457:GLN:HA	2:Ih:121:GLN:O	1.73	0.88
1:N:457:GLN:HA	2:Nh:121:GLN:O	1.73	0.88
1:o:457:GLN:HA	2:oh:121:GLN:O	1.73	0.88
2:Qh:53:MET:HB3	2:Qh:98:LEU:HD22	1.54	0.88
2:bh:53:MET:HB3	2:bh:98:LEU:HD22	1.54	0.88
2:eh:53:MET:HB3	2:eh:98:LEU:HD22	1.54	0.88
2:gh:53:MET:HB3	2:gh:98:LEU:HD22	1.54	0.88
2:qh:53:MET:HB3	2:qh:98:LEU:HD22	1.54	0.88
2:rh:53:MET:HB3	2:rh:98:LEU:HD22	1.54	0.88
2:rh:86:ARG:HG3	2:rh:103:ASN:O	1.72	0.88
1:O:457:GLN:HA	2:Oh:121:GLN:O	1.73	0.88
1:a:457:GLN:HA	2:ah:121:GLN:O	1.73	0.88
1:f:457:GLN:HA	2:fh:121:GLN:O	1.73	0.88
1:v:457:GLN:HA	2:vh:121:GLN:O	1.73	0.88
2:Dh:53:MET:HB3	2:Dh:98:LEU:HD22	1.54	0.88
2:Uh:86:ARG:HG3	2:Uh:103:ASN:O	1.71	0.88
2:7h:86:ARG:HG3	2:7h:103:ASN:O	1.71	0.88
1:L:457:GLN:HA	2:Lh:121:GLN:O	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:457:GLN:HA	2:lh:121:GLN:O	1.73	0.88
1:7:457:GLN:HA	2:7h:121:GLN:O	1.73	0.88
2:Ph:86:ARG:HG3	2:Ph:103:ASN:O	1.71	0.88
2:6h:53:MET:HB3	2:6h:98:LEU:HD22	1.54	0.88
2:dh:86:ARG:HG3	2:dh:103:ASN:O	1.71	0.88
1:H:457:GLN:HA	2:Hh:121:GLN:O	1.73	0.88
1:J:457:GLN:HA	2:Jh:121:GLN:O	1.73	0.88
1:S:457:GLN:HA	2:Sh:121:GLN:O	1.73	0.88
1:Y:457:GLN:HA	2:Yh:121:GLN:O	1.73	0.88
1:t:457:GLN:HA	2:th:121:GLN:O	1.72	0.88
2:Eh:53:MET:HB3	2:Eh:98:LEU:HD22	1.54	0.88
2:2h:53:MET:HB3	2:2h:98:LEU:HD22	1.54	0.88
2:mh:86:ARG:HG3	2:mh:103:ASN:O	1.71	0.88
2:ph:53:MET:HB3	2:ph:98:LEU:HD22	1.54	0.88
1:w:457:GLN:HA	2:wh:121:GLN:O	1.73	0.88
2:Gh:53:MET:HB3	2:Gh:98:LEU:HD22	1.54	0.88
2:Hh:53:MET:HB3	2:Hh:98:LEU:HD22	1.54	0.88
2:yh:53:MET:HB3	2:yh:98:LEU:HD22	1.54	0.88
1:G:457:GLN:HA	2:Gh:121:GLN:O	1.74	0.88
1:5:457:GLN:HA	2:5h:121:GLN:O	1.74	0.88
1:y:457:GLN:HA	2:yh:121:GLN:O	1.73	0.88
2:Sh:53:MET:HB3	2:Sh:98:LEU:HD22	1.54	0.88
2:lh:53:MET:HB3	2:lh:98:LEU:HD22	1.54	0.88
1:M:457:GLN:HA	2:Mh:121:GLN:O	1.73	0.88
1:e:457:GLN:HA	2:eh:121:GLN:O	1.73	0.88
2:Uh:72:TYR:HA	2:Uh:91:ARG:NH1	1.89	0.88
2:mh:72:TYR:HA	2:mh:91:ARG:NH1	1.89	0.88
2:nh:53:MET:HB3	2:nh:98:LEU:HD22	1.54	0.88
2:zh:86:ARG:HG3	2:zh:103:ASN:O	1.71	0.88
1:D:457:GLN:HA	2:Dh:121:GLN:O	1.73	0.88
1:i:457:GLN:HA	2:ih:121:GLN:O	1.73	0.88
2:Ah:72:TYR:HA	2:Ah:91:ARG:NH1	1.89	0.88
2:ph:72:TYR:HA	2:ph:91:ARG:NH1	1.89	0.88
1:X:457:GLN:HA	2:Xh:121:GLN:O	1.73	0.88
1:3:457:GLN:HA	2:3h:121:GLN:O	1.74	0.88
2:Lh:72:TYR:HA	2:Lh:91:ARG:NH1	1.89	0.88
2:Mh:72:TYR:HA	2:Mh:91:ARG:NH1	1.89	0.88
2:3h:72:TYR:HA	2:3h:91:ARG:NH1	1.89	0.88
2:5h:72:TYR:HA	2:5h:91:ARG:NH1	1.89	0.88
2:bh:72:TYR:HA	2:bh:91:ARG:NH1	1.89	0.88
1:b:457:GLN:HA	2:bh:121:GLN:O	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:457:GLN:HA	2:dh:121:GLN:O	1.73	0.87
1:r:457:GLN:HA	2:rh:121:GLN:O	1.73	0.87
2:Kh:72:TYR:HA	2:Kh:91:ARG:NH1	1.89	0.87
2:th:72:TYR:HA	2:th:91:ARG:NH1	1.89	0.87
1:Q:457:GLN:HA	2:Qh:121:GLN:O	1.73	0.87
2:Ph:72:TYR:HA	2:Ph:91:ARG:NH1	1.89	0.87
2:Wh:86:ARG:HG3	2:Wh:103:ASN:O	1.71	0.87
2:dh:72:TYR:HA	2:dh:91:ARG:NH1	1.89	0.87
2:nh:72:TYR:HA	2:nh:91:ARG:NH1	1.89	0.87
2:xh:72:TYR:HA	2:xh:91:ARG:NH1	1.89	0.87
2:zh:53:MET:HB3	2:zh:98:LEU:HD22	1.54	0.87
1:K:457:GLN:HA	2:Kh:121:GLN:O	1.74	0.87
1:P:457:GLN:HA	2:Ph:121:GLN:O	1.73	0.87
1:g:457:GLN:HA	2:gh:121:GLN:O	1.74	0.87
2:Hh:72:TYR:HA	2:Hh:91:ARG:NH1	1.89	0.87
2:Jh:72:TYR:HA	2:Jh:91:ARG:NH1	1.89	0.87
2:vh:72:TYR:HA	2:vh:91:ARG:NH1	1.89	0.87
1:F:457:GLN:HA	2:Fh:121:GLN:O	1.75	0.87
1:s:457:GLN:HA	2:sh:121:GLN:O	1.75	0.87
2:Fh:53:MET:HB3	2:Fh:98:LEU:HD22	1.54	0.87
2:Gh:72:TYR:HA	2:Gh:91:ARG:NH1	1.89	0.87
2:Nh:72:TYR:HA	2:Nh:91:ARG:NH1	1.89	0.87
2:Qh:72:TYR:HA	2:Qh:91:ARG:NH1	1.89	0.87
2:rh:72:TYR:HA	2:rh:91:ARG:NH1	1.89	0.87
1:T:457:GLN:HA	2:Th:121:GLN:O	1.74	0.87
1:4:457:GLN:HA	2:4h:121:GLN:O	1.73	0.87
1:h:457:GLN:HA	2:hh:121:GLN:O	1.73	0.87
1:x:457:GLN:HA	2:xh:121:GLN:O	1.74	0.87
1:z:457:GLN:HA	2:zh:121:GLN:O	1.73	0.87
2:Zh:72:TYR:HA	2:Zh:91:ARG:NH1	1.89	0.87
2:ch:72:TYR:HA	2:ch:91:ARG:NH1	1.89	0.87
2:kh:53:MET:HB3	2:kh:98:LEU:HD22	1.54	0.87
2:kh:72:TYR:HA	2:kh:91:ARG:NH1	1.89	0.87
2:yh:72:TYR:HA	2:yh:91:ARG:NH1	1.89	0.87
2:Wh:53:MET:HB3	2:Wh:98:LEU:HD22	1.54	0.87
2:Rh:53:MET:HB3	2:Rh:98:LEU:HD22	1.54	0.87
2:Rh:72:TYR:HA	2:Rh:91:ARG:NH1	1.89	0.87
2:Wh:72:TYR:HA	2:Wh:91:ARG:NH1	1.89	0.87
2:8h:72:TYR:HA	2:8h:91:ARG:NH1	1.89	0.87
1:W:457:GLN:HA	2:Wh:121:GLN:O	1.73	0.87
2:sh:53:MET:HB3	2:sh:98:LEU:HD22	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:457:GLN:HA	2:Ah:121:GLN:O	1.75	0.87
1:j:457:GLN:HA	2:jh:121:GLN:O	1.73	0.87
2:Ih:72:TYR:HA	2:Ih:91:ARG:NH1	1.89	0.87
2:hh:72:TYR:HA	2:hh:91:ARG:NH1	1.89	0.87
2:zh:72:TYR:HA	2:zh:91:ARG:NH1	1.89	0.87
1:V:457:GLN:HA	2:Vh:121:GLN:O	1.73	0.86
2:Bh:72:TYR:HA	2:Bh:91:ARG:NH1	1.89	0.86
2:Fh:72:TYR:HA	2:Fh:91:ARG:NH1	1.89	0.86
2:Vh:53:MET:HB3	2:Vh:98:LEU:HD22	1.54	0.86
2:Yh:81:ASP:HA	2:Yh:84:LYS:HE3	1.57	0.86
2:Zh:81:ASP:HA	2:Zh:84:LYS:HE3	1.57	0.86
2:4h:72:TYR:HA	2:4h:91:ARG:NH1	1.89	0.86
2:fh:72:TYR:HA	2:fh:91:ARG:NH1	1.89	0.86
2:oh:72:TYR:HA	2:oh:91:ARG:NH1	1.89	0.86
2:uh:72:TYR:HA	2:uh:91:ARG:NH1	1.89	0.86
2:7h:72:TYR:HA	2:7h:91:ARG:NH1	1.89	0.86
2:8h:81:ASP:HA	2:8h:84:LYS:HE3	1.57	0.86
1:z:454:THR:HG22	2:zh:138:ASP:CB	2.06	0.86
2:Eh:72:TYR:HA	2:Eh:91:ARG:NH1	1.89	0.86
2:Oh:53:MET:HB3	2:Oh:98:LEU:HD22	1.54	0.86
2:Oh:72:TYR:HA	2:Oh:91:ARG:NH1	1.89	0.86
2:Qh:81:ASP:HA	2:Qh:84:LYS:HE3	1.57	0.86
2:Sh:72:TYR:HA	2:Sh:91:ARG:NH1	1.89	0.86
2:eh:81:ASP:HA	2:eh:84:LYS:HE3	1.57	0.86
2:fh:53:MET:HB3	2:fh:98:LEU:HD22	1.54	0.86
2:rh:81:ASP:HA	2:rh:84:LYS:HE3	1.57	0.86
2:sh:72:TYR:HA	2:sh:91:ARG:NH1	1.89	0.86
2:7h:81:ASP:HA	2:7h:84:LYS:HE3	1.57	0.86
1:M:454:THR:HG22	2:Mh:138:ASP:CB	2.06	0.86
1:1:457:GLN:HA	2:1h:121:GLN:O	1.75	0.86
1:b:454:THR:HG22	2:bh:138:ASP:CB	2.06	0.86
1:c:454:THR:HG22	2:ch:138:ASP:CB	2.06	0.86
1:l:454:THR:HG22	2:lh:138:ASP:CB	2.06	0.86
2:Dh:81:ASP:HA	2:Dh:84:LYS:HE3	1.57	0.86
2:Yh:72:TYR:HA	2:Yh:91:ARG:NH1	1.89	0.86
1:S:454:THR:HG22	2:Sh:138:ASP:CB	2.06	0.86
1:W:454:THR:HG22	2:Wh:138:ASP:CB	2.06	0.86
2:6h:72:TYR:HA	2:6h:91:ARG:NH1	1.89	0.86
2:gh:72:TYR:HA	2:gh:91:ARG:NH1	1.89	0.86
2:lh:72:TYR:HA	2:lh:91:ARG:NH1	1.89	0.86
2:qh:72:TYR:HA	2:qh:91:ARG:NH1	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:454:THR:HG22	2:Nh:138:ASP:CB	2.06	0.86
2:Th:72:TYR:HA	2:Th:91:ARG:NH1	1.89	0.86
2:Vh:72:TYR:HA	2:Vh:91:ARG:NH1	1.89	0.86
2:Xh:81:ASP:HA	2:Xh:84:LYS:HE3	1.57	0.86
2:2h:72:TYR:HA	2:2h:91:ARG:NH1	1.89	0.86
2:5h:81:ASP:HA	2:5h:84:LYS:HE3	1.57	0.86
2:ah:72:TYR:HA	2:ah:91:ARG:NH1	1.89	0.86
2:ih:81:ASP:HA	2:ih:84:LYS:HE3	1.57	0.86
2:jh:72:TYR:HA	2:jh:91:ARG:NH1	1.89	0.86
1:f:454:THR:HG22	2:fh:138:ASP:CB	2.06	0.86
2:Ch:72:TYR:HA	2:Ch:91:ARG:NH1	1.89	0.86
2:Dh:72:TYR:HA	2:Dh:91:ARG:NH1	1.89	0.86
2:Oh:81:ASP:HA	2:Oh:84:LYS:HE3	1.57	0.86
2:Uh:81:ASP:HA	2:Uh:84:LYS:HE3	1.57	0.86
2:ah:81:ASP:HA	2:ah:84:LYS:HE3	1.57	0.86
2:eh:72:TYR:HA	2:eh:91:ARG:NH1	1.89	0.86
2:gh:81:ASP:HA	2:gh:84:LYS:HE3	1.57	0.86
2:jh:53:MET:HB3	2:jh:98:LEU:HD22	1.54	0.86
1:B:454:THR:HG22	2:Bh:138:ASP:CB	2.06	0.86
1:O:454:THR:HG22	2:Oh:138:ASP:CB	2.06	0.86
1:U:454:THR:HG22	2:Uh:138:ASP:CB	2.05	0.86
1:8:457:GLN:HA	2:8h:121:GLN:O	1.73	0.86
2:3h:81:ASP:HA	2:3h:84:LYS:HE3	1.57	0.86
2:4h:81:ASP:HA	2:4h:84:LYS:HE3	1.57	0.86
2:ih:72:TYR:HA	2:ih:91:ARG:NH1	1.89	0.86
2:sh:81:ASP:HA	2:sh:84:LYS:HE3	1.57	0.86
1:H:454:THR:HG22	2:Hh:138:ASP:CB	2.06	0.86
1:Z:457:GLN:HA	2:Zh:121:GLN:O	1.73	0.86
1:m:454:THR:HG22	2:mh:138:ASP:CB	2.05	0.86
1:p:457:GLN:HA	2:ph:121:GLN:O	1.75	0.86
2:Ch:81:ASP:HA	2:Ch:84:LYS:HE3	1.57	0.86
2:Xh:72:TYR:HA	2:Xh:91:ARG:NH1	1.89	0.86
2:fh:81:ASP:HA	2:fh:84:LYS:HE3	1.57	0.86
2:hh:81:ASP:HA	2:hh:84:LYS:HE3	1.57	0.86
2:mh:81:ASP:HA	2:mh:84:LYS:HE3	1.57	0.86
2:vh:53:MET:HB3	2:vh:98:LEU:HD22	1.54	0.86
1:X:454:THR:HG22	2:Xh:138:ASP:CB	2.06	0.86
1:u:454:THR:HG22	2:uh:138:ASP:CB	2.06	0.86
1:y:454:THR:HG22	2:yh:138:ASP:CB	2.06	0.86
2:Ih:81:ASP:HA	2:Ih:84:LYS:HE3	1.57	0.86
2:Nh:81:ASP:HA	2:Nh:84:LYS:HE3	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Th:81:ASP:HA	2:Th:84:LYS:HE3	1.57	0.86
1:L:454:THR:HG22	2:Lh:138:ASP:CB	2.05	0.86
1:2:457:GLN:HA	2:2h:121:GLN:O	1.74	0.86
1:4:454:THR:HG22	2:4h:138:ASP:CB	2.06	0.86
1:h:454:THR:HG22	2:hh:138:ASP:CB	2.06	0.86
1:i:454:THR:HG22	2:ih:138:ASP:CB	2.06	0.86
2:Fh:81:ASP:HA	2:Fh:84:LYS:HE3	1.57	0.86
1:g:454:THR:HG22	2:gh:138:ASP:CB	2.06	0.85
1:t:454:THR:HG22	2:th:138:ASP:CB	2.05	0.85
2:Jh:53:MET:HB3	2:Jh:98:LEU:HD22	1.54	0.85
2:oh:81:ASP:HA	2:oh:84:LYS:HE3	1.57	0.85
1:T:454:THR:HG22	2:Th:138:ASP:CB	2.06	0.85
2:Rh:81:ASP:HA	2:Rh:84:LYS:HE3	1.57	0.85
2:ch:81:ASP:HA	2:ch:84:LYS:HE3	1.57	0.85
2:nh:81:ASP:HA	2:nh:84:LYS:HE3	1.57	0.85
1:e:454:THR:HG22	2:eh:138:ASP:CB	2.06	0.85
2:1h:72:TYR:HA	2:1h:91:ARG:NH1	1.89	0.85
1:D:454:THR:HG22	2:Dh:138:ASP:CB	2.06	0.85
2:kh:81:ASP:HA	2:kh:84:LYS:HE3	1.57	0.85
2:wh:72:TYR:HA	2:wh:91:ARG:NH1	1.89	0.85
1:P:454:THR:HG22	2:Ph:138:ASP:CB	2.06	0.85
1:R:454:THR:HG22	2:Rh:138:ASP:CB	2.06	0.85
1:d:454:THR:HG22	2:dh:138:ASP:CB	2.06	0.85
1:n:454:THR:HG22	2:nh:138:ASP:CB	2.05	0.85
1:w:454:THR:HG22	2:wh:138:ASP:CB	2.06	0.85
1:8:454:THR:HG22	2:8h:138:ASP:CB	2.06	0.85
1:Z:454:THR:HG22	2:Zh:138:ASP:CB	2.06	0.85
1:a:454:THR:HG22	2:ah:138:ASP:CB	2.06	0.85
2:Gh:81:ASP:HA	2:Gh:84:LYS:HE3	1.57	0.85
1:C:454:THR:HG22	2:Ch:138:ASP:CB	2.06	0.85
1:k:454:THR:HG22	2:kh:138:ASP:CB	2.06	0.85
1:J:454:THR:HG22	2:Jh:138:ASP:CB	2.06	0.85
1:s:454:THR:HG22	2:sh:138:ASP:CB	2.06	0.85
2:2h:81:ASP:HA	2:2h:84:LYS:HE3	1.57	0.85
2:wh:81:ASP:HA	2:wh:84:LYS:HE3	1.57	0.85
1:F:454:THR:HG22	2:Fh:138:ASP:CB	2.06	0.85
1:G:454:THR:HG22	2:Gh:138:ASP:CB	2.06	0.85
1:1:454:THR:HG22	2:1h:138:ASP:CB	2.07	0.85
1:6:457:GLN:HA	2:6h:121:GLN:O	1.75	0.85
1:q:454:THR:HG22	2:qh:138:ASP:CB	2.06	0.85
2:1h:81:ASP:HA	2:1h:84:LYS:HE3	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:6h:81:ASP:HA	2:6h:84:LYS:HE3	1.57	0.85
1:r:454:THR:HG22	2:rh:138:ASP:CB	2.06	0.85
1:v:454:THR:HG22	2:vh:138:ASP:CB	2.06	0.85
2:Ph:81:ASP:HA	2:Ph:84:LYS:HE3	1.57	0.85
1:E:454:THR:HG22	2:Eh:138:ASP:CB	2.06	0.84
1:2:454:THR:HG22	2:2h:138:ASP:CB	2.06	0.84
2:Eh:81:ASP:HA	2:Eh:84:LYS:HE3	1.57	0.84
2:Jh:81:ASP:HA	2:Jh:84:LYS:HE3	1.57	0.84
2:qh:81:ASP:HA	2:qh:84:LYS:HE3	1.57	0.84
1:Q:454:THR:HG22	2:Qh:138:ASP:CB	2.06	0.84
2:bh:81:ASP:HA	2:bh:84:LYS:HE3	1.57	0.84
1:Y:454:THR:HG22	2:Yh:138:ASP:CB	2.06	0.84
1:p:454:THR:HG22	2:ph:138:ASP:CB	2.06	0.84
2:Bh:81:ASP:HA	2:Bh:84:LYS:HE3	1.57	0.84
2:Mh:81:ASP:HA	2:Mh:84:LYS:HE3	1.57	0.84
2:dh:81:ASP:HA	2:dh:84:LYS:HE3	1.57	0.84
2:vh:81:ASP:HA	2:vh:84:LYS:HE3	1.57	0.84
3:Ml:42:CYS:HG	3:Ml:109:CYS:HG	1.22	0.84
1:V:454:THR:HG22	2:Vh:138:ASP:CB	2.06	0.84
2:Kh:81:ASP:HA	2:Kh:84:LYS:HE3	1.57	0.84
2:Lh:81:ASP:HA	2:Lh:84:LYS:HE3	1.57	0.84
2:th:81:ASP:HA	2:th:84:LYS:HE3	1.57	0.84
2:uh:81:ASP:HA	2:uh:84:LYS:HE3	1.57	0.84
2:xh:81:ASP:HA	2:xh:84:LYS:HE3	1.57	0.84
1:x:454:THR:HG22	2:xh:138:ASP:CB	2.06	0.84
1:7:454:THR:HG22	2:7h:138:ASP:CB	2.06	0.84
2:Sh:81:ASP:HA	2:Sh:84:LYS:HE3	1.57	0.84
3:4l:100:GLN:HA	3:4l:100:GLN:HE21	1.43	0.84
3:kl:100:GLN:HE21	3:kl:100:GLN:HA	1.43	0.84
1:j:454:THR:HG22	2:jh:138:ASP:CB	2.06	0.84
2:lh:81:ASP:HA	2:lh:84:LYS:HE3	1.57	0.84
3:Rl:100:GLN:HA	3:Rl:100:GLN:HE21	1.43	0.84
3:hl:100:GLN:HE21	3:hl:100:GLN:HA	1.43	0.84
1:K:454:THR:HG22	2:Kh:138:ASP:CB	2.06	0.84
1:5:454:THR:HG22	2:5h:138:ASP:CB	2.06	0.84
3:Hl:100:GLN:HE21	3:Hl:100:GLN:HA	1.43	0.84
2:Hh:88:THR:HG21	2:Hh:101:GLN:HE22	1.43	0.84
2:5h:88:THR:HG21	2:5h:101:GLN:HE22	1.43	0.84
3:Pl:100:GLN:HE21	3:Pl:100:GLN:HA	1.43	0.84
3:yl:100:GLN:HA	3:yl:100:GLN:HE21	1.43	0.84
2:3h:88:THR:HG21	2:3h:101:GLN:HE22	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:yh:88:THR:HG21	2:yh:101:GLN:HE22	1.43	0.84
3:fl:100:GLN:HA	3:fl:100:GLN:HE21	1.43	0.84
1:3:454:THR:HG22	2:3h:138:ASP:CB	2.07	0.84
1:o:454:THR:HG22	2:oh:138:ASP:CB	2.06	0.84
2:zh:81:ASP:HA	2:zh:84:LYS:HE3	1.57	0.84
3:Cl:100:GLN:HA	3:Cl:100:GLN:HE21	1.43	0.84
3:dl:100:GLN:HE21	3:dl:100:GLN:HA	1.43	0.84
3:ql:100:GLN:HA	3:ql:100:GLN:HE21	1.43	0.84
2:Gh:88:THR:HG21	2:Gh:101:GLN:HE22	1.43	0.83
2:Jh:88:THR:HG21	2:Jh:101:GLN:HE22	1.43	0.83
2:Vh:81:ASP:HA	2:Vh:84:LYS:HE3	1.57	0.83
2:nh:88:THR:HG21	2:nh:101:GLN:HE22	1.43	0.83
3:Ol:100:GLN:HA	3:Ol:100:GLN:HE21	1.43	0.83
3:6l:100:GLN:HE21	3:6l:100:GLN:HA	1.43	0.83
3:al:100:GLN:HE21	3:al:100:GLN:HA	1.43	0.83
3:gl:100:GLN:HE21	3:gl:100:GLN:HA	1.43	0.83
2:Ah:81:ASP:HA	2:Ah:84:LYS:HE3	1.57	0.83
2:Wh:81:ASP:HA	2:Wh:84:LYS:HE3	1.57	0.83
2:vh:88:THR:HG21	2:vh:101:GLN:HE22	1.43	0.83
3:Al:100:GLN:HE21	3:Al:100:GLN:HA	1.43	0.83
3:Bl:100:GLN:HE21	3:Bl:100:GLN:HA	1.43	0.83
3:El:100:GLN:HE21	3:El:100:GLN:HA	1.43	0.83
3:cl:100:GLN:HA	3:cl:100:GLN:HE21	1.43	0.83
1:I:454:THR:HG22	2:Ih:138:ASP:CB	2.06	0.83
3:Nl:42:CYS:HG	3:Nl:109:CYS:HG	1.25	0.83
3:Nl:100:GLN:HA	3:Nl:100:GLN:HE21	1.43	0.83
3:Tl:100:GLN:HE21	3:Tl:100:GLN:HA	1.43	0.83
3:2l:100:GLN:HE21	3:2l:100:GLN:HA	1.43	0.83
3:pl:100:GLN:HE21	3:pl:100:GLN:HA	1.43	0.83
2:Mh:88:THR:HG21	2:Mh:101:GLN:HE22	1.43	0.83
2:Sh:88:THR:HG21	2:Sh:101:GLN:HE22	1.43	0.83
2:lh:88:THR:HG21	2:lh:101:GLN:HE22	1.43	0.83
3:ul:100:GLN:HA	3:ul:100:GLN:HE21	1.43	0.83
2:yh:81:ASP:HA	2:yh:84:LYS:HE3	1.57	0.83
2:zh:88:THR:HG21	2:zh:101:GLN:HE22	1.43	0.83
3:el:100:GLN:HA	3:el:100:GLN:HE21	1.43	0.83
2:Dh:88:THR:HG21	2:Dh:101:GLN:HE22	1.43	0.83
2:bh:88:THR:HG21	2:bh:101:GLN:HE22	1.43	0.83
2:jh:81:ASP:HA	2:jh:84:LYS:HE3	1.57	0.83
2:ph:81:ASP:HA	2:ph:84:LYS:HE3	1.57	0.83
3:Dl:100:GLN:HA	3:Dl:100:GLN:HE21	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ml:100:GLN:HE21	3:Ml:100:GLN:HA	1.43	0.83
1:F:587:ASN:CB	3:Fl:87:ARG:HH11	1.91	0.83
2:Fh:88:THR:HG21	2:Fh:101:GLN:HE22	1.43	0.83
2:Wh:88:THR:HG21	2:Wh:101:GLN:HE22	1.43	0.83
2:eh:88:THR:HG21	2:eh:101:GLN:HE22	1.43	0.83
2:sh:88:THR:HG21	2:sh:101:GLN:HE22	1.43	0.83
3:Jl:100:GLN:HA	3:Jl:100:GLN:HE21	1.43	0.83
1:s:587:ASN:CB	3:sl:87:ARG:HH11	1.91	0.83
2:Hh:81:ASP:HA	2:Hh:84:LYS:HE3	1.57	0.83
2:Zh:88:THR:HG21	2:Zh:101:GLN:HE22	1.43	0.83
3:vl:100:GLN:HA	3:vl:100:GLN:HE21	1.43	0.83
3:wl:100:GLN:HE21	3:wl:100:GLN:HA	1.43	0.83
2:Ph:88:THR:HG21	2:Ph:101:GLN:HE22	1.43	0.83
3:Sl:100:GLN:HA	3:Sl:100:GLN:HE21	1.43	0.83
2:Vh:88:THR:HG21	2:Vh:101:GLN:HE22	1.43	0.83
3:1l:100:GLN:HE21	3:1l:100:GLN:HA	1.43	0.83
3:bl:100:GLN:HA	3:bl:100:GLN:HE21	1.43	0.83
2:8h:88:THR:HG21	2:8h:101:GLN:HE22	1.43	0.82
3:Yl:100:GLN:HE21	3:Yl:100:GLN:HA	1.43	0.82
2:7h:88:THR:HG21	2:7h:101:GLN:HE22	1.43	0.82
3:Ul:100:GLN:HE21	3:Ul:100:GLN:HA	1.43	0.82
1:K:587:ASN:CB	3:Kl:87:ARG:HH11	1.92	0.82
1:x:587:ASN:CB	3:xl:87:ARG:HH11	1.92	0.82
3:Xl:100:GLN:HE21	3:Xl:100:GLN:HA	1.43	0.82
3:ll:100:GLN:HE21	3:ll:100:GLN:HA	1.43	0.82
3:7l:100:GLN:HA	3:7l:100:GLN:HE21	1.43	0.82
2:dh:88:THR:HG21	2:dh:101:GLN:HE22	1.43	0.82
2:mh:88:THR:HG21	2:mh:101:GLN:HE22	1.43	0.82
2:qh:88:THR:HG21	2:qh:101:GLN:HE22	1.43	0.82
2:wh:88:THR:HG21	2:wh:101:GLN:HE22	1.43	0.82
3:3l:100:GLN:HA	3:3l:100:GLN:HE21	1.43	0.82
3:ol:100:GLN:HE21	3:ol:100:GLN:HA	1.43	0.82
2:Eh:88:THR:HG21	2:Eh:101:GLN:HE22	1.43	0.82
2:Yh:88:THR:HG21	2:Yh:101:GLN:HE22	1.43	0.82
2:1h:88:THR:HG21	2:1h:101:GLN:HE22	1.43	0.82
2:jh:88:THR:HG21	2:jh:101:GLN:HE22	1.43	0.82
3:3l:42:CYS:HG	3:3l:109:CYS:HG	1.25	0.82
3:5l:100:GLN:HE21	3:5l:100:GLN:HA	1.43	0.82
3:il:100:GLN:HA	3:il:100:GLN:HE21	1.43	0.82
3:ml:100:GLN:HA	3:ml:100:GLN:HE21	1.43	0.82
2:Bh:88:THR:HG21	2:Bh:101:GLN:HE22	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Uh:88:THR:HG21	2:Uh:101:GLN:HE22	1.43	0.82
2:4h:88:THR:HG21	2:4h:101:GLN:HE22	1.43	0.82
3:Gl:100:GLN:HA	3:Gl:100:GLN:HE21	1.43	0.82
3:Il:100:GLN:HE21	3:Il:100:GLN:HA	1.43	0.82
2:Th:88:THR:HG21	2:Th:101:GLN:HE22	1.43	0.82
2:xh:88:THR:HG21	2:xh:101:GLN:HE22	1.43	0.82
3:Kl:100:GLN:HA	3:Kl:100:GLN:HE21	1.43	0.82
3:Vl:100:GLN:HA	3:Vl:100:GLN:HE21	1.43	0.82
3:1l:31:SER:HB3	3:1l:127:THR:OG1	1.80	0.82
3:cl:42:CYS:HG	3:cl:109:CYS:HG	1.27	0.82
3:wl:31:SER:HB3	3:wl:127:THR:OG1	1.80	0.82
2:Kh:88:THR:HG21	2:Kh:101:GLN:HE22	1.43	0.82
2:gh:88:THR:HG21	2:gh:101:GLN:HE22	1.43	0.82
2:uh:88:THR:HG21	2:uh:101:GLN:HE22	1.43	0.82
3:Ml:31:SER:HB3	3:Ml:127:THR:OG1	1.80	0.82
3:Sl:31:SER:HB3	3:Sl:127:THR:OG1	1.80	0.82
3:nl:100:GLN:HA	3:nl:100:GLN:HE21	1.43	0.82
3:8l:100:GLN:HA	3:8l:100:GLN:HE21	1.43	0.82
1:I:587:ASN:CB	3:Il:87:ARG:HH11	1.92	0.82
1:6:454:THR:HG22	2:6h:138:ASP:CB	2.09	0.82
1:o:587:ASN:CB	3:ol:87:ARG:HH11	1.92	0.82
2:Oh:88:THR:HG21	2:Oh:101:GLN:HE22	1.43	0.82
2:hh:88:THR:HG21	2:hh:101:GLN:HE22	1.43	0.82
2:kh:88:THR:HG21	2:kh:101:GLN:HE22	1.43	0.82
2:ph:88:THR:HG21	2:ph:101:GLN:HE22	1.43	0.82
3:bl:31:SER:HB3	3:bl:127:THR:OG1	1.80	0.82
3:jl:100:GLN:HA	3:jl:100:GLN:HE21	1.43	0.82
3:ll:31:SER:HB3	3:ll:127:THR:OG1	1.80	0.82
1:A:454:THR:HG22	2:Ah:138:ASP:CB	2.09	0.81
1:W:587:ASN:CB	3:Wl:87:ARG:HH11	1.92	0.81
2:ah:88:THR:HG21	2:ah:101:GLN:HE22	1.43	0.81
3:Al:31:SER:HB3	3:Al:127:THR:OG1	1.80	0.81
3:Yl:31:SER:HB3	3:Yl:127:THR:OG1	1.80	0.81
3:pl:31:SER:HB3	3:pl:127:THR:OG1	1.80	0.81
3:sl:100:GLN:HE21	3:sl:100:GLN:HA	1.43	0.81
3:xl:100:GLN:HE21	3:xl:100:GLN:HA	1.43	0.81
3:yl:31:SER:HB3	3:yl:127:THR:OG1	1.80	0.81
2:Ah:88:THR:HG21	2:Ah:101:GLN:HE22	1.43	0.81
2:Ch:88:THR:HG21	2:Ch:101:GLN:HE22	1.43	0.81
2:Rh:88:THR:HG21	2:Rh:101:GLN:HE22	1.43	0.81
2:fh:88:THR:HG21	2:fh:101:GLN:HE22	1.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Hl:31:SER:HB3	3:Hl:127:THR:OG1	1.80	0.81
3:Zl:100:GLN:HA	3:Zl:100:GLN:HE21	1.43	0.81
3:tl:100:GLN:HE21	3:tl:100:GLN:HA	1.43	0.81
3:zl:31:SER:HB3	3:zl:127:THR:OG1	1.80	0.81
3:7l:31:SER:HB3	3:7l:127:THR:OG1	1.80	0.81
2:ch:88:THR:HG21	2:ch:101:GLN:HE22	1.43	0.81
2:oh:88:THR:HG21	2:oh:101:GLN:HE22	1.43	0.81
2:rh:88:THR:HG21	2:rh:101:GLN:HE22	1.43	0.81
3:Cl:31:SER:HB3	3:Cl:127:THR:OG1	1.80	0.81
3:Fl:100:GLN:HE21	3:Fl:100:GLN:HA	1.43	0.81
3:Ll:100:GLN:HE21	3:Ll:100:GLN:HA	1.43	0.81
3:Ul:31:SER:HB3	3:Ul:127:THR:OG1	1.80	0.81
3:Vl:31:SER:HB3	3:Vl:127:THR:OG1	1.80	0.81
3:Wl:31:SER:HB3	3:Wl:127:THR:OG1	1.80	0.81
3:al:31:SER:HB3	3:al:127:THR:OG1	1.80	0.81
3:jl:31:SER:HB3	3:jl:127:THR:OG1	1.80	0.81
1:z:587:ASN:CB	3:zl:87:ARG:HH11	1.92	0.81
2:Qh:88:THR:HG21	2:Qh:101:GLN:HE22	1.43	0.81
3:ml:31:SER:HB3	3:ml:127:THR:OG1	1.80	0.81
1:O:587:ASN:CB	3:Ol:87:ARG:HH11	1.92	0.81
2:Ih:88:THR:HG21	2:Ih:101:GLN:HE22	1.43	0.81
2:Vh:58:GLN:H	2:Vh:111:ALA:HB1	1.46	0.81
2:jh:58:GLN:H	2:jh:111:ALA:HB1	1.46	0.81
3:dl:31:SER:HB3	3:dl:127:THR:OG1	1.80	0.81
3:el:42:CYS:HG	3:el:109:CYS:HG	1.28	0.81
3:fl:42:CYS:HG	3:fl:109:CYS:HG	1.25	0.81
3:xl:31:SER:HB3	3:xl:127:THR:OG1	1.80	0.81
1:f:587:ASN:CB	3:fl:87:ARG:HH11	1.92	0.81
2:Lh:88:THR:HG21	2:Lh:101:GLN:HE22	1.43	0.81
2:Qh:58:GLN:H	2:Qh:111:ALA:HB1	1.46	0.81
3:Ll:31:SER:HB3	3:Ll:127:THR:OG1	1.80	0.81
3:Xl:31:SER:HB3	3:Xl:127:THR:OG1	1.80	0.81
3:il:31:SER:HB3	3:il:127:THR:OG1	1.80	0.81
3:tl:31:SER:HB3	3:tl:127:THR:OG1	1.80	0.81
2:Eh:58:GLN:H	2:Eh:111:ALA:HB1	1.46	0.81
2:Nh:88:THR:HG21	2:Nh:101:GLN:HE22	1.43	0.81
2:Xh:88:THR:HG21	2:Xh:101:GLN:HE22	1.43	0.81
2:rh:58:GLN:H	2:rh:111:ALA:HB1	1.46	0.81
2:th:58:GLN:H	2:th:111:ALA:HB1	1.46	0.81
3:Kl:31:SER:HB3	3:Kl:127:THR:OG1	1.80	0.81
3:Nl:31:SER:HB3	3:Nl:127:THR:OG1	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Pl:31:SER:HB3	3:Pl:127:THR:OG1	1.80	0.81
3:Wl:100:GLN:HA	3:Wl:100:GLN:HE21	1.43	0.81
3:rl:31:SER:HB3	3:rl:127:THR:OG1	1.80	0.81
3:zl:100:GLN:HA	3:zl:100:GLN:HE21	1.43	0.81
2:Ih:58:GLN:H	2:Ih:111:ALA:HB1	1.46	0.81
2:Lh:58:GLN:H	2:Lh:111:ALA:HB1	1.46	0.81
2:oh:58:GLN:H	2:oh:111:ALA:HB1	1.46	0.81
2:qh:58:GLN:H	2:qh:111:ALA:HB1	1.46	0.81
2:th:88:THR:HG21	2:th:101:GLN:HE22	1.43	0.81
3:4l:31:SER:HB3	3:4l:127:THR:OG1	1.80	0.81
3:cl:31:SER:HB3	3:cl:127:THR:OG1	1.80	0.81
3:hl:31:SER:HB3	3:hl:127:THR:OG1	1.80	0.81
1:G:587:ASN:CB	3:Gl:87:ARG:HH11	1.92	0.81
2:Oh:58:GLN:H	2:Oh:111:ALA:HB1	1.46	0.81
2:6h:88:THR:HG21	2:6h:101:GLN:HE22	1.43	0.81
2:wh:58:GLN:H	2:wh:111:ALA:HB1	1.46	0.81
3:Ql:31:SER:HB3	3:Ql:127:THR:OG1	1.80	0.81
3:ul:31:SER:HB3	3:ul:127:THR:OG1	1.80	0.81
1:4:587:ASN:CB	3:4l:87:ARG:HH11	1.92	0.81
2:Fh:58:GLN:H	2:Fh:111:ALA:HB1	1.46	0.81
2:Jh:58:GLN:H	2:Jh:111:ALA:HB1	1.46	0.81
2:Nh:58:GLN:H	2:Nh:111:ALA:HB1	1.46	0.81
2:ch:58:GLN:H	2:ch:111:ALA:HB1	1.46	0.81
2:dh:58:GLN:H	2:dh:111:ALA:HB1	1.46	0.81
2:fh:58:GLN:H	2:fh:111:ALA:HB1	1.46	0.81
2:gh:58:GLN:H	2:gh:111:ALA:HB1	1.46	0.81
2:ih:88:THR:HG21	2:ih:101:GLN:HE22	1.43	0.81
2:xh:58:GLN:H	2:xh:111:ALA:HB1	1.46	0.81
2:7h:58:GLN:H	2:7h:111:ALA:HB1	1.46	0.81
3:3l:31:SER:HB3	3:3l:127:THR:OG1	1.80	0.81
2:Kh:58:GLN:H	2:Kh:111:ALA:HB1	1.46	0.80
2:Mh:58:GLN:H	2:Mh:111:ALA:HB1	1.46	0.80
2:Ph:58:GLN:H	2:Ph:111:ALA:HB1	1.46	0.80
2:Th:58:GLN:H	2:Th:111:ALA:HB1	1.46	0.80
2:Yh:58:GLN:H	2:Yh:111:ALA:HB1	1.46	0.80
2:1h:58:GLN:H	2:1h:111:ALA:HB1	1.46	0.80
2:vh:58:GLN:H	2:vh:111:ALA:HB1	1.46	0.80
3:Bl:31:SER:HB3	3:Bl:127:THR:OG1	1.80	0.80
3:Ql:100:GLN:HE21	3:Ql:100:GLN:HA	1.43	0.80
3:rl:100:GLN:HA	3:rl:100:GLN:HE21	1.43	0.80
2:2h:88:THR:HG21	2:2h:101:GLN:HE22	1.43	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bh:58:GLN:H	2:bh:111:ALA:HB1	1.46	0.80
2:sh:58:GLN:H	2:sh:111:ALA:HB1	1.46	0.80
3:Gl:31:SER:HB3	3:Gl:127:THR:OG1	1.80	0.80
1:h:587:ASN:CB	3:hl:87:ARG:HH11	1.92	0.80
2:Ah:58:GLN:H	2:Ah:111:ALA:HB1	1.46	0.80
3:Fl:31:SER:HB3	3:Fl:127:THR:OG1	1.80	0.80
3:Ol:31:SER:HB3	3:Ol:127:THR:OG1	1.80	0.80
3:5l:31:SER:HB3	3:5l:127:THR:OG1	1.80	0.80
3:fl:31:SER:HB3	3:fl:127:THR:OG1	1.80	0.80
3:nl:31:SER:HB3	3:nl:127:THR:OG1	1.80	0.80
3:sl:31:SER:HB3	3:sl:127:THR:OG1	1.80	0.80
2:Bh:58:GLN:H	2:Bh:111:ALA:HB1	1.46	0.80
2:Sh:58:GLN:H	2:Sh:111:ALA:HB1	1.46	0.80
2:kh:58:GLN:H	2:kh:111:ALA:HB1	1.46	0.80
2:ph:58:GLN:H	2:ph:111:ALA:HB1	1.46	0.80
1:n:587:ASN:CB	3:nl:87:ARG:HH11	1.92	0.80
2:Rh:58:GLN:H	2:Rh:111:ALA:HB1	1.46	0.80
2:hh:41:CYS:HB3	2:hh:98:LEU:HB3	1.64	0.80
2:lh:58:GLN:H	2:lh:111:ALA:HB1	1.46	0.80
3:El:31:SER:HB3	3:El:127:THR:OG1	1.80	0.80
3:Jl:31:SER:HB3	3:Jl:127:THR:OG1	1.80	0.80
2:1h:41:CYS:HB3	2:1h:98:LEU:HB3	1.64	0.80
2:4h:41:CYS:HB3	2:4h:98:LEU:HB3	1.64	0.80
2:uh:58:GLN:H	2:uh:111:ALA:HB1	1.46	0.80
2:wh:41:CYS:HB3	2:wh:98:LEU:HB3	1.64	0.80
3:Al:42:CYS:HG	3:Al:109:CYS:HG	1.28	0.80
3:Dl:31:SER:HB3	3:Dl:127:THR:OG1	1.80	0.80
3:6l:31:SER:HB3	3:6l:127:THR:OG1	1.80	0.80
3:gl:31:SER:HB3	3:gl:127:THR:OG1	1.80	0.80
3:ql:31:SER:HB3	3:ql:127:THR:OG1	1.80	0.80
2:Dh:41:CYS:HB3	2:Dh:98:LEU:HB3	1.64	0.80
2:Uh:119:PRO:HD3	2:Uh:138:ASP:OD1	1.82	0.80
2:eh:41:CYS:HB3	2:eh:98:LEU:HB3	1.64	0.80
2:mh:119:PRO:HD3	2:mh:138:ASP:OD1	1.82	0.80
3:Rl:31:SER:HB3	3:Rl:127:THR:OG1	1.80	0.80
3:Tl:31:SER:HB3	3:Tl:127:THR:OG1	1.80	0.80
3:vl:31:SER:HB3	3:vl:127:THR:OG1	1.80	0.80
2:Mh:119:PRO:HD3	2:Mh:138:ASP:OD1	1.82	0.80
2:Qh:119:PRO:HD3	2:Qh:138:ASP:OD1	1.82	0.80
2:Th:119:PRO:HD3	2:Th:138:ASP:OD1	1.82	0.80
2:Yh:41:CYS:HB3	2:Yh:98:LEU:HB3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zh:119:PRO:HD3	2:Zh:138:ASP:OD1	1.82	0.80
2:gh:119:PRO:HD3	2:gh:138:ASP:OD1	1.82	0.80
2:ih:41:CYS:HB3	2:ih:98:LEU:HB3	1.64	0.80
2:nh:58:GLN:H	2:nh:111:ALA:HB1	1.46	0.80
2:rh:41:CYS:HB3	2:rh:98:LEU:HB3	1.64	0.80
2:rh:119:PRO:HD3	2:rh:138:ASP:OD1	1.82	0.80
2:7h:41:CYS:HB3	2:7h:98:LEU:HB3	1.64	0.80
2:8h:119:PRO:HD3	2:8h:138:ASP:OD1	1.82	0.80
3:Il:31:SER:HB3	3:Il:127:THR:OG1	1.80	0.80
3:2l:31:SER:HB3	3:2l:127:THR:OG1	1.80	0.80
3:el:31:SER:HB3	3:el:127:THR:OG1	1.80	0.80
1:a:587:ASN:CB	3:al:87:ARG:HH11	1.92	0.80
2:Bh:41:CYS:HB3	2:Bh:98:LEU:HB3	1.64	0.80
2:Gh:58:GLN:H	2:Gh:111:ALA:HB1	1.46	0.80
2:Qh:41:CYS:HB3	2:Qh:98:LEU:HB3	1.64	0.80
2:Xh:41:CYS:HB3	2:Xh:98:LEU:HB3	1.64	0.80
2:Zh:58:GLN:H	2:Zh:111:ALA:HB1	1.46	0.80
2:bh:119:PRO:HD3	2:bh:138:ASP:OD1	1.82	0.80
2:nh:119:PRO:HD3	2:nh:138:ASP:OD1	1.82	0.80
2:qh:41:CYS:HB3	2:qh:98:LEU:HB3	1.64	0.80
2:zh:119:PRO:HD3	2:zh:138:ASP:OD1	1.82	0.80
3:kl:31:SER:HB3	3:kl:127:THR:OG1	1.80	0.80
2:Dh:58:GLN:H	2:Dh:111:ALA:HB1	1.46	0.80
2:Eh:41:CYS:HB3	2:Eh:98:LEU:HB3	1.64	0.80
2:Gh:119:PRO:HD3	2:Gh:138:ASP:OD1	1.82	0.80
2:Oh:41:CYS:HB3	2:Oh:98:LEU:HB3	1.64	0.80
2:Wh:119:PRO:HD3	2:Wh:138:ASP:OD1	1.82	0.80
2:ih:119:PRO:HD3	2:ih:138:ASP:OD1	1.82	0.80
2:uh:41:CYS:HB3	2:uh:98:LEU:HB3	1.64	0.80
3:ol:31:SER:HB3	3:ol:127:THR:OG1	1.80	0.80
2:Lh:41:CYS:HB3	2:Lh:98:LEU:HB3	1.64	0.79
2:Xh:119:PRO:HD3	2:Xh:138:ASP:OD1	1.82	0.79
2:eh:58:GLN:H	2:eh:111:ALA:HB1	1.46	0.79
2:fh:41:CYS:HB3	2:fh:98:LEU:HB3	1.64	0.79
3:yl:107:TYR:CE2	3:yl:126:VAL:HG21	2.14	0.79
2:Hh:58:GLN:H	2:Hh:111:ALA:HB1	1.46	0.79
2:Uh:41:CYS:HB3	2:Uh:98:LEU:HB3	1.64	0.79
2:Uh:58:GLN:H	2:Uh:111:ALA:HB1	1.46	0.79
2:sh:119:PRO:HD3	2:sh:138:ASP:OD1	1.82	0.79
2:th:41:CYS:HB3	2:th:98:LEU:HB3	1.64	0.79
2:8h:58:GLN:H	2:8h:111:ALA:HB1	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Hl:107:TYR:CE2	3:Hl:126:VAL:HG21	2.14	0.79
3:Zl:107:TYR:CE2	3:Zl:126:VAL:HG21	2.14	0.79
3:8l:107:TYR:CE2	3:8l:126:VAL:HG21	2.14	0.79
2:Dh:119:PRO:HD3	2:Dh:138:ASP:OD1	1.82	0.79
2:4h:119:PRO:HD3	2:4h:138:ASP:OD1	1.82	0.79
2:eh:119:PRO:HD3	2:eh:138:ASP:OD1	1.82	0.79
2:mh:41:CYS:HB3	2:mh:98:LEU:HB3	1.64	0.79
2:oh:119:PRO:HD3	2:oh:138:ASP:OD1	1.82	0.79
3:5l:42:CYS:HG	3:5l:109:CYS:HG	1.28	0.79
2:Fh:119:PRO:HD3	2:Fh:138:ASP:OD1	1.82	0.79
2:Ih:119:PRO:HD3	2:Ih:138:ASP:OD1	1.82	0.79
2:Jh:41:CYS:HB3	2:Jh:98:LEU:HB3	1.64	0.79
2:Wh:41:CYS:HB3	2:Wh:98:LEU:HB3	1.64	0.79
2:Xh:58:GLN:H	2:Xh:111:ALA:HB1	1.46	0.79
2:2h:58:GLN:H	2:2h:111:ALA:HB1	1.46	0.79
2:hh:119:PRO:HD3	2:hh:138:ASP:OD1	1.82	0.79
2:ih:58:GLN:H	2:ih:111:ALA:HB1	1.46	0.79
2:mh:58:GLN:H	2:mh:111:ALA:HB1	1.46	0.79
2:vh:41:CYS:HB3	2:vh:98:LEU:HB3	1.64	0.79
2:zh:41:CYS:HB3	2:zh:98:LEU:HB3	1.64	0.79
3:Zl:31:SER:HB3	3:Zl:127:THR:OG1	1.80	0.79
2:Jh:119:PRO:HD3	2:Jh:138:ASP:OD1	1.82	0.79
2:5h:119:PRO:HD3	2:5h:138:ASP:OD1	1.82	0.79
2:gh:41:CYS:HB3	2:gh:98:LEU:HB3	1.64	0.79
2:hh:58:GLN:H	2:hh:111:ALA:HB1	1.46	0.79
2:vh:119:PRO:HD3	2:vh:138:ASP:OD1	1.82	0.79
3:Ol:42:CYS:HG	3:Ol:109:CYS:HG	1.27	0.79
2:Bh:119:PRO:HD3	2:Bh:138:ASP:OD1	1.82	0.79
2:Th:41:CYS:HB3	2:Th:98:LEU:HB3	1.64	0.79
2:Wh:58:GLN:H	2:Wh:111:ALA:HB1	1.46	0.79
2:3h:119:PRO:HD3	2:3h:138:ASP:OD1	1.82	0.79
2:6h:58:GLN:H	2:6h:111:ALA:HB1	1.46	0.79
2:yh:58:GLN:H	2:yh:111:ALA:HB1	1.46	0.79
2:zh:58:GLN:H	2:zh:111:ALA:HB1	1.46	0.79
2:7h:119:PRO:HD3	2:7h:138:ASP:OD1	1.82	0.79
3:Al:107:TYR:CE2	3:Al:126:VAL:HG21	2.14	0.79
3:8l:31:SER:HB3	3:8l:127:THR:OG1	1.80	0.79
2:Yh:119:PRO:HD3	2:Yh:138:ASP:OD1	1.82	0.79
2:1h:119:PRO:HD3	2:1h:138:ASP:OD1	1.82	0.79
2:ah:58:GLN:H	2:ah:111:ALA:HB1	1.46	0.79
2:ph:119:PRO:HD3	2:ph:138:ASP:OD1	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:58:GLN:H	2:Ch:111:ALA:HB1	1.46	0.79
2:Kh:119:PRO:HD3	2:Kh:138:ASP:OD1	1.82	0.79
2:Nh:41:CYS:HB3	2:Nh:98:LEU:HB3	1.64	0.79
2:Vh:41:CYS:HB3	2:Vh:98:LEU:HB3	1.64	0.79
2:3h:58:GLN:H	2:3h:111:ALA:HB1	1.46	0.79
2:4h:58:GLN:H	2:4h:111:ALA:HB1	1.46	0.79
2:uh:119:PRO:HD3	2:uh:138:ASP:OD1	1.82	0.79
3:Sl:107:TYR:CE2	3:Sl:126:VAL:HG21	2.14	0.79
3:4l:107:TYR:CE2	3:4l:126:VAL:HG21	2.14	0.79
2:Ah:119:PRO:HD3	2:Ah:138:ASP:OD1	1.82	0.79
2:Ph:41:CYS:HB3	2:Ph:98:LEU:HB3	1.64	0.79
2:ch:41:CYS:HB3	2:ch:98:LEU:HB3	1.64	0.79
2:ch:119:PRO:HD3	2:ch:138:ASP:OD1	1.82	0.79
2:qh:119:PRO:HD3	2:qh:138:ASP:OD1	1.82	0.79
2:sh:41:CYS:HB3	2:sh:98:LEU:HB3	1.64	0.79
2:wh:119:PRO:HD3	2:wh:138:ASP:OD1	1.82	0.79
3:Rl:42:CYS:HG	3:Rl:109:CYS:HG	1.31	0.79
3:kl:42:CYS:HG	3:kl:109:CYS:HG	1.31	0.79
2:Ch:119:PRO:HD3	2:Ch:138:ASP:OD1	1.82	0.79
2:Eh:119:PRO:HD3	2:Eh:138:ASP:OD1	1.82	0.79
2:Ih:41:CYS:HB3	2:Ih:98:LEU:HB3	1.64	0.79
2:Nh:119:PRO:HD3	2:Nh:138:ASP:OD1	1.82	0.79
2:Rh:41:CYS:HB3	2:Rh:98:LEU:HB3	1.64	0.79
2:dh:41:CYS:HB3	2:dh:98:LEU:HB3	1.64	0.79
2:jh:41:CYS:HB3	2:jh:98:LEU:HB3	1.64	0.79
2:kh:41:CYS:HB3	2:kh:98:LEU:HB3	1.64	0.79
2:kh:119:PRO:HD3	2:kh:138:ASP:OD1	1.82	0.79
2:lh:119:PRO:HD3	2:lh:138:ASP:OD1	1.82	0.79
2:oh:41:CYS:HB3	2:oh:98:LEU:HB3	1.64	0.79
2:xh:119:PRO:HD3	2:xh:138:ASP:OD1	1.82	0.79
2:8h:41:CYS:HB3	2:8h:98:LEU:HB3	1.64	0.79
3:ll:107:TYR:CE2	3:ll:126:VAL:HG21	2.14	0.79
3:ol:42:CYS:HG	3:ol:109:CYS:HG	1.29	0.79
3:pl:107:TYR:CE2	3:pl:126:VAL:HG21	2.14	0.79
2:Fh:41:CYS:HB3	2:Fh:98:LEU:HB3	1.64	0.78
2:Zh:41:CYS:HB3	2:Zh:98:LEU:HB3	1.64	0.78
2:2h:119:PRO:HD3	2:2h:138:ASP:OD1	1.82	0.78
2:5h:41:CYS:HB3	2:5h:98:LEU:HB3	1.64	0.78
2:ah:119:PRO:HD3	2:ah:138:ASP:OD1	1.82	0.78
2:th:119:PRO:HD3	2:th:138:ASP:OD1	1.82	0.78
3:hl:107:TYR:CE2	3:hl:126:VAL:HG21	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ll:42:CYS:HG	3:ll:109:CYS:HG	1.31	0.78
3:sl:42:CYS:HG	3:sl:109:CYS:HG	1.31	0.78
3:tl:107:TYR:CE2	3:tl:126:VAL:HG21	2.14	0.78
2:Hh:119:PRO:HD3	2:Hh:138:ASP:OD1	1.82	0.78
2:Rh:119:PRO:HD3	2:Rh:138:ASP:OD1	1.82	0.78
2:Sh:119:PRO:HD3	2:Sh:138:ASP:OD1	1.82	0.78
2:3h:41:CYS:HB3	2:3h:98:LEU:HB3	1.64	0.78
2:5h:58:GLN:H	2:5h:111:ALA:HB1	1.46	0.78
2:6h:119:PRO:HD3	2:6h:138:ASP:OD1	1.82	0.78
2:fh:119:PRO:HD3	2:fh:138:ASP:OD1	1.82	0.78
2:nh:41:CYS:HB3	2:nh:98:LEU:HB3	1.64	0.78
2:Gh:41:CYS:HB3	2:Gh:98:LEU:HB3	1.64	0.78
2:Hh:41:CYS:HB3	2:Hh:98:LEU:HB3	1.64	0.78
2:Lh:119:PRO:HD3	2:Lh:138:ASP:OD1	1.82	0.78
2:Vh:119:PRO:HD3	2:Vh:138:ASP:OD1	1.82	0.78
3:Dl:107:TYR:CE2	3:Dl:126:VAL:HG21	2.14	0.78
3:Il:42:CYS:HG	3:Il:109:CYS:HG	1.29	0.78
3:Ll:107:TYR:CE2	3:Ll:126:VAL:HG21	2.14	0.78
3:Sl:42:CYS:HG	3:Sl:109:CYS:HG	1.31	0.78
3:xl:107:TYR:CE2	3:xl:126:VAL:HG21	2.14	0.78
2:Sh:41:CYS:HB3	2:Sh:98:LEU:HB3	1.64	0.78
2:lh:41:CYS:HB3	2:lh:98:LEU:HB3	1.64	0.78
2:yh:41:CYS:HB3	2:yh:98:LEU:HB3	1.64	0.78
2:yh:119:PRO:HD3	2:yh:138:ASP:OD1	1.82	0.78
2:2h:41:CYS:HB3	2:2h:98:LEU:HB3	1.64	0.78
2:jh:119:PRO:HD3	2:jh:138:ASP:OD1	1.82	0.78
1:V:587:ASN:CB	3:Vl:87:ARG:HH11	1.92	0.78
2:Oh:119:PRO:HD3	2:Oh:138:ASP:OD1	1.82	0.78
3:Kl:107:TYR:CE2	3:Kl:126:VAL:HG21	2.13	0.78
3:el:107:TYR:CE2	3:el:126:VAL:HG21	2.14	0.78
2:Ph:119:PRO:HD3	2:Ph:138:ASP:OD1	1.82	0.78
1:c:587:ASN:CB	3:cl:87:ARG:HH11	1.92	0.78
2:6h:41:CYS:HB3	2:6h:98:LEU:HB3	1.64	0.78
2:bh:41:CYS:HB3	2:bh:98:LEU:HB3	1.64	0.78
1:N:587:ASN:CB	3:Nl:87:ARG:HH11	1.92	0.78
2:Mh:41:CYS:HB3	2:Mh:98:LEU:HB3	1.64	0.78
2:dh:119:PRO:HD3	2:dh:138:ASP:OD1	1.82	0.78
3:Jl:42:CYS:HG	3:Jl:109:CYS:HG	1.30	0.78
1:j:587:ASN:CB	3:jl:87:ARG:HH11	1.92	0.77
2:Bh:57:ARG:CG	2:Bh:113:TYR:CZ	2.68	0.77
2:Kh:57:ARG:CG	2:Kh:113:TYR:CZ	2.68	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4h:57:ARG:CG	2:4h:113:TYR:CZ	2.68	0.77
2:hh:57:ARG:CG	2:hh:113:TYR:CZ	2.68	0.77
2:th:57:ARG:CG	2:th:113:TYR:CZ	2.68	0.77
2:uh:57:ARG:CG	2:uh:113:TYR:CZ	2.68	0.77
2:xh:57:ARG:CG	2:xh:113:TYR:CZ	2.68	0.77
2:Ch:57:ARG:CG	2:Ch:113:TYR:CZ	2.68	0.77
2:Ih:57:ARG:CG	2:Ih:113:TYR:CZ	2.68	0.77
2:Lh:57:ARG:CG	2:Lh:113:TYR:CZ	2.68	0.77
2:Uh:57:ARG:CG	2:Uh:113:TYR:CZ	2.68	0.77
2:2h:57:ARG:CG	2:2h:113:TYR:CZ	2.68	0.77
2:6h:57:ARG:CG	2:6h:113:TYR:CZ	2.68	0.77
2:mh:57:ARG:CG	2:mh:113:TYR:CZ	2.68	0.77
2:oh:57:ARG:CG	2:oh:113:TYR:CZ	2.68	0.77
2:Nh:57:ARG:CG	2:Nh:113:TYR:CZ	2.68	0.77
2:ah:57:ARG:CG	2:ah:113:TYR:CZ	2.68	0.77
2:ch:57:ARG:CG	2:ch:113:TYR:CZ	2.68	0.77
2:fh:57:ARG:CG	2:fh:113:TYR:CZ	2.68	0.77
3:Dl:33:THR:HG22	3:Dl:34:PRO:CD	2.15	0.77
3:Fl:42:CYS:HG	3:Fl:109:CYS:HG	1.32	0.77
3:ol:33:THR:HG22	3:ol:34:PRO:CD	2.15	0.77
2:Oh:57:ARG:CG	2:Oh:113:TYR:CZ	2.68	0.77
2:Sh:57:ARG:CG	2:Sh:113:TYR:CZ	2.68	0.77
2:lh:57:ARG:CG	2:lh:113:TYR:CZ	2.68	0.77
2:xh:41:CYS:HB3	2:xh:98:LEU:HB3	1.64	0.77
3:Fl:33:THR:HG22	3:Fl:34:PRO:CD	2.15	0.77
3:Hl:125:LYS:HD2	3:Hl:125:LYS:N	2.00	0.77
3:Il:33:THR:HG22	3:Il:34:PRO:CD	2.15	0.77
3:Ol:33:THR:HG22	3:Ol:34:PRO:CD	2.15	0.77
3:Ol:125:LYS:N	3:Ol:125:LYS:HD2	2.00	0.77
3:Sl:33:THR:HG22	3:Sl:34:PRO:CD	2.15	0.77
3:Tl:125:LYS:HD2	3:Tl:125:LYS:N	2.00	0.77
3:cl:33:THR:HG22	3:cl:34:PRO:CD	2.15	0.77
3:el:33:THR:HG22	3:el:34:PRO:CD	2.15	0.77
3:fl:33:THR:HG22	3:fl:34:PRO:CD	2.15	0.77
3:fl:125:LYS:N	3:fl:125:LYS:HD2	2.00	0.77
3:gl:125:LYS:HD2	3:gl:125:LYS:N	2.00	0.77
3:jl:33:THR:HG22	3:jl:34:PRO:CD	2.15	0.77
3:ll:33:THR:HG22	3:ll:34:PRO:CD	2.15	0.77
3:ql:125:LYS:N	3:ql:125:LYS:HD2	2.00	0.77
3:sl:33:THR:HG22	3:sl:34:PRO:CD	2.15	0.77
3:yl:125:LYS:N	3:yl:125:LYS:HD2	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ah:41:CYS:HB3	2:Ah:98:LEU:HB3	1.64	0.77
2:Dh:57:ARG:CG	2:Dh:113:TYR:CZ	2.68	0.77
2:Fh:57:ARG:CG	2:Fh:113:TYR:CZ	2.68	0.77
2:ah:41:CYS:HB3	2:ah:98:LEU:HB3	1.64	0.77
2:eh:57:ARG:CG	2:eh:113:TYR:CZ	2.68	0.77
2:sh:57:ARG:CG	2:sh:113:TYR:CZ	2.68	0.77
3:Dl:125:LYS:HD2	3:Dl:125:LYS:N	2.00	0.77
3:El:125:LYS:HD2	3:El:125:LYS:N	2.00	0.77
3:Nl:33:THR:HG22	3:Nl:34:PRO:CD	2.15	0.77
3:Vl:33:THR:HG22	3:Vl:34:PRO:CD	2.15	0.77
3:el:125:LYS:N	3:el:125:LYS:HD2	2.00	0.77
3:il:107:TYR:CE2	3:il:126:VAL:HG21	2.14	0.77
2:Kh:41:CYS:HB3	2:Kh:98:LEU:HB3	1.64	0.77
2:Mh:128:LYS:HD2	2:Mh:128:LYS:N	2.00	0.77
2:Vh:57:ARG:CG	2:Vh:113:TYR:CZ	2.68	0.77
2:Xh:57:ARG:CG	2:Xh:113:TYR:CZ	2.68	0.77
2:bh:128:LYS:N	2:bh:128:LYS:HD2	2.00	0.77
2:jh:57:ARG:CG	2:jh:113:TYR:CZ	2.68	0.77
2:vh:57:ARG:CG	2:vh:113:TYR:CZ	2.68	0.77
3:Al:33:THR:HG22	3:Al:34:PRO:CD	2.15	0.77
3:El:42:CYS:HG	3:El:109:CYS:HG	1.26	0.77
3:Gl:125:LYS:N	3:Gl:125:LYS:HD2	2.00	0.77
3:Il:125:LYS:HD2	3:Il:125:LYS:N	2.00	0.77
3:Jl:107:TYR:CE2	3:Jl:126:VAL:HG21	2.14	0.77
3:Kl:125:LYS:N	3:Kl:125:LYS:HD2	2.00	0.77
3:Nl:125:LYS:N	3:Nl:125:LYS:HD2	2.00	0.77
3:Rl:125:LYS:N	3:Rl:125:LYS:HD2	2.00	0.77
3:Xl:125:LYS:HD2	3:Xl:125:LYS:N	2.00	0.77
3:6l:33:THR:HG22	3:6l:34:PRO:CD	2.15	0.77
3:cl:125:LYS:HD2	3:cl:125:LYS:N	2.00	0.77
3:il:125:LYS:N	3:il:125:LYS:HD2	2.00	0.77
3:kl:125:LYS:HD2	3:kl:125:LYS:N	2.00	0.77
3:xl:125:LYS:N	3:xl:125:LYS:HD2	2.00	0.77
3:8l:125:LYS:N	3:8l:125:LYS:HD2	2.00	0.77
2:Jh:57:ARG:CG	2:Jh:113:TYR:CZ	2.68	0.77
2:Zh:57:ARG:CG	2:Zh:113:TYR:CZ	2.68	0.77
2:ih:57:ARG:CG	2:ih:113:TYR:CZ	2.68	0.77
2:qh:57:ARG:CG	2:qh:113:TYR:CZ	2.68	0.77
2:8h:57:ARG:CG	2:8h:113:TYR:CZ	2.68	0.77
3:2l:33:THR:HG22	3:2l:34:PRO:CD	2.15	0.77
3:2l:107:TYR:CE2	3:2l:126:VAL:HG21	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ol:125:LYS:HD2	3:ol:125:LYS:N	2.00	0.77
3:pl:33:THR:HG22	3:pl:34:PRO:CD	2.15	0.77
3:pl:125:LYS:N	3:pl:125:LYS:HD2	2.00	0.77
2:Ah:128:LYS:HD2	2:Ah:128:LYS:N	2.00	0.77
2:Ch:128:LYS:N	2:Ch:128:LYS:HD2	2.00	0.77
2:Eh:57:ARG:CG	2:Eh:113:TYR:CZ	2.68	0.77
2:Wh:57:ARG:CG	2:Wh:113:TYR:CZ	2.68	0.77
3:Al:125:LYS:HD2	3:Al:125:LYS:N	2.00	0.77
3:Bl:33:THR:HG22	3:Bl:34:PRO:CD	2.15	0.77
3:Pl:33:THR:HG22	3:Pl:34:PRO:CD	2.15	0.77
3:Sl:125:LYS:N	3:Sl:125:LYS:HD2	2.00	0.77
3:Wl:125:LYS:N	3:Wl:125:LYS:HD2	2.00	0.77
3:Zl:125:LYS:N	3:Zl:125:LYS:HD2	2.00	0.77
3:ll:125:LYS:HD2	3:ll:125:LYS:N	2.00	0.77
3:nl:125:LYS:N	3:nl:125:LYS:HD2	2.00	0.77
3:ul:33:THR:HG22	3:ul:34:PRO:CD	2.15	0.77
3:ul:125:LYS:N	3:ul:125:LYS:HD2	2.00	0.77
3:zl:125:LYS:N	3:zl:125:LYS:HD2	2.00	0.77
2:Ch:41:CYS:HB3	2:Ch:98:LEU:HB3	1.64	0.77
2:Dh:128:LYS:N	2:Dh:128:LYS:HD2	2.00	0.77
2:Ph:128:LYS:HD2	2:Ph:128:LYS:N	2.00	0.77
2:Vh:128:LYS:N	2:Vh:128:LYS:HD2	2.00	0.77
2:ah:128:LYS:N	2:ah:128:LYS:HD2	2.00	0.77
2:dh:128:LYS:HD2	2:dh:128:LYS:N	2.00	0.77
2:ph:41:CYS:HB3	2:ph:98:LEU:HB3	1.64	0.77
2:ph:128:LYS:HD2	2:ph:128:LYS:N	2.00	0.77
2:zh:57:ARG:CG	2:zh:113:TYR:CZ	2.68	0.77
3:Bl:125:LYS:N	3:Bl:125:LYS:HD2	2.00	0.77
3:Xl:107:TYR:CE2	3:Xl:126:VAL:HG21	2.14	0.77
3:6l:107:TYR:CE2	3:6l:126:VAL:HG21	2.14	0.77
2:Yh:57:ARG:CG	2:Yh:113:TYR:CZ	2.68	0.77
2:Zh:128:LYS:N	2:Zh:128:LYS:HD2	2.00	0.77
2:eh:128:LYS:N	2:eh:128:LYS:HD2	2.00	0.77
2:gh:57:ARG:CG	2:gh:113:TYR:CZ	2.68	0.77
2:ih:128:LYS:N	2:ih:128:LYS:HD2	2.00	0.77
2:qh:128:LYS:N	2:qh:128:LYS:HD2	2.00	0.77
2:7h:57:ARG:CG	2:7h:113:TYR:CZ	2.68	0.77
3:Il:107:TYR:CE2	3:Il:126:VAL:HG21	2.14	0.77
3:Kl:33:THR:HG22	3:Kl:34:PRO:CD	2.15	0.77
3:4l:125:LYS:N	3:4l:125:LYS:HD2	2.00	0.77
3:dl:33:THR:HG22	3:dl:34:PRO:CD	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:hl:125:LYS:HD2	3:hl:125:LYS:N	2.00	0.77
3:vl:107:TYR:CE2	3:vl:126:VAL:HG21	2.14	0.77
2:Eh:128:LYS:HD2	2:Eh:128:LYS:N	2.00	0.76
2:Th:57:ARG:CG	2:Th:113:TYR:CZ	2.68	0.76
2:Xh:128:LYS:HD2	2:Xh:128:LYS:N	2.00	0.76
2:jh:128:LYS:N	2:jh:128:LYS:HD2	2.00	0.76
2:kh:57:ARG:CG	2:kh:113:TYR:CZ	2.68	0.76
2:mh:128:LYS:N	2:mh:128:LYS:HD2	2.00	0.76
2:8h:128:LYS:N	2:8h:128:LYS:HD2	2.00	0.76
3:Cl:33:THR:HG22	3:Cl:34:PRO:CD	2.15	0.76
3:Pl:107:TYR:CE2	3:Pl:126:VAL:HG23	2.20	0.76
3:Tl:33:THR:HG22	3:Tl:34:PRO:CD	2.15	0.76
3:Xl:107:TYR:CE2	3:Xl:126:VAL:HG23	2.21	0.76
3:Zl:107:TYR:CE2	3:Zl:126:VAL:HG23	2.21	0.76
3:dl:107:TYR:CE2	3:dl:126:VAL:HG23	2.20	0.76
3:gl:33:THR:HG22	3:gl:34:PRO:CD	2.15	0.76
3:il:107:TYR:CE2	3:il:126:VAL:HG23	2.21	0.76
3:ol:107:TYR:CE2	3:ol:126:VAL:HG21	2.14	0.76
3:8l:107:TYR:CE2	3:8l:126:VAL:HG23	2.21	0.76
2:Gh:57:ARG:CG	2:Gh:113:TYR:CZ	2.68	0.76
2:Lh:128:LYS:HD2	2:Lh:128:LYS:N	2.00	0.76
2:Rh:57:ARG:CG	2:Rh:113:TYR:CZ	2.68	0.76
2:Uh:128:LYS:HD2	2:Uh:128:LYS:N	2.00	0.76
2:1h:57:ARG:CG	2:1h:113:TYR:CZ	2.68	0.76
2:2h:128:LYS:HD2	2:2h:128:LYS:N	2.00	0.76
2:5h:128:LYS:HD2	2:5h:128:LYS:N	2.00	0.76
2:gh:128:LYS:N	2:gh:128:LYS:HD2	2.00	0.76
2:th:128:LYS:HD2	2:th:128:LYS:N	2.00	0.76
2:vh:128:LYS:N	2:vh:128:LYS:HD2	2.00	0.76
2:wh:57:ARG:CG	2:wh:113:TYR:CZ	2.68	0.76
3:El:33:THR:HG22	3:El:34:PRO:CD	2.15	0.76
3:Hl:33:THR:HG22	3:Hl:34:PRO:CD	2.15	0.76
3:Nl:107:TYR:CE2	3:Nl:126:VAL:HG23	2.21	0.76
3:3l:107:TYR:CE2	3:3l:126:VAL:HG23	2.21	0.76
3:5l:107:TYR:CE2	3:5l:126:VAL:HG23	2.21	0.76
3:al:33:THR:HG22	3:al:34:PRO:CD	2.15	0.76
3:cl:107:TYR:CE2	3:cl:126:VAL:HG23	2.21	0.76
3:rl:125:LYS:N	3:rl:125:LYS:HD2	2.00	0.76
3:xl:33:THR:HG22	3:xl:34:PRO:CD	2.15	0.76
1:p:587:ASN:CB	3:pl:87:ARG:HH11	1.91	0.76
2:Jh:128:LYS:N	2:Jh:128:LYS:HD2	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qh:128:LYS:HD2	2:Qh:128:LYS:N	2.00	0.76
2:Th:128:LYS:HD2	2:Th:128:LYS:N	2.00	0.76
2:3h:128:LYS:N	2:3h:128:LYS:HD2	2.00	0.76
2:nh:57:ARG:CG	2:nh:113:TYR:CZ	2.68	0.76
2:rh:128:LYS:N	2:rh:128:LYS:HD2	2.00	0.76
3:Bl:107:TYR:CE2	3:Bl:126:VAL:HG23	2.21	0.76
3:Fl:107:TYR:CE2	3:Fl:126:VAL:HG21	2.14	0.76
3:Ml:107:TYR:CE2	3:Ml:126:VAL:HG23	2.21	0.76
3:Ql:125:LYS:N	3:Ql:125:LYS:HD2	2.00	0.76
3:bl:107:TYR:CE2	3:bl:126:VAL:HG23	2.21	0.76
3:nl:33:THR:HG22	3:nl:34:PRO:CD	2.15	0.76
3:ql:33:THR:HG22	3:ql:34:PRO:CD	2.15	0.76
3:vl:42:CYS:HG	3:vl:109:CYS:HG	1.32	0.76
3:vl:125:LYS:N	3:vl:125:LYS:HD2	2.00	0.76
2:Hh:128:LYS:N	2:Hh:128:LYS:HD2	2.00	0.76
2:Ih:128:LYS:HD2	2:Ih:128:LYS:N	2.00	0.76
2:Mh:57:ARG:CG	2:Mh:113:TYR:CZ	2.68	0.76
2:5h:57:ARG:CG	2:5h:113:TYR:CZ	2.68	0.76
2:6h:128:LYS:HD2	2:6h:128:LYS:N	2.00	0.76
2:kh:128:LYS:HD2	2:kh:128:LYS:N	2.00	0.76
2:oh:128:LYS:HD2	2:oh:128:LYS:N	2.00	0.76
2:xh:128:LYS:HD2	2:xh:128:LYS:N	2.00	0.76
2:yh:128:LYS:N	2:yh:128:LYS:HD2	2.00	0.76
3:Jl:107:TYR:CE2	3:Jl:126:VAL:HG23	2.21	0.76
3:Ul:42:CYS:HG	3:Ul:109:CYS:HG	1.33	0.76
3:kl:33:THR:HG22	3:kl:34:PRO:CD	2.15	0.76
3:yl:33:THR:HG22	3:yl:34:PRO:CD	2.15	0.76
1:b:587:ASN:CB	3:bl:87:ARG:HH11	1.92	0.76
2:Kh:128:LYS:N	2:Kh:128:LYS:HD2	2.00	0.76
2:Ph:57:ARG:CG	2:Ph:113:TYR:CZ	2.68	0.76
2:Rh:128:LYS:N	2:Rh:128:LYS:HD2	2.00	0.76
2:1h:128:LYS:HD2	2:1h:128:LYS:N	2.00	0.76
2:3h:57:ARG:CG	2:3h:113:TYR:CZ	2.68	0.76
2:bh:57:ARG:CG	2:bh:113:TYR:CZ	2.68	0.76
2:dh:57:ARG:CG	2:dh:113:TYR:CZ	2.68	0.76
3:Gl:33:THR:HG22	3:Gl:34:PRO:CD	2.15	0.76
3:Jl:125:LYS:N	3:Jl:125:LYS:HD2	2.00	0.76
3:Rl:33:THR:HG22	3:Rl:34:PRO:CD	2.15	0.76
3:4l:33:THR:HG22	3:4l:34:PRO:CD	2.15	0.76
3:ql:107:TYR:CE2	3:ql:126:VAL:HG23	2.21	0.76
3:ul:107:TYR:CE2	3:ul:126:VAL:HG23	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:vl:107:TYR:CE2	3:vl:126:VAL:HG23	2.21	0.76
2:Ah:57:ARG:CG	2:Ah:113:TYR:CZ	2.68	0.76
2:Gh:128:LYS:N	2:Gh:128:LYS:HD2	2.00	0.76
2:ph:57:ARG:CG	2:ph:113:TYR:CZ	2.68	0.76
3:El:107:TYR:CE2	3:El:126:VAL:HG23	2.21	0.76
3:Ul:125:LYS:N	3:Ul:125:LYS:HD2	2.00	0.76
3:Yl:33:THR:HG22	3:Yl:34:PRO:CD	2.15	0.76
3:1l:107:TYR:CE2	3:1l:126:VAL:HG23	2.21	0.76
3:1l:125:LYS:HD2	3:1l:125:LYS:N	2.00	0.76
3:2l:125:LYS:HD2	3:2l:125:LYS:N	2.00	0.76
3:gl:107:TYR:CE2	3:gl:126:VAL:HG23	2.21	0.76
3:ll:107:TYR:CE2	3:ll:126:VAL:HG23	2.21	0.76
3:sl:107:TYR:CE2	3:sl:126:VAL:HG21	2.14	0.76
3:wl:107:TYR:CE2	3:wl:126:VAL:HG23	2.21	0.76
3:wl:125:LYS:HD2	3:wl:125:LYS:N	2.00	0.76
3:7l:33:THR:HG22	3:7l:34:PRO:CD	2.15	0.76
2:Hh:57:ARG:CG	2:Hh:113:TYR:CZ	2.68	0.76
2:nh:128:LYS:N	2:nh:128:LYS:HD2	2.00	0.76
2:wh:128:LYS:HD2	2:wh:128:LYS:N	2.00	0.76
2:yh:57:ARG:CG	2:yh:113:TYR:CZ	2.68	0.76
3:Fl:125:LYS:N	3:Fl:125:LYS:HD2	2.00	0.76
3:Gl:107:TYR:CE2	3:Gl:126:VAL:HG23	2.21	0.76
3:Ml:33:THR:HG22	3:Ml:34:PRO:CD	2.15	0.76
3:Pl:125:LYS:HD2	3:Pl:125:LYS:N	2.00	0.76
3:Sl:107:TYR:CE2	3:Sl:126:VAL:HG23	2.21	0.76
3:Tl:107:TYR:CE2	3:Tl:126:VAL:HG23	2.21	0.76
3:Vl:125:LYS:N	3:Vl:125:LYS:HD2	2.00	0.76
3:Xl:33:THR:HG22	3:Xl:34:PRO:CD	2.15	0.76
3:6l:125:LYS:N	3:6l:125:LYS:HD2	2.00	0.76
3:nl:107:TYR:CE2	3:nl:126:VAL:HG23	2.20	0.76
3:sl:125:LYS:HD2	3:sl:125:LYS:N	2.00	0.76
1:M:587:ASN:CB	3:Ml:87:ARG:HH11	1.92	0.76
2:Qh:57:ARG:CG	2:Qh:113:TYR:CZ	2.68	0.76
2:Yh:128:LYS:HD2	2:Yh:128:LYS:N	2.00	0.76
2:rh:57:ARG:CG	2:rh:113:TYR:CZ	2.68	0.76
2:sh:128:LYS:HD2	2:sh:128:LYS:N	2.00	0.76
3:Cl:125:LYS:N	3:Cl:125:LYS:HD2	2.00	0.76
3:bl:33:THR:HG22	3:bl:34:PRO:CD	2.15	0.76
3:bl:125:LYS:N	3:bl:125:LYS:HD2	2.00	0.76
3:dl:125:LYS:HD2	3:dl:125:LYS:N	2.00	0.76
3:ml:125:LYS:N	3:ml:125:LYS:HD2	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Fh:128:LYS:N	2:Fh:128:LYS:HD2	2.00	0.76
2:7h:128:LYS:N	2:7h:128:LYS:HD2	2.00	0.76
3:Ml:125:LYS:HD2	3:Ml:125:LYS:N	2.00	0.76
3:5l:125:LYS:HD2	3:5l:125:LYS:N	2.00	0.76
3:il:33:THR:HG22	3:il:34:PRO:CD	2.15	0.76
3:jl:125:LYS:N	3:jl:125:LYS:HD2	2.00	0.76
3:tl:125:LYS:N	3:tl:125:LYS:HD2	2.00	0.76
3:vl:33:THR:HG22	3:vl:34:PRO:CD	2.15	0.76
2:hh:128:LYS:HD2	2:hh:128:LYS:N	2.00	0.76
3:Jl:33:THR:HG22	3:Jl:34:PRO:CD	2.15	0.76
3:Ul:33:THR:HG22	3:Ul:34:PRO:CD	2.15	0.76
3:1l:107:TYR:CE2	3:1l:126:VAL:HG21	2.14	0.76
3:3l:125:LYS:N	3:3l:125:LYS:HD2	2.00	0.76
3:al:125:LYS:N	3:al:125:LYS:HD2	2.00	0.76
3:wl:107:TYR:CE2	3:wl:126:VAL:HG21	2.14	0.76
3:7l:125:LYS:N	3:7l:125:LYS:HD2	2.00	0.76
2:4h:128:LYS:N	2:4h:128:LYS:HD2	2.00	0.75
2:lh:128:LYS:HD2	2:lh:128:LYS:N	2.00	0.75
3:Ll:125:LYS:HD2	3:Ll:125:LYS:N	2.00	0.75
3:hl:33:THR:HG22	3:hl:34:PRO:CD	2.15	0.75
3:Yl:125:LYS:N	3:Yl:125:LYS:HD2	2.00	0.75
3:ml:33:THR:HG22	3:ml:34:PRO:CD	2.15	0.75
2:Sh:128:LYS:N	2:Sh:128:LYS:HD2	2.00	0.75
2:uh:128:LYS:N	2:uh:128:LYS:HD2	2.00	0.75
3:Hl:42:CYS:HG	3:Hl:109:CYS:HG	1.33	0.75
3:Ll:33:THR:HG22	3:Ll:34:PRO:CD	2.15	0.75
3:2l:107:TYR:CE2	3:2l:126:VAL:HG23	2.21	0.75
3:wl:33:THR:HG22	3:wl:34:PRO:CD	2.15	0.75
2:Bh:128:LYS:N	2:Bh:128:LYS:HD2	2.00	0.75
2:Nh:128:LYS:N	2:Nh:128:LYS:HD2	2.00	0.75
2:Wh:128:LYS:N	2:Wh:128:LYS:HD2	2.00	0.75
2:fh:128:LYS:N	2:fh:128:LYS:HD2	2.00	0.75
3:Ul:107:TYR:CE2	3:Ul:126:VAL:HG21	2.14	0.75
3:1l:33:THR:HG22	3:1l:34:PRO:CD	2.15	0.75
3:5l:33:THR:HG22	3:5l:34:PRO:CD	2.15	0.75
3:6l:107:TYR:CE2	3:6l:126:VAL:HG23	2.21	0.75
2:zh:128:LYS:N	2:zh:128:LYS:HD2	2.00	0.75
3:Yl:107:TYR:CE2	3:Yl:126:VAL:HG23	2.21	0.75
3:ml:107:TYR:CE2	3:ml:126:VAL:HG21	2.14	0.75
3:tl:33:THR:HG22	3:tl:34:PRO:CD	2.15	0.75
3:8l:33:THR:HG22	3:8l:34:PRO:CD	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ch:128:LYS:N	2:ch:128:LYS:HD2	2.00	0.75
3:Cl:107:TYR:CE2	3:Cl:126:VAL:HG21	2.14	0.75
3:3l:33:THR:HG22	3:3l:34:PRO:CD	2.15	0.75
3:sl:107:TYR:CE2	3:sl:126:VAL:HG23	2.21	0.75
3:7l:107:TYR:CE2	3:7l:126:VAL:HG23	2.21	0.75
2:Oh:128:LYS:N	2:Oh:128:LYS:HD2	2.00	0.75
3:Al:107:TYR:CE2	3:Al:126:VAL:HG23	2.21	0.75
3:Cl:107:TYR:CE2	3:Cl:126:VAL:HG23	2.20	0.75
3:Dl:107:TYR:CE2	3:Dl:126:VAL:HG23	2.21	0.75
3:Il:107:TYR:CE2	3:Il:126:VAL:HG23	2.21	0.75
3:Kl:42:CYS:HG	3:Kl:109:CYS:HG	1.29	0.75
3:jl:42:CYS:HG	3:jl:109:CYS:HG	1.31	0.75
3:Fl:107:TYR:CE2	3:Fl:126:VAL:HG23	2.21	0.75
3:Zl:33:THR:HG22	3:Zl:34:PRO:CD	2.15	0.75
3:al:107:TYR:CE2	3:al:126:VAL:HG23	2.20	0.75
3:zl:33:THR:HG22	3:zl:34:PRO:CD	2.15	0.75
3:Dl:42:CYS:HG	3:Dl:109:CYS:HG	1.35	0.75
3:Pl:107:TYR:CE2	3:Pl:126:VAL:HG21	2.14	0.75
3:dl:107:TYR:CE2	3:dl:126:VAL:HG21	2.14	0.75
3:el:107:TYR:CE2	3:el:126:VAL:HG23	2.21	0.75
3:ml:42:CYS:HG	3:ml:109:CYS:HG	1.34	0.75
3:ol:107:TYR:CE2	3:ol:126:VAL:HG23	2.20	0.75
1:Q:450:THR:OG1	1:Q:451:PRO:HD2	1.87	0.74
1:r:450:THR:OG1	1:r:451:PRO:HD2	1.87	0.74
1:x:450:THR:OG1	1:x:451:PRO:HD2	1.87	0.74
3:Wl:107:TYR:CE2	3:Wl:126:VAL:HG23	2.20	0.74
3:al:107:TYR:CE2	3:al:126:VAL:HG21	2.14	0.74
3:ml:107:TYR:CE2	3:ml:126:VAL:HG23	2.21	0.74
1:D:450:THR:OG1	1:D:451:PRO:HD2	1.88	0.74
1:F:450:THR:OG1	1:F:451:PRO:HD2	1.87	0.74
1:I:450:THR:OG1	1:I:451:PRO:HD2	1.87	0.74
1:K:450:THR:OG1	1:K:451:PRO:HD2	1.87	0.74
1:X:450:THR:OG1	1:X:451:PRO:HD2	1.88	0.74
1:1:450:THR:OG1	1:1:451:PRO:HD2	1.87	0.74
1:5:450:THR:OG1	1:5:451:PRO:HD2	1.87	0.74
1:a:450:THR:OG1	1:a:451:PRO:HD2	1.87	0.74
1:e:450:THR:OG1	1:e:451:PRO:HD2	1.88	0.74
1:w:450:THR:OG1	1:w:451:PRO:HD2	1.87	0.74
3:Kl:107:TYR:CE2	3:Kl:126:VAL:HG23	2.21	0.74
3:Wl:33:THR:HG22	3:Wl:34:PRO:CD	2.15	0.74
3:pl:107:TYR:CE2	3:pl:126:VAL:HG23	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:rl:33:THR:HG22	3:rl:34:PRO:CD	2.15	0.74
3:zl:107:TYR:CE2	3:zl:126:VAL:HG23	2.20	0.74
1:C:450:THR:OG1	1:C:451:PRO:HD2	1.87	0.74
1:3:450:THR:OG1	1:3:451:PRO:HD2	1.88	0.74
1:i:450:THR:OG1	1:i:451:PRO:HD2	1.88	0.74
1:o:450:THR:OG1	1:o:451:PRO:HD2	1.88	0.74
1:s:450:THR:OG1	1:s:451:PRO:HD2	1.87	0.74
2:Eh:25:GLU:CD	2:Eh:115:CYS:HB2	2.13	0.74
2:Qh:25:GLU:CD	2:Qh:115:CYS:HB2	2.13	0.74
2:rh:25:GLU:CD	2:rh:115:CYS:HB2	2.13	0.74
3:Ql:33:THR:HG22	3:Ql:34:PRO:CD	2.15	0.74
3:Ul:107:TYR:CE2	3:Ul:126:VAL:HG23	2.21	0.74
3:4l:107:TYR:CE2	3:4l:126:VAL:HG23	2.21	0.74
1:B:450:THR:OG1	1:B:451:PRO:HD2	1.87	0.74
1:M:450:THR:OG1	1:M:451:PRO:HD2	1.88	0.74
1:V:450:THR:OG1	1:V:451:PRO:HD2	1.87	0.74
1:b:450:THR:OG1	1:b:451:PRO:HD2	1.88	0.74
1:7:450:THR:OG1	1:7:451:PRO:HD2	1.87	0.74
2:Dh:25:GLU:CD	2:Dh:115:CYS:HB2	2.13	0.74
2:eh:25:GLU:CD	2:eh:115:CYS:HB2	2.13	0.74
2:qh:25:GLU:CD	2:qh:115:CYS:HB2	2.13	0.74
3:ql:31:SER:HB3	3:ql:127:THR:HG1	1.50	0.74
3:xl:107:TYR:CE2	3:xl:126:VAL:HG23	2.21	0.74
1:E:450:THR:OG1	1:E:451:PRO:HD2	1.87	0.74
1:J:450:THR:OG1	1:J:451:PRO:HD2	1.88	0.74
1:Y:450:THR:OG1	1:Y:451:PRO:HD2	1.87	0.74
1:j:450:THR:OG1	1:j:451:PRO:HD2	1.87	0.74
1:q:450:THR:OG1	1:q:451:PRO:HD2	1.87	0.74
1:u:450:THR:OG1	1:u:451:PRO:HD2	1.87	0.74
1:y:587:ASN:CB	3:yl:87:ARG:HH11	1.92	0.74
2:Ch:25:GLU:CD	2:Ch:115:CYS:HB2	2.13	0.74
2:Ih:25:GLU:CD	2:Ih:115:CYS:HB2	2.13	0.74
2:ah:25:GLU:CD	2:ah:115:CYS:HB2	2.13	0.74
2:oh:25:GLU:CD	2:oh:115:CYS:HB2	2.13	0.74
2:uh:25:GLU:CD	2:uh:115:CYS:HB2	2.13	0.74
3:Hl:107:TYR:CE2	3:Hl:126:VAL:HG23	2.20	0.74
3:bl:107:TYR:CE2	3:bl:126:VAL:HG21	2.14	0.74
3:hl:107:TYR:CE2	3:hl:126:VAL:HG23	2.21	0.74
1:L:450:THR:OG1	1:L:451:PRO:HD2	1.87	0.74
1:t:450:THR:OG1	1:t:451:PRO:HD2	1.87	0.74
1:v:450:THR:OG1	1:v:451:PRO:HD2	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Fh:25:GLU:CD	2:Fh:115:CYS:HB2	2.13	0.74
2:Nh:25:GLU:CD	2:Nh:115:CYS:HB2	2.13	0.74
2:Xh:25:GLU:CD	2:Xh:115:CYS:HB2	2.13	0.74
2:Yh:25:GLU:CD	2:Yh:115:CYS:HB2	2.13	0.74
2:ch:25:GLU:CD	2:ch:115:CYS:HB2	2.13	0.74
2:ih:25:GLU:CD	2:ih:115:CYS:HB2	2.13	0.74
3:Bl:107:TYR:CE2	3:Bl:126:VAL:HG21	2.14	0.74
3:Ml:107:TYR:CE2	3:Ml:126:VAL:HG21	2.14	0.74
3:Ol:107:TYR:CE2	3:Ol:126:VAL:HG23	2.21	0.74
3:Vl:107:TYR:CE2	3:Vl:126:VAL:HG21	2.14	0.74
3:jl:107:TYR:CE2	3:jl:126:VAL:HG23	2.21	0.74
3:kl:107:TYR:CE2	3:kl:126:VAL:HG23	2.21	0.74
3:yl:42:CYS:HG	3:yl:109:CYS:HG	1.34	0.74
1:g:450:THR:OG1	1:g:451:PRO:HD2	1.87	0.74
2:Bh:25:GLU:CD	2:Bh:115:CYS:HB2	2.13	0.74
2:Kh:25:GLU:CD	2:Kh:115:CYS:HB2	2.13	0.74
2:3h:25:GLU:CD	2:3h:115:CYS:HB2	2.13	0.74
2:4h:25:GLU:CD	2:4h:115:CYS:HB2	2.13	0.74
2:hh:25:GLU:CD	2:hh:115:CYS:HB2	2.13	0.74
2:vh:117:ARG:O	2:vh:117:ARG:HG3	1.88	0.74
2:xh:25:GLU:CD	2:xh:115:CYS:HB2	2.13	0.74
2:7h:25:GLU:CD	2:7h:115:CYS:HB2	2.13	0.74
2:8h:25:GLU:CD	2:8h:115:CYS:HB2	2.13	0.74
3:ml:31:SER:HB3	3:ml:127:THR:HG1	1.51	0.74
3:tl:107:TYR:CE2	3:tl:126:VAL:HG23	2.21	0.74
3:yl:107:TYR:CE2	3:yl:126:VAL:HG23	2.20	0.74
1:H:587:ASN:CB	3:Hl:87:ARG:HH11	1.92	0.74
1:N:450:THR:OG1	1:N:451:PRO:HD2	1.87	0.74
1:T:450:THR:OG1	1:T:451:PRO:HD2	1.87	0.74
1:p:450:THR:OG1	1:p:451:PRO:HD2	1.87	0.74
2:Jh:117:ARG:HG3	2:Jh:117:ARG:O	1.88	0.74
2:Lh:117:ARG:O	2:Lh:117:ARG:HG3	1.88	0.74
2:Zh:25:GLU:CD	2:Zh:115:CYS:HB2	2.13	0.74
2:Zh:117:ARG:O	2:Zh:117:ARG:HG3	1.88	0.74
2:1h:117:ARG:O	2:1h:117:ARG:HG3	1.88	0.74
2:sh:25:GLU:CD	2:sh:115:CYS:HB2	2.13	0.74
2:th:117:ARG:O	2:th:117:ARG:HG3	1.88	0.74
2:wh:117:ARG:O	2:wh:117:ARG:HG3	1.88	0.74
2:8h:117:ARG:O	2:8h:117:ARG:HG3	1.88	0.74
3:Gl:107:TYR:CE2	3:Gl:126:VAL:HG21	2.14	0.74
3:Vl:107:TYR:CE2	3:Vl:126:VAL:HG23	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:jl:107:TYR:CE2	3:jl:126:VAL:HG21	2.14	0.74
2:2h:25:GLU:CD	2:2h:115:CYS:HB2	2.13	0.74
2:5h:25:GLU:CD	2:5h:115:CYS:HB2	2.13	0.74
2:6h:50:SER:O	2:6h:51:TYR:HB2	1.88	0.74
3:fl:107:TYR:CE2	3:fl:126:VAL:HG23	2.21	0.74
3:ul:107:TYR:CE2	3:ul:126:VAL:HG21	2.14	0.74
1:A:450:THR:OG1	1:A:451:PRO:HD2	1.87	0.74
1:P:450:THR:OG1	1:P:451:PRO:HD2	1.88	0.74
1:c:450:THR:OG1	1:c:451:PRO:HD2	1.87	0.74
1:f:450:THR:OG1	1:f:451:PRO:HD2	1.87	0.74
1:y:450:THR:OG1	1:y:451:PRO:HD2	1.88	0.74
2:Gh:25:GLU:CD	2:Gh:115:CYS:HB2	2.13	0.74
2:Ih:117:ARG:O	2:Ih:117:ARG:HG3	1.88	0.74
2:Rh:25:GLU:CD	2:Rh:115:CYS:HB2	2.13	0.74
2:Uh:50:SER:O	2:Uh:51:TYR:HB2	1.88	0.74
2:2h:50:SER:O	2:2h:51:TYR:HB2	1.88	0.74
2:6h:25:GLU:CD	2:6h:115:CYS:HB2	2.13	0.74
2:mh:50:SER:O	2:mh:51:TYR:HB2	1.88	0.74
2:nh:25:GLU:CD	2:nh:115:CYS:HB2	2.13	0.74
3:Ll:107:TYR:CE2	3:Ll:126:VAL:HG23	2.21	0.74
3:Ql:107:TYR:CE2	3:Ql:126:VAL:HG23	2.21	0.74
3:Wl:107:TYR:CE2	3:Wl:126:VAL:HG21	2.14	0.74
3:5l:107:TYR:CE2	3:5l:126:VAL:HG21	2.14	0.74
3:fl:107:TYR:CE2	3:fl:126:VAL:HG21	2.14	0.74
3:rl:107:TYR:CE2	3:rl:126:VAL:HG23	2.20	0.74
1:O:450:THR:OG1	1:O:451:PRO:HD2	1.87	0.73
1:W:450:THR:OG1	1:W:451:PRO:HD2	1.87	0.73
1:d:450:THR:OG1	1:d:451:PRO:HD2	1.88	0.73
1:z:450:THR:OG1	1:z:451:PRO:HD2	1.88	0.73
2:Oh:25:GLU:CD	2:Oh:115:CYS:HB2	2.13	0.73
2:Ph:25:GLU:CD	2:Ph:115:CYS:HB2	2.13	0.73
2:Ph:117:ARG:O	2:Ph:117:ARG:HG3	1.88	0.73
2:dh:25:GLU:CD	2:dh:115:CYS:HB2	2.13	0.73
2:fh:25:GLU:CD	2:fh:115:CYS:HB2	2.13	0.73
2:kh:25:GLU:CD	2:kh:115:CYS:HB2	2.13	0.73
2:oh:117:ARG:O	2:oh:117:ARG:HG3	1.88	0.73
1:H:450:THR:OG1	1:H:451:PRO:HD2	1.88	0.73
1:Z:450:THR:OG1	1:Z:451:PRO:HD2	1.87	0.73
2:Ch:50:SER:O	2:Ch:51:TYR:HB2	1.88	0.73
2:Sh:25:GLU:CD	2:Sh:115:CYS:HB2	2.13	0.73
2:ah:50:SER:O	2:ah:51:TYR:HB2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dh:117:ARG:O	2:dh:117:ARG:HG3	1.88	0.73
2:ih:50:SER:O	2:ih:51:TYR:HB2	1.88	0.73
2:yh:25:GLU:CD	2:yh:115:CYS:HB2	2.13	0.73
3:Ol:107:TYR:CE2	3:Ol:126:VAL:HG21	2.14	0.73
3:nl:107:TYR:CE2	3:nl:126:VAL:HG21	2.14	0.73
1:k:450:THR:OG1	1:k:451:PRO:HD2	1.87	0.73
2:Jh:25:GLU:CD	2:Jh:115:CYS:HB2	2.13	0.73
2:Xh:50:SER:O	2:Xh:51:TYR:HB2	1.88	0.73
2:2h:117:ARG:O	2:2h:117:ARG:HG3	1.88	0.73
2:lh:25:GLU:CD	2:lh:115:CYS:HB2	2.13	0.73
2:ph:117:ARG:O	2:ph:117:ARG:HG3	1.88	0.73
3:rl:107:TYR:CE2	3:rl:126:VAL:HG21	2.14	0.73
1:R:450:THR:OG1	1:R:451:PRO:HD2	1.87	0.73
1:U:460:LEU:HD21	1:q:488:VAL:CG1	2.19	0.73
1:f:460:LEU:HD21	1:j:488:VAL:CG1	2.19	0.73
1:h:460:LEU:HD21	1:p:488:VAL:CG1	2.18	0.73
2:Ah:117:ARG:O	2:Ah:117:ARG:HG3	1.88	0.73
2:Rh:50:SER:O	2:Rh:51:TYR:HB2	1.88	0.73
2:6h:117:ARG:O	2:6h:117:ARG:HG3	1.88	0.73
2:uh:117:ARG:O	2:uh:117:ARG:HG3	1.88	0.73
2:vh:25:GLU:CD	2:vh:115:CYS:HB2	2.13	0.73
3:Ql:107:TYR:CE2	3:Ql:126:VAL:HG21	2.14	0.73
3:zl:107:TYR:CE2	3:zl:126:VAL:HG21	2.14	0.73
1:A:488:VAL:CG1	1:4:460:LEU:HD21	2.19	0.73
1:B:460:LEU:HD21	1:O:488:VAL:CG1	2.19	0.73
1:F:460:LEU:HD21	1:6:488:VAL:CG1	2.18	0.73
1:G:488:VAL:CG1	1:t:460:LEU:HD21	2.19	0.73
1:O:460:LEU:HD21	1:V:488:VAL:CG1	2.19	0.73
1:U:450:THR:OG1	1:U:451:PRO:HD2	1.87	0.73
1:a:404:ARG:H	1:a:407:ASN:HD22	1.37	0.73
1:a:488:VAL:CG1	1:8:460:LEU:HD21	2.19	0.73
1:f:488:VAL:CG1	1:u:460:LEU:HD21	2.19	0.73
1:g:488:VAL:CG1	1:n:460:LEU:HD21	2.19	0.73
1:8:450:THR:OG1	1:8:451:PRO:HD2	1.87	0.73
2:Hh:25:GLU:CD	2:Hh:115:CYS:HB2	2.13	0.73
2:Uh:117:ARG:O	2:Uh:117:ARG:HG3	1.88	0.73
2:Vh:50:SER:O	2:Vh:51:TYR:HB2	1.88	0.73
2:6h:88:THR:HG22	2:6h:101:GLN:HE22	1.38	0.73
2:gh:25:GLU:CD	2:gh:115:CYS:HB2	2.13	0.73
2:jh:50:SER:O	2:jh:51:TYR:HB2	1.88	0.73
3:3l:107:TYR:CE2	3:3l:126:VAL:HG21	2.14	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:ARG:H	1:C:407:ASN:HD22	1.37	0.73
1:C:488:VAL:CG1	1:Z:460:LEU:HD21	2.19	0.73
1:E:488:VAL:CG1	1:m:460:LEU:HD21	2.19	0.73
1:G:404:ARG:H	1:G:407:ASN:HD22	1.37	0.73
1:G:460:LEU:HD21	1:T:488:VAL:CG1	2.19	0.73
1:J:460:LEU:HD21	1:X:488:VAL:CG1	2.19	0.73
1:L:460:LEU:HD21	1:n:488:VAL:CG1	2.19	0.73
2:Ph:50:SER:O	2:Ph:51:TYR:HB2	1.88	0.73
2:dh:50:SER:O	2:dh:51:TYR:HB2	1.88	0.73
2:kh:50:SER:O	2:kh:51:TYR:HB2	1.88	0.73
2:mh:117:ARG:O	2:mh:117:ARG:HG3	1.88	0.73
1:I:488:VAL:CG1	1:i:460:LEU:HD21	2.19	0.73
1:i:488:VAL:CG1	1:v:460:LEU:HD21	2.19	0.73
1:m:450:THR:OG1	1:m:451:PRO:HD2	1.87	0.73
1:n:404:ARG:H	1:n:407:ASN:HD22	1.37	0.73
1:n:450:THR:OG1	1:n:451:PRO:HD2	1.87	0.73
2:Bh:117:ARG:HG3	2:Bh:117:ARG:O	1.88	0.73
2:Ih:50:SER:O	2:Ih:51:TYR:HB2	1.88	0.73
2:Lh:25:GLU:CD	2:Lh:115:CYS:HB2	2.13	0.73
2:Sh:50:SER:O	2:Sh:51:TYR:HB2	1.88	0.73
2:Th:25:GLU:CD	2:Th:115:CYS:HB2	2.13	0.73
2:bh:117:ARG:O	2:bh:117:ARG:HG3	1.88	0.73
2:fh:117:ARG:O	2:fh:117:ARG:HG3	1.88	0.73
2:mh:25:GLU:CD	2:mh:115:CYS:HB2	2.13	0.73
2:th:25:GLU:CD	2:th:115:CYS:HB2	2.13	0.73
1:N:460:LEU:HD21	1:z:488:VAL:CG1	2.19	0.73
1:X:460:LEU:HD21	1:o:488:VAL:CG1	2.19	0.73
1:l:450:THR:OG1	1:l:451:PRO:HD2	1.88	0.73
2:Mh:117:ARG:O	2:Mh:117:ARG:HG3	1.88	0.73
2:Qh:50:SER:O	2:Qh:51:TYR:HB2	1.88	0.73
2:Uh:25:GLU:CD	2:Uh:115:CYS:HB2	2.13	0.73
2:jh:25:GLU:CD	2:jh:115:CYS:HB2	2.13	0.73
2:oh:50:SER:O	2:oh:51:TYR:HB2	1.88	0.73
2:sh:117:ARG:O	2:sh:117:ARG:HG3	1.88	0.73
2:vh:88:THR:HG22	2:vh:101:GLN:HE22	1.39	0.73
1:G:450:THR:OG1	1:G:451:PRO:HD2	1.87	0.73
1:P:488:VAL:CG1	1:W:460:LEU:HD21	2.19	0.73
1:W:488:VAL:CG1	1:c:460:LEU:HD21	2.19	0.73
1:Z:587:ASN:CB	3:Zl:87:ARG:HH11	1.92	0.73
1:d:488:VAL:CG1	1:z:460:LEU:HD21	2.19	0.73
1:r:404:ARG:H	1:r:407:ASN:HD22	1.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:587:ASN:CB	3:8l:87:ARG:HH11	1.92	0.73
2:Fh:117:ARG:HG3	2:Fh:117:ARG:O	1.88	0.73
2:5h:50:SER:O	2:5h:51:TYR:HB2	1.88	0.73
2:lh:50:SER:O	2:lh:51:TYR:HB2	1.88	0.73
2:rh:50:SER:O	2:rh:51:TYR:HB2	1.88	0.73
2:zh:50:SER:O	2:zh:51:TYR:HB2	1.88	0.73
1:C:460:LEU:HD21	1:R:488:VAL:CG1	2.19	0.73
1:R:404:ARG:H	1:R:407:ASN:HD22	1.37	0.73
1:S:450:THR:OG1	1:S:451:PRO:HD2	1.88	0.73
1:a:460:LEU:HD21	1:k:488:VAL:CG1	2.19	0.73
1:s:488:VAL:CG1	1:w:460:LEU:HD21	2.18	0.73
2:Oh:117:ARG:O	2:Oh:117:ARG:HG3	1.88	0.73
2:bh:25:GLU:CD	2:bh:115:CYS:HB2	2.13	0.73
1:H:526:HIS:HE1	1:H:561:ASP:OD2	1.72	0.72
1:K:460:LEU:HD21	1:m:488:VAL:CG1	2.19	0.72
1:M:404:ARG:H	1:M:407:ASN:HD22	1.37	0.72
1:M:488:VAL:CG1	1:S:460:LEU:HD21	2.19	0.72
1:Q:404:ARG:H	1:Q:407:ASN:HD22	1.37	0.72
1:T:526:HIS:HE1	1:T:561:ASP:OD2	1.72	0.72
1:b:404:ARG:H	1:b:407:ASN:HD22	1.37	0.72
1:h:526:HIS:HE1	1:h:561:ASP:OD2	1.72	0.72
1:y:526:HIS:HE1	1:y:561:ASP:OD2	1.72	0.72
1:z:404:ARG:H	1:z:407:ASN:HD22	1.37	0.72
2:Ah:25:GLU:CD	2:Ah:115:CYS:HB2	2.13	0.72
2:Vh:25:GLU:CD	2:Vh:115:CYS:HB2	2.13	0.72
2:Wh:25:GLU:CD	2:Wh:115:CYS:HB2	2.13	0.72
2:Wh:50:SER:O	2:Wh:51:TYR:HB2	1.88	0.72
2:3h:50:SER:O	2:3h:51:TYR:HB2	1.88	0.72
2:ah:117:ARG:HG3	2:ah:117:ARG:O	1.88	0.72
2:ph:25:GLU:CD	2:ph:115:CYS:HB2	2.13	0.72
3:Rl:107:TYR:CE2	3:Rl:126:VAL:HG23	2.21	0.72
1:D:526:HIS:HE1	1:D:561:ASP:OD2	1.73	0.72
1:E:526:HIS:HE1	1:E:561:ASP:OD2	1.73	0.72
1:F:404:ARG:H	1:F:407:ASN:HD22	1.37	0.72
1:F:488:VAL:CG1	1:1:460:LEU:HD21	2.19	0.72
1:H:460:LEU:HD21	1:7:488:VAL:CG1	2.19	0.72
1:O:526:HIS:HE1	1:O:561:ASP:OD2	1.72	0.72
1:U:404:ARG:H	1:U:407:ASN:HD22	1.37	0.72
1:U:488:VAL:CG1	1:x:460:LEU:HD21	2.19	0.72
1:4:526:HIS:HE1	1:4:561:ASP:OD2	1.72	0.72
1:5:404:ARG:H	1:5:407:ASN:HD22	1.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:450:THR:OG1	1:6:451:PRO:HD2	1.87	0.72
1:f:526:HIS:HE1	1:f:561:ASP:OD2	1.72	0.72
1:g:526:HIS:HE1	1:g:561:ASP:OD2	1.73	0.72
1:k:404:ARG:H	1:k:407:ASN:HD22	1.37	0.72
1:s:404:ARG:H	1:s:407:ASN:HD22	1.37	0.72
1:u:526:HIS:HE1	1:u:561:ASP:OD2	1.72	0.72
2:Mh:25:GLU:CD	2:Mh:115:CYS:HB2	2.13	0.72
2:wh:25:GLU:CD	2:wh:115:CYS:HB2	2.13	0.72
2:zh:25:GLU:CD	2:zh:115:CYS:HB2	2.13	0.72
1:B:526:HIS:HE1	1:B:561:ASP:OD2	1.72	0.72
1:E:404:ARG:H	1:E:407:ASN:HD22	1.37	0.72
1:N:488:VAL:CG1	1:d:460:LEU:HD21	2.19	0.72
1:P:460:LEU:HD21	1:c:488:VAL:CG1	2.19	0.72
1:S:488:VAL:CG1	1:r:460:LEU:HD21	2.19	0.72
1:W:404:ARG:H	1:W:407:ASN:HD22	1.37	0.72
1:X:526:HIS:HE1	1:X:561:ASP:OD2	1.73	0.72
1:Y:488:VAL:CG1	1:y:460:LEU:HD21	2.19	0.72
1:2:450:THR:OG1	1:2:451:PRO:HD2	1.87	0.72
1:3:404:ARG:H	1:3:407:ASN:HD22	1.37	0.72
1:4:450:THR:OG1	1:4:451:PRO:HD2	1.87	0.72
1:b:488:VAL:CG1	1:l:460:LEU:HD21	2.19	0.72
1:e:526:HIS:HE1	1:e:561:ASP:OD2	1.73	0.72
1:i:526:HIS:HE1	1:i:561:ASP:OD2	1.73	0.72
1:j:404:ARG:H	1:j:407:ASN:HD22	1.37	0.72
1:m:404:ARG:H	1:m:407:ASN:HD22	1.37	0.72
1:q:404:ARG:H	1:q:407:ASN:HD22	1.37	0.72
1:q:526:HIS:HE1	1:q:561:ASP:OD2	1.73	0.72
1:8:526:HIS:HE1	1:8:561:ASP:OD2	1.72	0.72
2:Ch:117:ARG:O	2:Ch:117:ARG:HG3	1.88	0.72
2:ih:117:ARG:HG3	2:ih:117:ARG:O	1.88	0.72
2:nh:50:SER:O	2:nh:51:TYR:HB2	1.88	0.72
2:uh:50:SER:O	2:uh:51:TYR:HB2	1.88	0.72
3:Yl:107:TYR:CE2	3:Yl:126:VAL:HG21	2.14	0.72
1:C:526:HIS:HE1	1:C:561:ASP:OD2	1.72	0.72
1:Q:460:LEU:HD21	1:l:488:VAL:CG1	2.19	0.72
1:X:404:ARG:H	1:X:407:ASN:HD22	1.37	0.72
1:Z:526:HIS:HE1	1:Z:561:ASP:OD2	1.72	0.72
1:5:460:LEU:HD21	1:h:488:VAL:CG1	2.19	0.72
1:a:526:HIS:HE1	1:a:561:ASP:OD2	1.72	0.72
1:h:450:THR:OG1	1:h:451:PRO:HD2	1.87	0.72
2:Bh:50:SER:O	2:Bh:51:TYR:HB2	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Kh:50:SER:O	2:Kh:51:TYR:HB2	1.88	0.72
2:Mh:50:SER:O	2:Mh:51:TYR:HB2	1.88	0.72
2:Nh:117:ARG:HG3	2:Nh:117:ARG:O	1.88	0.72
2:Xh:39:LEU:HB2	2:Xh:100:LEU:HB3	1.72	0.72
2:Xh:117:ARG:O	2:Xh:117:ARG:HG3	1.88	0.72
2:ih:39:LEU:HB2	2:ih:100:LEU:HB3	1.72	0.72
2:xh:50:SER:O	2:xh:51:TYR:HB2	1.88	0.72
1:D:488:VAL:CG1	1:7:460:LEU:HD21	2.19	0.72
1:I:526:HIS:HE1	1:I:561:ASP:OD2	1.72	0.72
1:V:404:ARG:H	1:V:407:ASN:HD22	1.37	0.72
1:i:404:ARG:H	1:i:407:ASN:HD22	1.37	0.72
1:o:526:HIS:HE1	1:o:561:ASP:OD2	1.72	0.72
1:p:404:ARG:H	1:p:407:ASN:HD22	1.37	0.72
2:Gh:50:SER:O	2:Gh:51:TYR:HB2	1.88	0.72
2:1h:25:GLU:CD	2:1h:115:CYS:HB2	2.13	0.72
1:l:526:HIS:HE1	1:l:561:ASP:OD2	1.72	0.72
2:Jh:88:THR:HG22	2:Jh:101:GLN:HE22	1.39	0.72
2:bh:50:SER:O	2:bh:51:TYR:HB2	1.88	0.72
2:ch:117:ARG:O	2:ch:117:ARG:HG3	1.88	0.72
2:qh:39:LEU:HB2	2:qh:100:LEU:HB3	1.72	0.72
2:wh:39:LEU:HB2	2:wh:100:LEU:HB3	1.72	0.72
2:yh:117:ARG:O	2:yh:117:ARG:HG3	1.88	0.72
3:7l:107:TYR:CE2	3:7l:126:VAL:HG21	2.14	0.72
1:A:404:ARG:H	1:A:407:ASN:HD22	1.37	0.72
1:G:526:HIS:HE1	1:G:561:ASP:OD2	1.72	0.72
1:J:587:ASN:CB	3:Jl:87:ARG:HH11	1.92	0.72
1:Y:460:LEU:HD21	1:e:488:VAL:CG1	2.19	0.72
1:3:460:LEU:HD21	1:4:488:VAL:CG1	2.19	0.72
1:e:460:LEU:HD21	1:y:488:VAL:CG1	2.19	0.72
1:j:460:LEU:HD21	1:u:488:VAL:CG1	2.19	0.72
1:w:404:ARG:H	1:w:407:ASN:HD22	1.37	0.72
1:z:526:HIS:HE1	1:z:561:ASP:OD2	1.73	0.72
2:Eh:39:LEU:HB2	2:Eh:100:LEU:HB3	1.72	0.72
2:Eh:50:SER:O	2:Eh:51:TYR:HB2	1.88	0.72
2:Eh:117:ARG:O	2:Eh:117:ARG:HG3	1.88	0.72
2:Hh:117:ARG:O	2:Hh:117:ARG:HG3	1.88	0.72
2:Qh:117:ARG:O	2:Qh:117:ARG:HG3	1.88	0.72
2:Th:117:ARG:O	2:Th:117:ARG:HG3	1.88	0.72
2:1h:39:LEU:HB2	2:1h:100:LEU:HB3	1.72	0.72
2:hh:39:LEU:HB2	2:hh:100:LEU:HB3	1.72	0.72
3:Ql:42:CYS:HG	3:Ql:109:CYS:HG	1.35	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:460:LEU:HD21	1:H:488:VAL:CG1	2.19	0.72
1:Q:488:VAL:CG1	1:b:460:LEU:HD21	2.19	0.72
1:S:526:HIS:HE1	1:S:561:ASP:OD2	1.72	0.72
1:W:526:HIS:HE1	1:W:561:ASP:OD2	1.73	0.72
1:Y:526:HIS:HE1	1:Y:561:ASP:OD2	1.73	0.72
1:1:404:ARG:H	1:1:407:ASN:HD22	1.37	0.72
1:1:526:HIS:HE1	1:1:561:ASP:OD2	1.72	0.72
1:n:526:HIS:HE1	1:n:561:ASP:OD2	1.73	0.72
2:Bh:39:LEU:HB2	2:Bh:100:LEU:HB3	1.72	0.72
2:Dh:39:LEU:HB2	2:Dh:100:LEU:HB3	1.72	0.72
2:Jh:39:LEU:HB2	2:Jh:100:LEU:HB3	1.72	0.72
2:Qh:39:LEU:HB2	2:Qh:100:LEU:HB3	1.72	0.72
2:Rh:117:ARG:O	2:Rh:117:ARG:HG3	1.88	0.72
2:Wh:39:LEU:HB2	2:Wh:100:LEU:HB3	1.72	0.72
2:Yh:39:LEU:HB2	2:Yh:100:LEU:HB3	1.72	0.72
2:4h:39:LEU:HB2	2:4h:100:LEU:HB3	1.72	0.72
2:eh:39:LEU:HB2	2:eh:100:LEU:HB3	1.72	0.72
2:fh:39:LEU:HB2	2:fh:100:LEU:HB3	1.72	0.72
2:qh:50:SER:O	2:qh:51:TYR:HB2	1.88	0.72
2:rh:39:LEU:HB2	2:rh:100:LEU:HB3	1.72	0.72
2:uh:39:LEU:HB2	2:uh:100:LEU:HB3	1.72	0.72
2:vh:39:LEU:HB2	2:vh:100:LEU:HB3	1.72	0.72
2:7h:39:LEU:HB2	2:7h:100:LEU:HB3	1.72	0.72
1:B:488:VAL:CG1	1:V:460:LEU:HD21	2.19	0.72
1:o:404:ARG:H	1:o:407:ASN:HD22	1.37	0.72
1:x:404:ARG:H	1:x:407:ASN:HD22	1.37	0.72
1:7:526:HIS:HE1	1:7:561:ASP:OD2	1.73	0.72
2:Oh:39:LEU:HB2	2:Oh:100:LEU:HB3	1.72	0.72
2:Th:39:LEU:HB2	2:Th:100:LEU:HB3	1.72	0.72
2:Vh:39:LEU:HB2	2:Vh:100:LEU:HB3	1.72	0.72
2:gh:117:ARG:O	2:gh:117:ARG:HG3	1.88	0.72
2:kh:117:ARG:O	2:kh:117:ARG:HG3	1.88	0.72
2:qh:117:ARG:O	2:qh:117:ARG:HG3	1.88	0.72
2:rh:117:ARG:O	2:rh:117:ARG:HG3	1.88	0.72
2:th:50:SER:O	2:th:51:TYR:HB2	1.88	0.72
2:yh:50:SER:O	2:yh:51:TYR:HB2	1.88	0.72
2:zh:39:LEU:HB2	2:zh:100:LEU:HB3	1.72	0.72
3:Ml:100:GLN:HA	3:Ml:100:GLN:NE2	2.05	0.72
3:Sl:100:GLN:HA	3:Sl:100:GLN:NE2	2.05	0.72
3:1l:100:GLN:HA	3:1l:100:GLN:NE2	2.05	0.72
3:ll:100:GLN:HA	3:ll:100:GLN:NE2	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:404:ARG:H	1:B:407:ASN:HD22	1.37	0.72
1:K:404:ARG:H	1:K:407:ASN:HD22	1.37	0.72
1:L:488:VAL:CG1	1:g:460:LEU:HD21	2.19	0.72
1:M:460:LEU:HD21	1:r:488:VAL:CG1	2.19	0.72
1:Q:526:HIS:HE1	1:Q:561:ASP:OD2	1.72	0.72
1:V:526:HIS:HE1	1:V:561:ASP:OD2	1.72	0.72
1:2:460:LEU:HD21	1:w:488:VAL:CG1	2.19	0.72
1:2:488:VAL:CG1	1:s:460:LEU:HD21	2.19	0.72
1:j:526:HIS:HE1	1:j:561:ASP:OD2	1.72	0.72
1:p:526:HIS:HE1	1:p:561:ASP:OD2	1.72	0.72
1:w:526:HIS:HE1	1:w:561:ASP:OD2	1.72	0.72
2:Oh:50:SER:O	2:Oh:51:TYR:HB2	1.88	0.72
2:gh:39:LEU:HB2	2:gh:100:LEU:HB3	1.72	0.72
2:7h:50:SER:O	2:7h:51:TYR:HB2	1.88	0.72
3:Dl:100:GLN:HA	3:Dl:100:GLN:NE2	2.05	0.72
3:El:107:TYR:CE2	3:El:126:VAL:HG21	2.14	0.72
3:Ll:100:GLN:HA	3:Ll:100:GLN:NE2	2.05	0.72
3:bl:100:GLN:HA	3:bl:100:GLN:NE2	2.05	0.72
3:ql:107:TYR:CE2	3:ql:126:VAL:HG21	2.14	0.72
3:tl:100:GLN:HA	3:tl:100:GLN:NE2	2.05	0.72
3:wl:100:GLN:HA	3:wl:100:GLN:NE2	2.05	0.72
1:I:404:ARG:H	1:I:407:ASN:HD22	1.37	0.71
1:J:488:VAL:CG1	1:o:460:LEU:HD21	2.19	0.71
1:T:460:LEU:HD21	1:t:488:VAL:CG1	2.19	0.71
1:5:488:VAL:CG1	1:p:460:LEU:HD21	2.19	0.71
1:d:404:ARG:H	1:d:407:ASN:HD22	1.37	0.71
1:m:587:ASN:CB	3:ml:87:ARG:HH11	1.92	0.71
1:r:526:HIS:HE1	1:r:561:ASP:OD2	1.72	0.71
1:u:404:ARG:H	1:u:407:ASN:HD22	1.37	0.71
1:y:404:ARG:H	1:y:407:ASN:HD22	1.37	0.71
2:Ah:50:SER:O	2:Ah:51:TYR:HB2	1.88	0.71
2:Lh:50:SER:O	2:Lh:51:TYR:HB2	1.88	0.71
2:Sh:117:ARG:O	2:Sh:117:ARG:HG3	1.88	0.71
2:Yh:50:SER:O	2:Yh:51:TYR:HB2	1.88	0.71
2:1h:50:SER:O	2:1h:51:TYR:HB2	1.88	0.71
2:ch:50:SER:O	2:ch:51:TYR:HB2	1.88	0.71
2:eh:117:ARG:HG3	2:eh:117:ARG:O	1.88	0.71
2:gh:50:SER:O	2:gh:51:TYR:HB2	1.88	0.71
2:nh:117:ARG:O	2:nh:117:ARG:HG3	1.88	0.71
3:4l:100:GLN:HA	3:4l:100:GLN:NE2	2.05	0.71
3:el:100:GLN:HA	3:el:100:GLN:NE2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:526:HIS:HE1	1:A:561:ASP:OD2	1.72	0.71
1:1:488:VAL:CG1	1:6:460:LEU:HD21	2.19	0.71
1:5:526:HIS:HE1	1:5:561:ASP:OD2	1.72	0.71
1:v:587:ASN:CB	3:vl:87:ARG:HH11	1.92	0.71
2:Gh:117:ARG:O	2:Gh:117:ARG:HG3	1.88	0.71
2:Hh:50:SER:O	2:Hh:51:TYR:HB2	1.88	0.71
2:Nh:50:SER:O	2:Nh:51:TYR:HB2	1.88	0.71
2:Uh:39:LEU:HB2	2:Uh:100:LEU:HB3	1.72	0.71
2:Vh:119:PRO:CD	2:Vh:138:ASP:OD1	2.39	0.71
2:jh:39:LEU:HB2	2:jh:100:LEU:HB3	1.72	0.71
2:nh:39:LEU:HB2	2:nh:100:LEU:HB3	1.72	0.71
2:ph:50:SER:O	2:ph:51:TYR:HB2	1.88	0.71
2:7h:117:ARG:O	2:7h:117:ARG:HG3	1.88	0.71
3:Ql:100:GLN:HA	3:Ql:100:GLN:NE2	2.05	0.71
3:5l:100:GLN:HA	3:5l:100:GLN:NE2	2.05	0.71
3:hl:100:GLN:HA	3:hl:100:GLN:NE2	2.05	0.71
3:rl:100:GLN:HA	3:rl:100:GLN:NE2	2.05	0.71
1:H:404:ARG:H	1:H:407:ASN:HD22	1.37	0.71
1:I:460:LEU:HD21	1:v:488:VAL:CG1	2.19	0.71
1:U:526:HIS:HE1	1:U:561:ASP:OD2	1.72	0.71
1:3:526:HIS:HE1	1:3:561:ASP:OD2	1.73	0.71
1:c:526:HIS:HE1	1:c:561:ASP:OD2	1.73	0.71
2:Dh:117:ARG:O	2:Dh:117:ARG:HG3	1.88	0.71
2:Gh:39:LEU:HB2	2:Gh:100:LEU:HB3	1.72	0.71
2:Jh:119:PRO:CD	2:Jh:138:ASP:OD1	2.39	0.71
2:Lh:39:LEU:HB2	2:Lh:100:LEU:HB3	1.72	0.71
2:Th:50:SER:O	2:Th:51:TYR:HB2	1.88	0.71
2:Yh:117:ARG:O	2:Yh:117:ARG:HG3	1.88	0.71
2:jh:119:PRO:CD	2:jh:138:ASP:OD1	2.39	0.71
2:lh:117:ARG:O	2:lh:117:ARG:HG3	1.88	0.71
2:mh:39:LEU:HB2	2:mh:100:LEU:HB3	1.72	0.71
2:vh:119:PRO:CD	2:vh:138:ASP:OD1	2.39	0.71
2:wh:50:SER:O	2:wh:51:TYR:HB2	1.88	0.71
3:Ul:100:GLN:HA	3:Ul:100:GLN:NE2	2.05	0.71
3:Wl:100:GLN:HA	3:Wl:100:GLN:NE2	2.05	0.71
3:3l:100:GLN:HA	3:3l:100:GLN:NE2	2.05	0.71
3:zl:100:GLN:HA	3:zl:100:GLN:NE2	2.05	0.71
1:E:460:LEU:HD21	1:K:488:VAL:CG1	2.19	0.71
1:J:526:HIS:HE1	1:J:561:ASP:OD2	1.72	0.71
1:N:526:HIS:HE1	1:N:561:ASP:OD2	1.73	0.71
1:P:404:ARG:H	1:P:407:ASN:HD22	1.37	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:404:ARG:H	1:e:407:ASN:HD22	1.37	0.71
1:q:460:LEU:HD21	1:x:488:VAL:CG1	2.19	0.71
2:Sh:39:LEU:HB2	2:Sh:100:LEU:HB3	1.72	0.71
2:Xh:119:PRO:CD	2:Xh:138:ASP:OD1	2.39	0.71
2:4h:119:PRO:CD	2:4h:138:ASP:OD1	2.39	0.71
2:hh:119:PRO:CD	2:hh:138:ASP:OD1	2.39	0.71
2:lh:39:LEU:HB2	2:lh:100:LEU:HB3	1.72	0.71
2:th:39:LEU:HB2	2:th:100:LEU:HB3	1.72	0.71
2:xh:117:ARG:HG3	2:xh:117:ARG:O	1.88	0.71
3:Kl:100:GLN:HA	3:Kl:100:GLN:NE2	2.05	0.71
3:ml:100:GLN:HA	3:ml:100:GLN:NE2	2.05	0.71
3:7l:100:GLN:HA	3:7l:100:GLN:NE2	2.05	0.71
1:D:404:ARG:H	1:D:407:ASN:HD22	1.37	0.71
1:m:526:HIS:HE1	1:m:561:ASP:OD2	1.72	0.71
2:Wh:117:ARG:O	2:Wh:117:ARG:HG3	1.88	0.71
2:Zh:119:PRO:CD	2:Zh:138:ASP:OD1	2.39	0.71
2:4h:50:SER:O	2:4h:51:TYR:HB2	1.88	0.71
2:4h:117:ARG:O	2:4h:117:ARG:HG3	1.88	0.71
2:fh:50:SER:O	2:fh:51:TYR:HB2	1.88	0.71
2:ih:119:PRO:CD	2:ih:138:ASP:OD1	2.39	0.71
2:8h:119:PRO:CD	2:8h:138:ASP:OD1	2.39	0.71
3:Yl:100:GLN:HA	3:Yl:100:GLN:NE2	2.05	0.71
3:dl:42:CYS:HG	3:dl:109:CYS:HG	1.38	0.71
3:xl:100:GLN:HA	3:xl:100:GLN:NE2	2.05	0.71
1:D:587:ASN:CB	3:Dl:87:ARG:HH11	1.92	0.71
1:F:526:HIS:HE1	1:F:561:ASP:OD2	1.73	0.71
1:U:587:ASN:CB	3:Ul:87:ARG:HH11	1.93	0.71
1:k:526:HIS:HE1	1:k:561:ASP:OD2	1.72	0.71
1:t:526:HIS:HE1	1:t:561:ASP:OD2	1.72	0.71
1:v:526:HIS:HE1	1:v:561:ASP:OD2	1.72	0.71
2:Kh:117:ARG:O	2:Kh:117:ARG:HG3	1.88	0.71
2:Kh:119:PRO:CD	2:Kh:138:ASP:OD1	2.39	0.71
2:dh:119:PRO:CD	2:dh:138:ASP:OD1	2.39	0.71
2:mh:119:PRO:CD	2:mh:138:ASP:OD1	2.39	0.71
3:Bl:59:GLN:O	3:Bl:105:ALA:HB1	1.91	0.71
3:Kl:59:GLN:O	3:Kl:105:ALA:HB1	1.91	0.71
3:Pl:42:CYS:HG	3:Pl:109:CYS:HG	1.38	0.71
3:Sl:59:GLN:O	3:Sl:105:ALA:HB1	1.91	0.71
3:4l:59:GLN:O	3:4l:105:ALA:HB1	1.91	0.71
3:gl:59:GLN:O	3:gl:105:ALA:HB1	1.91	0.71
3:hl:59:GLN:O	3:hl:105:ALA:HB1	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ll:59:GLN:O	3:ll:105:ALA:HB1	1.91	0.71
3:sl:100:GLN:HA	3:sl:100:GLN:NE2	2.05	0.71
3:ul:59:GLN:O	3:ul:105:ALA:HB1	1.91	0.71
3:xl:59:GLN:O	3:xl:105:ALA:HB1	1.91	0.71
1:R:526:HIS:HE1	1:R:561:ASP:OD2	1.73	0.71
1:d:526:HIS:HE1	1:d:561:ASP:OD2	1.72	0.71
1:s:526:HIS:HE1	1:s:561:ASP:OD2	1.72	0.71
2:Ch:119:PRO:CD	2:Ch:138:ASP:OD1	2.39	0.71
2:Jh:50:SER:O	2:Jh:51:TYR:HB2	1.88	0.71
2:Uh:119:PRO:CD	2:Uh:138:ASP:OD1	2.39	0.71
2:Zh:50:SER:O	2:Zh:51:TYR:HB2	1.88	0.71
2:bh:119:PRO:CD	2:bh:138:ASP:OD1	2.39	0.71
2:eh:50:SER:O	2:eh:51:TYR:HB2	1.88	0.71
2:hh:117:ARG:O	2:hh:117:ARG:HG3	1.88	0.71
2:xh:119:PRO:CD	2:xh:138:ASP:OD1	2.39	0.71
2:zh:117:ARG:O	2:zh:117:ARG:HG3	1.88	0.71
3:Fl:100:GLN:HA	3:Fl:100:GLN:NE2	2.05	0.71
3:Gl:100:GLN:HA	3:Gl:100:GLN:NE2	2.05	0.71
3:Tl:59:GLN:O	3:Tl:105:ALA:HB1	1.91	0.71
3:dl:100:GLN:HA	3:dl:100:GLN:NE2	2.05	0.71
3:rl:42:CYS:HG	3:rl:109:CYS:HG	1.32	0.71
1:G:295:ASP:OD1	1:G:298:ARG:NH1	2.24	0.71
1:L:526:HIS:HE1	1:L:561:ASP:OD2	1.72	0.71
1:S:587:ASN:CB	3:Sl:87:ARG:HH11	1.92	0.71
1:n:295:ASP:OD1	1:n:298:ARG:NH1	2.24	0.71
1:q:295:ASP:OD1	1:q:298:ARG:NH1	2.24	0.71
1:8:295:ASP:OD1	1:8:298:ARG:NH1	2.24	0.71
2:Fh:119:PRO:CD	2:Fh:138:ASP:OD1	2.39	0.71
2:Hh:119:PRO:CD	2:Hh:138:ASP:OD1	2.39	0.71
2:Mh:119:PRO:CD	2:Mh:138:ASP:OD1	2.39	0.71
2:Ph:119:PRO:CD	2:Ph:138:ASP:OD1	2.39	0.71
2:Th:119:PRO:CD	2:Th:138:ASP:OD1	2.39	0.71
2:3h:117:ARG:HG3	2:3h:117:ARG:O	1.88	0.71
2:3h:119:PRO:CD	2:3h:138:ASP:OD1	2.39	0.71
2:ah:119:PRO:CD	2:ah:138:ASP:OD1	2.39	0.71
2:bh:39:LEU:HB2	2:bh:100:LEU:HB3	1.72	0.71
2:hh:50:SER:O	2:hh:51:TYR:HB2	1.88	0.71
2:sh:39:LEU:HB2	2:sh:100:LEU:HB3	1.72	0.71
2:vh:50:SER:O	2:vh:51:TYR:HB2	1.88	0.71
3:El:59:GLN:O	3:El:105:ALA:HB1	1.91	0.71
3:Gl:59:GLN:O	3:Gl:105:ALA:HB1	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Pl:100:GLN:HA	3:Pl:100:GLN:NE2	2.05	0.71
3:Rl:107:TYR:CE2	3:Rl:126:VAL:HG21	2.14	0.71
3:Vl:59:GLN:O	3:Vl:105:ALA:HB1	1.91	0.71
3:al:42:CYS:HG	3:al:109:CYS:HG	1.38	0.71
3:nl:100:GLN:HA	3:nl:100:GLN:NE2	2.05	0.71
3:ql:59:GLN:O	3:ql:105:ALA:HB1	1.91	0.71
1:E:295:ASP:OD1	1:E:298:ARG:NH1	2.24	0.71
1:J:404:ARG:H	1:J:407:ASN:HD22	1.37	0.71
1:K:295:ASP:OD1	1:K:298:ARG:NH1	2.24	0.71
1:P:526:HIS:HE1	1:P:561:ASP:OD2	1.72	0.71
1:R:460:LEU:HD21	1:Z:488:VAL:CG1	2.19	0.71
1:Z:295:ASP:OD1	1:Z:298:ARG:NH1	2.24	0.71
1:Z:404:ARG:H	1:Z:407:ASN:HD22	1.37	0.71
1:v:404:ARG:H	1:v:407:ASN:HD22	1.37	0.71
1:w:295:ASP:OD1	1:w:298:ARG:NH1	2.24	0.71
1:x:295:ASP:OD1	1:x:298:ARG:NH1	2.24	0.71
2:Bh:119:PRO:CD	2:Bh:138:ASP:OD1	2.39	0.71
2:Dh:50:SER:O	2:Dh:51:TYR:HB2	1.88	0.71
2:Dh:119:PRO:CD	2:Dh:138:ASP:OD1	2.39	0.71
2:Lh:119:PRO:CD	2:Lh:138:ASP:OD1	2.39	0.71
2:Mh:39:LEU:HB2	2:Mh:100:LEU:HB3	1.72	0.71
2:5h:119:PRO:CD	2:5h:138:ASP:OD1	2.39	0.71
2:gh:119:PRO:CD	2:gh:138:ASP:OD1	2.39	0.71
2:jh:117:ARG:O	2:jh:117:ARG:HG3	1.88	0.71
2:ph:119:PRO:CD	2:ph:138:ASP:OD1	2.39	0.71
2:qh:119:PRO:CD	2:qh:138:ASP:OD1	2.39	0.71
2:sh:119:PRO:CD	2:sh:138:ASP:OD1	2.39	0.71
2:yh:119:PRO:CD	2:yh:138:ASP:OD1	2.39	0.71
3:Bl:100:GLN:HA	3:Bl:100:GLN:NE2	2.05	0.71
3:Ol:59:GLN:O	3:Ol:105:ALA:HB1	1.91	0.71
3:fl:59:GLN:O	3:fl:105:ALA:HB1	1.91	0.71
3:gl:100:GLN:HA	3:gl:100:GLN:NE2	2.05	0.71
1:1:295:ASP:OD1	1:1:298:ARG:NH1	2.24	0.71
1:k:460:LEU:HD21	1:8:488:VAL:CG1	2.19	0.71
2:Eh:119:PRO:CD	2:Eh:138:ASP:OD1	2.39	0.71
2:Fh:39:LEU:HB2	2:Fh:100:LEU:HB3	1.72	0.71
2:Nh:39:LEU:HB2	2:Nh:100:LEU:HB3	1.72	0.71
2:2h:39:LEU:HB2	2:2h:100:LEU:HB3	1.72	0.71
2:2h:119:PRO:CD	2:2h:138:ASP:OD1	2.39	0.71
2:dh:98:LEU:HD23	2:dh:115:CYS:SG	2.31	0.71
2:eh:119:PRO:CD	2:eh:138:ASP:OD1	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kh:119:PRO:CD	2:kh:138:ASP:OD1	2.39	0.71
2:rh:98:LEU:HD23	2:rh:115:CYS:SG	2.31	0.71
2:th:119:PRO:CD	2:th:138:ASP:OD1	2.39	0.71
2:uh:119:PRO:CD	2:uh:138:ASP:OD1	2.39	0.71
2:8h:50:SER:O	2:8h:51:TYR:HB2	1.88	0.71
3:Nl:100:GLN:HA	3:Nl:100:GLN:NE2	2.05	0.71
3:Nl:107:TYR:CE2	3:Nl:126:VAL:HG21	2.14	0.71
3:Pl:59:GLN:O	3:Pl:105:ALA:HB1	1.91	0.71
3:Tl:100:GLN:HA	3:Tl:100:GLN:NE2	2.05	0.71
3:cl:100:GLN:HA	3:cl:100:GLN:NE2	2.05	0.71
3:dl:59:GLN:O	3:dl:105:ALA:HB1	1.91	0.71
3:nl:59:GLN:O	3:nl:105:ALA:HB1	1.91	0.71
3:ul:100:GLN:HA	3:ul:100:GLN:NE2	2.05	0.71
1:L:295:ASP:OD1	1:L:298:ARG:NH1	2.24	0.70
1:V:295:ASP:OD1	1:V:298:ARG:NH1	2.24	0.70
1:2:526:HIS:HE1	1:2:561:ASP:OD2	1.72	0.70
1:6:526:HIS:HE1	1:6:561:ASP:OD2	1.72	0.70
1:b:295:ASP:OD1	1:b:298:ARG:NH1	2.24	0.70
1:b:526:HIS:HE1	1:b:561:ASP:OD2	1.73	0.70
1:e:587:ASN:CB	3:el:87:ARG:HH11	1.92	0.70
1:f:295:ASP:OD1	1:f:298:ARG:NH1	2.24	0.70
1:j:295:ASP:OD1	1:j:298:ARG:NH1	2.24	0.70
1:k:295:ASP:OD1	1:k:298:ARG:NH1	2.24	0.70
2:Ah:119:PRO:CD	2:Ah:138:ASP:OD1	2.39	0.70
2:Gh:119:PRO:CD	2:Gh:138:ASP:OD1	2.39	0.70
2:Ph:98:LEU:HD23	2:Ph:115:CYS:SG	2.31	0.70
2:Qh:98:LEU:HD23	2:Qh:115:CYS:SG	2.31	0.70
2:Rh:119:PRO:CD	2:Rh:138:ASP:OD1	2.39	0.70
2:Vh:117:ARG:O	2:Vh:117:ARG:HG3	1.88	0.70
2:Wh:98:LEU:HD23	2:Wh:115:CYS:SG	2.31	0.70
2:5h:117:ARG:O	2:5h:117:ARG:HG3	1.88	0.70
2:6h:119:PRO:CD	2:6h:138:ASP:OD1	2.39	0.70
2:ch:39:LEU:HB2	2:ch:100:LEU:HB3	1.72	0.70
2:ch:98:LEU:HD23	2:ch:115:CYS:SG	2.31	0.70
2:zh:98:LEU:HD23	2:zh:115:CYS:SG	2.31	0.70
3:cl:59:GLN:O	3:cl:105:ALA:HB1	1.91	0.70
3:jl:59:GLN:O	3:jl:105:ALA:HB1	1.91	0.70
3:yl:59:GLN:O	3:yl:105:ALA:HB1	1.91	0.70
1:E:587:ASN:CB	3:El:87:ARG:HH11	1.92	0.70
1:J:295:ASP:OD1	1:J:298:ARG:NH1	2.24	0.70
1:M:295:ASP:OD1	1:M:298:ARG:NH1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:526:HIS:HE1	1:M:561:ASP:OD2	1.73	0.70
1:O:295:ASP:OD1	1:O:298:ARG:NH1	2.24	0.70
1:R:295:ASP:OD1	1:R:298:ARG:NH1	2.24	0.70
1:T:295:ASP:OD1	1:T:298:ARG:NH1	2.24	0.70
1:g:295:ASP:OD1	1:g:298:ARG:NH1	2.24	0.70
1:t:295:ASP:OD1	1:t:298:ARG:NH1	2.24	0.70
1:8:404:ARG:H	1:8:407:ASN:HD22	1.37	0.70
2:Nh:98:LEU:HD23	2:Nh:115:CYS:SG	2.32	0.70
2:Sh:119:PRO:CD	2:Sh:138:ASP:OD1	2.39	0.70
2:2h:98:LEU:HD23	2:2h:115:CYS:SG	2.31	0.70
2:6h:98:LEU:HD23	2:6h:115:CYS:SG	2.31	0.70
2:ih:98:LEU:HD23	2:ih:115:CYS:SG	2.32	0.70
2:lh:119:PRO:CD	2:lh:138:ASP:OD1	2.39	0.70
2:nh:102:MET:HB2	2:nh:105:LEU:HD11	1.74	0.70
2:sh:50:SER:O	2:sh:51:TYR:HB2	1.88	0.70
3:Hl:59:GLN:O	3:Hl:105:ALA:HB1	1.91	0.70
3:Nl:59:GLN:O	3:Nl:105:ALA:HB1	1.91	0.70
3:cl:107:TYR:CE2	3:cl:126:VAL:HG21	2.14	0.70
1:N:295:ASP:OD1	1:N:298:ARG:NH1	2.24	0.70
1:S:295:ASP:OD1	1:S:298:ARG:NH1	2.24	0.70
1:S:404:ARG:H	1:S:407:ASN:HD22	1.37	0.70
1:Y:295:ASP:OD1	1:Y:298:ARG:NH1	2.24	0.70
1:h:404:ARG:H	1:h:407:ASN:HD22	1.37	0.70
1:i:587:ASN:CB	3:il:87:ARG:HH11	1.92	0.70
1:v:295:ASP:OD1	1:v:298:ARG:NH1	2.24	0.70
2:Ah:98:LEU:HD23	2:Ah:115:CYS:SG	2.31	0.70
2:Bh:102:MET:HB2	2:Bh:105:LEU:HD11	1.74	0.70
2:Fh:50:SER:O	2:Fh:51:TYR:HB2	1.88	0.70
2:Ih:39:LEU:HB2	2:Ih:100:LEU:HB3	1.72	0.70
2:Lh:98:LEU:HD23	2:Lh:115:CYS:SG	2.32	0.70
2:Mh:98:LEU:HD23	2:Mh:115:CYS:SG	2.32	0.70
2:Ph:39:LEU:HB2	2:Ph:100:LEU:HB3	1.72	0.70
2:Qh:119:PRO:CD	2:Qh:138:ASP:OD1	2.39	0.70
2:Xh:98:LEU:HD23	2:Xh:115:CYS:SG	2.32	0.70
2:6h:39:LEU:HB2	2:6h:100:LEU:HB3	1.72	0.70
2:bh:98:LEU:HD23	2:bh:115:CYS:SG	2.32	0.70
2:eh:98:LEU:HD23	2:eh:115:CYS:SG	2.31	0.70
2:fh:119:PRO:CD	2:fh:138:ASP:OD1	2.39	0.70
2:kh:39:LEU:HB2	2:kh:100:LEU:HB3	1.72	0.70
2:nh:119:PRO:CD	2:nh:138:ASP:OD1	2.39	0.70
2:oh:39:LEU:HB2	2:oh:100:LEU:HB3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ph:98:LEU:HD23	2:ph:115:CYS:SG	2.31	0.70
2:ph:102:MET:HB2	2:ph:105:LEU:HD11	1.74	0.70
2:th:98:LEU:HD23	2:th:115:CYS:SG	2.32	0.70
2:wh:102:MET:HB2	2:wh:105:LEU:HD11	1.74	0.70
3:Al:59:GLN:O	3:Al:105:ALA:HB1	1.91	0.70
3:Ol:100:GLN:HA	3:Ol:100:GLN:NE2	2.05	0.70
3:Rl:100:GLN:HA	3:Rl:100:GLN:NE2	2.05	0.70
3:kl:100:GLN:HA	3:kl:100:GLN:NE2	2.05	0.70
3:kl:107:TYR:CE2	3:kl:126:VAL:HG21	2.14	0.70
3:ml:59:GLN:O	3:ml:105:ALA:HB1	1.91	0.70
3:rl:59:GLN:O	3:rl:105:ALA:HB1	1.91	0.70
3:sl:59:GLN:O	3:sl:105:ALA:HB1	1.91	0.70
1:2:587:ASN:CB	3:2l:87:ARG:HH11	1.92	0.70
1:4:404:ARG:H	1:4:407:ASN:HD22	1.37	0.70
1:c:295:ASP:OD1	1:c:298:ARG:NH1	2.24	0.70
1:g:404:ARG:H	1:g:407:ASN:HD22	1.37	0.70
1:l:295:ASP:OD1	1:l:298:ARG:NH1	2.24	0.70
2:Ah:102:MET:HB2	2:Ah:105:LEU:HD11	1.74	0.70
2:Ch:98:LEU:HD23	2:Ch:115:CYS:SG	2.31	0.70
2:Dh:98:LEU:HD23	2:Dh:115:CYS:SG	2.31	0.70
2:Gh:102:MET:HB2	2:Gh:105:LEU:HD11	1.74	0.70
2:Jh:102:MET:HB2	2:Jh:105:LEU:HD11	1.74	0.70
2:Oh:119:PRO:CD	2:Oh:138:ASP:OD1	2.39	0.70
2:Vh:98:LEU:HD23	2:Vh:115:CYS:SG	2.31	0.70
2:1h:102:MET:HB2	2:1h:105:LEU:HD11	1.74	0.70
2:1h:119:PRO:CD	2:1h:138:ASP:OD1	2.39	0.70
2:dh:39:LEU:HB2	2:dh:100:LEU:HB3	1.72	0.70
2:nh:98:LEU:HD23	2:nh:115:CYS:SG	2.31	0.70
2:oh:119:PRO:CD	2:oh:138:ASP:OD1	2.39	0.70
2:rh:119:PRO:CD	2:rh:138:ASP:OD1	2.39	0.70
2:uh:102:MET:HB2	2:uh:105:LEU:HD11	1.74	0.70
2:vh:102:MET:HB2	2:vh:105:LEU:HD11	1.74	0.70
2:wh:119:PRO:CD	2:wh:138:ASP:OD1	2.39	0.70
2:xh:98:LEU:HD23	2:xh:115:CYS:SG	2.31	0.70
3:Cl:42:CYS:HG	3:Cl:109:CYS:HG	1.38	0.70
3:Cl:100:GLN:HA	3:Cl:100:GLN:NE2	2.05	0.70
3:Dl:59:GLN:O	3:Dl:105:ALA:HB1	1.91	0.70
3:Fl:59:GLN:O	3:Fl:105:ALA:HB1	1.91	0.70
3:Jl:59:GLN:O	3:Jl:105:ALA:HB1	1.91	0.70
3:Ul:59:GLN:O	3:Ul:105:ALA:HB1	1.91	0.70
3:Wl:59:GLN:O	3:Wl:105:ALA:HB1	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Xl:59:GLN:O	3:Xl:105:ALA:HB1	1.91	0.70
3:al:100:GLN:HA	3:al:100:GLN:NE2	2.05	0.70
3:el:59:GLN:O	3:el:105:ALA:HB1	1.91	0.70
3:fl:100:GLN:HA	3:fl:100:GLN:NE2	2.05	0.70
3:ql:100:GLN:HA	3:ql:100:GLN:NE2	2.05	0.70
3:tl:59:GLN:O	3:tl:105:ALA:HB1	1.91	0.70
1:L:454:THR:CG2	2:Lh:138:ASP:HB3	2.21	0.70
1:2:404:ARG:H	1:2:407:ASN:HD22	1.37	0.70
1:3:295:ASP:OD1	1:3:298:ARG:NH1	2.24	0.70
1:5:295:ASP:OD1	1:5:298:ARG:NH1	2.24	0.70
1:l:404:ARG:H	1:l:407:ASN:HD22	1.37	0.70
1:n:454:THR:CG2	2:nh:138:ASP:HB3	2.21	0.70
1:t:454:THR:CG2	2:th:138:ASP:HB3	2.21	0.70
1:7:295:ASP:OD1	1:7:298:ARG:NH1	2.24	0.70
2:Ch:39:LEU:HB2	2:Ch:100:LEU:HB3	1.72	0.70
2:Gh:98:LEU:HD23	2:Gh:115:CYS:SG	2.32	0.70
2:Hh:39:LEU:HB2	2:Hh:100:LEU:HB3	1.72	0.70
2:Ih:119:PRO:CD	2:Ih:138:ASP:OD1	2.39	0.70
2:Kh:98:LEU:HD23	2:Kh:115:CYS:SG	2.31	0.70
2:Rh:39:LEU:HB2	2:Rh:100:LEU:HB3	1.72	0.70
2:Xh:102:MET:HB2	2:Xh:105:LEU:HD11	1.74	0.70
2:Zh:98:LEU:HD23	2:Zh:115:CYS:SG	2.31	0.70
2:1h:98:LEU:HD23	2:1h:115:CYS:SG	2.31	0.70
2:ah:98:LEU:HD23	2:ah:115:CYS:SG	2.31	0.70
2:ih:102:MET:HB2	2:ih:105:LEU:HD11	1.74	0.70
2:wh:98:LEU:HD23	2:wh:115:CYS:SG	2.31	0.70
2:yh:39:LEU:HB2	2:yh:100:LEU:HB3	1.72	0.70
2:8h:39:LEU:HB2	2:8h:100:LEU:HB3	1.72	0.70
2:8h:98:LEU:HD23	2:8h:115:CYS:SG	2.31	0.70
3:Il:100:GLN:HA	3:Il:100:GLN:NE2	2.05	0.70
3:Ll:59:GLN:O	3:Ll:105:ALA:HB1	1.91	0.70
3:Ql:59:GLN:O	3:Ql:105:ALA:HB1	1.91	0.70
3:Vl:100:GLN:HA	3:Vl:100:GLN:NE2	2.05	0.70
3:ol:100:GLN:HA	3:ol:100:GLN:NE2	2.05	0.70
3:vl:59:GLN:O	3:vl:105:ALA:HB1	1.91	0.70
3:zl:59:GLN:O	3:zl:105:ALA:HB1	1.91	0.70
1:F:295:ASP:OD1	1:F:298:ARG:NH1	2.24	0.70
1:H:295:ASP:OD1	1:H:298:ARG:NH1	2.24	0.70
1:J:454:THR:CG2	2:Jh:138:ASP:HB3	2.21	0.70
1:O:404:ARG:H	1:O:407:ASN:HD22	1.37	0.70
1:6:404:ARG:H	1:6:407:ASN:HD22	1.37	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:454:THR:CG2	2:dh:138:ASP:HB3	2.21	0.70
1:q:587:ASN:CB	3:ql:87:ARG:HH11	1.92	0.70
1:s:295:ASP:OD1	1:s:298:ARG:NH1	2.24	0.70
2:Ch:102:MET:HB2	2:Ch:105:LEU:HD11	1.74	0.70
2:Nh:119:PRO:CD	2:Nh:138:ASP:OD1	2.39	0.70
2:Th:102:MET:HB2	2:Th:105:LEU:HD11	1.74	0.70
2:Yh:102:MET:HB2	2:Yh:105:LEU:HD11	1.74	0.70
2:gh:102:MET:HB2	2:gh:105:LEU:HD11	1.74	0.70
2:jh:98:LEU:HD23	2:jh:115:CYS:SG	2.32	0.70
2:7h:102:MET:HB2	2:7h:105:LEU:HD11	1.74	0.70
3:Hl:100:GLN:HA	3:Hl:100:GLN:NE2	2.05	0.70
3:il:59:GLN:O	3:il:105:ALA:HB1	1.91	0.70
3:kl:59:GLN:O	3:kl:105:ALA:HB1	1.91	0.70
3:yl:100:GLN:HA	3:yl:100:GLN:NE2	2.05	0.70
1:A:295:ASP:OD1	1:A:298:ARG:NH1	2.24	0.70
1:L:404:ARG:H	1:L:407:ASN:HD22	1.37	0.70
1:P:454:THR:CG2	2:Ph:138:ASP:HB3	2.21	0.70
1:T:404:ARG:H	1:T:407:ASN:HD22	1.37	0.70
1:f:404:ARG:H	1:f:407:ASN:HD22	1.37	0.70
1:p:295:ASP:OD1	1:p:298:ARG:NH1	2.24	0.70
1:t:404:ARG:H	1:t:407:ASN:HD22	1.37	0.70
1:z:295:ASP:OD1	1:z:298:ARG:NH1	2.24	0.70
2:Wh:119:PRO:CD	2:Wh:138:ASP:OD1	2.39	0.70
2:Zh:39:LEU:HB2	2:Zh:100:LEU:HB3	1.72	0.70
2:5h:39:LEU:HB2	2:5h:100:LEU:HB3	1.72	0.70
2:ah:39:LEU:HB2	2:ah:100:LEU:HB3	1.72	0.70
2:ch:119:PRO:CD	2:ch:138:ASP:OD1	2.39	0.70
2:qh:98:LEU:HD23	2:qh:115:CYS:SG	2.32	0.70
2:zh:119:PRO:CD	2:zh:138:ASP:OD1	2.39	0.70
3:El:100:GLN:HA	3:El:100:GLN:NE2	2.05	0.70
3:Rl:59:GLN:O	3:Rl:105:ALA:HB1	1.91	0.70
3:3l:59:GLN:O	3:3l:105:ALA:HB1	1.91	0.70
3:5l:59:GLN:O	3:5l:105:ALA:HB1	1.91	0.70
3:jl:100:GLN:HA	3:jl:100:GLN:NE2	2.05	0.70
3:pl:59:GLN:O	3:pl:105:ALA:HB1	1.91	0.70
3:8l:59:GLN:O	3:8l:105:ALA:HB1	1.91	0.70
1:I:295:ASP:OD1	1:I:298:ARG:NH1	2.24	0.70
1:U:295:ASP:OD1	1:U:298:ARG:NH1	2.24	0.70
1:W:295:ASP:OD1	1:W:298:ARG:NH1	2.24	0.70
1:X:295:ASP:OD1	1:X:298:ARG:NH1	2.24	0.70
1:X:587:ASN:CB	3:Xl:87:ARG:HH11	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:454:THR:CG2	2:vh:138:ASP:HB3	2.21	0.70
1:x:526:HIS:HE1	1:x:561:ASP:OD2	1.73	0.70
1:y:295:ASP:OD1	1:y:298:ARG:NH1	2.24	0.70
2:Oh:98:LEU:HD23	2:Oh:115:CYS:SG	2.31	0.70
2:Rh:102:MET:HB2	2:Rh:105:LEU:HD11	1.74	0.70
2:Sh:98:LEU:HD23	2:Sh:115:CYS:SG	2.32	0.70
2:Uh:72:TYR:HA	2:Uh:91:ARG:HH12	1.57	0.70
2:Uh:102:MET:HB2	2:Uh:105:LEU:HD11	1.74	0.70
2:Yh:98:LEU:HD23	2:Yh:115:CYS:SG	2.31	0.70
2:Yh:119:PRO:CD	2:Yh:138:ASP:OD1	2.39	0.70
2:3h:39:LEU:HB2	2:3h:100:LEU:HB3	1.72	0.70
2:4h:98:LEU:HD23	2:4h:115:CYS:SG	2.31	0.70
2:ah:102:MET:HB2	2:ah:105:LEU:HD11	1.74	0.70
2:dh:102:MET:HB2	2:dh:105:LEU:HD11	1.74	0.70
2:kh:102:MET:HB2	2:kh:105:LEU:HD11	1.74	0.70
2:mh:72:TYR:HA	2:mh:91:ARG:HH12	1.57	0.70
2:mh:102:MET:HB2	2:mh:105:LEU:HD11	1.74	0.70
3:Il:59:GLN:O	3:Il:105:ALA:HB1	1.91	0.70
3:Zl:59:GLN:O	3:Zl:105:ALA:HB1	1.91	0.70
1:D:341:GLN:HE21	1:D:402:MET:HE3	1.57	0.70
1:K:526:HIS:HE1	1:K:561:ASP:OD2	1.73	0.70
1:e:341:GLN:HE21	1:e:402:MET:HE3	1.57	0.70
1:i:295:ASP:OD1	1:i:298:ARG:NH1	2.24	0.70
1:o:295:ASP:OD1	1:o:298:ARG:NH1	2.24	0.70
2:3h:98:LEU:HD23	2:3h:115:CYS:SG	2.31	0.70
2:5h:98:LEU:HD23	2:5h:115:CYS:SG	2.31	0.70
2:gh:98:LEU:HD23	2:gh:115:CYS:SG	2.31	0.70
2:hh:98:LEU:HD23	2:hh:115:CYS:SG	2.31	0.70
2:lh:98:LEU:HD23	2:lh:115:CYS:SG	2.32	0.70
2:xh:102:MET:HB2	2:xh:105:LEU:HD11	1.74	0.70
2:7h:119:PRO:CD	2:7h:138:ASP:OD1	2.39	0.70
3:Zl:100:GLN:HA	3:Zl:100:GLN:NE2	2.05	0.70
3:ol:59:GLN:O	3:ol:105:ALA:HB1	1.91	0.70
3:wl:59:GLN:O	3:wl:105:ALA:HB1	1.91	0.70
1:B:295:ASP:OD1	1:B:298:ARG:NH1	2.24	0.70
1:O:341:GLN:HE21	1:O:402:MET:HE3	1.57	0.70
1:f:341:GLN:HE21	1:f:402:MET:HE3	1.57	0.70
1:m:295:ASP:OD1	1:m:298:ARG:NH1	2.24	0.70
1:n:341:GLN:HE21	1:n:402:MET:HE3	1.57	0.70
2:Eh:98:LEU:HD23	2:Eh:115:CYS:SG	2.32	0.70
2:Hh:98:LEU:HD23	2:Hh:115:CYS:SG	2.31	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Mh:102:MET:HB2	2:Mh:105:LEU:HD11	1.74	0.70
2:Nh:102:MET:HB2	2:Nh:105:LEU:HD11	1.74	0.70
2:Qh:72:TYR:HA	2:Qh:91:ARG:HH12	1.57	0.70
2:Th:98:LEU:HD23	2:Th:115:CYS:SG	2.31	0.70
2:Xh:72:TYR:HA	2:Xh:91:ARG:HH12	1.57	0.70
2:Yh:72:TYR:HA	2:Yh:91:ARG:HH12	1.57	0.70
2:kh:98:LEU:HD23	2:kh:115:CYS:SG	2.32	0.70
2:xh:39:LEU:HB2	2:xh:100:LEU:HB3	1.72	0.70
2:yh:98:LEU:HD23	2:yh:115:CYS:SG	2.31	0.70
2:7h:72:TYR:HA	2:7h:91:ARG:HH12	1.57	0.70
3:Al:100:GLN:HA	3:Al:100:GLN:NE2	2.05	0.70
3:1l:59:GLN:O	3:1l:105:ALA:HB1	1.91	0.70
3:al:59:GLN:O	3:al:105:ALA:HB1	1.91	0.70
3:pl:100:GLN:HA	3:pl:100:GLN:NE2	2.05	0.70
3:8l:100:GLN:HA	3:8l:100:GLN:NE2	2.05	0.70
1:D:295:ASP:OD1	1:D:298:ARG:NH1	2.24	0.69
1:E:298:ARG:O	1:E:302:ASN:ND2	2.25	0.69
1:F:488:VAL:HG11	1:1:460:LEU:HD21	1.74	0.69
1:G:341:GLN:HE21	1:G:402:MET:HE3	1.57	0.69
1:S:298:ARG:O	1:S:302:ASN:ND2	2.26	0.69
1:Y:404:ARG:H	1:Y:407:ASN:HD22	1.37	0.69
1:1:341:GLN:HE21	1:1:402:MET:HE3	1.57	0.69
1:l:298:ARG:O	1:l:302:ASN:ND2	2.26	0.69
1:l:341:GLN:HE21	1:l:402:MET:HE3	1.57	0.69
1:q:298:ARG:O	1:q:302:ASN:ND2	2.25	0.69
2:Bh:98:LEU:HD23	2:Bh:115:CYS:SG	2.32	0.69
2:Dh:69:VAL:HG12	2:Dh:78:TYR:HB2	1.74	0.69
2:Fh:72:TYR:HA	2:Fh:91:ARG:HH12	1.57	0.69
2:Kh:102:MET:HB2	2:Kh:105:LEU:HD11	1.74	0.69
2:Nh:72:TYR:HA	2:Nh:91:ARG:HH12	1.57	0.69
2:Ph:102:MET:HB2	2:Ph:105:LEU:HD11	1.74	0.69
2:Rh:69:VAL:HG12	2:Rh:78:TYR:HB2	1.74	0.69
2:3h:102:MET:HB2	2:3h:105:LEU:HD11	1.74	0.69
2:bh:102:MET:HB2	2:bh:105:LEU:HD11	1.74	0.69
2:ch:102:MET:HB2	2:ch:105:LEU:HD11	1.74	0.69
2:eh:69:VAL:HG12	2:eh:78:TYR:HB2	1.74	0.69
2:fh:98:LEU:HD23	2:fh:115:CYS:SG	2.32	0.69
2:kh:69:VAL:HG12	2:kh:78:TYR:HB2	1.74	0.69
2:rh:72:TYR:HA	2:rh:91:ARG:HH12	1.57	0.69
2:sh:72:TYR:HA	2:sh:91:ARG:HH12	1.57	0.69
2:7h:98:LEU:HD23	2:7h:115:CYS:SG	2.31	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:bl:59:GLN:O	3:bl:105:ALA:HB1	1.91	0.69
1:F:341:GLN:HE21	1:F:402:MET:HE3	1.57	0.69
1:I:341:GLN:HE21	1:I:402:MET:HE3	1.57	0.69
1:S:341:GLN:HE21	1:S:402:MET:HE3	1.57	0.69
1:5:298:ARG:O	1:5:302:ASN:ND2	2.25	0.69
1:c:404:ARG:H	1:c:407:ASN:HD22	1.37	0.69
1:e:295:ASP:OD1	1:e:298:ARG:NH1	2.24	0.69
1:o:341:GLN:HE21	1:o:402:MET:HE3	1.57	0.69
1:r:295:ASP:OD1	1:r:298:ARG:NH1	2.24	0.69
1:u:295:ASP:OD1	1:u:298:ARG:NH1	2.24	0.69
1:w:341:GLN:HE21	1:w:402:MET:HE3	1.57	0.69
1:7:404:ARG:H	1:7:407:ASN:HD22	1.37	0.69
2:Ah:72:TYR:HA	2:Ah:91:ARG:HH12	1.57	0.69
2:Fh:102:MET:HB2	2:Fh:105:LEU:HD11	1.74	0.69
2:Ih:69:VAL:HG12	2:Ih:78:TYR:HB2	1.74	0.69
2:Ih:98:LEU:HD23	2:Ih:115:CYS:SG	2.31	0.69
2:Jh:98:LEU:HD23	2:Jh:115:CYS:SG	2.32	0.69
2:Kh:39:LEU:HB2	2:Kh:100:LEU:HB3	1.72	0.69
2:Rh:72:TYR:HA	2:Rh:91:ARG:HH12	1.57	0.69
2:Rh:98:LEU:HD23	2:Rh:115:CYS:SG	2.32	0.69
2:2h:25:GLU:OE1	2:2h:55:TRP:CZ3	2.46	0.69
2:5h:102:MET:HB2	2:5h:105:LEU:HD11	1.74	0.69
2:ih:72:TYR:HA	2:ih:91:ARG:HH12	1.57	0.69
2:oh:69:VAL:HG12	2:oh:78:TYR:HB2	1.74	0.69
2:oh:98:LEU:HD23	2:oh:115:CYS:SG	2.31	0.69
2:uh:72:TYR:HA	2:uh:91:ARG:HH12	1.57	0.69
2:uh:98:LEU:HD23	2:uh:115:CYS:SG	2.31	0.69
3:Cl:59:GLN:O	3:Cl:105:ALA:HB1	1.91	0.69
3:Jl:100:GLN:HA	3:Jl:100:GLN:NE2	2.05	0.69
3:Ml:59:GLN:O	3:Ml:105:ALA:HB1	1.91	0.69
3:vl:100:GLN:HA	3:vl:100:GLN:NE2	2.05	0.69
1:V:298:ARG:O	1:V:302:ASN:ND2	2.25	0.69
1:W:298:ARG:O	1:W:302:ASN:ND2	2.26	0.69
1:4:295:ASP:OD1	1:4:298:ARG:NH1	2.24	0.69
1:a:295:ASP:OD1	1:a:298:ARG:NH1	2.24	0.69
1:j:298:ARG:O	1:j:302:ASN:ND2	2.25	0.69
1:m:341:GLN:HE21	1:m:402:MET:HE3	1.57	0.69
1:s:341:GLN:HE21	1:s:402:MET:HE3	1.57	0.69
1:z:298:ARG:O	1:z:302:ASN:ND2	2.26	0.69
2:Bh:69:VAL:HG12	2:Bh:78:TYR:HB2	1.74	0.69
2:Bh:72:TYR:HA	2:Bh:91:ARG:HH12	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gh:25:GLU:OE1	2:Gh:55:TRP:CZ3	2.46	0.69
2:Wh:25:GLU:OE1	2:Wh:55:TRP:CZ3	2.46	0.69
2:Zh:102:MET:HB2	2:Zh:105:LEU:HD11	1.74	0.69
2:1h:72:TYR:HA	2:1h:91:ARG:HH12	1.57	0.69
2:6h:25:GLU:OE1	2:6h:55:TRP:CZ3	2.46	0.69
2:ch:72:TYR:HA	2:ch:91:ARG:HH12	1.57	0.69
2:fh:69:VAL:HG12	2:fh:78:TYR:HB2	1.74	0.69
2:kh:72:TYR:HA	2:kh:91:ARG:HH12	1.57	0.69
2:nh:25:GLU:OE1	2:nh:55:TRP:CZ3	2.46	0.69
2:ph:39:LEU:HB2	2:ph:100:LEU:HB3	1.72	0.69
2:sh:102:MET:HB2	2:sh:105:LEU:HD11	1.74	0.69
2:uh:69:VAL:HG12	2:uh:78:TYR:HB2	1.74	0.69
2:vh:98:LEU:HD23	2:vh:115:CYS:SG	2.32	0.69
2:8h:102:MET:HB2	2:8h:105:LEU:HD11	1.74	0.69
3:2l:59:GLN:O	3:2l:105:ALA:HB1	1.91	0.69
3:6l:59:GLN:O	3:6l:105:ALA:HB1	1.91	0.69
3:il:100:GLN:HA	3:il:100:GLN:NE2	2.05	0.69
3:7l:59:GLN:O	3:7l:105:ALA:HB1	1.91	0.69
1:G:454:THR:CG2	2:Gh:138:ASP:HB3	2.22	0.69
1:L:298:ARG:O	1:L:302:ASN:ND2	2.26	0.69
1:N:404:ARG:H	1:N:407:ASN:HD22	1.37	0.69
1:Q:295:ASP:OD1	1:Q:298:ARG:NH1	2.24	0.69
1:Q:298:ARG:O	1:Q:302:ASN:ND2	2.25	0.69
1:R:298:ARG:O	1:R:302:ASN:ND2	2.25	0.69
1:T:341:GLN:HE21	1:T:402:MET:HE3	1.57	0.69
1:U:341:GLN:HE21	1:U:402:MET:HE3	1.57	0.69
1:3:298:ARG:O	1:3:302:ASN:ND2	2.26	0.69
1:d:295:ASP:OD1	1:d:298:ARG:NH1	2.24	0.69
1:g:341:GLN:HE21	1:g:402:MET:HE3	1.57	0.69
1:h:295:ASP:OD1	1:h:298:ARG:NH1	2.24	0.69
1:s:298:ARG:O	1:s:302:ASN:ND2	2.25	0.69
1:s:488:VAL:HG11	1:w:460:LEU:HD21	1.74	0.69
1:t:298:ARG:O	1:t:302:ASN:ND2	2.26	0.69
2:Ch:69:VAL:HG12	2:Ch:78:TYR:HB2	1.74	0.69
2:Eh:25:GLU:OE1	2:Eh:55:TRP:CZ3	2.46	0.69
2:Oh:69:VAL:HG12	2:Oh:78:TYR:HB2	1.75	0.69
2:Uh:98:LEU:HD23	2:Uh:115:CYS:SG	2.32	0.69
2:Xh:25:GLU:OE1	2:Xh:55:TRP:CZ3	2.46	0.69
2:4h:25:GLU:OE1	2:4h:55:TRP:CZ3	2.46	0.69
2:ah:69:VAL:HG12	2:ah:78:TYR:HB2	1.74	0.69
2:hh:25:GLU:OE1	2:hh:55:TRP:CZ3	2.46	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ih:25:GLU:OE1	2:ih:55:TRP:CZ3	2.46	0.69
2:mh:98:LEU:HD23	2:mh:115:CYS:SG	2.32	0.69
2:ph:72:TYR:HA	2:ph:91:ARG:HH12	1.57	0.69
2:qh:25:GLU:OE1	2:qh:55:TRP:CZ3	2.46	0.69
2:qh:102:MET:HB2	2:qh:105:LEU:HD11	1.74	0.69
2:sh:25:GLU:OE1	2:sh:55:TRP:CZ3	2.46	0.69
2:zh:25:GLU:OE1	2:zh:55:TRP:CZ3	2.46	0.69
2:7h:25:GLU:OE1	2:7h:55:TRP:CZ3	2.46	0.69
1:B:341:GLN:HE21	1:B:402:MET:HE3	1.57	0.69
1:C:295:ASP:OD1	1:C:298:ARG:NH1	2.24	0.69
1:F:298:ARG:O	1:F:302:ASN:ND2	2.26	0.69
1:L:341:GLN:HE21	1:L:402:MET:HE3	1.57	0.69
1:P:295:ASP:OD1	1:P:298:ARG:NH1	2.24	0.69
1:Q:341:GLN:HE21	1:Q:402:MET:HE3	1.57	0.69
1:2:298:ARG:O	1:2:302:ASN:ND2	2.25	0.69
1:2:341:GLN:HE21	1:2:402:MET:HE3	1.57	0.69
1:6:341:GLN:HE21	1:6:402:MET:HE3	1.57	0.69
1:i:298:ARG:O	1:i:302:ASN:ND2	2.26	0.69
1:k:298:ARG:O	1:k:302:ASN:ND2	2.25	0.69
1:n:298:ARG:O	1:n:302:ASN:ND2	2.25	0.69
1:r:298:ARG:O	1:r:302:ASN:ND2	2.25	0.69
2:Eh:102:MET:HB2	2:Eh:105:LEU:HD11	1.74	0.69
2:Fh:25:GLU:OE1	2:Fh:55:TRP:CZ3	2.46	0.69
2:Mh:69:VAL:HG12	2:Mh:78:TYR:HB2	1.74	0.69
2:Oh:25:GLU:OE1	2:Oh:55:TRP:CZ3	2.46	0.69
2:Th:25:GLU:OE1	2:Th:55:TRP:CZ3	2.46	0.69
2:Wh:69:VAL:HG12	2:Wh:78:TYR:HB2	1.74	0.69
2:Yh:25:GLU:OE1	2:Yh:55:TRP:CZ3	2.46	0.69
2:3h:72:TYR:HA	2:3h:91:ARG:HH12	1.57	0.69
2:5h:72:TYR:HA	2:5h:91:ARG:HH12	1.57	0.69
2:bh:69:VAL:HG12	2:bh:78:TYR:HB2	1.75	0.69
2:ch:25:GLU:OE1	2:ch:55:TRP:CZ3	2.46	0.69
2:fh:25:GLU:OE1	2:fh:55:TRP:CZ3	2.46	0.69
2:gh:25:GLU:OE1	2:gh:55:TRP:CZ3	2.46	0.69
2:mh:88:THR:HG22	2:mh:101:GLN:HE22	1.38	0.69
2:wh:72:TYR:HA	2:wh:91:ARG:HH12	1.57	0.69
2:zh:69:VAL:HG12	2:zh:78:TYR:HB2	1.74	0.69
3:Yl:59:GLN:O	3:Yl:105:ALA:HB1	1.91	0.69
3:6l:100:GLN:HA	3:6l:100:GLN:NE2	2.05	0.69
1:D:298:ARG:O	1:D:302:ASN:ND2	2.26	0.69
1:G:298:ARG:O	1:G:302:ASN:ND2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:298:ARG:O	1:H:302:ASN:ND2	2.25	0.69
1:J:298:ARG:O	1:J:302:ASN:ND2	2.26	0.69
1:K:298:ARG:O	1:K:302:ASN:ND2	2.25	0.69
1:R:341:GLN:HE21	1:R:402:MET:HE3	1.57	0.69
1:T:298:ARG:O	1:T:302:ASN:ND2	2.25	0.69
1:X:298:ARG:O	1:X:302:ASN:ND2	2.26	0.69
1:Z:341:GLN:HE21	1:Z:402:MET:HE3	1.57	0.69
1:6:295:ASP:OD1	1:6:298:ARG:NH1	2.24	0.69
1:g:298:ARG:O	1:g:302:ASN:ND2	2.25	0.69
1:i:341:GLN:HE21	1:i:402:MET:HE3	1.57	0.69
1:k:341:GLN:HE21	1:k:402:MET:HE3	1.57	0.69
1:r:341:GLN:HE21	1:r:402:MET:HE3	1.57	0.69
1:t:341:GLN:HE21	1:t:402:MET:HE3	1.57	0.69
1:u:341:GLN:HE21	1:u:402:MET:HE3	1.57	0.69
1:v:298:ARG:O	1:v:302:ASN:ND2	2.26	0.69
1:w:298:ARG:O	1:w:302:ASN:ND2	2.25	0.69
1:x:298:ARG:O	1:x:302:ASN:ND2	2.25	0.69
1:y:298:ARG:O	1:y:302:ASN:ND2	2.25	0.69
1:y:341:GLN:HE21	1:y:402:MET:HE3	1.57	0.69
1:8:341:GLN:HE21	1:8:402:MET:HE3	1.57	0.69
2:Ah:39:LEU:HB2	2:Ah:100:LEU:HB3	1.72	0.69
2:Hh:25:GLU:OE1	2:Hh:55:TRP:CZ3	2.46	0.69
2:Jh:25:GLU:OE1	2:Jh:55:TRP:CZ3	2.46	0.69
2:Nh:25:GLU:OE1	2:Nh:55:TRP:CZ3	2.46	0.69
2:Qh:25:GLU:OE1	2:Qh:55:TRP:CZ3	2.46	0.69
2:rh:25:GLU:OE1	2:rh:55:TRP:CZ3	2.46	0.69
2:vh:25:GLU:OE1	2:vh:55:TRP:CZ3	2.46	0.69
2:wh:69:VAL:HG12	2:wh:78:TYR:HB2	1.74	0.69
3:Xl:100:GLN:HA	3:Xl:100:GLN:NE2	2.05	0.69
1:A:298:ARG:O	1:A:302:ASN:ND2	2.25	0.69
1:S:454:THR:CG2	2:Sh:138:ASP:HB3	2.21	0.69
1:X:341:GLN:HE21	1:X:402:MET:HE3	1.57	0.69
1:1:298:ARG:O	1:1:302:ASN:ND2	2.25	0.69
1:2:295:ASP:OD1	1:2:298:ARG:NH1	2.24	0.69
1:2:454:THR:CG2	2:2h:138:ASP:HB3	2.22	0.69
1:4:298:ARG:O	1:4:302:ASN:ND2	2.25	0.69
1:6:298:ARG:O	1:6:302:ASN:ND2	2.25	0.69
1:e:298:ARG:O	1:e:302:ASN:ND2	2.26	0.69
2:Hh:102:MET:HB2	2:Hh:105:LEU:HD11	1.74	0.69
2:Nh:69:VAL:HG12	2:Nh:78:TYR:HB2	1.75	0.69
2:Sh:102:MET:HB2	2:Sh:105:LEU:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zh:69:VAL:HG12	2:Zh:78:TYR:HB2	1.75	0.69
2:1h:69:VAL:HG12	2:1h:78:TYR:HB2	1.74	0.69
2:hh:69:VAL:HG12	2:hh:78:TYR:HB2	1.74	0.69
2:lh:69:VAL:HG12	2:lh:78:TYR:HB2	1.74	0.69
2:nh:69:VAL:HG12	2:nh:78:TYR:HB2	1.75	0.69
2:qh:72:TYR:HA	2:qh:91:ARG:HH12	1.57	0.69
2:yh:25:GLU:OE1	2:yh:55:TRP:CZ3	2.46	0.69
2:yh:102:MET:HB2	2:yh:105:LEU:HD11	1.74	0.69
2:8h:69:VAL:HG12	2:8h:78:TYR:HB2	1.75	0.69
3:2l:100:GLN:HA	3:2l:100:GLN:NE2	2.05	0.69
1:B:298:ARG:O	1:B:302:ASN:ND2	2.25	0.69
1:B:460:LEU:HD21	1:O:488:VAL:HG11	1.75	0.69
1:F:454:THR:CG2	2:Fh:138:ASP:HB3	2.22	0.69
1:H:341:GLN:HE21	1:H:402:MET:HE3	1.57	0.69
1:K:454:THR:CG2	2:Kh:138:ASP:HB3	2.22	0.69
1:M:298:ARG:O	1:M:302:ASN:ND2	2.26	0.69
1:N:298:ARG:O	1:N:302:ASN:ND2	2.26	0.69
1:O:460:LEU:HD21	1:V:488:VAL:HG11	1.75	0.69
1:R:587:ASN:CB	3:Rl:87:ARG:HH11	1.92	0.69
1:1:488:VAL:HG11	1:6:460:LEU:HD21	1.75	0.69
1:1:587:ASN:CB	3:1l:87:ARG:HH11	1.91	0.69
1:3:460:LEU:HD21	1:4:488:VAL:HG11	1.75	0.69
1:5:460:LEU:HD21	1:h:488:VAL:HG11	1.75	0.69
1:b:298:ARG:O	1:b:302:ASN:ND2	2.26	0.69
1:c:298:ARG:O	1:c:302:ASN:ND2	2.26	0.69
1:f:460:LEU:HD21	1:j:488:VAL:HG11	1.75	0.69
1:f:488:VAL:HG11	1:u:460:LEU:HD21	1.75	0.69
1:h:298:ARG:O	1:h:302:ASN:ND2	2.25	0.69
1:k:587:ASN:CB	3:kl:87:ARG:HH11	1.92	0.69
1:l:454:THR:CG2	2:lh:138:ASP:HB3	2.21	0.69
1:p:298:ARG:O	1:p:302:ASN:ND2	2.25	0.69
1:u:298:ARG:O	1:u:302:ASN:ND2	2.25	0.69
1:x:454:THR:CG2	2:xh:138:ASP:HB3	2.22	0.69
1:7:298:ARG:O	1:7:302:ASN:ND2	2.26	0.69
1:8:298:ARG:O	1:8:302:ASN:ND2	2.25	0.69
2:Ah:69:VAL:HG12	2:Ah:78:TYR:HB2	1.74	0.69
2:Eh:72:TYR:HA	2:Eh:91:ARG:HH12	1.57	0.69
2:Gh:69:VAL:HG12	2:Gh:78:TYR:HB2	1.74	0.69
2:Ih:102:MET:HB2	2:Ih:105:LEU:HD11	1.74	0.69
2:Kh:25:GLU:OE1	2:Kh:55:TRP:CZ3	2.46	0.69
2:Lh:25:GLU:OE1	2:Lh:55:TRP:CZ3	2.46	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qh:69:VAL:HG12	2:Qh:78:TYR:HB2	1.74	0.69
2:Sh:69:VAL:HG12	2:Sh:78:TYR:HB2	1.74	0.69
2:Uh:69:VAL:HG12	2:Uh:78:TYR:HB2	1.74	0.69
2:Vh:25:GLU:OE1	2:Vh:55:TRP:CZ3	2.46	0.69
2:Vh:102:MET:HB2	2:Vh:105:LEU:HD11	1.74	0.69
2:Zh:25:GLU:OE1	2:Zh:55:TRP:CZ3	2.46	0.69
2:1h:25:GLU:OE1	2:1h:55:TRP:CZ3	2.46	0.69
2:2h:69:VAL:HG12	2:2h:78:TYR:HB2	1.74	0.69
2:3h:25:GLU:OE1	2:3h:55:TRP:CZ3	2.46	0.69
2:4h:69:VAL:HG12	2:4h:78:TYR:HB2	1.74	0.69
2:5h:25:GLU:OE1	2:5h:55:TRP:CZ3	2.46	0.69
2:ch:69:VAL:HG12	2:ch:78:TYR:HB2	1.75	0.69
2:jh:25:GLU:OE1	2:jh:55:TRP:CZ3	2.46	0.69
2:jh:72:TYR:HA	2:jh:91:ARG:HH12	1.57	0.69
2:lh:102:MET:HB2	2:lh:105:LEU:HD11	1.74	0.69
2:ph:69:VAL:HG12	2:ph:78:TYR:HB2	1.74	0.69
2:sh:98:LEU:HD23	2:sh:115:CYS:SG	2.31	0.69
2:th:25:GLU:OE1	2:th:55:TRP:CZ3	2.46	0.69
2:wh:25:GLU:OE1	2:wh:55:TRP:CZ3	2.46	0.69
2:xh:25:GLU:OE1	2:xh:55:TRP:CZ3	2.46	0.69
2:xh:72:TYR:HA	2:xh:91:ARG:HH12	1.57	0.69
2:8h:25:GLU:OE1	2:8h:55:TRP:CZ3	2.46	0.69
1:A:460:LEU:HD21	1:3:488:VAL:CG1	2.22	0.69
1:D:488:VAL:HG11	1:7:460:LEU:HD21	1.75	0.69
1:M:341:GLN:HE21	1:M:402:MET:HE3	1.57	0.69
1:P:298:ARG:O	1:P:302:ASN:ND2	2.25	0.69
1:Y:298:ARG:O	1:Y:302:ASN:ND2	2.26	0.69
1:Z:298:ARG:O	1:Z:302:ASN:ND2	2.26	0.69
1:d:298:ARG:O	1:d:302:ASN:ND2	2.25	0.69
1:w:454:THR:CG2	2:wh:138:ASP:HB3	2.22	0.69
2:Fh:98:LEU:HD23	2:Fh:115:CYS:SG	2.31	0.69
2:Kh:72:TYR:HA	2:Kh:91:ARG:HH12	1.57	0.69
2:Vh:72:TYR:HA	2:Vh:91:ARG:HH12	1.57	0.69
2:Wh:102:MET:HB2	2:Wh:105:LEU:HD11	1.74	0.69
2:6h:69:VAL:HG12	2:6h:78:TYR:HB2	1.74	0.69
2:gh:69:VAL:HG12	2:gh:78:TYR:HB2	1.74	0.69
2:jh:102:MET:HB2	2:jh:105:LEU:HD11	1.74	0.69
2:mh:69:VAL:HG12	2:mh:78:TYR:HB2	1.74	0.69
2:8h:72:TYR:HA	2:8h:91:ARG:HH12	1.57	0.69
3:gl:107:TYR:CE2	3:gl:126:VAL:HG21	2.14	0.69
1:B:488:VAL:HG11	1:V:460:LEU:HD21	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:298:ARG:O	1:O:302:ASN:ND2	2.25	0.69
1:W:454:THR:CG2	2:Wh:138:ASP:HB3	2.21	0.69
1:Y:460:LEU:HD21	1:e:488:VAL:HG11	1.75	0.69
1:b:341:GLN:HE21	1:b:402:MET:HE3	1.57	0.69
1:f:298:ARG:O	1:f:302:ASN:ND2	2.25	0.69
1:j:460:LEU:HD21	1:u:488:VAL:HG11	1.75	0.69
1:s:454:THR:CG2	2:sh:138:ASP:HB3	2.23	0.69
1:z:341:GLN:HE21	1:z:402:MET:HE3	1.57	0.69
1:z:454:THR:CG2	2:zh:138:ASP:HB3	2.21	0.69
2:Ch:25:GLU:OE1	2:Ch:55:TRP:CZ3	2.46	0.69
2:Dh:102:MET:HB2	2:Dh:105:LEU:HD11	1.74	0.69
2:Th:69:VAL:HG12	2:Th:78:TYR:HB2	1.74	0.69
2:kh:25:GLU:OE1	2:kh:55:TRP:CZ3	2.46	0.69
2:oh:102:MET:HB2	2:oh:105:LEU:HD11	1.74	0.69
2:rh:69:VAL:HG12	2:rh:78:TYR:HB2	1.74	0.69
2:zh:102:MET:HB2	2:zh:105:LEU:HD11	1.74	0.69
1:C:460:LEU:HD21	1:R:488:VAL:HG11	1.75	0.68
1:E:488:VAL:HG11	1:m:460:LEU:HD21	1.75	0.68
1:I:460:LEU:HD21	1:v:488:VAL:HG11	1.75	0.68
1:a:298:ARG:O	1:a:302:ASN:ND2	2.25	0.68
1:a:460:LEU:HD21	1:k:488:VAL:HG11	1.75	0.68
1:a:488:VAL:HG11	1:8:460:LEU:HD21	1.75	0.68
2:Lh:72:TYR:HA	2:Lh:91:ARG:HH12	1.57	0.68
2:Rh:25:GLU:OE1	2:Rh:55:TRP:CZ3	2.46	0.68
2:Uh:88:THR:HG22	2:Uh:101:GLN:HE22	1.38	0.68
2:Zh:72:TYR:HA	2:Zh:91:ARG:HH12	1.57	0.68
2:ah:25:GLU:OE1	2:ah:55:TRP:CZ3	2.46	0.68
2:eh:102:MET:HB2	2:eh:105:LEU:HD11	1.74	0.68
2:hh:102:MET:HB2	2:hh:105:LEU:HD11	1.74	0.68
2:th:72:TYR:HA	2:th:91:ARG:HH12	1.57	0.68
3:il:42:CYS:HG	3:il:109:CYS:HG	1.36	0.68
3:7l:42:CYS:HG	3:7l:109:CYS:HG	1.36	0.68
1:E:341:GLN:HE21	1:E:402:MET:HE3	1.57	0.68
1:I:298:ARG:O	1:I:302:ASN:ND2	2.25	0.68
1:U:454:THR:CG2	2:Uh:138:ASP:HB3	2.21	0.68
1:U:460:LEU:HD21	1:q:488:VAL:HG11	1.75	0.68
1:Y:341:GLN:HE21	1:Y:402:MET:HE3	1.57	0.68
1:Y:454:THR:CG2	2:Yh:138:ASP:HB3	2.21	0.68
1:q:341:GLN:HE21	1:q:402:MET:HE3	1.57	0.68
2:Bh:25:GLU:OE1	2:Bh:55:TRP:CZ3	2.46	0.68
2:4h:102:MET:HB2	2:4h:105:LEU:HD11	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bh:72:TYR:HA	2:bh:91:ARG:HH12	1.57	0.68
2:uh:25:GLU:OE1	2:uh:55:TRP:CZ3	2.46	0.68
1:C:298:ARG:O	1:C:302:ASN:ND2	2.25	0.68
1:C:488:VAL:HG11	1:Z:460:LEU:HD21	1.75	0.68
1:F:460:LEU:HD21	1:6:488:VAL:HG11	1.74	0.68
1:J:460:LEU:HD21	1:X:488:VAL:HG11	1.75	0.68
1:J:488:VAL:HG11	1:o:460:LEU:HD21	1.75	0.68
1:W:341:GLN:HE21	1:W:402:MET:HE3	1.57	0.68
1:X:454:THR:CG2	2:Xh:138:ASP:HB3	2.21	0.68
1:2:460:LEU:HD21	1:w:488:VAL:HG11	1.75	0.68
1:h:460:LEU:HD21	1:p:488:VAL:HG11	1.74	0.68
1:i:488:VAL:HG11	1:v:460:LEU:HD21	1.75	0.68
1:m:454:THR:CG2	2:mh:138:ASP:HB3	2.21	0.68
2:Ah:25:GLU:OE1	2:Ah:55:TRP:CZ3	2.46	0.68
2:Ph:81:ASP:HA	2:Ph:84:LYS:HG3	1.76	0.68
2:bh:25:GLU:OE1	2:bh:55:TRP:CZ3	2.46	0.68
2:fh:102:MET:HB2	2:fh:105:LEU:HD11	1.74	0.68
2:7h:69:VAL:HG12	2:7h:78:TYR:HB2	1.75	0.68
3:Tl:107:TYR:CE2	3:Tl:126:VAL:HG21	2.14	0.68
1:A:488:VAL:HG11	1:4:460:LEU:HD21	1.74	0.68
1:G:488:VAL:HG11	1:t:460:LEU:HD21	1.75	0.68
1:I:488:VAL:HG11	1:i:460:LEU:HD21	1.75	0.68
1:L:460:LEU:HD21	1:n:488:VAL:HG11	1.75	0.68
1:P:341:GLN:HE21	1:P:402:MET:HE3	1.57	0.68
1:P:488:VAL:HG11	1:W:460:LEU:HD21	1.76	0.68
1:U:298:ARG:O	1:U:302:ASN:ND2	2.26	0.68
1:X:460:LEU:HD21	1:o:488:VAL:HG11	1.75	0.68
1:6:587:ASN:CB	3:6l:87:ARG:HH11	1.94	0.68
1:d:341:GLN:HE21	1:d:402:MET:HE3	1.57	0.68
1:o:298:ARG:O	1:o:302:ASN:ND2	2.25	0.68
1:7:341:GLN:HE21	1:7:402:MET:HE3	1.57	0.68
1:7:454:THR:CG2	2:7h:138:ASP:HB3	2.21	0.68
2:Ah:63:GLY:HA2	3:Al:108:TYR:OH	1.93	0.68
2:Ah:81:ASP:HA	2:Ah:84:LYS:HG3	1.76	0.68
2:Ih:25:GLU:OE1	2:Ih:55:TRP:CZ3	2.46	0.68
2:Mh:25:GLU:OE1	2:Mh:55:TRP:CZ3	2.46	0.68
2:Oh:102:MET:HB2	2:Oh:105:LEU:HD11	1.74	0.68
2:Ph:25:GLU:OE1	2:Ph:55:TRP:CZ3	2.46	0.68
2:Rh:81:ASP:HA	2:Rh:84:LYS:HG3	1.76	0.68
2:Sh:25:GLU:OE1	2:Sh:55:TRP:CZ3	2.46	0.68
2:Th:72:TYR:HA	2:Th:91:ARG:HH12	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dh:81:ASP:HA	2:dh:84:LYS:HG3	1.76	0.68
2:kh:81:ASP:HA	2:kh:84:LYS:HG3	1.76	0.68
2:lh:25:GLU:OE1	2:lh:55:TRP:CZ3	2.46	0.68
2:yh:69:VAL:HG12	2:yh:78:TYR:HB2	1.74	0.68
1:4:341:GLN:HE21	1:4:402:MET:HE3	1.57	0.68
1:5:341:GLN:HE21	1:5:402:MET:HE3	1.57	0.68
1:a:341:GLN:HE21	1:a:402:MET:HE3	1.57	0.68
1:c:454:THR:CG2	2:ch:138:ASP:HB3	2.21	0.68
1:d:488:VAL:HG11	1:z:460:LEU:HD21	1.76	0.68
1:h:341:GLN:HE21	1:h:402:MET:HE3	1.57	0.68
1:i:454:THR:CG2	2:ih:138:ASP:HB3	2.21	0.68
1:m:298:ARG:O	1:m:302:ASN:ND2	2.26	0.68
1:x:341:GLN:HE21	1:x:402:MET:HE3	1.57	0.68
2:Eh:81:ASP:HA	2:Eh:84:LYS:HG3	1.76	0.68
2:Xh:69:VAL:HG12	2:Xh:78:TYR:HB2	1.75	0.68
2:Yh:69:VAL:HG12	2:Yh:78:TYR:HB2	1.75	0.68
2:2h:81:ASP:HA	2:2h:84:LYS:HG3	1.76	0.68
2:6h:81:ASP:HA	2:6h:84:LYS:HG3	1.76	0.68
2:dh:25:GLU:OE1	2:dh:55:TRP:CZ3	2.46	0.68
2:oh:25:GLU:OE1	2:oh:55:TRP:CZ3	2.46	0.68
2:ph:25:GLU:OE1	2:ph:55:TRP:CZ3	2.46	0.68
2:ph:81:ASP:HA	2:ph:84:LYS:HG3	1.76	0.68
2:qh:81:ASP:HA	2:qh:84:LYS:HG3	1.76	0.68
1:K:341:GLN:HE21	1:K:402:MET:HE3	1.57	0.68
1:L:488:VAL:HG11	1:g:460:LEU:HD21	1.75	0.68
1:N:454:THR:CG2	2:Nh:138:ASP:HB3	2.21	0.68
1:3:341:GLN:HE21	1:3:402:MET:HE3	1.57	0.68
2:Hh:69:VAL:HG12	2:Hh:78:TYR:HB2	1.74	0.68
2:Mh:72:TYR:HA	2:Mh:91:ARG:HH12	1.57	0.68
2:Mh:81:ASP:HA	2:Mh:84:LYS:HG3	1.76	0.68
2:Vh:69:VAL:HG12	2:Vh:78:TYR:HB2	1.74	0.68
2:6h:102:MET:HB2	2:6h:105:LEU:HD11	1.74	0.68
2:dh:69:VAL:HG12	2:dh:78:TYR:HB2	1.74	0.68
2:gh:72:TYR:HA	2:gh:91:ARG:HH12	1.57	0.68
2:ih:69:VAL:HG12	2:ih:78:TYR:HB2	1.75	0.68
2:jh:69:VAL:HG12	2:jh:78:TYR:HB2	1.74	0.68
2:sh:81:ASP:HA	2:sh:84:LYS:HG3	1.76	0.68
2:xh:69:VAL:HG12	2:xh:78:TYR:HB2	1.74	0.68
1:T:460:LEU:HD21	1:t:488:VAL:HG11	1.75	0.68
1:V:454:THR:CG2	2:Vh:138:ASP:HB3	2.22	0.68
1:j:454:THR:CG2	2:jh:138:ASP:HB3	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Fh:81:ASP:HA	2:Fh:84:LYS:HG3	1.76	0.68
2:Kh:69:VAL:HG12	2:Kh:78:TYR:HB2	1.74	0.68
2:Oh:72:TYR:HA	2:Oh:91:ARG:HH12	1.57	0.68
2:bh:81:ASP:HA	2:bh:84:LYS:HG3	1.76	0.68
3:4l:42:CYS:HG	3:4l:109:CYS:HG	1.40	0.68
1:A:341:GLN:HE21	1:A:402:MET:HE3	1.57	0.68
1:C:341:GLN:HE21	1:C:402:MET:HE3	1.57	0.68
1:e:460:LEU:HD21	1:y:488:VAL:HG11	1.76	0.68
1:q:460:LEU:HD21	1:x:488:VAL:HG11	1.75	0.68
2:Ph:69:VAL:HG12	2:Ph:78:TYR:HB2	1.74	0.68
2:Uh:25:GLU:OE1	2:Uh:55:TRP:CZ3	2.46	0.68
2:3h:69:VAL:HG12	2:3h:78:TYR:HB2	1.74	0.68
1:D:460:LEU:HD21	1:H:488:VAL:HG11	1.76	0.68
1:E:460:LEU:HD21	1:K:488:VAL:HG11	1.75	0.68
1:J:341:GLN:HE21	1:J:402:MET:HE3	1.57	0.68
1:N:341:GLN:HE21	1:N:402:MET:HE3	1.57	0.68
1:p:341:GLN:HE21	1:p:402:MET:HE3	1.57	0.68
2:Gh:57:ARG:CD	2:Gh:113:TYR:OH	2.42	0.68
2:Uh:81:ASP:HA	2:Uh:84:LYS:HG3	1.76	0.68
2:Yh:81:ASP:HA	2:Yh:84:LYS:HG3	1.76	0.68
2:2h:102:MET:HB2	2:2h:105:LEU:HD11	1.74	0.68
2:5h:69:VAL:HG12	2:5h:78:TYR:HB2	1.74	0.68
2:ah:72:TYR:HA	2:ah:91:ARG:HH12	1.57	0.68
2:eh:25:GLU:OE1	2:eh:55:TRP:CZ3	2.46	0.68
2:fh:72:TYR:HA	2:fh:91:ARG:HH12	1.57	0.68
2:mh:25:GLU:OE1	2:mh:55:TRP:CZ3	2.46	0.68
2:nh:57:ARG:CD	2:nh:113:TYR:OH	2.42	0.68
2:th:102:MET:HB2	2:th:105:LEU:HD11	1.74	0.68
2:7h:81:ASP:HA	2:7h:84:LYS:HG3	1.76	0.68
3:hl:42:CYS:HG	3:hl:109:CYS:HG	1.40	0.68
1:M:460:LEU:HD21	1:r:488:VAL:HG11	1.75	0.68
2:Dh:25:GLU:OE1	2:Dh:55:TRP:CZ3	2.46	0.68
2:Jh:81:ASP:HA	2:Jh:84:LYS:HG3	1.76	0.68
2:Oh:81:ASP:HA	2:Oh:84:LYS:HG3	1.76	0.68
2:2h:72:TYR:HA	2:2h:91:ARG:HH12	1.57	0.68
2:fh:81:ASP:HA	2:fh:84:LYS:HG3	1.76	0.68
2:kh:57:ARG:CD	2:kh:113:TYR:OH	2.42	0.68
2:mh:81:ASP:HA	2:mh:84:LYS:HG3	1.76	0.68
2:qh:69:VAL:HG12	2:qh:78:TYR:HB2	1.74	0.68
2:rh:102:MET:HB2	2:rh:105:LEU:HD11	1.74	0.68
2:sh:57:ARG:CD	2:sh:113:TYR:OH	2.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:th:69:VAL:HG12	2:th:78:TYR:HB2	1.74	0.68
2:vh:81:ASP:HA	2:vh:84:LYS:HG3	1.76	0.68
1:M:488:VAL:HG11	1:S:460:LEU:HD21	1.75	0.67
1:Q:488:VAL:HG11	1:b:460:LEU:HD21	1.75	0.67
1:b:488:VAL:HG11	1:l:460:LEU:HD21	1.75	0.67
2:Ch:72:TYR:HA	2:Ch:91:ARG:HH12	1.57	0.67
2:Fh:57:ARG:CD	2:Fh:113:TYR:OH	2.42	0.67
2:Fh:69:VAL:HG12	2:Fh:78:TYR:HB2	1.74	0.67
2:Th:57:ARG:CD	2:Th:113:TYR:OH	2.42	0.67
2:6h:72:TYR:HA	2:6h:91:ARG:HH12	1.57	0.67
2:dh:72:TYR:HA	2:dh:91:ARG:HH12	1.57	0.67
1:c:341:GLN:HE21	1:c:402:MET:HE3	1.57	0.67
1:v:341:GLN:HE21	1:v:402:MET:HE3	1.57	0.67
2:Eh:69:VAL:HG12	2:Eh:78:TYR:HB2	1.74	0.67
2:Lh:69:VAL:HG12	2:Lh:78:TYR:HB2	1.74	0.67
2:Lh:102:MET:HB2	2:Lh:105:LEU:HD11	1.74	0.67
2:Mh:36:SER:HB3	2:Mh:102:MET:O	1.95	0.67
2:Oh:57:ARG:CD	2:Oh:113:TYR:OH	2.42	0.67
2:Rh:36:SER:HB3	2:Rh:102:MET:O	1.95	0.67
2:Rh:57:ARG:CD	2:Rh:113:TYR:OH	2.42	0.67
2:Vh:81:ASP:HA	2:Vh:84:LYS:HG3	1.76	0.67
2:fh:57:ARG:CD	2:fh:113:TYR:OH	2.42	0.67
2:jh:81:ASP:HA	2:jh:84:LYS:HG3	1.76	0.67
2:kh:36:SER:HB3	2:kh:102:MET:O	1.95	0.67
1:V:341:GLN:HE21	1:V:402:MET:HE3	1.57	0.67
1:j:341:GLN:HE21	1:j:402:MET:HE3	1.57	0.67
2:Fh:36:SER:HB3	2:Fh:102:MET:O	1.95	0.67
2:Lh:81:ASP:HA	2:Lh:84:LYS:HG3	1.76	0.67
2:Qh:102:MET:HB2	2:Qh:105:LEU:HD11	1.74	0.67
2:bh:36:SER:HB3	2:bh:102:MET:O	1.95	0.67
2:nh:36:SER:HB3	2:nh:102:MET:O	1.95	0.67
2:wh:81:ASP:HA	2:wh:84:LYS:HG3	1.76	0.67
1:2:488:VAL:HG11	1:s:460:LEU:HD21	1.75	0.67
2:Eh:36:SER:HB3	2:Eh:102:MET:O	1.95	0.67
2:Gh:36:SER:HB3	2:Gh:102:MET:O	1.95	0.67
2:Hh:81:ASP:HA	2:Hh:84:LYS:HG3	1.76	0.67
2:Ph:72:TYR:HA	2:Ph:91:ARG:HH12	1.57	0.67
2:1h:81:ASP:HA	2:1h:84:LYS:HG3	1.76	0.67
2:oh:72:TYR:HA	2:oh:91:ARG:HH12	1.57	0.67
2:qh:36:SER:HB3	2:qh:102:MET:O	1.95	0.67
2:qh:88:THR:HG22	2:qh:101:GLN:HE22	1.38	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:sh:36:SER:HB3	2:sh:102:MET:O	1.95	0.67
2:sh:69:VAL:HG12	2:sh:78:TYR:HB2	1.74	0.67
2:yh:81:ASP:HA	2:yh:84:LYS:HG3	1.76	0.67
1:N:460:LEU:HD21	1:z:488:VAL:HG11	1.75	0.67
1:g:454:THR:CG2	2:gh:138:ASP:HB3	2.22	0.67
1:w:587:ASN:CB	3:wl:87:ARG:HH11	1.92	0.67
2:Dh:81:ASP:HA	2:Dh:84:LYS:HG3	1.76	0.67
2:Xh:81:ASP:HA	2:Xh:84:LYS:HG3	1.76	0.67
2:eh:81:ASP:HA	2:eh:84:LYS:HG3	1.76	0.67
2:th:81:ASP:HA	2:th:84:LYS:HG3	1.76	0.67
2:vh:36:SER:HB3	2:vh:102:MET:O	1.95	0.67
1:G:460:LEU:HD21	1:T:488:VAL:HG11	1.75	0.67
1:R:460:LEU:HD21	1:Z:488:VAL:HG11	1.75	0.67
1:T:454:THR:CG2	2:Th:138:ASP:HB3	2.22	0.67
1:W:488:VAL:HG11	1:c:460:LEU:HD21	1.75	0.67
1:k:460:LEU:HD21	1:8:488:VAL:HG11	1.75	0.67
2:Jh:36:SER:HB3	2:Jh:102:MET:O	1.95	0.67
2:Jh:57:ARG:CD	2:Jh:113:TYR:OH	2.42	0.67
2:Nh:81:ASP:HA	2:Nh:84:LYS:HG3	1.76	0.67
2:Qh:36:SER:HB3	2:Qh:102:MET:O	1.95	0.67
2:ch:81:ASP:HA	2:ch:84:LYS:HG3	1.76	0.67
2:fh:36:SER:HB3	2:fh:102:MET:O	1.95	0.67
2:ih:81:ASP:HA	2:ih:84:LYS:HG3	1.76	0.67
2:oh:81:ASP:HA	2:oh:84:LYS:HG3	1.76	0.67
1:Y:488:VAL:HG11	1:y:460:LEU:HD21	1.76	0.67
1:Z:454:THR:CG2	2:Zh:138:ASP:HB3	2.21	0.67
2:Ih:72:TYR:HA	2:Ih:91:ARG:HH12	1.57	0.67
2:Oh:36:SER:HB3	2:Oh:102:MET:O	1.95	0.67
2:Sh:81:ASP:HA	2:Sh:84:LYS:HG3	1.76	0.67
2:Vh:36:SER:HB3	2:Vh:102:MET:O	1.95	0.67
2:ch:36:SER:HB3	2:ch:102:MET:O	1.95	0.67
2:gh:36:SER:HB3	2:gh:102:MET:O	1.95	0.67
2:hh:36:SER:HB3	2:hh:102:MET:O	1.95	0.67
2:lh:81:ASP:HA	2:lh:84:LYS:HG3	1.76	0.67
2:rh:36:SER:HB3	2:rh:102:MET:O	1.95	0.67
2:yh:72:TYR:HA	2:yh:91:ARG:HH12	1.57	0.67
1:C:587:ASN:CB	3:Cl:87:ARG:HH11	1.92	0.67
1:g:488:VAL:HG11	1:n:460:LEU:HD21	1.75	0.67
2:Ch:36:SER:HB3	2:Ch:102:MET:O	1.95	0.67
2:Ih:81:ASP:HA	2:Ih:84:LYS:HG3	1.76	0.67
2:Nh:36:SER:HB3	2:Nh:102:MET:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Sh:57:ARG:CD	2:Sh:113:TYR:OH	2.42	0.67
2:Th:36:SER:HB3	2:Th:102:MET:O	1.95	0.67
2:3h:81:ASP:HA	2:3h:84:LYS:HG3	1.76	0.67
2:4h:36:SER:HB3	2:4h:102:MET:O	1.95	0.67
2:vh:57:ARG:CD	2:vh:113:TYR:OH	2.42	0.67
2:xh:36:SER:HB3	2:xh:102:MET:O	1.95	0.67
1:H:460:LEU:HD21	1:7:488:VAL:HG11	1.76	0.67
1:6:454:THR:CG2	2:6h:138:ASP:HB3	2.24	0.67
1:8:454:THR:CG2	2:8h:138:ASP:HB3	2.22	0.67
2:Ah:36:SER:HB3	2:Ah:102:MET:O	1.95	0.67
2:Dh:72:TYR:HA	2:Dh:91:ARG:HH12	1.57	0.67
2:Hh:72:TYR:HA	2:Hh:91:ARG:HH12	1.57	0.67
2:Kh:36:SER:HB3	2:Kh:102:MET:O	1.95	0.67
2:Uh:36:SER:HB3	2:Uh:102:MET:O	1.95	0.67
2:Zh:57:ARG:CD	2:Zh:113:TYR:OH	2.42	0.67
2:5h:81:ASP:HA	2:5h:84:LYS:HG3	1.76	0.67
2:kh:58:GLN:N	2:kh:111:ALA:HB1	2.10	0.67
2:mh:36:SER:HB3	2:mh:102:MET:O	1.95	0.67
2:qh:57:ARG:CD	2:qh:113:TYR:OH	2.42	0.67
2:th:58:GLN:N	2:th:111:ALA:HB1	2.10	0.67
2:vh:69:VAL:HG12	2:vh:78:TYR:HB2	1.74	0.67
2:yh:58:GLN:N	2:yh:111:ALA:HB1	2.10	0.67
2:8h:57:ARG:CD	2:8h:113:TYR:OH	2.42	0.67
1:B:454:THR:CG2	2:Bh:138:ASP:HB3	2.21	0.67
1:K:460:LEU:HD21	1:m:488:VAL:HG11	1.75	0.67
1:U:488:VAL:HG11	1:x:460:LEU:HD21	1.75	0.67
1:u:454:THR:CG2	2:uh:138:ASP:HB3	2.21	0.67
2:Dh:57:ARG:CD	2:Dh:113:TYR:OH	2.42	0.67
2:Gh:58:GLN:N	2:Gh:111:ALA:HB1	2.10	0.67
2:Gh:81:ASP:HA	2:Gh:84:LYS:HG3	1.76	0.67
2:Hh:58:GLN:N	2:Hh:111:ALA:HB1	2.10	0.67
2:Ih:36:SER:HB3	2:Ih:102:MET:O	1.95	0.67
2:Jh:69:VAL:HG12	2:Jh:78:TYR:HB2	1.74	0.67
2:Lh:58:GLN:N	2:Lh:111:ALA:HB1	2.10	0.67
2:Rh:58:GLN:N	2:Rh:111:ALA:HB1	2.10	0.67
2:ah:36:SER:HB3	2:ah:102:MET:O	1.95	0.67
2:eh:57:ARG:CD	2:eh:113:TYR:OH	2.42	0.67
2:jh:36:SER:HB3	2:jh:102:MET:O	1.95	0.67
2:nh:58:GLN:N	2:nh:111:ALA:HB1	2.10	0.67
2:nh:81:ASP:HA	2:nh:84:LYS:HG3	1.76	0.67
2:oh:36:SER:HB3	2:oh:102:MET:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:uh:81:ASP:HA	2:uh:84:LYS:HG3	1.76	0.67
2:7h:36:SER:HB3	2:7h:102:MET:O	1.95	0.67
3:2l:42:CYS:HG	3:2l:109:CYS:HG	1.39	0.67
1:I:454:THR:CG2	2:Ih:138:ASP:HB3	2.22	0.66
2:Bh:81:ASP:HA	2:Bh:84:LYS:HG3	1.76	0.66
2:Eh:57:ARG:CD	2:Eh:113:TYR:OH	2.42	0.66
2:Eh:88:THR:HG22	2:Eh:101:GLN:HE22	1.38	0.66
2:Ih:58:GLN:N	2:Ih:111:ALA:HB1	2.10	0.66
2:Kh:58:GLN:N	2:Kh:111:ALA:HB1	2.10	0.66
2:Kh:81:ASP:HA	2:Kh:84:LYS:HG3	1.76	0.66
2:Lh:36:SER:HB3	2:Lh:102:MET:O	1.95	0.66
2:Yh:36:SER:HB3	2:Yh:102:MET:O	1.95	0.66
2:ph:36:SER:HB3	2:ph:102:MET:O	1.95	0.66
2:xh:81:ASP:HA	2:xh:84:LYS:HG3	1.76	0.66
2:8h:81:ASP:HA	2:8h:84:LYS:HG3	1.76	0.66
1:E:454:THR:CG2	2:Eh:138:ASP:HB3	2.22	0.66
1:5:488:VAL:HG11	1:p:460:LEU:HD21	1.75	0.66
2:Bh:36:SER:HB3	2:Bh:102:MET:O	1.95	0.66
2:Fh:58:GLN:N	2:Fh:111:ALA:HB1	2.10	0.66
2:Zh:81:ASP:HA	2:Zh:84:LYS:HG3	1.76	0.66
2:eh:72:TYR:HA	2:eh:91:ARG:HH12	1.57	0.66
2:oh:58:GLN:N	2:oh:111:ALA:HB1	2.10	0.66
2:rh:81:ASP:HA	2:rh:84:LYS:HG3	1.76	0.66
2:th:36:SER:HB3	2:th:102:MET:O	1.95	0.66
2:uh:36:SER:HB3	2:uh:102:MET:O	1.95	0.66
1:N:488:VAL:HG11	1:d:460:LEU:HD21	1.76	0.66
1:P:460:LEU:HD21	1:c:488:VAL:HG11	1.76	0.66
1:q:454:THR:CG2	2:qh:138:ASP:HB3	2.22	0.66
2:Eh:58:GLN:N	2:Eh:111:ALA:HB1	2.10	0.66
2:Ph:58:GLN:N	2:Ph:111:ALA:HB1	2.10	0.66
2:3h:36:SER:HB3	2:3h:102:MET:O	1.95	0.66
2:sh:58:GLN:N	2:sh:111:ALA:HB1	2.10	0.66
2:uh:58:GLN:N	2:uh:111:ALA:HB1	2.10	0.66
2:xh:58:GLN:N	2:xh:111:ALA:HB1	2.10	0.66
1:H:454:THR:CG2	2:Hh:138:ASP:HB3	2.21	0.66
1:o:454:THR:CG2	2:oh:138:ASP:HB3	2.22	0.66
1:y:454:THR:CG2	2:yh:138:ASP:HB3	2.21	0.66
2:Bh:58:GLN:N	2:Bh:111:ALA:HB1	2.10	0.66
2:Ph:36:SER:HB3	2:Ph:102:MET:O	1.95	0.66
2:Qh:81:ASP:HA	2:Qh:84:LYS:HG3	1.76	0.66
2:Wh:81:ASP:HA	2:Wh:84:LYS:HG3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3h:57:ARG:HG2	2:3h:113:TYR:CZ	2.31	0.66
2:5h:36:SER:HB3	2:5h:102:MET:O	1.95	0.66
2:ch:58:GLN:N	2:ch:111:ALA:HB1	2.10	0.66
2:dh:58:GLN:N	2:dh:111:ALA:HB1	2.10	0.66
2:ph:57:ARG:HG2	2:ph:113:TYR:CZ	2.31	0.66
2:ph:58:GLN:N	2:ph:111:ALA:HB1	2.10	0.66
2:qh:58:GLN:N	2:qh:111:ALA:HB1	2.10	0.66
2:rh:58:GLN:N	2:rh:111:ALA:HB1	2.10	0.66
2:8h:57:ARG:HG2	2:8h:113:TYR:CZ	2.31	0.66
2:Ah:58:GLN:N	2:Ah:111:ALA:HB1	2.10	0.66
2:Ch:58:GLN:N	2:Ch:111:ALA:HB1	2.10	0.66
2:Jh:58:GLN:N	2:Jh:111:ALA:HB1	2.10	0.66
2:Nh:58:GLN:N	2:Nh:111:ALA:HB1	2.10	0.66
2:Sh:57:ARG:HG2	2:Sh:113:TYR:CZ	2.31	0.66
2:Zh:57:ARG:HG2	2:Zh:113:TYR:CZ	2.31	0.66
2:Zh:58:GLN:N	2:Zh:111:ALA:HB1	2.10	0.66
2:5h:57:ARG:HG2	2:5h:113:TYR:CZ	2.31	0.66
2:ah:58:GLN:N	2:ah:111:ALA:HB1	2.10	0.66
2:bh:58:GLN:N	2:bh:111:ALA:HB1	2.10	0.66
2:ih:57:ARG:HG2	2:ih:113:TYR:CZ	2.31	0.66
2:lh:57:ARG:HG2	2:lh:113:TYR:CZ	2.31	0.66
2:oh:57:ARG:HG2	2:oh:113:TYR:CZ	2.31	0.66
2:vh:58:GLN:N	2:vh:111:ALA:HB1	2.10	0.66
2:8h:58:GLN:N	2:8h:111:ALA:HB1	2.10	0.66
1:b:454:THR:CG2	2:bh:138:ASP:HB3	2.21	0.66
2:Ah:57:ARG:HG2	2:Ah:113:TYR:CZ	2.31	0.66
2:Ih:57:ARG:HG2	2:Ih:113:TYR:CZ	2.31	0.66
2:Mh:58:GLN:N	2:Mh:111:ALA:HB1	2.10	0.66
2:Qh:58:GLN:N	2:Qh:111:ALA:HB1	2.10	0.66
2:Xh:57:ARG:HG2	2:Xh:113:TYR:CZ	2.31	0.66
2:bh:57:ARG:HG2	2:bh:113:TYR:CZ	2.31	0.66
2:dh:36:SER:HB3	2:dh:102:MET:O	1.95	0.66
2:fh:58:GLN:N	2:fh:111:ALA:HB1	2.10	0.66
2:zh:81:ASP:HA	2:zh:84:LYS:HG3	1.76	0.66
1:Q:460:LEU:HD21	1:l:488:VAL:HG11	1.75	0.66
1:S:488:VAL:HG11	1:r:460:LEU:HD21	1.75	0.66
1:4:454:THR:CG2	2:4h:138:ASP:HB3	2.22	0.66
2:Ch:81:ASP:HA	2:Ch:84:LYS:HG3	1.76	0.66
2:Gh:57:ARG:HG2	2:Gh:113:TYR:CZ	2.31	0.66
2:Kh:57:ARG:HG2	2:Kh:113:TYR:CZ	2.31	0.66
2:Mh:57:ARG:HG2	2:Mh:113:TYR:CZ	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oh:58:GLN:N	2:Oh:111:ALA:HB1	2.10	0.66
2:2h:58:GLN:N	2:2h:111:ALA:HB1	2.10	0.66
2:6h:58:GLN:N	2:6h:111:ALA:HB1	2.10	0.66
2:lh:36:SER:HB3	2:lh:102:MET:O	1.95	0.66
2:zh:57:ARG:HG2	2:zh:113:TYR:CZ	2.31	0.66
1:Q:489:SER:OG	1:Q:494:ASP:HB2	1.96	0.66
1:r:489:SER:OG	1:r:494:ASP:HB2	1.96	0.66
2:Dh:58:GLN:N	2:Dh:111:ALA:HB1	2.10	0.66
2:Hh:36:SER:HB3	2:Hh:102:MET:O	1.95	0.66
2:Th:81:ASP:HA	2:Th:84:LYS:HG3	1.76	0.66
2:Zh:36:SER:HB3	2:Zh:102:MET:O	1.95	0.66
2:ah:81:ASP:HA	2:ah:84:LYS:HG3	1.76	0.66
2:eh:36:SER:HB3	2:eh:102:MET:O	1.95	0.66
2:eh:58:GLN:N	2:eh:111:ALA:HB1	2.10	0.66
2:xh:57:ARG:HG2	2:xh:113:TYR:CZ	2.31	0.66
2:yh:36:SER:HB3	2:yh:102:MET:O	1.95	0.66
2:8h:36:SER:HB3	2:8h:102:MET:O	1.95	0.66
1:M:454:THR:CG2	2:Mh:138:ASP:HB3	2.21	0.66
1:P:489:SER:OG	1:P:494:ASP:HB2	1.96	0.66
1:U:457:GLN:CA	2:Uh:121:GLN:O	2.44	0.66
1:d:489:SER:OG	1:d:494:ASP:HB2	1.96	0.66
1:m:457:GLN:CA	2:mh:121:GLN:O	2.44	0.66
1:q:489:SER:OG	1:q:494:ASP:HB2	1.96	0.66
1:r:587:ASN:CB	3:rl:87:ARG:HH11	1.92	0.66
2:Ch:25:GLU:OE2	2:Ch:115:CYS:HB2	1.96	0.66
2:Qh:57:ARG:HG2	2:Qh:113:TYR:CZ	2.31	0.66
2:Sh:36:SER:HB3	2:Sh:102:MET:O	1.95	0.66
2:Th:57:ARG:HG2	2:Th:113:TYR:CZ	2.31	0.66
2:Wh:57:ARG:HG2	2:Wh:113:TYR:CZ	2.31	0.66
2:Xh:58:GLN:N	2:Xh:111:ALA:HB1	2.10	0.66
2:6h:36:SER:HB3	2:6h:102:MET:O	1.95	0.66
2:6h:57:ARG:HG2	2:6h:113:TYR:CZ	2.31	0.66
2:dh:57:ARG:HG2	2:dh:113:TYR:CZ	2.31	0.66
2:gh:81:ASP:HA	2:gh:84:LYS:HG3	1.76	0.66
2:ih:58:GLN:N	2:ih:111:ALA:HB1	2.10	0.66
2:nh:57:ARG:HG2	2:nh:113:TYR:CZ	2.31	0.66
2:uh:57:ARG:HG2	2:uh:113:TYR:CZ	2.31	0.66
1:E:489:SER:OG	1:E:494:ASP:HB2	1.96	0.66
1:K:489:SER:OG	1:K:494:ASP:HB2	1.96	0.66
1:Q:587:ASN:CB	3:Ql:87:ARG:HH11	1.92	0.66
1:Y:489:SER:OG	1:Y:494:ASP:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:454:THR:CG2	2:5h:138:ASP:HB3	2.22	0.66
1:h:454:THR:CG2	2:hh:138:ASP:HB3	2.22	0.66
1:t:489:SER:OG	1:t:494:ASP:HB2	1.96	0.66
1:x:489:SER:OG	1:x:494:ASP:HB2	1.96	0.66
1:7:489:SER:OG	1:7:494:ASP:HB2	1.96	0.66
2:Bh:57:ARG:HG2	2:Bh:113:TYR:CZ	2.31	0.66
2:Dh:36:SER:HB3	2:Dh:102:MET:O	1.95	0.66
2:Fh:25:GLU:OE2	2:Fh:115:CYS:HB2	1.96	0.66
2:Gh:25:GLU:OE2	2:Gh:115:CYS:HB2	1.96	0.66
2:Ph:57:ARG:HG2	2:Ph:113:TYR:CZ	2.31	0.66
2:Th:25:GLU:OE2	2:Th:115:CYS:HB2	1.96	0.66
2:Th:58:GLN:N	2:Th:111:ALA:HB1	2.10	0.66
2:Uh:25:GLU:OE2	2:Uh:115:CYS:HB2	1.96	0.66
2:1h:36:SER:HB3	2:1h:102:MET:O	1.95	0.66
2:2h:57:ARG:HG2	2:2h:113:TYR:CZ	2.31	0.66
2:6h:57:ARG:CD	2:6h:113:TYR:OH	2.42	0.66
2:ah:25:GLU:OE2	2:ah:115:CYS:HB2	1.96	0.66
2:gh:25:GLU:OE2	2:gh:115:CYS:HB2	1.96	0.66
2:mh:25:GLU:OE2	2:mh:115:CYS:HB2	1.96	0.66
2:mh:57:ARG:HG2	2:mh:113:TYR:CZ	2.31	0.66
2:rh:57:ARG:HG2	2:rh:113:TYR:CZ	2.31	0.66
2:zh:36:SER:HB3	2:zh:102:MET:O	1.95	0.66
1:D:454:THR:CG2	2:Dh:138:ASP:HB3	2.21	0.65
1:L:489:SER:OG	1:L:494:ASP:HB2	1.96	0.65
1:T:489:SER:OG	1:T:494:ASP:HB2	1.96	0.65
1:Z:489:SER:OG	1:Z:494:ASP:HB2	1.96	0.65
1:1:489:SER:OG	1:1:494:ASP:HB2	1.96	0.65
1:n:457:GLN:CA	2:nh:121:GLN:O	2.44	0.65
1:w:489:SER:OG	1:w:494:ASP:HB2	1.96	0.65
1:8:489:SER:OG	1:8:494:ASP:HB2	1.96	0.65
2:Uh:57:ARG:HG2	2:Uh:113:TYR:CZ	2.31	0.65
2:Wh:36:SER:HB3	2:Wh:102:MET:O	1.95	0.65
2:2h:57:ARG:CD	2:2h:113:TYR:OH	2.42	0.65
2:ah:57:ARG:HG2	2:ah:113:TYR:CZ	2.31	0.65
2:gh:57:ARG:HG2	2:gh:113:TYR:CZ	2.31	0.65
2:gh:58:GLN:N	2:gh:111:ALA:HB1	2.10	0.65
2:ph:25:GLU:OE2	2:ph:115:CYS:HB2	1.96	0.65
1:S:489:SER:OG	1:S:494:ASP:HB2	1.96	0.65
1:4:489:SER:OG	1:4:494:ASP:HB2	1.96	0.65
1:e:454:THR:CG2	2:eh:138:ASP:HB3	2.21	0.65
1:g:489:SER:OG	1:g:494:ASP:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:454:THR:CG2	2:kh:138:ASP:HB3	2.21	0.65
1:l:489:SER:OG	1:l:494:ASP:HB2	1.96	0.65
1:z:489:SER:OG	1:z:494:ASP:HB2	1.96	0.65
2:Ch:57:ARG:HG2	2:Ch:113:TYR:CZ	2.31	0.65
2:Kh:25:GLU:OE2	2:Kh:115:CYS:HB2	1.96	0.65
2:2h:36:SER:HB3	2:2h:102:MET:O	1.95	0.65
2:hh:58:GLN:N	2:hh:111:ALA:HB1	2.10	0.65
2:nh:72:TYR:HA	2:nh:91:ARG:HH12	1.57	0.65
2:sh:25:GLU:OE2	2:sh:115:CYS:HB2	1.96	0.65
2:wh:36:SER:HB3	2:wh:102:MET:O	1.95	0.65
2:xh:25:GLU:OE2	2:xh:115:CYS:HB2	1.96	0.65
2:xh:57:ARG:CD	2:xh:113:TYR:OH	2.42	0.65
2:7h:88:THR:HG22	2:7h:101:GLN:HE22	1.38	0.65
1:C:489:SER:OG	1:C:494:ASP:HB2	1.96	0.65
1:R:454:THR:CG2	2:Rh:138:ASP:HB3	2.21	0.65
1:W:489:SER:OG	1:W:494:ASP:HB2	1.96	0.65
1:a:489:SER:OG	1:a:494:ASP:HB2	1.96	0.65
2:Jh:25:GLU:OE2	2:Jh:115:CYS:HB2	1.96	0.65
2:Sh:72:TYR:HA	2:Sh:91:ARG:HH12	1.57	0.65
2:Xh:36:SER:HB3	2:Xh:102:MET:O	1.95	0.65
2:1h:57:ARG:HG2	2:1h:113:TYR:CZ	2.31	0.65
2:3h:25:GLU:OE2	2:3h:115:CYS:HB2	1.96	0.65
2:4h:58:GLN:N	2:4h:111:ALA:HB1	2.10	0.65
2:hh:81:ASP:HA	2:hh:84:LYS:HG3	1.76	0.65
2:ih:36:SER:HB3	2:ih:102:MET:O	1.95	0.65
2:nh:25:GLU:OE2	2:nh:115:CYS:HB2	1.96	0.65
2:wh:57:ARG:HG2	2:wh:113:TYR:CZ	2.31	0.65
1:F:489:SER:OG	1:F:494:ASP:HB2	1.96	0.65
1:X:489:SER:OG	1:X:494:ASP:HB2	1.96	0.65
1:2:489:SER:H	1:2:495:ASN:ND2	1.90	0.65
1:f:489:SER:OG	1:f:494:ASP:HB2	1.96	0.65
1:h:489:SER:OG	1:h:494:ASP:HB2	1.96	0.65
1:p:454:THR:CG2	2:ph:138:ASP:HB3	2.22	0.65
1:y:489:SER:OG	1:y:494:ASP:HB2	1.96	0.65
2:Ah:25:GLU:OE2	2:Ah:115:CYS:HB2	1.96	0.65
2:Fh:57:ARG:HG2	2:Fh:113:TYR:CZ	2.31	0.65
2:Kh:57:ARG:CD	2:Kh:113:TYR:OH	2.42	0.65
2:1h:88:THR:HG22	2:1h:101:GLN:HE22	1.38	0.65
2:vh:25:GLU:OE2	2:vh:115:CYS:HB2	1.96	0.65
2:7h:58:GLN:N	2:7h:111:ALA:HB1	2.10	0.65
1:A:460:LEU:HD21	1:3:488:VAL:HG11	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:489:SER:OG	1:D:494:ASP:HB2	1.96	0.65
1:H:489:SER:OG	1:H:494:ASP:HB2	1.96	0.65
1:O:489:SER:OG	1:O:494:ASP:HB2	1.96	0.65
1:R:489:SER:OG	1:R:494:ASP:HB2	1.96	0.65
1:i:489:SER:OG	1:i:494:ASP:HB2	1.96	0.65
1:v:489:SER:OG	1:v:494:ASP:HB2	1.96	0.65
2:Dh:25:GLU:OE2	2:Dh:115:CYS:HB2	1.96	0.65
2:Eh:128:LYS:HD2	2:Eh:128:LYS:H	1.62	0.65
2:Nh:57:ARG:HG2	2:Nh:113:TYR:CZ	2.31	0.65
2:Rh:128:LYS:HD2	2:Rh:128:LYS:H	1.62	0.65
2:Vh:25:GLU:OE2	2:Vh:115:CYS:HB2	1.96	0.65
2:Wh:58:GLN:N	2:Wh:111:ALA:HB1	2.10	0.65
2:Yh:88:THR:HG22	2:Yh:101:GLN:HE22	1.38	0.65
2:4h:72:TYR:HA	2:4h:91:ARG:HH12	1.57	0.65
2:5h:25:GLU:OE2	2:5h:115:CYS:HB2	1.96	0.65
2:eh:25:GLU:OE2	2:eh:115:CYS:HB2	1.96	0.65
2:fh:25:GLU:OE2	2:fh:115:CYS:HB2	1.96	0.65
2:kh:57:ARG:HG2	2:kh:113:TYR:CZ	2.31	0.65
2:kh:128:LYS:HD2	2:kh:128:LYS:H	1.62	0.65
2:ph:71:TRP:O	2:ph:91:ARG:NH1	2.30	0.65
2:qh:128:LYS:HD2	2:qh:128:LYS:H	1.62	0.65
2:sh:57:ARG:HG2	2:sh:113:TYR:CZ	2.31	0.65
2:wh:58:GLN:N	2:wh:111:ALA:HB1	2.10	0.65
2:zh:72:TYR:HA	2:zh:91:ARG:HH12	1.57	0.65
3:Il:99:LEU:HD12	3:Il:103:ASP:OD2	1.97	0.65
3:ol:99:LEU:HD12	3:ol:103:ASP:OD2	1.97	0.65
1:J:489:SER:OG	1:J:494:ASP:HB2	1.96	0.65
1:P:457:GLN:CA	2:Ph:121:GLN:O	2.45	0.65
1:2:489:SER:OG	1:2:494:ASP:HB2	1.96	0.65
1:6:489:SER:H	1:6:495:ASN:ND2	1.90	0.65
1:6:489:SER:OG	1:6:494:ASP:HB2	1.96	0.65
1:a:454:THR:CG2	2:ah:138:ASP:HB3	2.22	0.65
1:d:457:GLN:CA	2:dh:121:GLN:O	2.45	0.65
1:d:489:SER:H	1:d:495:ASN:ND2	1.90	0.65
1:e:489:SER:OG	1:e:494:ASP:HB2	1.96	0.65
2:Ah:71:TRP:O	2:Ah:91:ARG:NH1	2.30	0.65
2:Gh:72:TYR:HA	2:Gh:91:ARG:HH12	1.57	0.65
2:Wh:72:TYR:HA	2:Wh:91:ARG:HH12	1.57	0.65
2:Yh:58:GLN:N	2:Yh:111:ALA:HB1	2.10	0.65
2:1h:58:GLN:N	2:1h:111:ALA:HB1	2.10	0.65
2:4h:57:ARG:CD	2:4h:113:TYR:OH	2.42	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4h:81:ASP:HA	2:4h:84:LYS:HG3	1.76	0.65
2:5h:58:GLN:N	2:5h:111:ALA:HB1	2.10	0.65
2:hh:57:ARG:HG2	2:hh:113:TYR:CZ	2.31	0.65
2:hh:72:TYR:HA	2:hh:91:ARG:HH12	1.57	0.65
2:lh:72:TYR:HA	2:lh:91:ARG:HH12	1.57	0.65
2:qh:71:TRP:O	2:qh:91:ARG:NH1	2.30	0.65
2:yh:57:ARG:HG2	2:yh:113:TYR:CZ	2.31	0.65
2:7h:25:GLU:OE2	2:7h:115:CYS:HB2	1.96	0.65
3:Wl:99:LEU:HD12	3:Wl:103:ASP:OD2	1.97	0.65
3:zl:99:LEU:HD12	3:zl:103:ASP:OD2	1.97	0.65
1:G:489:SER:OG	1:G:494:ASP:HB2	1.96	0.65
1:I:489:SER:OG	1:I:494:ASP:HB2	1.96	0.65
1:Q:454:THR:CG2	2:Qh:138:ASP:HB3	2.22	0.65
1:3:489:SER:OG	1:3:494:ASP:HB2	1.96	0.65
1:k:489:SER:OG	1:k:494:ASP:HB2	1.96	0.65
1:o:489:SER:OG	1:o:494:ASP:HB2	1.96	0.65
1:s:489:SER:OG	1:s:494:ASP:HB2	1.96	0.65
2:Dh:71:TRP:O	2:Dh:91:ARG:NH1	2.30	0.65
2:Dh:128:LYS:HD2	2:Dh:128:LYS:H	1.62	0.65
2:Eh:71:TRP:O	2:Eh:91:ARG:NH1	2.30	0.65
2:Ph:57:ARG:CD	2:Ph:113:TYR:OH	2.42	0.65
2:Rh:57:ARG:HG2	2:Rh:113:TYR:CZ	2.31	0.65
2:Uh:58:GLN:N	2:Uh:111:ALA:HB1	2.10	0.65
2:Yh:25:GLU:OE2	2:Yh:115:CYS:HB2	1.96	0.65
2:Zh:71:TRP:O	2:Zh:91:ARG:NH1	2.30	0.65
2:ch:57:ARG:HG2	2:ch:113:TYR:CZ	2.31	0.65
2:jh:25:GLU:OE2	2:jh:115:CYS:HB2	1.96	0.65
2:mh:58:GLN:N	2:mh:111:ALA:HB1	2.10	0.65
2:uh:57:ARG:CD	2:uh:113:TYR:OH	2.42	0.65
2:yh:57:ARG:CD	2:yh:113:TYR:OH	2.42	0.65
2:zh:58:GLN:N	2:zh:111:ALA:HB1	2.10	0.65
3:Gl:99:LEU:HD12	3:Gl:103:ASP:OD2	1.97	0.65
3:Sl:99:LEU:HD12	3:Sl:103:ASP:OD2	1.97	0.65
3:Yl:99:LEU:HD12	3:Yl:103:ASP:OD2	1.97	0.65
3:Zl:99:LEU:HD12	3:Zl:103:ASP:OD2	1.97	0.65
3:nl:99:LEU:HD12	3:nl:103:ASP:OD2	1.97	0.65
3:7l:99:LEU:HD12	3:7l:103:ASP:OD2	1.97	0.65
1:A:489:SER:OG	1:A:494:ASP:HB2	1.96	0.65
1:B:489:SER:OG	1:B:494:ASP:HB2	1.96	0.65
1:C:454:THR:CG2	2:Ch:138:ASP:HB3	2.22	0.65
1:3:454:THR:CG2	2:3h:138:ASP:HB3	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:489:SER:OG	1:5:494:ASP:HB2	1.96	0.65
1:k:489:SER:H	1:k:495:ASN:ND2	1.90	0.65
1:r:454:THR:CG2	2:rh:138:ASP:HB3	2.22	0.65
1:s:587:ASN:HD22	3:sl:87:ARG:NH1	1.95	0.65
2:Bh:57:ARG:CD	2:Bh:113:TYR:OH	2.42	0.65
2:Hh:57:ARG:HG2	2:Hh:113:TYR:CZ	2.31	0.65
2:Oh:71:TRP:O	2:Oh:91:ARG:NH1	2.30	0.65
2:Ph:71:TRP:O	2:Ph:91:ARG:NH1	2.30	0.65
2:Sh:71:TRP:O	2:Sh:91:ARG:NH1	2.30	0.65
2:3h:58:GLN:N	2:3h:111:ALA:HB1	2.10	0.65
2:4h:57:ARG:HG2	2:4h:113:TYR:CZ	2.31	0.65
2:4h:88:THR:HG22	2:4h:101:GLN:HE22	1.38	0.65
2:eh:71:TRP:O	2:eh:91:ARG:NH1	2.30	0.65
2:eh:128:LYS:HD2	2:eh:128:LYS:H	1.62	0.65
2:fh:71:TRP:O	2:fh:91:ARG:NH1	2.30	0.65
2:hh:57:ARG:CD	2:hh:113:TYR:OH	2.42	0.65
2:kh:71:TRP:O	2:kh:91:ARG:NH1	2.30	0.65
2:lh:71:TRP:O	2:lh:91:ARG:NH1	2.30	0.65
2:oh:71:TRP:O	2:oh:91:ARG:NH1	2.30	0.65
2:ph:57:ARG:CD	2:ph:113:TYR:OH	2.42	0.65
2:vh:128:LYS:HD2	2:vh:128:LYS:H	1.62	0.65
2:8h:71:TRP:O	2:8h:91:ARG:NH1	2.30	0.65
3:ll:99:LEU:HD12	3:ll:103:ASP:OD2	1.97	0.65
3:8l:99:LEU:HD12	3:8l:103:ASP:OD2	1.97	0.65
1:P:489:SER:H	1:P:495:ASN:ND2	1.90	0.65
1:R:489:SER:H	1:R:495:ASN:ND2	1.90	0.65
1:V:457:GLN:CA	2:Vh:121:GLN:O	2.45	0.65
1:1:587:ASN:HD22	3:1l:87:ARG:NH1	1.95	0.65
1:j:457:GLN:CA	2:jh:121:GLN:O	2.45	0.65
1:u:489:SER:OG	1:u:494:ASP:HB2	1.96	0.65
2:Hh:57:ARG:CD	2:Hh:113:TYR:OH	2.42	0.65
2:Ih:71:TRP:O	2:Ih:91:ARG:NH1	2.30	0.65
2:Jh:128:LYS:HD2	2:Jh:128:LYS:H	1.62	0.65
2:Mh:71:TRP:O	2:Mh:91:ARG:NH1	2.30	0.65
2:Oh:25:GLU:OE2	2:Oh:115:CYS:HB2	1.96	0.65
2:Rh:71:TRP:O	2:Rh:91:ARG:NH1	2.30	0.65
2:4h:128:LYS:HD2	2:4h:128:LYS:H	1.62	0.65
2:6h:25:GLU:OE2	2:6h:115:CYS:HB2	1.96	0.65
2:ah:71:TRP:O	2:ah:91:ARG:NH1	2.30	0.65
2:dh:25:GLU:OE2	2:dh:115:CYS:HB2	1.96	0.65
2:hh:128:LYS:HD2	2:hh:128:LYS:H	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lh:58:GLN:N	2:lh:111:ALA:HB1	2.10	0.65
2:qh:57:ARG:HG2	2:qh:113:TYR:CZ	2.31	0.65
2:vh:57:ARG:HG2	2:vh:113:TYR:CZ	2.31	0.65
1:F:587:ASN:HD22	3:Fl:87:ARG:NH1	1.95	0.65
1:N:489:SER:OG	1:N:494:ASP:HB2	1.96	0.65
1:c:489:SER:OG	1:c:494:ASP:HB2	1.96	0.65
1:n:454:THR:CG2	2:nh:138:ASP:CB	2.75	0.65
1:n:489:SER:OG	1:n:494:ASP:HB2	1.96	0.65
1:p:489:SER:OG	1:p:494:ASP:HB2	1.96	0.65
2:Oh:57:ARG:HG2	2:Oh:113:TYR:CZ	2.31	0.65
2:Ph:25:GLU:OE2	2:Ph:115:CYS:HB2	1.96	0.65
2:Ph:128:LYS:HD2	2:Ph:128:LYS:H	1.62	0.65
2:2h:25:GLU:OE2	2:2h:115:CYS:HB2	1.96	0.65
2:bh:57:ARG:CD	2:bh:113:TYR:OH	2.42	0.65
2:bh:71:TRP:O	2:bh:91:ARG:NH1	2.30	0.65
2:ch:25:GLU:OE2	2:ch:115:CYS:HB2	1.96	0.65
2:dh:71:TRP:O	2:dh:91:ARG:NH1	2.30	0.65
2:dh:128:LYS:HD2	2:dh:128:LYS:H	1.62	0.65
2:fh:57:ARG:HG2	2:fh:113:TYR:CZ	2.31	0.65
2:wh:71:TRP:O	2:wh:91:ARG:NH1	2.30	0.65
2:7h:57:ARG:CD	2:7h:113:TYR:OH	2.42	0.65
3:4l:99:LEU:HD12	3:4l:103:ASP:OD2	1.97	0.65
3:hl:99:LEU:HD12	3:hl:103:ASP:OD2	1.97	0.65
1:L:457:GLN:CA	2:Lh:121:GLN:O	2.44	0.64
1:Q:489:SER:H	1:Q:495:ASN:ND2	1.91	0.64
2:Ah:57:ARG:CD	2:Ah:113:TYR:OH	2.42	0.64
2:Ch:71:TRP:O	2:Ch:91:ARG:NH1	2.30	0.64
2:Jh:57:ARG:HG2	2:Jh:113:TYR:CZ	2.31	0.64
2:Jh:71:TRP:O	2:Jh:91:ARG:NH1	2.30	0.64
2:Jh:72:TYR:HA	2:Jh:91:ARG:HH12	1.57	0.64
2:Nh:25:GLU:OE2	2:Nh:115:CYS:HB2	1.96	0.64
2:Sh:57:ARG:HD3	2:Sh:113:TYR:CZ	2.33	0.64
2:Sh:58:GLN:N	2:Sh:111:ALA:HB1	2.10	0.64
2:Th:71:TRP:O	2:Th:91:ARG:NH1	2.30	0.64
2:Vh:58:GLN:N	2:Vh:111:ALA:HB1	2.10	0.64
2:Yh:57:ARG:HD3	2:Yh:113:TYR:CZ	2.33	0.64
2:1h:71:TRP:O	2:1h:91:ARG:NH1	2.30	0.64
2:dh:57:ARG:CD	2:dh:113:TYR:OH	2.42	0.64
2:lh:57:ARG:HD3	2:lh:113:TYR:CZ	2.33	0.64
2:nh:71:TRP:O	2:nh:91:ARG:NH1	2.30	0.64
2:vh:71:TRP:O	2:vh:91:ARG:NH1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:7h:57:ARG:HD3	2:7h:113:TYR:CZ	2.33	0.64
3:Bl:99:LEU:HD12	3:Bl:103:ASP:OD2	1.97	0.64
3:Xl:99:LEU:HD12	3:Xl:103:ASP:OD2	1.97	0.64
3:al:99:LEU:HD12	3:al:103:ASP:OD2	1.97	0.64
1:G:457:GLN:CA	2:Gh:121:GLN:O	2.45	0.64
1:R:454:THR:CG2	2:Rh:138:ASP:CB	2.76	0.64
1:3:587:ASN:HD22	3:3l:87:ARG:NH1	1.96	0.64
1:5:587:ASN:CB	3:5l:87:ARG:HH11	1.92	0.64
1:g:587:ASN:CB	3:gl:87:ARG:HH11	1.92	0.64
1:j:489:SER:OG	1:j:494:ASP:HB2	1.96	0.64
1:k:454:THR:CG2	2:kh:138:ASP:CB	2.76	0.64
1:r:489:SER:H	1:r:495:ASN:ND2	1.91	0.64
2:Gh:57:ARG:HD3	2:Gh:113:TYR:CZ	2.33	0.64
2:Oh:57:ARG:HD3	2:Oh:113:TYR:CZ	2.33	0.64
2:Qh:25:GLU:OE2	2:Qh:115:CYS:HB2	1.96	0.64
2:Sh:128:LYS:HD2	2:Sh:128:LYS:H	1.62	0.64
2:Xh:25:GLU:OE2	2:Xh:115:CYS:HB2	1.96	0.64
2:Yh:57:ARG:CD	2:Yh:113:TYR:OH	2.42	0.64
2:6h:71:TRP:O	2:6h:91:ARG:NH1	2.30	0.64
2:fh:57:ARG:HD3	2:fh:113:TYR:CZ	2.33	0.64
2:gh:57:ARG:CD	2:gh:113:TYR:OH	2.42	0.64
2:ih:25:GLU:OE2	2:ih:115:CYS:HB2	1.96	0.64
2:jh:58:GLN:N	2:jh:111:ALA:HB1	2.10	0.64
2:lh:128:LYS:HD2	2:lh:128:LYS:H	1.62	0.64
2:oh:57:ARG:CD	2:oh:113:TYR:OH	2.42	0.64
2:uh:25:GLU:OE2	2:uh:115:CYS:HB2	1.96	0.64
2:xh:88:THR:HG22	2:xh:101:GLN:HE22	1.38	0.64
3:Cl:99:LEU:HD12	3:Cl:103:ASP:OD2	1.97	0.64
3:il:99:LEU:HD12	3:il:103:ASP:OD2	1.97	0.64
1:M:489:SER:OG	1:M:494:ASP:HB2	1.96	0.64
1:1:454:THR:CG2	2:1h:138:ASP:HB3	2.23	0.64
1:b:489:SER:OG	1:b:494:ASP:HB2	1.96	0.64
1:t:457:GLN:CA	2:th:121:GLN:O	2.44	0.64
2:Bh:25:GLU:OE2	2:Bh:115:CYS:HB2	1.96	0.64
2:Eh:25:GLU:OE2	2:Eh:115:CYS:HB2	1.96	0.64
2:Gh:71:TRP:O	2:Gh:91:ARG:NH1	2.30	0.64
2:Ih:25:GLU:OE2	2:Ih:115:CYS:HB2	1.96	0.64
2:Mh:25:GLU:OE2	2:Mh:115:CYS:HB2	1.96	0.64
2:Mh:57:ARG:CD	2:Mh:113:TYR:OH	2.42	0.64
2:Vh:57:ARG:HG2	2:Vh:113:TYR:CZ	2.31	0.64
2:2h:71:TRP:O	2:2h:91:ARG:NH1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bh:25:GLU:OE2	2:bh:115:CYS:HB2	1.96	0.64
2:gh:71:TRP:O	2:gh:91:ARG:NH1	2.30	0.64
2:jh:128:LYS:HD2	2:jh:128:LYS:H	1.62	0.64
2:th:128:LYS:HD2	2:th:128:LYS:H	1.62	0.64
3:Jl:99:LEU:HD12	3:Jl:103:ASP:OD2	1.97	0.64
3:ul:99:LEU:HD12	3:ul:103:ASP:OD2	1.97	0.64
1:U:489:SER:OG	1:U:494:ASP:HB2	1.96	0.64
2:Bh:57:ARG:HD3	2:Bh:113:TYR:CZ	2.33	0.64
2:Dh:57:ARG:HG2	2:Dh:113:TYR:CZ	2.31	0.64
2:Fh:57:ARG:HD3	2:Fh:113:TYR:CZ	2.33	0.64
2:Vh:128:LYS:HD2	2:Vh:128:LYS:H	1.62	0.64
2:Yh:128:LYS:HD2	2:Yh:128:LYS:H	1.62	0.64
2:1h:25:GLU:OE2	2:1h:115:CYS:HB2	1.96	0.64
2:4h:23:LEU:CD2	2:4h:53:MET:HE1	2.28	0.64
2:ch:71:TRP:O	2:ch:91:ARG:NH1	2.30	0.64
2:gh:23:LEU:CD2	2:gh:53:MET:HE1	2.28	0.64
2:gh:57:ARG:HD3	2:gh:113:TYR:CZ	2.32	0.64
2:hh:23:LEU:CD2	2:hh:53:MET:HE1	2.28	0.64
2:nh:57:ARG:HD3	2:nh:113:TYR:CZ	2.33	0.64
2:oh:25:GLU:OE2	2:oh:115:CYS:HB2	1.96	0.64
2:rh:25:GLU:OE2	2:rh:115:CYS:HB2	1.96	0.64
2:sh:57:ARG:HD3	2:sh:113:TYR:CZ	2.33	0.64
2:uh:57:ARG:HD3	2:uh:113:TYR:CZ	2.33	0.64
2:vh:72:TYR:HA	2:vh:91:ARG:HH12	1.57	0.64
3:Al:100:GLN:O	3:Al:103:ASP:HB3	1.98	0.64
3:Kl:99:LEU:HD12	3:Kl:103:ASP:OD2	1.97	0.64
3:Ml:100:GLN:O	3:Ml:103:ASP:HB3	1.98	0.64
3:Pl:99:LEU:HD12	3:Pl:103:ASP:OD2	1.97	0.64
1:T:457:GLN:CA	2:Th:121:GLN:O	2.46	0.64
1:V:489:SER:OG	1:V:494:ASP:HB2	1.96	0.64
1:g:457:GLN:CA	2:gh:121:GLN:O	2.46	0.64
1:m:489:SER:OG	1:m:494:ASP:HB2	1.96	0.64
2:Ch:128:LYS:HD2	2:Ch:128:LYS:H	1.62	0.64
2:Gh:23:LEU:CD2	2:Gh:53:MET:HE1	2.28	0.64
2:Hh:57:ARG:HD3	2:Hh:113:TYR:CZ	2.33	0.64
2:Ih:23:LEU:CD2	2:Ih:53:MET:HE1	2.28	0.64
2:Ih:57:ARG:CD	2:Ih:113:TYR:OH	2.42	0.64
2:Lh:128:LYS:HD2	2:Lh:128:LYS:H	1.62	0.64
2:Nh:71:TRP:O	2:Nh:91:ARG:NH1	2.30	0.64
2:Qh:128:LYS:HD2	2:Qh:128:LYS:H	1.62	0.64
2:Th:23:LEU:CD2	2:Th:53:MET:HE1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Th:57:ARG:HD3	2:Th:113:TYR:CZ	2.32	0.64
2:Xh:71:TRP:O	2:Xh:91:ARG:NH1	2.30	0.64
2:Yh:57:ARG:HG2	2:Yh:113:TYR:CZ	2.31	0.64
2:3h:71:TRP:O	2:3h:91:ARG:NH1	2.30	0.64
2:hh:88:THR:HG22	2:hh:101:GLN:HE22	1.38	0.64
2:ih:71:TRP:O	2:ih:91:ARG:NH1	2.30	0.64
2:ih:128:LYS:HD2	2:ih:128:LYS:H	1.62	0.64
2:jh:57:ARG:HG2	2:jh:113:TYR:CZ	2.31	0.64
2:oh:23:LEU:CD2	2:oh:53:MET:HE1	2.28	0.64
2:ph:23:LEU:CD2	2:ph:53:MET:HE1	2.28	0.64
2:qh:25:GLU:OE2	2:qh:115:CYS:HB2	1.96	0.64
2:wh:23:LEU:CD2	2:wh:53:MET:HE1	2.28	0.64
2:wh:25:GLU:OE2	2:wh:115:CYS:HB2	1.96	0.64
2:yh:57:ARG:HD3	2:yh:113:TYR:CZ	2.33	0.64
2:7h:57:ARG:HG2	2:7h:113:TYR:CZ	2.31	0.64
2:7h:128:LYS:HD2	2:7h:128:LYS:H	1.62	0.64
3:Al:99:LEU:HD12	3:Al:103:ASP:OD2	1.97	0.64
3:El:100:GLN:O	3:El:103:ASP:HB3	1.98	0.64
3:Fl:58:GLN:HB2	3:Fl:107:TYR:CE1	2.33	0.64
3:Vl:58:GLN:HB2	3:Vl:107:TYR:CE1	2.33	0.64
3:3l:100:GLN:O	3:3l:103:ASP:HB3	1.98	0.64
3:4l:100:GLN:O	3:4l:103:ASP:HB3	1.98	0.64
3:5l:100:GLN:O	3:5l:103:ASP:HB3	1.98	0.64
3:bl:100:GLN:O	3:bl:103:ASP:HB3	1.98	0.64
3:pl:100:GLN:O	3:pl:103:ASP:HB3	1.98	0.64
3:ql:100:GLN:O	3:ql:103:ASP:HB3	1.98	0.64
3:ul:100:GLN:O	3:ul:103:ASP:HB3	1.98	0.64
3:vl:99:LEU:HD12	3:vl:103:ASP:OD2	1.97	0.64
3:xl:99:LEU:HD12	3:xl:103:ASP:OD2	1.97	0.64
1:D:454:THR:CG2	2:Dh:138:ASP:CB	2.76	0.64
1:2:457:GLN:CA	2:2h:121:GLN:O	2.46	0.64
1:3:587:ASN:CB	3:3l:87:ARG:HH11	1.92	0.64
1:5:587:ASN:HD22	3:5l:87:ARG:NH1	1.96	0.64
1:d:587:ASN:CB	3:dl:87:ARG:HH11	1.92	0.64
1:e:454:THR:CG2	2:eh:138:ASP:CB	2.76	0.64
1:h:587:ASN:HD22	3:hl:87:ARG:NH1	1.96	0.64
1:8:587:ASN:HD22	3:8l:87:ARG:NH1	1.96	0.64
2:Ah:23:LEU:CD2	2:Ah:53:MET:HE1	2.28	0.64
2:Kh:88:THR:HG22	2:Kh:101:GLN:HE22	1.38	0.64
2:Lh:23:LEU:CD2	2:Lh:53:MET:HE1	2.28	0.64
2:Lh:25:GLU:OE2	2:Lh:115:CYS:HB2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Uh:128:LYS:HD2	2:Uh:128:LYS:H	1.62	0.64
2:Wh:25:GLU:OE2	2:Wh:115:CYS:HB2	1.96	0.64
2:Zh:25:GLU:OE2	2:Zh:115:CYS:HB2	1.96	0.64
2:1h:23:LEU:CD2	2:1h:53:MET:HE1	2.28	0.64
2:5h:71:TRP:O	2:5h:91:ARG:NH1	2.30	0.64
2:6h:57:ARG:HD3	2:6h:113:TYR:CZ	2.33	0.64
2:eh:57:ARG:HG2	2:eh:113:TYR:CZ	2.31	0.64
2:fh:23:LEU:CD2	2:fh:53:MET:HE1	2.28	0.64
2:nh:23:LEU:CD2	2:nh:53:MET:HE1	2.28	0.64
2:th:23:LEU:CD2	2:th:53:MET:HE1	2.28	0.64
2:th:25:GLU:OE2	2:th:115:CYS:HB2	1.96	0.64
2:zh:57:ARG:CD	2:zh:113:TYR:OH	2.42	0.64
3:Al:58:GLN:HB2	3:Al:107:TYR:CE1	2.33	0.64
3:Bl:100:GLN:O	3:Bl:103:ASP:HB3	1.98	0.64
3:Cl:100:GLN:O	3:Cl:103:ASP:HB3	1.98	0.64
3:Dl:100:GLN:O	3:Dl:103:ASP:HB3	1.98	0.64
3:El:99:LEU:HD12	3:El:103:ASP:OD2	1.97	0.64
3:Gl:100:GLN:O	3:Gl:103:ASP:HB3	1.98	0.64
3:Hl:99:LEU:HD12	3:Hl:103:ASP:OD2	1.97	0.64
3:Jl:100:GLN:O	3:Jl:103:ASP:HB3	1.98	0.64
3:Ll:99:LEU:HD12	3:Ll:103:ASP:OD2	1.97	0.64
3:Nl:99:LEU:HD12	3:Nl:103:ASP:OD2	1.97	0.64
3:cl:99:LEU:HD12	3:cl:103:ASP:OD2	1.97	0.64
3:dl:58:GLN:HB2	3:dl:107:TYR:CE1	2.33	0.64
3:el:100:GLN:O	3:el:103:ASP:HB3	1.98	0.64
3:fl:99:LEU:HD12	3:fl:103:ASP:OD2	1.97	0.64
3:hl:100:GLN:O	3:hl:103:ASP:HB3	1.98	0.64
3:jl:58:GLN:HB2	3:jl:107:TYR:CE1	2.33	0.64
3:kl:99:LEU:HD12	3:kl:103:ASP:OD2	1.97	0.64
3:nl:100:GLN:O	3:nl:103:ASP:HB3	1.98	0.64
3:ql:99:LEU:HD12	3:ql:103:ASP:OD2	1.97	0.64
3:sl:58:GLN:HB2	3:sl:107:TYR:CE1	2.33	0.64
3:tl:99:LEU:HD12	3:tl:103:ASP:OD2	1.97	0.64
3:vl:100:GLN:O	3:vl:103:ASP:HB3	1.98	0.64
3:8l:100:GLN:O	3:8l:103:ASP:HB3	1.98	0.64
1:K:587:ASN:HD22	3:Kl:87:ARG:NH1	1.96	0.64
1:Z:587:ASN:HD22	3:Zl:87:ARG:NH1	1.96	0.64
1:c:454:THR:CG2	2:ch:138:ASP:CB	2.76	0.64
2:Fh:128:LYS:HD2	2:Fh:128:LYS:H	1.62	0.64
2:Hh:25:GLU:OE2	2:Hh:115:CYS:HB2	1.96	0.64
2:Jh:23:LEU:CD2	2:Jh:53:MET:HE1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Kh:23:LEU:CD2	2:Kh:53:MET:HE1	2.28	0.64
2:Oh:23:LEU:CD2	2:Oh:53:MET:HE1	2.28	0.64
2:Uh:71:TRP:O	2:Uh:91:ARG:NH1	2.30	0.64
2:Vh:23:LEU:CD2	2:Vh:53:MET:HE1	2.28	0.64
2:Xh:128:LYS:HD2	2:Xh:128:LYS:H	1.62	0.64
2:2h:57:ARG:HD3	2:2h:113:TYR:CZ	2.33	0.64
2:ah:128:LYS:HD2	2:ah:128:LYS:H	1.62	0.64
2:kh:57:ARG:HD3	2:kh:113:TYR:CZ	2.33	0.64
2:mh:71:TRP:O	2:mh:91:ARG:NH1	2.30	0.64
2:rh:128:LYS:HD2	2:rh:128:LYS:H	1.62	0.64
2:vh:23:LEU:CD2	2:vh:53:MET:HE1	2.28	0.64
2:xh:57:ARG:HD3	2:xh:113:TYR:CZ	2.32	0.64
3:Ml:99:LEU:HD12	3:Ml:103:ASP:OD2	1.97	0.64
3:Ol:58:GLN:HB2	3:Ol:107:TYR:CE1	2.33	0.64
3:Pl:58:GLN:HB2	3:Pl:107:TYR:CE1	2.33	0.64
3:Rl:99:LEU:HD12	3:Rl:103:ASP:OD2	1.97	0.64
3:Yl:42:CYS:HG	3:Yl:109:CYS:HG	1.39	0.64
3:Zl:100:GLN:O	3:Zl:103:ASP:HB3	1.98	0.64
3:5l:58:GLN:HB2	3:5l:107:TYR:CE1	2.33	0.64
3:5l:99:LEU:HD12	3:5l:103:ASP:OD2	1.97	0.64
3:al:100:GLN:O	3:al:103:ASP:HB3	1.98	0.64
3:dl:99:LEU:HD12	3:dl:103:ASP:OD2	1.97	0.64
3:ll:100:GLN:O	3:ll:103:ASP:HB3	1.98	0.64
3:pl:58:GLN:HB2	3:pl:107:TYR:CE1	2.33	0.64
3:pl:99:LEU:HD12	3:pl:103:ASP:OD2	1.97	0.64
1:N:454:THR:CG2	2:Nh:138:ASP:CB	2.76	0.64
1:4:587:ASN:HD22	3:4l:87:ARG:NH1	1.96	0.64
1:p:587:ASN:HD22	3:pl:87:ARG:NH1	1.95	0.64
2:Eh:57:ARG:HD3	2:Eh:113:TYR:CZ	2.33	0.64
2:Eh:57:ARG:HG2	2:Eh:113:TYR:CZ	2.31	0.64
2:Hh:57:ARG:HG2	2:Hh:113:TYR:CE2	2.33	0.64
2:Kh:57:ARG:HD3	2:Kh:113:TYR:CZ	2.32	0.64
2:Mh:23:LEU:CD2	2:Mh:53:MET:HE1	2.28	0.64
2:Nh:23:LEU:CD2	2:Nh:53:MET:HE1	2.28	0.64
2:Qh:71:TRP:O	2:Qh:91:ARG:NH1	2.30	0.64
2:Rh:57:ARG:HD3	2:Rh:113:TYR:CZ	2.33	0.64
2:Wh:57:ARG:CD	2:Wh:113:TYR:OH	2.42	0.64
2:6h:128:LYS:HD2	2:6h:128:LYS:H	1.62	0.64
2:bh:23:LEU:CD2	2:bh:53:MET:HE1	2.28	0.64
2:jh:23:LEU:CD2	2:jh:53:MET:HE1	2.28	0.64
2:mh:128:LYS:HD2	2:mh:128:LYS:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:qh:57:ARG:HD3	2:qh:113:TYR:CZ	2.33	0.64
2:rh:57:ARG:HD3	2:rh:113:TYR:CZ	2.32	0.64
2:rh:71:TRP:O	2:rh:91:ARG:NH1	2.30	0.64
2:xh:23:LEU:CD2	2:xh:53:MET:HE1	2.28	0.64
2:yh:25:GLU:OE2	2:yh:115:CYS:HB2	1.96	0.64
2:yh:57:ARG:HG2	2:yh:113:TYR:CE2	2.33	0.64
2:zh:25:GLU:OE2	2:zh:115:CYS:HB2	1.96	0.64
3:Dl:58:GLN:HB2	3:Dl:107:TYR:CE1	2.33	0.64
3:Hl:100:GLN:O	3:Hl:103:ASP:HB3	1.98	0.64
3:Kl:100:GLN:O	3:Kl:103:ASP:HB3	1.98	0.64
3:Ol:99:LEU:HD12	3:Ol:103:ASP:OD2	1.97	0.64
3:Ql:58:GLN:HB2	3:Ql:107:TYR:CE1	2.33	0.64
3:Ql:99:LEU:HD12	3:Ql:103:ASP:OD2	1.97	0.64
3:Sl:100:GLN:O	3:Sl:103:ASP:HB3	1.98	0.64
3:Vl:99:LEU:HD12	3:Vl:103:ASP:OD2	1.97	0.64
3:Vl:100:GLN:O	3:Vl:103:ASP:HB3	1.98	0.64
3:3l:58:GLN:HB2	3:3l:107:TYR:CE1	2.33	0.64
3:el:58:GLN:HB2	3:el:107:TYR:CE1	2.33	0.64
3:fl:58:GLN:HB2	3:fl:107:TYR:CE1	2.33	0.64
3:jl:100:GLN:O	3:jl:103:ASP:HB3	1.98	0.64
3:kl:58:GLN:HB2	3:kl:107:TYR:CE1	2.33	0.64
3:ll:58:GLN:HB2	3:ll:107:TYR:CE1	2.33	0.64
3:rl:58:GLN:HB2	3:rl:107:TYR:CE1	2.33	0.64
3:yl:99:LEU:HD12	3:yl:103:ASP:OD2	1.97	0.64
3:yl:100:GLN:O	3:yl:103:ASP:HB3	1.98	0.64
1:G:454:THR:CG2	2:Gh:138:ASP:CB	2.76	0.64
1:S:454:THR:CG2	2:Sh:138:ASP:CB	2.76	0.64
1:T:587:ASN:CB	3:Tl:87:ARG:HH11	1.92	0.64
1:w:587:ASN:HD22	3:wl:87:ARG:NH1	1.96	0.64
1:x:587:ASN:HD22	3:xl:87:ARG:NH1	1.96	0.64
1:y:457:GLN:CA	2:yh:121:GLN:O	2.45	0.64
2:Jh:57:ARG:HG2	2:Jh:113:TYR:CE2	2.33	0.64
2:Oh:57:ARG:HG2	2:Oh:113:TYR:CE2	2.33	0.64
2:Ph:57:ARG:HD3	2:Ph:113:TYR:CZ	2.33	0.64
2:Qh:57:ARG:HD3	2:Qh:113:TYR:CZ	2.32	0.64
2:Th:57:ARG:HG2	2:Th:113:TYR:CE2	2.33	0.64
2:Wh:57:ARG:HG2	2:Wh:113:TYR:CE2	2.33	0.64
2:Wh:71:TRP:O	2:Wh:91:ARG:NH1	2.30	0.64
2:Zh:23:LEU:CD2	2:Zh:53:MET:HE1	2.28	0.64
2:ah:57:ARG:HD3	2:ah:113:TYR:CZ	2.32	0.64
2:ch:23:LEU:CD2	2:ch:53:MET:HE1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fh:57:ARG:HG2	2:fh:113:TYR:CE2	2.33	0.64
2:gh:57:ARG:HG2	2:gh:113:TYR:CE2	2.33	0.64
2:hh:71:TRP:O	2:hh:91:ARG:NH1	2.30	0.64
2:lh:25:GLU:OE2	2:lh:115:CYS:HB2	1.96	0.64
2:sh:57:ARG:HG2	2:sh:113:TYR:CE2	2.33	0.64
2:vh:57:ARG:HG2	2:vh:113:TYR:CE2	2.33	0.64
2:zh:57:ARG:HG2	2:zh:113:TYR:CE2	2.33	0.64
2:8h:25:GLU:OE2	2:8h:115:CYS:HB2	1.96	0.64
3:Dl:99:LEU:HD12	3:Dl:103:ASP:OD2	1.97	0.64
3:Ll:100:GLN:O	3:Ll:103:ASP:HB3	1.98	0.64
3:Rl:58:GLN:HB2	3:Rl:107:TYR:CE1	2.33	0.64
3:Sl:58:GLN:HB2	3:Sl:107:TYR:CE1	2.33	0.64
3:3l:99:LEU:HD12	3:3l:103:ASP:OD2	1.97	0.64
3:bl:99:LEU:HD12	3:bl:103:ASP:OD2	1.97	0.64
3:el:99:LEU:HD12	3:el:103:ASP:OD2	1.97	0.64
3:fl:100:GLN:O	3:fl:103:ASP:HB3	1.98	0.64
3:rl:99:LEU:HD12	3:rl:103:ASP:OD2	1.97	0.64
3:tl:100:GLN:O	3:tl:103:ASP:HB3	1.98	0.64
1:H:457:GLN:CA	2:Hh:121:GLN:O	2.45	0.64
1:V:454:THR:CG2	2:Vh:138:ASP:CB	2.76	0.64
1:4:489:SER:H	1:4:495:ASN:ND2	1.91	0.64
1:l:454:THR:CG2	2:lh:138:ASP:CB	2.76	0.64
2:Ch:57:ARG:HD3	2:Ch:113:TYR:CZ	2.32	0.64
2:Fh:57:ARG:HG2	2:Fh:113:TYR:CE2	2.33	0.64
2:Gh:128:LYS:HD2	2:Gh:128:LYS:H	1.62	0.64
2:Nh:57:ARG:HD3	2:Nh:113:TYR:CZ	2.33	0.64
2:Uh:57:ARG:HD3	2:Uh:113:TYR:CZ	2.33	0.64
2:Vh:57:ARG:HG2	2:Vh:113:TYR:CE2	2.33	0.64
2:2h:128:LYS:HD2	2:2h:128:LYS:H	1.62	0.64
2:3h:23:LEU:CD2	2:3h:53:MET:HE1	2.28	0.64
2:5h:23:LEU:CD2	2:5h:53:MET:HE1	2.28	0.64
2:ch:57:ARG:HD3	2:ch:113:TYR:CZ	2.33	0.64
2:dh:57:ARG:HD3	2:dh:113:TYR:CZ	2.33	0.64
2:hh:25:GLU:OE2	2:hh:115:CYS:HB2	1.96	0.64
2:hh:57:ARG:HD3	2:hh:113:TYR:CZ	2.33	0.64
2:lh:23:LEU:CD2	2:lh:53:MET:HE1	2.28	0.64
2:mh:57:ARG:HD3	2:mh:113:TYR:CZ	2.33	0.64
2:sh:128:LYS:HD2	2:sh:128:LYS:H	1.62	0.64
2:yh:88:THR:HG22	2:yh:101:GLN:HE22	1.38	0.64
2:zh:71:TRP:O	2:zh:91:ARG:NH1	2.30	0.64
2:7h:23:LEU:CD2	2:7h:53:MET:HE1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:8h:23:LEU:CD2	2:8h:53:MET:HE1	2.28	0.64
2:8h:57:ARG:HD3	2:8h:113:TYR:CZ	2.33	0.64
3:Ol:100:GLN:O	3:Ol:103:ASP:HB3	1.98	0.64
3:1l:58:GLN:HB2	3:1l:107:TYR:CE1	2.33	0.64
3:dl:100:GLN:O	3:dl:103:ASP:HB3	1.98	0.64
3:il:100:GLN:O	3:il:103:ASP:HB3	1.98	0.64
3:jl:99:LEU:HD12	3:jl:103:ASP:OD2	1.97	0.64
3:xl:100:GLN:O	3:xl:103:ASP:HB3	1.98	0.64
1:B:587:ASN:CB	3:Bl:87:ARG:HH11	1.92	0.63
1:O:587:ASN:HD22	3:Ol:87:ARG:NH1	1.96	0.63
1:P:587:ASN:CB	3:Pl:87:ARG:HH11	1.92	0.63
1:i:489:SER:H	1:i:495:ASN:ND2	1.90	0.63
1:j:454:THR:CG2	2:jh:138:ASP:CB	2.77	0.63
1:o:587:ASN:HD22	3:ol:87:ARG:NH1	1.96	0.63
1:r:587:ASN:HD22	3:rl:87:ARG:NH1	1.96	0.63
2:Eh:23:LEU:CD2	2:Eh:53:MET:HE1	2.28	0.63
2:Kh:128:LYS:HD2	2:Kh:128:LYS:H	1.62	0.63
2:Lh:57:ARG:HG2	2:Lh:113:TYR:CZ	2.31	0.63
2:Qh:23:LEU:CD2	2:Qh:53:MET:HE1	2.28	0.63
2:Sh:23:LEU:CD2	2:Sh:53:MET:HE1	2.28	0.63
2:Sh:25:GLU:OE2	2:Sh:115:CYS:HB2	1.96	0.63
2:Yh:23:LEU:CD2	2:Yh:53:MET:HE1	2.28	0.63
2:Zh:57:ARG:HD3	2:Zh:113:TYR:CZ	2.33	0.63
2:2h:23:LEU:CD2	2:2h:53:MET:HE1	2.28	0.63
2:4h:25:GLU:OE2	2:4h:115:CYS:HB2	1.96	0.63
2:4h:57:ARG:HD3	2:4h:113:TYR:CZ	2.33	0.63
2:4h:71:TRP:O	2:4h:91:ARG:NH1	2.30	0.63
2:ah:23:LEU:CD2	2:ah:53:MET:HE1	2.28	0.63
2:dh:57:ARG:HG2	2:dh:113:TYR:CE2	2.33	0.63
2:kh:25:GLU:OE2	2:kh:115:CYS:HB2	1.96	0.63
2:kh:57:ARG:HG2	2:kh:113:TYR:CE2	2.33	0.63
2:oh:57:ARG:HD3	2:oh:113:TYR:CZ	2.32	0.63
2:qh:23:LEU:CD2	2:qh:53:MET:HE1	2.28	0.63
2:rh:23:LEU:CD2	2:rh:53:MET:HE1	2.28	0.63
2:th:57:ARG:HG2	2:th:113:TYR:CZ	2.31	0.63
2:uh:128:LYS:HD2	2:uh:128:LYS:H	1.62	0.63
2:vh:57:ARG:HD3	2:vh:113:TYR:CZ	2.33	0.63
2:xh:128:LYS:HD2	2:xh:128:LYS:H	1.62	0.63
3:Jl:58:GLN:HB2	3:Jl:107:TYR:CE1	2.33	0.63
3:Pl:100:GLN:O	3:Pl:103:ASP:HB3	1.98	0.63
3:Xl:100:GLN:O	3:Xl:103:ASP:HB3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Zl:58:GLN:HB2	3:Zl:107:TYR:CE1	2.33	0.63
3:vl:58:GLN:HB2	3:vl:107:TYR:CE1	2.33	0.63
3:wl:58:GLN:HB2	3:wl:107:TYR:CE1	2.33	0.63
3:zl:100:GLN:O	3:zl:103:ASP:HB3	1.98	0.63
3:8l:58:GLN:HB2	3:8l:107:TYR:CE1	2.33	0.63
1:E:489:SER:H	1:E:495:ASN:ND2	1.90	0.63
1:M:454:THR:CG2	2:Mh:138:ASP:CB	2.76	0.63
1:Q:587:ASN:HD22	3:Ql:87:ARG:NH1	1.96	0.63
1:X:489:SER:H	1:X:495:ASN:ND2	1.90	0.63
1:b:489:SER:H	1:b:495:ASN:ND2	1.90	0.63
1:f:454:THR:CG2	2:fh:138:ASP:HB3	2.21	0.63
1:f:587:ASN:HD22	3:fl:87:ARG:NH1	1.96	0.63
1:g:454:THR:CG2	2:gh:138:ASP:CB	2.77	0.63
1:u:587:ASN:CB	3:ul:87:ARG:HH11	1.92	0.63
2:Bh:57:ARG:HG2	2:Bh:113:TYR:CE2	2.33	0.63
2:Ch:23:LEU:CD2	2:Ch:53:MET:HE1	2.28	0.63
2:Hh:71:TRP:O	2:Hh:91:ARG:NH1	2.30	0.63
2:Jh:57:ARG:HD3	2:Jh:113:TYR:CZ	2.33	0.63
2:Ph:57:ARG:HG2	2:Ph:113:TYR:CE2	2.33	0.63
2:Rh:25:GLU:OE2	2:Rh:115:CYS:HB2	1.96	0.63
2:Rh:57:ARG:HG2	2:Rh:113:TYR:CE2	2.33	0.63
2:2h:57:ARG:HG2	2:2h:113:TYR:CE2	2.33	0.63
2:6h:23:LEU:CD2	2:6h:53:MET:HE1	2.28	0.63
2:ih:57:ARG:HD3	2:ih:113:TYR:CZ	2.33	0.63
2:jh:57:ARG:HG2	2:jh:113:TYR:CE2	2.33	0.63
2:th:57:ARG:HD3	2:th:113:TYR:CZ	2.33	0.63
2:yh:128:LYS:HD2	2:yh:128:LYS:H	1.62	0.63
3:Fl:99:LEU:HD12	3:Fl:103:ASP:OD2	1.97	0.63
3:Wl:58:GLN:HB2	3:Wl:107:TYR:CE1	2.33	0.63
3:Yl:58:GLN:HB2	3:Yl:107:TYR:CE1	2.33	0.63
3:cl:58:GLN:HB2	3:cl:107:TYR:CE1	2.33	0.63
3:ml:58:GLN:HB2	3:ml:107:TYR:CE1	2.33	0.63
3:zl:58:GLN:HB2	3:zl:107:TYR:CE1	2.33	0.63
3:7l:58:GLN:HB2	3:7l:107:TYR:CE1	2.33	0.63
1:H:587:ASN:HD22	3:Hl:87:ARG:NH1	1.97	0.63
1:O:454:THR:CG2	2:Oh:138:ASP:HB3	2.22	0.63
1:T:454:THR:CG2	2:Th:138:ASP:CB	2.77	0.63
1:b:454:THR:CG2	2:bh:138:ASP:CB	2.76	0.63
1:b:587:ASN:HD22	3:bl:87:ARG:NH1	1.96	0.63
1:h:489:SER:H	1:h:495:ASN:ND2	1.90	0.63
1:w:454:THR:CG2	2:wh:138:ASP:CB	2.76	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:587:ASN:HD22	3:yl:87:ARG:NH1	1.97	0.63
2:Bh:128:LYS:HD2	2:Bh:128:LYS:H	1.62	0.63
2:Ih:57:ARG:HD3	2:Ih:113:TYR:CZ	2.32	0.63
2:Lh:57:ARG:HD3	2:Lh:113:TYR:CZ	2.33	0.63
2:Lh:57:ARG:HG2	2:Lh:113:TYR:CE2	2.33	0.63
2:Xh:57:ARG:HD3	2:Xh:113:TYR:CZ	2.33	0.63
2:Yh:57:ARG:HG2	2:Yh:113:TYR:CE2	2.33	0.63
2:6h:57:ARG:HG2	2:6h:113:TYR:CE2	2.33	0.63
2:ih:23:LEU:CD2	2:ih:53:MET:HE1	2.28	0.63
2:jh:71:TRP:O	2:jh:91:ARG:NH1	2.30	0.63
2:lh:57:ARG:HG2	2:lh:113:TYR:CE2	2.33	0.63
2:ph:57:ARG:HD3	2:ph:113:TYR:CZ	2.33	0.63
2:th:57:ARG:HG2	2:th:113:TYR:CE2	2.33	0.63
2:uh:57:ARG:HG2	2:uh:113:TYR:CE2	2.33	0.63
2:yh:71:TRP:O	2:yh:91:ARG:NH1	2.30	0.63
3:Nl:100:GLN:O	3:Nl:103:ASP:HB3	1.98	0.63
3:Ul:58:GLN:HB2	3:Ul:107:TYR:CE1	2.33	0.63
3:Wl:100:GLN:O	3:Wl:103:ASP:HB3	1.98	0.63
3:Yl:100:GLN:O	3:Yl:103:ASP:HB3	1.98	0.63
3:1l:99:LEU:HD12	3:1l:103:ASP:OD2	1.97	0.63
3:4l:58:GLN:HB2	3:4l:107:TYR:CE1	2.33	0.63
3:cl:100:GLN:O	3:cl:103:ASP:HB3	1.98	0.63
3:sl:99:LEU:HD12	3:sl:103:ASP:OD2	1.97	0.63
3:7l:100:GLN:O	3:7l:103:ASP:HB3	1.98	0.63
1:I:587:ASN:HD22	3:Il:87:ARG:NH1	1.96	0.63
1:M:587:ASN:HD22	3:Ml:87:ARG:NH1	1.96	0.63
1:q:489:SER:H	1:q:495:ASN:ND2	1.90	0.63
1:v:457:GLN:CA	2:vh:121:GLN:O	2.45	0.63
2:Hh:23:LEU:CD2	2:Hh:53:MET:HE1	2.28	0.63
2:Hh:128:LYS:HD2	2:Hh:128:LYS:H	1.62	0.63
2:Ih:57:ARG:HG2	2:Ih:113:TYR:CE2	2.33	0.63
2:Sh:57:ARG:HG2	2:Sh:113:TYR:CE2	2.33	0.63
2:Wh:23:LEU:CD2	2:Wh:53:MET:HE1	2.28	0.63
2:Xh:23:LEU:CD2	2:Xh:53:MET:HE1	2.28	0.63
2:ch:57:ARG:CD	2:ch:113:TYR:OH	2.42	0.63
2:ph:128:LYS:HD2	2:ph:128:LYS:H	1.62	0.63
2:zh:23:LEU:CD2	2:zh:53:MET:HE1	2.28	0.63
2:7h:57:ARG:HG2	2:7h:113:TYR:CE2	2.33	0.63
3:Xl:58:GLN:HB2	3:Xl:107:TYR:CE1	2.33	0.63
3:6l:58:GLN:HB2	3:6l:107:TYR:CE1	2.33	0.63
3:il:58:GLN:HB2	3:il:107:TYR:CE1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:587:ASN:HD22	3:Tl:87:ARG:NH1	1.96	0.63
1:Z:454:THR:CG2	2:Zh:138:ASP:CB	2.76	0.63
1:k:587:ASN:HD22	3:kl:87:ARG:NH1	1.97	0.63
1:p:457:GLN:CA	2:ph:121:GLN:O	2.46	0.63
1:8:454:THR:CG2	2:8h:138:ASP:CB	2.76	0.63
2:Ah:57:ARG:HD3	2:Ah:113:TYR:CZ	2.33	0.63
2:Bh:71:TRP:O	2:Bh:91:ARG:NH1	2.30	0.63
2:Mh:128:LYS:HD2	2:Mh:128:LYS:H	1.62	0.63
2:Nh:57:ARG:HG2	2:Nh:113:TYR:CE2	2.33	0.63
2:Uh:23:LEU:CD2	2:Uh:53:MET:HE1	2.28	0.63
2:Vh:71:TRP:O	2:Vh:91:ARG:NH1	2.30	0.63
2:1h:57:ARG:CD	2:1h:113:TYR:OH	2.42	0.63
2:5h:57:ARG:HD3	2:5h:113:TYR:CZ	2.33	0.63
2:bh:57:ARG:HD3	2:bh:113:TYR:CZ	2.33	0.63
2:ch:57:ARG:HG2	2:ch:113:TYR:CE2	2.33	0.63
2:dh:23:LEU:CD2	2:dh:53:MET:HE1	2.28	0.63
2:fh:128:LYS:HD2	2:fh:128:LYS:H	1.62	0.63
2:kh:23:LEU:CD2	2:kh:53:MET:HE1	2.28	0.63
2:nh:128:LYS:HD2	2:nh:128:LYS:H	1.62	0.63
2:oh:57:ARG:HG2	2:oh:113:TYR:CE2	2.33	0.63
2:wh:57:ARG:CD	2:wh:113:TYR:OH	2.42	0.63
2:yh:23:LEU:CD2	2:yh:53:MET:HE1	2.28	0.63
3:Il:100:GLN:O	3:Il:103:ASP:HB3	1.98	0.63
3:Nl:58:GLN:HB2	3:Nl:107:TYR:CE1	2.33	0.63
3:gl:99:LEU:HD12	3:gl:103:ASP:OD2	1.97	0.63
3:hl:58:GLN:HB2	3:hl:107:TYR:CE1	2.33	0.63
3:ol:58:GLN:HB2	3:ol:107:TYR:CE1	2.33	0.63
3:ol:100:GLN:O	3:ol:103:ASP:HB3	1.98	0.63
3:wl:99:LEU:HD12	3:wl:103:ASP:OD2	1.97	0.63
1:M:489:SER:H	1:M:495:ASN:ND2	1.90	0.63
1:R:587:ASN:HD22	3:Rl:87:ARG:NH1	1.97	0.63
1:V:587:ASN:HD22	3:Vl:87:ARG:NH1	1.96	0.63
1:6:587:ASN:HD22	3:6l:87:ARG:NH1	1.96	0.63
1:a:454:THR:CG2	2:ah:138:ASP:CB	2.76	0.63
1:d:587:ASN:HD22	3:dl:87:ARG:NH1	1.97	0.63
1:f:457:GLN:CA	2:fh:121:GLN:O	2.45	0.63
1:j:587:ASN:HD22	3:jl:87:ARG:NH1	1.96	0.63
1:s:587:ASN:HD22	3:sl:87:ARG:HH12	1.47	0.63
1:v:587:ASN:HD22	3:vl:87:ARG:NH1	1.97	0.63
1:z:457:GLN:CA	2:zh:121:GLN:O	2.45	0.63
2:Ah:128:LYS:HD2	2:Ah:128:LYS:H	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:57:ARG:HG2	2:Ch:113:TYR:CE2	2.33	0.63
2:Ih:128:LYS:HD2	2:Ih:128:LYS:H	1.62	0.63
2:Kh:57:ARG:HG2	2:Kh:113:TYR:CE2	2.33	0.63
2:Mh:57:ARG:HD3	2:Mh:113:TYR:CZ	2.33	0.63
2:Nh:57:ARG:CD	2:Nh:113:TYR:OH	2.42	0.63
2:Rh:23:LEU:CD2	2:Rh:53:MET:HE1	2.28	0.63
2:Xh:57:ARG:HG2	2:Xh:113:TYR:CE2	2.33	0.63
2:3h:57:ARG:HD3	2:3h:113:TYR:CZ	2.33	0.63
2:ah:57:ARG:HG2	2:ah:113:TYR:CE2	2.33	0.63
2:th:57:ARG:CD	2:th:113:TYR:OH	2.42	0.63
3:Hl:58:GLN:HB2	3:Hl:107:TYR:CE1	2.33	0.63
3:Il:58:GLN:HB2	3:Il:107:TYR:CE1	2.33	0.63
3:Tl:99:LEU:HD12	3:Tl:103:ASP:OD2	1.97	0.63
3:Tl:100:GLN:O	3:Tl:103:ASP:HB3	1.98	0.63
3:2l:58:GLN:HB2	3:2l:107:TYR:CE1	2.33	0.63
3:6l:99:LEU:HD12	3:6l:103:ASP:OD2	1.97	0.63
3:6l:100:GLN:O	3:6l:103:ASP:HB3	1.98	0.63
3:wl:100:GLN:O	3:wl:103:ASP:HB3	1.98	0.63
3:xl:58:GLN:HB2	3:xl:107:TYR:CE1	2.33	0.63
3:yl:58:GLN:HB2	3:yl:107:TYR:CE1	2.33	0.63
1:C:454:THR:CG2	2:Ch:138:ASP:CB	2.76	0.63
1:J:457:GLN:CA	2:Jh:121:GLN:O	2.45	0.63
1:J:587:ASN:HD22	3:Jl:87:ARG:NH1	1.97	0.63
1:O:457:GLN:CA	2:Oh:121:GLN:O	2.45	0.63
1:P:587:ASN:HD22	3:Pl:87:ARG:NH1	1.97	0.63
1:S:587:ASN:HD22	3:Sl:87:ARG:NH1	1.97	0.63
1:f:454:THR:CG2	2:fh:138:ASP:CB	2.76	0.63
1:g:587:ASN:HD22	3:gl:87:ARG:NH1	1.96	0.63
1:t:489:SER:H	1:t:495:ASN:ND2	1.90	0.63
2:Gh:57:ARG:HG2	2:Gh:113:TYR:CE2	2.33	0.63
2:Hh:88:THR:HG22	2:Hh:101:GLN:HE22	1.38	0.63
2:Ph:23:LEU:CD2	2:Ph:53:MET:HE1	2.28	0.63
2:Zh:57:ARG:HG2	2:Zh:113:TYR:CE2	2.33	0.63
2:bh:128:LYS:HD2	2:bh:128:LYS:H	1.62	0.63
2:mh:23:LEU:CD2	2:mh:53:MET:HE1	2.28	0.63
2:nh:57:ARG:HG2	2:nh:113:TYR:CE2	2.33	0.63
2:ph:57:ARG:HG2	2:ph:113:TYR:CE2	2.33	0.63
2:rh:57:ARG:HG2	2:rh:113:TYR:CE2	2.33	0.63
2:xh:57:ARG:HG2	2:xh:113:TYR:CE2	2.33	0.63
3:Bl:58:GLN:HB2	3:Bl:107:TYR:CE1	2.33	0.63
3:Kl:58:GLN:HB2	3:Kl:107:TYR:CE1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ql:100:GLN:O	3:Ql:103:ASP:HB3	1.98	0.63
3:2l:99:LEU:HD12	3:2l:103:ASP:OD2	1.97	0.63
3:gl:100:GLN:O	3:gl:103:ASP:HB3	1.98	0.63
3:ml:99:LEU:HD12	3:ml:103:ASP:OD2	1.97	0.63
3:nl:58:GLN:HB2	3:nl:107:TYR:CE1	2.33	0.63
3:ul:58:GLN:HB2	3:ul:107:TYR:CE1	2.33	0.63
1:D:587:ASN:HD22	3:Dl:87:ARG:NH1	1.96	0.63
1:G:587:ASN:HD22	3:Gl:87:ARG:NH1	1.96	0.63
1:K:457:GLN:CA	2:Kh:121:GLN:O	2.46	0.63
1:M:457:GLN:CA	2:Mh:121:GLN:O	2.45	0.63
1:X:587:ASN:HD22	3:Xl:87:ARG:NH1	1.96	0.63
1:l:457:GLN:CA	2:lh:121:GLN:O	2.45	0.63
1:l:587:ASN:HD22	3:ll:87:ARG:NH1	1.97	0.63
1:r:457:GLN:CA	2:rh:121:GLN:O	2.45	0.63
1:u:457:GLN:CA	2:uh:121:GLN:O	2.45	0.63
2:Ah:57:ARG:HG2	2:Ah:113:TYR:CE2	2.33	0.63
2:Bh:23:LEU:CD2	2:Bh:53:MET:HE1	2.28	0.63
2:Dh:57:ARG:HD3	2:Dh:113:TYR:CZ	2.33	0.63
2:Oh:128:LYS:HD2	2:Oh:128:LYS:H	1.62	0.63
2:Qh:57:ARG:HG2	2:Qh:113:TYR:CE2	2.33	0.63
2:3h:57:ARG:HG2	2:3h:113:TYR:CE2	2.33	0.63
2:4h:57:ARG:HG2	2:4h:113:TYR:CE2	2.33	0.63
2:eh:23:LEU:CD2	2:eh:53:MET:HE1	2.28	0.63
2:eh:57:ARG:HD3	2:eh:113:TYR:CZ	2.33	0.63
2:ih:57:ARG:HG2	2:ih:113:TYR:CE2	2.33	0.63
2:jh:57:ARG:HD3	2:jh:113:TYR:CZ	2.33	0.63
2:oh:128:LYS:HD2	2:oh:128:LYS:H	1.62	0.63
2:uh:71:TRP:O	2:uh:91:ARG:NH1	2.30	0.63
2:wh:57:ARG:HD3	2:wh:113:TYR:CZ	2.33	0.63
2:8h:57:ARG:HG2	2:8h:113:TYR:CE2	2.33	0.63
3:Cl:58:GLN:HB2	3:Cl:107:TYR:CE1	2.33	0.63
3:El:58:GLN:HB2	3:El:107:TYR:CE1	2.33	0.63
3:Gl:58:GLN:HB2	3:Gl:107:TYR:CE1	2.33	0.63
3:Ll:58:GLN:HB2	3:Ll:107:TYR:CE1	2.33	0.63
3:Ul:99:LEU:HD12	3:Ul:103:ASP:OD2	1.97	0.63
3:1l:100:GLN:O	3:1l:103:ASP:HB3	1.98	0.63
3:2l:100:GLN:O	3:2l:103:ASP:HB3	1.98	0.63
3:al:58:GLN:HB2	3:al:107:TYR:CE1	2.33	0.63
1:B:457:GLN:CA	2:Bh:121:GLN:O	2.45	0.63
1:F:587:ASN:HD22	3:Fl:87:ARG:HH12	1.47	0.63
1:J:454:THR:CG2	2:Jh:138:ASP:CB	2.76	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:454:THR:CG2	2:2h:138:ASP:CB	2.76	0.63
1:2:587:ASN:HD22	3:2l:87:ARG:NH1	1.96	0.63
1:4:457:GLN:CA	2:4h:121:GLN:O	2.45	0.63
1:e:457:GLN:CA	2:eh:121:GLN:O	2.45	0.63
1:e:587:ASN:HD22	3:el:87:ARG:NH1	1.96	0.63
1:h:457:GLN:CA	2:hh:121:GLN:O	2.45	0.63
1:i:587:ASN:HD22	3:il:87:ARG:NH1	1.96	0.63
2:1h:57:ARG:HG2	2:1h:113:TYR:CE2	2.33	0.63
2:5h:57:ARG:HG2	2:5h:113:TYR:CE2	2.33	0.63
2:hh:57:ARG:HG2	2:hh:113:TYR:CE2	2.33	0.63
2:qh:57:ARG:HG2	2:qh:113:TYR:CE2	2.33	0.63
2:uh:23:LEU:CD2	2:uh:53:MET:HE1	2.28	0.63
2:wh:57:ARG:HG2	2:wh:113:TYR:CE2	2.33	0.63
3:rl:100:GLN:O	3:rl:103:ASP:HB3	1.98	0.63
3:tl:58:GLN:HB2	3:tl:107:TYR:CE1	2.33	0.63
1:A:454:THR:CG2	2:Ah:138:ASP:HB3	2.25	0.62
1:F:454:THR:CG2	2:Fh:138:ASP:CB	2.77	0.62
1:H:489:SER:H	1:H:495:ASN:ND2	1.90	0.62
1:I:454:THR:CG2	2:Ih:138:ASP:CB	2.77	0.62
1:L:489:SER:H	1:L:495:ASN:ND2	1.90	0.62
1:O:454:THR:CG2	2:Oh:138:ASP:CB	2.76	0.62
1:Q:457:GLN:CA	2:Qh:121:GLN:O	2.45	0.62
1:S:457:GLN:CA	2:Sh:121:GLN:O	2.45	0.62
1:W:457:GLN:CA	2:Wh:121:GLN:O	2.45	0.62
1:W:587:ASN:HD22	3:Wl:87:ARG:NH1	1.97	0.62
1:3:587:ASN:HD22	3:3l:87:ARG:HH12	1.47	0.62
1:a:457:GLN:CA	2:ah:121:GLN:O	2.45	0.62
1:b:457:GLN:CA	2:bh:121:GLN:O	2.45	0.62
1:s:454:THR:CG2	2:sh:138:ASP:CB	2.77	0.62
1:v:454:THR:CG2	2:vh:138:ASP:CB	2.76	0.62
1:x:457:GLN:CA	2:xh:121:GLN:O	2.46	0.62
2:Dh:23:LEU:CD2	2:Dh:53:MET:HE1	2.28	0.62
2:Eh:57:ARG:HG2	2:Eh:113:TYR:CE2	2.33	0.62
2:Lh:57:ARG:CD	2:Lh:113:TYR:OH	2.42	0.62
2:Vh:57:ARG:HD3	2:Vh:113:TYR:CZ	2.32	0.62
2:1h:57:ARG:HD3	2:1h:113:TYR:CZ	2.33	0.62
3:Fl:100:GLN:O	3:Fl:103:ASP:HB3	1.98	0.62
3:Ml:58:GLN:HB2	3:Ml:107:TYR:CE1	2.33	0.62
3:Rl:100:GLN:O	3:Rl:103:ASP:HB3	1.98	0.62
3:ql:58:GLN:HB2	3:ql:107:TYR:CE1	2.33	0.62
1:B:489:SER:H	1:B:495:ASN:ND2	1.90	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:457:GLN:CA	2:Dh:121:GLN:O	2.45	0.62
1:4:454:THR:CG2	2:4h:138:ASP:CB	2.76	0.62
1:m:489:SER:H	1:m:495:ASN:ND2	1.90	0.62
1:u:489:SER:H	1:u:495:ASN:ND2	1.90	0.62
1:z:587:ASN:HD22	3:zl:87:ARG:NH1	1.97	0.62
2:Fh:23:LEU:CD2	2:Fh:53:MET:HE1	2.28	0.62
2:5h:57:ARG:CD	2:5h:113:TYR:OH	2.42	0.62
2:zh:57:ARG:HD3	2:zh:113:TYR:CZ	2.33	0.62
2:7h:71:TRP:O	2:7h:91:ARG:NH1	2.30	0.62
3:bl:58:GLN:HB2	3:bl:107:TYR:CE1	2.33	0.62
3:kl:100:GLN:O	3:kl:103:ASP:HB3	1.98	0.62
1:C:457:GLN:CA	2:Ch:121:GLN:O	2.45	0.62
1:C:587:ASN:HD22	3:Cl:87:ARG:NH1	1.96	0.62
1:U:489:SER:H	1:U:495:ASN:ND2	1.90	0.62
1:1:454:THR:CG2	2:1h:138:ASP:CB	2.77	0.62
1:1:487:ARG:O	1:6:584:GLN:NE2	2.32	0.62
1:1:587:ASN:HD22	3:1l:87:ARG:HH12	1.47	0.62
1:h:454:THR:CG2	2:hh:138:ASP:CB	2.76	0.62
1:o:454:THR:CG2	2:oh:138:ASP:CB	2.77	0.62
1:o:457:GLN:CA	2:oh:121:GLN:O	2.45	0.62
1:u:587:ASN:HD22	3:ul:87:ARG:NH1	1.97	0.62
2:Fh:71:TRP:O	2:Fh:91:ARG:NH1	2.30	0.62
2:Vh:57:ARG:CD	2:Vh:113:TYR:OH	2.42	0.62
2:Wh:57:ARG:HD3	2:Wh:113:TYR:CZ	2.33	0.62
2:Yh:71:TRP:O	2:Yh:91:ARG:NH1	2.30	0.62
2:3h:57:ARG:CD	2:3h:113:TYR:OH	2.42	0.62
2:jh:57:ARG:CD	2:jh:113:TYR:OH	2.42	0.62
2:mh:57:ARG:CD	2:mh:113:TYR:OH	2.42	0.62
2:wh:128:LYS:HD2	2:wh:128:LYS:H	1.62	0.62
3:Tl:58:GLN:HB2	3:Tl:107:TYR:CE1	2.33	0.62
3:bl:33:THR:HB	3:bl:36:GLN:HG3	1.82	0.62
3:sl:100:GLN:O	3:sl:103:ASP:HB3	1.98	0.62
1:B:587:ASN:HD22	3:Bl:87:ARG:NH1	1.97	0.62
1:E:587:ASN:HD22	3:El:87:ARG:NH1	1.96	0.62
1:L:454:THR:CG2	2:Lh:138:ASP:CB	2.75	0.62
1:M:587:ASN:HD22	3:Ml:87:ARG:HH12	1.48	0.62
1:T:386:ALA:O	1:6:706:LYS:HA	1.99	0.62
1:U:454:THR:CG2	2:Uh:138:ASP:CB	2.75	0.62
1:a:587:ASN:HD22	3:al:87:ARG:NH1	1.96	0.62
1:b:587:ASN:HD22	3:bl:87:ARG:HH12	1.48	0.62
1:n:587:ASN:HD22	3:nl:87:ARG:NH1	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:457:GLN:CA	2:qh:121:GLN:O	2.45	0.62
1:q:587:ASN:HD22	3:ql:87:ARG:NH1	1.96	0.62
1:t:454:THR:CG2	2:th:138:ASP:CB	2.75	0.62
1:t:587:ASN:HD22	3:tl:87:ARG:NH1	1.97	0.62
1:u:454:THR:CG2	2:uh:138:ASP:CB	2.76	0.62
1:y:454:THR:CG2	2:yh:138:ASP:CB	2.76	0.62
2:Mh:57:ARG:HG2	2:Mh:113:TYR:CE2	2.33	0.62
2:1h:128:LYS:HD2	2:1h:128:LYS:H	1.62	0.62
2:sh:23:LEU:CD2	2:sh:53:MET:HE1	2.28	0.62
2:th:71:TRP:O	2:th:91:ARG:NH1	2.30	0.62
2:zh:128:LYS:HD2	2:zh:128:LYS:H	1.62	0.62
3:Ml:33:THR:HB	3:Ml:36:GLN:HG3	1.82	0.62
3:Sl:33:THR:HB	3:Sl:36:GLN:HG3	1.82	0.62
3:Ul:100:GLN:O	3:Ul:103:ASP:HB3	1.98	0.62
3:Zl:33:THR:HB	3:Zl:36:GLN:HG3	1.82	0.62
3:gl:58:GLN:HB2	3:gl:107:TYR:CE1	2.33	0.62
3:ll:33:THR:HB	3:ll:36:GLN:HG3	1.82	0.62
1:B:454:THR:CG2	2:Bh:138:ASP:CB	2.76	0.62
1:F:457:GLN:CA	2:Fh:121:GLN:O	2.46	0.62
1:H:454:THR:CG2	2:Hh:138:ASP:CB	2.76	0.62
1:I:457:GLN:CA	2:Ih:121:GLN:O	2.45	0.62
1:L:587:ASN:HD22	3:Ll:87:ARG:NH1	1.97	0.62
1:N:587:ASN:HD22	3:Nl:87:ARG:NH1	1.97	0.62
1:X:457:GLN:CA	2:Xh:121:GLN:O	2.45	0.62
1:1:457:GLN:CA	2:1h:121:GLN:O	2.46	0.62
2:Uh:57:ARG:CD	2:Uh:113:TYR:OH	2.42	0.62
2:Wh:128:LYS:HD2	2:Wh:128:LYS:H	1.62	0.62
2:bh:57:ARG:HG2	2:bh:113:TYR:CE2	2.33	0.62
2:lh:88:THR:HG22	2:lh:101:GLN:HE22	1.39	0.62
2:sh:71:TRP:O	2:sh:91:ARG:NH1	2.30	0.62
3:Tl:33:THR:HB	3:Tl:36:GLN:HG3	1.82	0.62
3:Vl:33:THR:HB	3:Vl:36:GLN:HG3	1.82	0.62
3:4l:31:SER:HB3	3:4l:127:THR:HG1	1.62	0.62
3:jl:33:THR:HB	3:jl:36:GLN:HG3	1.82	0.62
3:ml:100:GLN:O	3:ml:103:ASP:HB3	1.98	0.62
3:8l:33:THR:HB	3:8l:36:GLN:HG3	1.82	0.62
1:E:457:GLN:CA	2:Eh:121:GLN:O	2.45	0.62
1:N:489:SER:H	1:N:495:ASN:ND2	1.91	0.62
1:R:457:GLN:CA	2:Rh:121:GLN:O	2.45	0.62
1:c:587:ASN:HD22	3:cl:87:ARG:NH1	1.97	0.62
1:d:454:THR:CG2	2:dh:138:ASP:CB	2.76	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:457:GLN:CA	2:ih:121:GLN:O	2.45	0.62
1:k:457:GLN:CA	2:kh:121:GLN:O	2.45	0.62
1:m:454:THR:CG2	2:mh:138:ASP:CB	2.75	0.62
2:Dh:57:ARG:HG2	2:Dh:113:TYR:CE2	2.33	0.62
2:Lh:71:TRP:O	2:Lh:91:ARG:NH1	2.30	0.62
3:Bl:33:THR:HB	3:Bl:36:GLN:HG3	1.82	0.62
3:gl:33:THR:HB	3:gl:36:GLN:HG3	1.82	0.62
3:tl:33:THR:HB	3:tl:36:GLN:HG3	1.82	0.62
1:A:584:GLN:NE2	1:3:487:ARG:O	2.32	0.62
1:E:587:ASN:HD22	3:El:87:ARG:HH12	1.48	0.62
1:5:587:ASN:HD22	3:5l:87:ARG:HH12	1.48	0.62
1:c:489:SER:H	1:c:495:ASN:ND2	1.91	0.62
1:q:587:ASN:HD22	3:ql:87:ARG:HH12	1.48	0.62
1:s:457:GLN:CA	2:sh:121:GLN:O	2.46	0.62
1:7:587:ASN:HD22	3:7l:87:ARG:NH1	1.97	0.62
2:ph:88:THR:HG22	2:ph:101:GLN:HE22	1.38	0.62
3:Jl:33:THR:HB	3:Jl:36:GLN:HG3	1.82	0.62
3:Ll:33:THR:HB	3:Ll:36:GLN:HG3	1.82	0.62
3:ul:33:THR:HB	3:ul:36:GLN:HG3	1.82	0.62
3:7l:33:THR:HB	3:7l:36:GLN:HG3	1.82	0.62
1:D:585:ARG:HG2	1:D:588:ARG:HB3	1.82	0.62
1:N:457:GLN:CA	2:Nh:121:GLN:O	2.45	0.62
1:O:587:ASN:HD22	3:Ol:87:ARG:HH12	1.48	0.62
1:W:454:THR:CG2	2:Wh:138:ASP:CB	2.76	0.62
1:5:454:THR:CG2	2:5h:138:ASP:CB	2.76	0.62
1:c:457:GLN:CA	2:ch:121:GLN:O	2.45	0.62
1:e:587:ASN:HD22	3:el:87:ARG:HH12	1.48	0.62
1:f:587:ASN:HD22	3:fl:87:ARG:HH12	1.48	0.62
1:h:587:ASN:HD22	3:hl:87:ARG:HH12	1.48	0.62
1:x:454:THR:CG2	2:xh:138:ASP:CB	2.77	0.62
1:z:454:THR:CG2	2:zh:138:ASP:CB	2.76	0.62
2:Uh:57:ARG:HG2	2:Uh:113:TYR:CE2	2.33	0.62
2:5h:128:LYS:HD2	2:5h:128:LYS:H	1.62	0.62
2:eh:57:ARG:HG2	2:eh:113:TYR:CE2	2.33	0.62
2:mh:57:ARG:HG2	2:mh:113:TYR:CE2	2.33	0.62
2:7h:25:GLU:OE1	2:7h:55:TRP:HZ3	1.83	0.62
3:Ol:33:THR:HB	3:Ol:36:GLN:HG3	1.82	0.62
3:Wl:33:THR:HB	3:Wl:36:GLN:HG3	1.82	0.62
3:Xl:33:THR:HB	3:Xl:36:GLN:HG3	1.82	0.62
3:Yl:33:THR:HB	3:Yl:36:GLN:HG3	1.82	0.62
3:il:33:THR:HB	3:il:36:GLN:HG3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:pl:33:THR:HB	3:pl:36:GLN:HG3	1.82	0.62
3:vl:33:THR:HB	3:vl:36:GLN:HG3	1.82	0.62
1:C:526:HIS:CE1	1:C:561:ASP:OD2	2.53	0.62
1:D:587:ASN:HD22	3:Dl:87:ARG:HH12	1.48	0.62
1:K:454:THR:CG2	2:Kh:138:ASP:CB	2.77	0.62
1:P:454:THR:CG2	2:Ph:138:ASP:CB	2.76	0.62
1:Q:526:HIS:CE1	1:Q:561:ASP:OD2	2.53	0.62
1:T:526:HIS:CE1	1:T:561:ASP:OD2	2.53	0.62
1:Y:587:ASN:HD22	3:Yl:87:ARG:NH1	1.97	0.62
1:Z:457:GLN:CA	2:Zh:121:GLN:O	2.45	0.62
1:4:587:ASN:HD22	3:4l:87:ARG:HH12	1.48	0.62
1:a:526:HIS:CE1	1:a:561:ASP:OD2	2.53	0.62
1:e:585:ARG:HG2	1:e:588:ARG:HB3	1.82	0.62
1:h:584:GLN:NE2	1:p:487:ARG:O	2.33	0.62
1:i:454:THR:CG2	2:ih:138:ASP:CB	2.76	0.62
1:s:487:ARG:O	1:w:584:GLN:NE2	2.33	0.62
2:Th:128:LYS:HD2	2:Th:128:LYS:H	1.62	0.62
2:Xh:25:GLU:OE1	2:Xh:55:TRP:HZ3	1.83	0.62
2:Yh:25:GLU:OE1	2:Yh:55:TRP:HZ3	1.83	0.62
2:3h:128:LYS:HD2	2:3h:128:LYS:H	1.62	0.62
2:dh:25:GLU:OE1	2:dh:55:TRP:HZ3	1.83	0.62
2:ih:25:GLU:OE1	2:ih:55:TRP:HZ3	1.83	0.62
3:Fl:33:THR:HB	3:Fl:36:GLN:HG3	1.82	0.62
3:3l:33:THR:HB	3:3l:36:GLN:HG3	1.82	0.62
3:fl:33:THR:HB	3:fl:36:GLN:HG3	1.82	0.62
3:sl:33:THR:HB	3:sl:36:GLN:HG3	1.82	0.62
1:Q:587:ASN:HD22	3:Ql:87:ARG:HH12	1.48	0.62
1:X:454:THR:CG2	2:Xh:138:ASP:CB	2.76	0.62
1:X:587:ASN:HD22	3:Xl:87:ARG:HH12	1.48	0.62
1:3:585:ARG:HG2	1:3:588:ARG:HB3	1.82	0.62
1:g:526:HIS:CE1	1:g:561:ASP:OD2	2.53	0.62
1:r:526:HIS:CE1	1:r:561:ASP:OD2	2.53	0.62
1:7:457:GLN:CA	2:7h:121:GLN:O	2.45	0.62
1:8:457:GLN:CA	2:8h:121:GLN:O	2.45	0.62
2:Ph:25:GLU:OE1	2:Ph:55:TRP:HZ3	1.83	0.62
3:Al:33:THR:HB	3:Al:36:GLN:HG3	1.82	0.62
3:El:31:SER:HB3	3:El:127:THR:HG1	1.64	0.62
3:Ql:33:THR:HB	3:Ql:36:GLN:HG3	1.82	0.62
3:2l:58:GLN:HB2	3:2l:107:TYR:HE1	1.65	0.62
3:5l:33:THR:HB	3:5l:36:GLN:HG3	1.82	0.62
3:6l:58:GLN:HB2	3:6l:107:TYR:HE1	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:zl:33:THR:HB	3:zl:36:GLN:HG3	1.82	0.62
1:B:585:ARG:HG2	1:B:588:ARG:HB3	1.82	0.61
1:D:487:ARG:O	1:7:584:GLN:NE2	2.34	0.61
1:G:489:SER:H	1:G:495:ASN:ND2	1.90	0.61
1:N:585:ARG:HG2	1:N:588:ARG:HB3	1.82	0.61
1:T:585:ARG:HG2	1:T:588:ARG:HB3	1.82	0.61
1:Y:454:THR:CG2	2:Yh:138:ASP:CB	2.76	0.61
1:Y:584:GLN:NE2	1:e:487:ARG:O	2.34	0.61
1:1:585:ARG:HG2	1:1:588:ARG:HB3	1.82	0.61
1:n:489:SER:H	1:n:495:ASN:ND2	1.90	0.61
1:u:585:ARG:HG2	1:u:588:ARG:HB3	1.82	0.61
1:w:457:GLN:CA	2:wh:121:GLN:O	2.45	0.61
2:Nh:25:GLU:OE1	2:Nh:55:TRP:HZ3	1.83	0.61
2:3h:25:GLU:OE1	2:3h:55:TRP:HZ3	1.83	0.61
2:ch:25:GLU:OE1	2:ch:55:TRP:HZ3	1.83	0.61
2:ch:128:LYS:HD2	2:ch:128:LYS:H	1.62	0.61
2:gh:128:LYS:HD2	2:gh:128:LYS:H	1.62	0.61
3:Nl:33:THR:HB	3:Nl:36:GLN:HG3	1.82	0.61
3:cl:33:THR:HB	3:cl:36:GLN:HG3	1.82	0.61
3:rl:33:THR:HB	3:rl:36:GLN:HG3	1.82	0.61
1:G:487:ARG:O	1:t:584:GLN:NE2	2.33	0.61
1:O:526:HIS:CE1	1:O:561:ASP:OD2	2.53	0.61
1:U:587:ASN:HD22	3:Ul:87:ARG:NH1	1.97	0.61
1:V:585:ARG:HG2	1:V:588:ARG:HB3	1.82	0.61
1:Y:457:GLN:CA	2:Yh:121:GLN:O	2.45	0.61
1:5:585:ARG:HG2	1:5:588:ARG:HB3	1.82	0.61
1:c:585:ARG:HG2	1:c:588:ARG:HB3	1.82	0.61
1:r:587:ASN:HD22	3:rl:87:ARG:HH12	1.48	0.61
1:w:585:ARG:HG2	1:w:588:ARG:HB3	1.82	0.61
1:7:454:THR:CG2	2:7h:138:ASP:CB	2.76	0.61
2:Bh:121:GLN:HG3	2:Bh:135:TYR:CE2	2.36	0.61
2:Ch:121:GLN:HG3	2:Ch:135:TYR:CE2	2.36	0.61
2:Rh:121:GLN:HG3	2:Rh:135:TYR:CE2	2.36	0.61
2:Zh:128:LYS:HD2	2:Zh:128:LYS:H	1.62	0.61
2:5h:25:GLU:OE1	2:5h:55:TRP:HZ3	1.83	0.61
2:6h:121:GLN:HG3	2:6h:135:TYR:CE2	2.36	0.61
2:ah:121:GLN:HG3	2:ah:135:TYR:CE2	2.36	0.61
2:ih:57:ARG:CD	2:ih:113:TYR:OH	2.42	0.61
2:kh:121:GLN:HG3	2:kh:135:TYR:CE2	2.36	0.61
2:uh:121:GLN:HG3	2:uh:135:TYR:CE2	2.36	0.61
2:8h:128:LYS:HD2	2:8h:128:LYS:H	1.62	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Kl:58:GLN:HB2	3:Kl:107:TYR:HE1	1.65	0.61
3:Yl:58:GLN:HB2	3:Yl:107:TYR:HE1	1.66	0.61
3:7l:58:GLN:HB2	3:7l:107:TYR:HE1	1.66	0.61
1:A:585:ARG:HG2	1:A:588:ARG:HB3	1.82	0.61
1:B:487:ARG:O	1:V:584:GLN:NE2	2.34	0.61
1:E:585:ARG:HG2	1:E:588:ARG:HB3	1.82	0.61
1:F:585:ARG:HG2	1:F:588:ARG:HB3	1.83	0.61
1:L:584:GLN:NE2	1:n:487:ARG:O	2.33	0.61
1:M:585:ARG:HG2	1:M:588:ARG:HB3	1.82	0.61
1:3:454:THR:CG2	2:3h:138:ASP:CB	2.77	0.61
1:b:585:ARG:HG2	1:b:588:ARG:HB3	1.82	0.61
1:f:526:HIS:CE1	1:f:561:ASP:OD2	2.53	0.61
1:g:585:ARG:HG2	1:g:588:ARG:HB3	1.82	0.61
1:j:585:ARG:HG2	1:j:588:ARG:HB3	1.82	0.61
1:m:585:ARG:HG2	1:m:588:ARG:HB3	1.82	0.61
1:m:587:ASN:HD22	3:ml:87:ARG:NH1	1.97	0.61
1:q:585:ARG:HG2	1:q:588:ARG:HB3	1.82	0.61
1:s:585:ARG:HG2	1:s:588:ARG:HB3	1.82	0.61
2:Ah:25:GLU:OE1	2:Ah:55:TRP:HZ3	1.83	0.61
2:Bh:88:THR:HG22	2:Bh:101:GLN:HE22	1.38	0.61
2:Xh:121:GLN:HG3	2:Xh:135:TYR:CE2	2.35	0.61
2:Zh:121:GLN:HG3	2:Zh:135:TYR:CE2	2.35	0.61
2:2h:121:GLN:HG3	2:2h:135:TYR:CE2	2.36	0.61
2:lh:25:GLU:OE1	2:lh:55:TRP:HZ3	1.83	0.61
2:lh:57:ARG:CD	2:lh:113:TYR:OH	2.42	0.61
2:zh:121:GLN:HG3	2:zh:135:TYR:CE2	2.36	0.61
2:8h:121:GLN:HG3	2:8h:135:TYR:CE2	2.35	0.61
3:Wl:58:GLN:HB2	3:Wl:107:TYR:HE1	1.66	0.61
3:ql:58:GLN:HB2	3:ql:107:TYR:HE1	1.66	0.61
3:tl:58:GLN:HB2	3:tl:107:TYR:HE1	1.66	0.61
3:xl:58:GLN:HB2	3:xl:107:TYR:HE1	1.65	0.61
3:zl:58:GLN:HB2	3:zl:107:TYR:HE1	1.66	0.61
1:C:585:ARG:HG2	1:C:588:ARG:HB3	1.82	0.61
1:I:526:HIS:CE1	1:I:561:ASP:OD2	2.53	0.61
1:J:585:ARG:HG2	1:J:588:ARG:HB3	1.82	0.61
1:P:526:HIS:CE1	1:P:561:ASP:OD2	2.53	0.61
1:Q:454:THR:CG2	2:Qh:138:ASP:CB	2.77	0.61
1:U:585:ARG:HG2	1:U:588:ARG:HB3	1.82	0.61
1:W:487:ARG:O	1:c:584:GLN:NE2	2.34	0.61
1:5:489:SER:H	1:5:495:ASN:ND2	1.90	0.61
1:j:584:GLN:NE2	1:u:487:ARG:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:454:THR:CG2	2:qh:138:ASP:CB	2.76	0.61
2:Dh:121:GLN:HG3	2:Dh:135:TYR:CE2	2.36	0.61
2:Jh:121:GLN:HG3	2:Jh:135:TYR:CE2	2.36	0.61
2:Nh:128:LYS:HD2	2:Nh:128:LYS:H	1.62	0.61
2:Rh:25:GLU:OE1	2:Rh:55:TRP:HZ3	1.83	0.61
2:Sh:25:GLU:OE1	2:Sh:55:TRP:HZ3	1.83	0.61
2:4h:121:GLN:HG3	2:4h:135:TYR:CE2	2.36	0.61
2:eh:121:GLN:HG3	2:eh:135:TYR:CE2	2.36	0.61
2:ih:121:GLN:HG3	2:ih:135:TYR:CE2	2.35	0.61
2:jh:121:GLN:HG3	2:jh:135:TYR:CE2	2.36	0.61
2:ph:25:GLU:OE1	2:ph:55:TRP:HZ3	1.83	0.61
2:vh:121:GLN:HG3	2:vh:135:TYR:CE2	2.36	0.61
2:xh:71:TRP:O	2:xh:91:ARG:NH1	2.30	0.61
3:Dl:33:THR:HB	3:Dl:36:GLN:HG3	1.82	0.61
3:El:58:GLN:HB2	3:El:107:TYR:HE1	1.66	0.61
3:Ll:58:GLN:HB2	3:Ll:107:TYR:HE1	1.66	0.61
3:Ul:58:GLN:HB2	3:Ul:107:TYR:HE1	1.66	0.61
3:ml:58:GLN:HB2	3:ml:107:TYR:HE1	1.66	0.61
3:8l:58:GLN:HB2	3:8l:107:TYR:HE1	1.66	0.61
1:E:454:THR:CG2	2:Eh:138:ASP:CB	2.76	0.61
1:H:585:ARG:HG2	1:H:588:ARG:HB3	1.82	0.61
1:N:584:GLN:NE2	1:z:487:ARG:O	2.34	0.61
1:R:587:ASN:HD22	3:Rl:87:ARG:HH12	1.49	0.61
1:U:584:GLN:NE2	1:q:487:ARG:O	2.33	0.61
1:1:489:SER:H	1:1:495:ASN:ND2	1.90	0.61
1:a:585:ARG:HG2	1:a:588:ARG:HB3	1.82	0.61
1:d:526:HIS:CE1	1:d:561:ASP:OD2	2.53	0.61
1:k:587:ASN:HD22	3:kl:87:ARG:HH12	1.49	0.61
1:o:526:HIS:CE1	1:o:561:ASP:OD2	2.53	0.61
1:p:585:ARG:HG2	1:p:588:ARG:HB3	1.82	0.61
1:r:454:THR:CG2	2:rh:138:ASP:CB	2.77	0.61
1:v:585:ARG:HG2	1:v:588:ARG:HB3	1.82	0.61
1:w:587:ASN:HD22	3:wl:87:ARG:HH12	1.48	0.61
1:y:585:ARG:HG2	1:y:588:ARG:HB3	1.82	0.61
2:Dh:25:GLU:OE1	2:Dh:55:TRP:HZ3	1.83	0.61
2:Kh:71:TRP:O	2:Kh:91:ARG:NH1	2.30	0.61
2:Vh:25:GLU:OE1	2:Vh:55:TRP:HZ3	1.83	0.61
2:Vh:121:GLN:HG3	2:Vh:135:TYR:CE2	2.36	0.61
2:Wh:121:GLN:HG3	2:Wh:135:TYR:CE2	2.36	0.61
2:Xh:57:ARG:CD	2:Xh:113:TYR:OH	2.42	0.61
2:hh:121:GLN:HG3	2:hh:135:TYR:CE2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kh:25:GLU:OE1	2:kh:55:TRP:HZ3	1.83	0.61
2:uh:25:GLU:OE1	2:uh:55:TRP:HZ3	1.83	0.61
3:Dl:58:GLN:HB2	3:Dl:107:TYR:HE1	1.66	0.61
3:Zl:58:GLN:HB2	3:Zl:107:TYR:HE1	1.66	0.61
3:el:33:THR:HB	3:el:36:GLN:HG3	1.82	0.61
1:A:706:LYS:HA	1:V:386:ALA:O	2.00	0.61
1:D:489:SER:H	1:D:495:ASN:ND2	1.90	0.61
1:E:487:ARG:O	1:m:584:GLN:NE2	2.33	0.61
1:G:587:ASN:HD22	3:Gl:87:ARG:HH12	1.48	0.61
1:H:526:HIS:CE1	1:H:561:ASP:OD2	2.53	0.61
1:R:526:HIS:CE1	1:R:561:ASP:OD2	2.53	0.61
1:3:489:SER:H	1:3:495:ASN:ND2	1.90	0.61
1:4:585:ARG:HG2	1:4:588:ARG:HB3	1.82	0.61
1:6:585:ARG:HG2	1:6:588:ARG:HB3	1.82	0.61
1:k:526:HIS:CE1	1:k:561:ASP:OD2	2.53	0.61
1:y:489:SER:H	1:y:495:ASN:ND2	1.90	0.61
1:8:585:ARG:HG2	1:8:588:ARG:HB3	1.82	0.61
2:Ah:88:THR:HG22	2:Ah:101:GLN:HE22	1.38	0.61
2:Hh:121:GLN:HG3	2:Hh:135:TYR:CE2	2.35	0.61
2:jh:25:GLU:OE1	2:jh:55:TRP:HZ3	1.83	0.61
2:oh:25:GLU:OE1	2:oh:55:TRP:HZ3	1.83	0.61
3:El:33:THR:HB	3:El:36:GLN:HG3	1.82	0.61
3:Vl:58:GLN:HB2	3:Vl:107:TYR:HE1	1.65	0.61
3:el:58:GLN:HB2	3:el:107:TYR:HE1	1.66	0.61
3:ql:33:THR:HB	3:ql:36:GLN:HG3	1.82	0.61
1:C:584:GLN:NE2	1:R:487:ARG:O	2.34	0.61
1:F:526:HIS:CE1	1:F:561:ASP:OD2	2.53	0.61
1:G:584:GLN:NE2	1:T:487:ARG:O	2.34	0.61
1:I:487:ARG:O	1:i:584:GLN:NE2	2.34	0.61
1:X:584:GLN:NE2	1:o:487:ARG:O	2.34	0.61
1:Y:526:HIS:CE1	1:Y:561:ASP:OD2	2.53	0.61
1:Z:585:ARG:HG2	1:Z:588:ARG:HB3	1.82	0.61
1:Z:587:ASN:HD22	3:Zl:87:ARG:HH12	1.48	0.61
1:2:585:ARG:HG2	1:2:588:ARG:HB3	1.82	0.61
1:5:457:GLN:CA	2:5h:121:GLN:O	2.46	0.61
1:d:487:ARG:O	1:z:584:GLN:NE2	2.34	0.61
1:i:487:ARG:O	1:v:584:GLN:NE2	2.34	0.61
1:s:526:HIS:CE1	1:s:561:ASP:OD2	2.53	0.61
1:x:489:SER:H	1:x:495:ASN:ND2	1.90	0.61
1:7:526:HIS:CE1	1:7:561:ASP:OD2	2.53	0.61
1:8:587:ASN:HD22	3:8l:87:ARG:HH12	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bh:25:GLU:OE1	2:Bh:55:TRP:HZ3	1.83	0.61
2:Ih:25:GLU:OE1	2:Ih:55:TRP:HZ3	1.83	0.61
2:Mh:121:GLN:HG3	2:Mh:135:TYR:CE2	2.35	0.61
2:3h:50:SER:O	2:3h:51:TYR:CB	2.49	0.61
2:4h:25:GLU:OE1	2:4h:55:TRP:HZ3	1.83	0.61
2:5h:50:SER:O	2:5h:51:TYR:CB	2.49	0.61
2:eh:25:GLU:OE1	2:eh:55:TRP:HZ3	1.83	0.61
2:th:25:GLU:OE1	2:th:55:TRP:HZ3	1.83	0.61
2:yh:121:GLN:HG3	2:yh:135:TYR:CE2	2.35	0.61
3:Kl:33:THR:HB	3:Kl:36:GLN:HG3	1.82	0.61
3:Sl:31:SER:HB3	3:Sl:127:THR:HG1	1.65	0.61
3:Xl:58:GLN:HB2	3:Xl:107:TYR:HE1	1.66	0.61
3:1l:58:GLN:HB2	3:1l:107:TYR:HE1	1.65	0.61
3:il:58:GLN:HB2	3:il:107:TYR:HE1	1.66	0.61
3:ml:33:THR:HB	3:ml:36:GLN:HG3	1.82	0.61
1:A:526:HIS:CE1	1:A:561:ASP:OD2	2.53	0.61
1:J:584:GLN:NE2	1:X:487:ARG:O	2.34	0.61
1:K:526:HIS:CE1	1:K:561:ASP:OD2	2.53	0.61
1:L:587:ASN:HD22	3:Ll:87:ARG:HH12	1.49	0.61
1:P:487:ARG:O	1:W:584:GLN:NE2	2.34	0.61
1:P:587:ASN:HD22	3:Pl:87:ARG:HH12	1.48	0.61
1:a:584:GLN:NE2	1:k:487:ARG:O	2.34	0.61
1:a:587:ASN:HD22	3:al:87:ARG:HH12	1.48	0.61
1:d:587:ASN:HD22	3:dl:87:ARG:HH12	1.48	0.61
1:g:487:ARG:O	1:n:584:GLN:NE2	2.34	0.61
1:n:585:ARG:HG2	1:n:588:ARG:HB3	1.82	0.61
1:t:587:ASN:HD22	3:tl:87:ARG:HH12	1.49	0.61
1:x:526:HIS:CE1	1:x:561:ASP:OD2	2.53	0.61
2:1h:121:GLN:HG3	2:1h:135:TYR:CE2	2.36	0.61
2:bh:50:SER:O	2:bh:51:TYR:CB	2.49	0.61
2:bh:121:GLN:HG3	2:bh:135:TYR:CE2	2.35	0.61
2:wh:121:GLN:HG3	2:wh:135:TYR:CE2	2.36	0.61
3:Ul:33:THR:HB	3:Ul:36:GLN:HG3	1.82	0.61
3:bl:58:GLN:HB2	3:bl:107:TYR:HE1	1.66	0.61
3:ll:58:GLN:HB2	3:ll:107:TYR:HE1	1.66	0.61
3:xl:33:THR:HB	3:xl:36:GLN:HG3	1.82	0.61
1:R:585:ARG:HG2	1:R:588:ARG:HB3	1.82	0.61
1:T:584:GLN:NE2	1:t:487:ARG:O	2.34	0.61
1:U:526:HIS:CE1	1:U:561:ASP:OD2	2.53	0.61
1:W:526:HIS:CE1	1:W:561:ASP:OD2	2.53	0.61
1:Y:585:ARG:HG2	1:Y:588:ARG:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:489:SER:H	1:e:495:ASN:ND2	1.90	0.61
1:h:585:ARG:HG2	1:h:588:ARG:HB3	1.82	0.61
1:k:585:ARG:HG2	1:k:588:ARG:HB3	1.82	0.61
1:p:587:ASN:HD22	3:pl:87:ARG:HH12	1.47	0.61
1:q:526:HIS:CE1	1:q:561:ASP:OD2	2.53	0.61
1:w:489:SER:H	1:w:495:ASN:ND2	1.90	0.61
2:Ch:57:ARG:CD	2:Ch:113:TYR:OH	2.42	0.61
2:Kh:25:GLU:OE1	2:Kh:55:TRP:HZ3	1.83	0.61
2:Lh:25:GLU:OE1	2:Lh:55:TRP:HZ3	1.83	0.61
2:Mh:50:SER:O	2:Mh:51:TYR:CB	2.49	0.61
2:4h:50:SER:O	2:4h:51:TYR:CB	2.49	0.61
2:ah:57:ARG:CD	2:ah:113:TYR:OH	2.42	0.61
2:hh:25:GLU:OE1	2:hh:55:TRP:HZ3	1.83	0.61
3:Gl:58:GLN:HB2	3:Gl:107:TYR:HE1	1.66	0.61
3:Il:58:GLN:HB2	3:Il:107:TYR:HE1	1.65	0.61
3:Ml:58:GLN:HB2	3:Ml:107:TYR:HE1	1.66	0.61
3:Sl:58:GLN:HB2	3:Sl:107:TYR:HE1	1.66	0.61
3:jl:58:GLN:HB2	3:jl:107:TYR:HE1	1.66	0.61
3:pl:31:SER:HB3	3:pl:127:THR:HG1	1.64	0.61
1:C:587:ASN:HD22	3:Cl:87:ARG:HH12	1.48	0.61
1:D:526:HIS:CE1	1:D:561:ASP:OD2	2.53	0.61
1:E:526:HIS:CE1	1:E:561:ASP:OD2	2.53	0.61
1:G:585:ARG:HG2	1:G:588:ARG:HB3	1.82	0.61
1:L:487:ARG:O	1:g:584:GLN:NE2	2.34	0.61
1:N:587:ASN:HD22	3:Nl:87:ARG:HH12	1.48	0.61
1:P:584:GLN:NE2	1:c:487:ARG:O	2.33	0.61
1:6:457:GLN:CA	2:6h:121:GLN:O	2.47	0.61
1:c:587:ASN:HD22	3:cl:87:ARG:HH12	1.48	0.61
1:e:526:HIS:CE1	1:e:561:ASP:OD2	2.53	0.61
1:e:584:GLN:NE2	1:y:487:ARG:O	2.34	0.61
1:f:487:ARG:O	1:u:584:GLN:NE2	2.34	0.61
1:i:526:HIS:CE1	1:i:561:ASP:OD2	2.53	0.61
1:m:526:HIS:CE1	1:m:561:ASP:OD2	2.53	0.61
1:p:526:HIS:CE1	1:p:561:ASP:OD2	2.53	0.61
1:q:584:GLN:NE2	1:x:487:ARG:O	2.34	0.61
1:z:526:HIS:CE1	1:z:561:ASP:OD2	2.53	0.61
1:7:585:ARG:HG2	1:7:588:ARG:HB3	1.82	0.61
2:Ah:121:GLN:HG3	2:Ah:135:TYR:CE2	2.36	0.61
2:Eh:50:SER:O	2:Eh:51:TYR:CB	2.49	0.61
2:Gh:121:GLN:HG3	2:Gh:135:TYR:CE2	2.35	0.61
2:Wh:50:SER:O	2:Wh:51:TYR:CB	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hh:50:SER:O	2:hh:51:TYR:CB	2.49	0.61
2:sh:121:GLN:HG3	2:sh:135:TYR:CE2	2.36	0.61
2:uh:88:THR:HG22	2:uh:101:GLN:HE22	1.38	0.61
2:zh:50:SER:O	2:zh:51:TYR:CB	2.49	0.61
3:3l:58:GLN:HB2	3:3l:107:TYR:HE1	1.65	0.61
3:6l:33:THR:HB	3:6l:36:GLN:HG3	1.82	0.61
3:dl:58:GLN:HB2	3:dl:107:TYR:HE1	1.65	0.61
3:ll:31:SER:HB3	3:ll:127:THR:HG1	1.66	0.61
3:nl:58:GLN:HB2	3:nl:107:TYR:HE1	1.66	0.61
3:wl:58:GLN:HB2	3:wl:107:TYR:HE1	1.66	0.61
1:B:584:GLN:NE2	1:O:487:ARG:O	2.33	0.60
1:E:584:GLN:NE2	1:K:487:ARG:O	2.34	0.60
1:F:487:ARG:O	1:1:584:GLN:NE2	2.34	0.60
1:J:526:HIS:CE1	1:J:561:ASP:OD2	2.53	0.60
1:M:487:ARG:O	1:S:584:GLN:NE2	2.34	0.60
1:T:587:ASN:HD22	3:Tl:87:ARG:HH12	1.48	0.60
1:2:584:GLN:NE2	1:w:487:ARG:O	2.34	0.60
1:3:457:GLN:CA	2:3h:121:GLN:O	2.46	0.60
1:6:454:THR:CG2	2:6h:138:ASP:CB	2.79	0.60
1:b:487:ARG:O	1:l:584:GLN:NE2	2.34	0.60
1:l:587:ASN:HD22	3:ll:87:ARG:HH12	1.49	0.60
1:o:585:ARG:HG2	1:o:588:ARG:HB3	1.82	0.60
2:Fh:121:GLN:HG3	2:Fh:135:TYR:CE2	2.36	0.60
2:Kh:50:SER:O	2:Kh:51:TYR:CB	2.49	0.60
2:ch:121:GLN:HG3	2:ch:135:TYR:CE2	2.36	0.60
2:nh:121:GLN:HG3	2:nh:135:TYR:CE2	2.36	0.60
2:qh:50:SER:O	2:qh:51:TYR:CB	2.49	0.60
2:xh:25:GLU:OE1	2:xh:55:TRP:HZ3	1.83	0.60
2:xh:50:SER:O	2:xh:51:TYR:CB	2.49	0.60
3:Cl:33:THR:HB	3:Cl:36:GLN:HG3	1.82	0.60
3:2l:33:THR:HB	3:2l:36:GLN:HG3	1.82	0.60
3:al:33:THR:HB	3:al:36:GLN:HG3	1.82	0.60
3:ol:58:GLN:HB2	3:ol:107:TYR:HE1	1.66	0.60
1:D:584:GLN:NE2	1:H:487:ARG:O	2.34	0.60
1:K:489:SER:H	1:K:495:ASN:ND2	1.90	0.60
1:N:487:ARG:O	1:d:584:GLN:NE2	2.33	0.60
1:W:587:ASN:HD22	3:Wl:87:ARG:HH12	1.48	0.60
1:X:526:HIS:CE1	1:X:561:ASP:OD2	2.53	0.60
1:Y:487:ARG:O	1:y:584:GLN:NE2	2.33	0.60
1:Z:526:HIS:CE1	1:Z:561:ASP:OD2	2.53	0.60
1:j:587:ASN:HD22	3:jl:87:ARG:HH12	1.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:526:HIS:CE1	1:w:561:ASP:OD2	2.53	0.60
1:8:526:HIS:CE1	1:8:561:ASP:OD2	2.53	0.60
2:Bh:50:SER:O	2:Bh:51:TYR:CB	2.49	0.60
2:Dh:50:SER:O	2:Dh:51:TYR:CB	2.49	0.60
2:Eh:121:GLN:HG3	2:Eh:135:TYR:CE2	2.35	0.60
2:Ih:50:SER:O	2:Ih:51:TYR:CB	2.49	0.60
2:Nh:121:GLN:HG3	2:Nh:135:TYR:CE2	2.36	0.60
2:Oh:121:GLN:HG3	2:Oh:135:TYR:CE2	2.35	0.60
2:3h:121:GLN:HG3	2:3h:135:TYR:CE2	2.36	0.60
2:eh:50:SER:O	2:eh:51:TYR:CB	2.49	0.60
2:ph:121:GLN:HG3	2:ph:135:TYR:CE2	2.36	0.60
3:Al:31:SER:HB3	3:Al:127:THR:HG1	1.64	0.60
3:Il:33:THR:HB	3:Il:36:GLN:HG3	1.82	0.60
3:5l:58:GLN:HB2	3:5l:107:TYR:HE1	1.65	0.60
3:nl:33:THR:HB	3:nl:36:GLN:HG3	1.82	0.60
1:G:526:HIS:CE1	1:G:561:ASP:OD2	2.53	0.60
1:H:584:GLN:NE2	1:7:487:ARG:O	2.33	0.60
1:I:585:ARG:HG2	1:I:588:ARG:HB3	1.82	0.60
1:S:587:ASN:HD22	3:Sl:87:ARG:HH12	1.49	0.60
1:V:587:ASN:HD22	3:Vl:87:ARG:HH12	1.48	0.60
1:1:526:HIS:CE1	1:1:561:ASP:OD2	2.53	0.60
1:1:706:LYS:HA	1:o:386:ALA:O	2.01	0.60
1:2:587:ASN:HD22	3:2l:87:ARG:HH12	1.48	0.60
1:j:526:HIS:CE1	1:j:561:ASP:OD2	2.53	0.60
1:k:584:GLN:NE2	1:8:487:ARG:O	2.33	0.60
1:v:526:HIS:CE1	1:v:561:ASP:OD2	2.53	0.60
2:Kh:121:GLN:HG3	2:Kh:135:TYR:CE2	2.36	0.60
2:Mh:25:GLU:OE1	2:Mh:55:TRP:HZ3	1.83	0.60
2:Uh:25:GLU:OE1	2:Uh:55:TRP:HZ3	1.83	0.60
2:5h:121:GLN:HG3	2:5h:135:TYR:CE2	2.36	0.60
2:bh:25:GLU:OE1	2:bh:55:TRP:HZ3	1.83	0.60
2:dh:50:SER:O	2:dh:51:TYR:CB	2.49	0.60
2:dh:121:GLN:HG3	2:dh:135:TYR:CE2	2.35	0.60
2:fh:121:GLN:HG3	2:fh:135:TYR:CE2	2.36	0.60
2:mh:25:GLU:OE1	2:mh:55:TRP:HZ3	1.83	0.60
2:oh:50:SER:O	2:oh:51:TYR:CB	2.49	0.60
2:qh:121:GLN:HG3	2:qh:135:TYR:CE2	2.35	0.60
2:rh:25:GLU:OE1	2:rh:55:TRP:HZ3	1.83	0.60
2:uh:50:SER:O	2:uh:51:TYR:CB	2.49	0.60
2:8h:50:SER:O	2:8h:51:TYR:CB	2.49	0.60
3:Pl:58:GLN:HB2	3:Pl:107:TYR:HE1	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:yl:33:THR:HB	3:yl:36:GLN:HG3	1.82	0.60
1:K:584:GLN:NE2	1:m:487:ARG:O	2.34	0.60
1:O:584:GLN:NE2	1:V:487:ARG:O	2.34	0.60
1:U:487:ARG:O	1:x:584:GLN:NE2	2.34	0.60
1:1:489:SER:N	1:1:495:ASN:HD21	1.92	0.60
1:5:584:GLN:NE2	1:h:487:ARG:O	2.34	0.60
1:g:587:ASN:HD22	3:gl:87:ARG:HH12	1.48	0.60
1:n:526:HIS:CE1	1:n:561:ASP:OD2	2.53	0.60
1:z:585:ARG:HG2	1:z:588:ARG:HB3	1.82	0.60
1:z:587:ASN:HD22	3:zl:87:ARG:HH12	1.48	0.60
2:Ph:50:SER:O	2:Ph:51:TYR:CB	2.49	0.60
2:Qh:25:GLU:OE1	2:Qh:55:TRP:HZ3	1.83	0.60
2:Zh:50:SER:O	2:Zh:51:TYR:CB	2.49	0.60
2:gh:121:GLN:HG3	2:gh:135:TYR:CE2	2.36	0.60
2:xh:121:GLN:HG3	2:xh:135:TYR:CE2	2.36	0.60
2:7h:121:GLN:HG3	2:7h:135:TYR:CE2	2.36	0.60
3:Hl:33:THR:HB	3:Hl:36:GLN:HG3	1.82	0.60
3:4l:33:THR:HB	3:4l:36:GLN:HG3	1.82	0.60
3:hl:33:THR:HB	3:hl:36:GLN:HG3	1.82	0.60
3:ol:33:THR:HB	3:ol:36:GLN:HG3	1.82	0.60
1:V:526:HIS:CE1	1:V:561:ASP:OD2	2.53	0.60
1:W:585:ARG:HG2	1:W:588:ARG:HB3	1.82	0.60
1:f:584:GLN:NE2	1:j:487:ARG:O	2.34	0.60
1:n:587:ASN:HD22	3:nl:87:ARG:HH12	1.49	0.60
2:Ph:121:GLN:HG3	2:Ph:135:TYR:CE2	2.35	0.60
2:Th:121:GLN:HG3	2:Th:135:TYR:CE2	2.36	0.60
2:2h:50:SER:O	2:2h:51:TYR:CB	2.49	0.60
2:th:121:GLN:HG3	2:th:135:TYR:CE2	2.36	0.60
3:1l:33:THR:HB	3:1l:36:GLN:HG3	1.82	0.60
3:al:58:GLN:HB2	3:al:107:TYR:HE1	1.65	0.60
3:pl:42:CYS:HG	3:pl:109:CYS:HG	1.36	0.60
1:G:489:SER:N	1:G:495:ASN:HD21	1.92	0.60
1:J:487:ARG:O	1:o:584:GLN:NE2	2.34	0.60
1:K:386:ALA:O	1:3:706:LYS:HA	2.02	0.60
1:R:584:GLN:NE2	1:Z:487:ARG:O	2.34	0.60
1:n:489:SER:N	1:n:495:ASN:HD21	1.92	0.60
1:u:587:ASN:HD22	3:ul:87:ARG:HH12	1.49	0.60
2:Eh:25:GLU:OE1	2:Eh:55:TRP:HZ3	1.83	0.60
2:Lh:121:GLN:HG3	2:Lh:135:TYR:CE2	2.36	0.60
2:Qh:121:GLN:HG3	2:Qh:135:TYR:CE2	2.36	0.60
2:Wh:25:GLU:OE1	2:Wh:55:TRP:HZ3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Yh:121:GLN:HG3	2:Yh:135:TYR:CE2	2.36	0.60
2:6h:50:SER:O	2:6h:51:TYR:CB	2.49	0.60
2:mh:50:SER:O	2:mh:51:TYR:CB	2.49	0.60
2:qh:25:GLU:OE1	2:qh:55:TRP:HZ3	1.83	0.60
2:zh:25:GLU:OE1	2:zh:55:TRP:HZ3	1.83	0.60
3:Gl:33:THR:HB	3:Gl:36:GLN:HG3	1.82	0.60
3:Tl:58:GLN:HB2	3:Tl:107:TYR:HE1	1.65	0.60
3:5l:31:SER:HB3	3:5l:127:THR:HG1	1.64	0.60
3:wl:33:THR:HB	3:wl:36:GLN:HG3	1.82	0.60
1:B:587:ASN:HD22	3:Bl:87:ARG:HH12	1.49	0.60
1:I:584:GLN:NE2	1:v:487:ARG:O	2.34	0.60
1:Q:584:GLN:NE2	1:l:487:ARG:O	2.34	0.60
1:2:487:ARG:O	1:s:584:GLN:NE2	2.35	0.60
1:3:584:GLN:NE2	1:4:487:ARG:O	2.34	0.60
1:6:587:ASN:HD22	3:6l:87:ARG:HH12	1.48	0.60
1:u:526:HIS:CE1	1:u:561:ASP:OD2	2.53	0.60
1:x:585:ARG:HG2	1:x:588:ARG:HB3	1.82	0.60
2:Uh:50:SER:O	2:Uh:51:TYR:CB	2.49	0.60
2:Uh:121:GLN:HG3	2:Uh:135:TYR:CE2	2.36	0.60
2:Zh:25:GLU:OE1	2:Zh:55:TRP:HZ3	1.83	0.60
2:rh:121:GLN:HG3	2:rh:135:TYR:CE2	2.36	0.60
3:Cl:58:GLN:HB2	3:Cl:107:TYR:HE1	1.65	0.60
3:Fl:58:GLN:HB2	3:Fl:107:TYR:HE1	1.65	0.60
3:pl:58:GLN:HB2	3:pl:107:TYR:HE1	1.66	0.60
1:M:584:GLN:NE2	1:r:487:ARG:O	2.34	0.60
1:S:487:ARG:O	1:r:584:GLN:NE2	2.34	0.60
1:5:526:HIS:CE1	1:5:561:ASP:OD2	2.53	0.60
1:b:526:HIS:CE1	1:b:561:ASP:OD2	2.53	0.60
1:p:454:THR:CG2	2:ph:138:ASP:CB	2.77	0.60
1:y:526:HIS:CE1	1:y:561:ASP:OD2	2.53	0.60
2:Oh:50:SER:O	2:Oh:51:TYR:CB	2.49	0.60
2:fh:25:GLU:OE1	2:fh:55:TRP:HZ3	1.83	0.60
2:mh:121:GLN:HG3	2:mh:135:TYR:CE2	2.36	0.60
2:rh:57:ARG:CD	2:rh:113:TYR:OH	2.42	0.60
3:Bl:58:GLN:HB2	3:Bl:107:TYR:HE1	1.66	0.60
3:1l:31:SER:HB3	3:1l:127:THR:HG1	1.66	0.60
3:cl:58:GLN:HB2	3:cl:107:TYR:HE1	1.66	0.60
3:gl:58:GLN:HB2	3:gl:107:TYR:HE1	1.65	0.60
1:B:526:HIS:CE1	1:B:561:ASP:OD2	2.53	0.60
1:H:386:ALA:O	1:K:706:LYS:HA	2.02	0.60
1:K:585:ARG:HG2	1:K:588:ARG:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:585:ARG:HG2	1:l:588:ARG:HB3	1.82	0.60
1:w:489:SER:N	1:w:495:ASN:HD21	1.92	0.60
1:x:587:ASN:HD22	3:xl:87:ARG:HH12	1.48	0.60
1:x:706:LYS:HA	1:y:386:ALA:O	2.02	0.60
2:Rh:81:ASP:CA	2:Rh:84:LYS:HE3	2.32	0.60
2:1h:25:GLU:OE1	2:1h:55:TRP:HZ3	1.83	0.60
2:fh:50:SER:O	2:fh:51:TYR:CB	2.49	0.60
2:8h:88:THR:HG22	2:8h:101:GLN:HE22	1.38	0.60
3:Pl:33:THR:HB	3:Pl:36:GLN:HG3	1.82	0.60
3:4l:58:GLN:HB2	3:4l:107:TYR:HE1	1.65	0.60
1:C:487:ARG:O	1:Z:584:GLN:NE2	2.34	0.60
1:C:706:LYS:HA	1:7:386:ALA:O	2.02	0.60
1:M:526:HIS:CE1	1:M:561:ASP:OD2	2.53	0.60
1:O:585:ARG:HG2	1:O:588:ARG:HB3	1.82	0.60
1:Q:487:ARG:O	1:b:584:GLN:NE2	2.34	0.60
1:S:585:ARG:HG2	1:S:588:ARG:HB3	1.82	0.60
1:X:585:ARG:HG2	1:X:588:ARG:HB3	1.82	0.60
1:Y:386:ALA:O	1:a:706:LYS:HA	2.02	0.60
1:f:585:ARG:HG2	1:f:588:ARG:HB3	1.82	0.60
1:t:585:ARG:HG2	1:t:588:ARG:HB3	1.82	0.60
2:Hh:25:GLU:OE1	2:Hh:55:TRP:HZ3	1.83	0.60
2:Oh:25:GLU:OE1	2:Oh:55:TRP:HZ3	1.83	0.60
2:Sh:121:GLN:HG3	2:Sh:135:TYR:CE2	2.36	0.60
2:2h:81:ASP:CA	2:2h:84:LYS:HE3	2.32	0.60
2:6h:81:ASP:CA	2:6h:84:LYS:HE3	2.32	0.60
2:ah:25:GLU:OE1	2:ah:55:TRP:HZ3	1.83	0.60
2:ih:50:SER:O	2:ih:51:TYR:CB	2.49	0.60
2:kh:50:SER:O	2:kh:51:TYR:CB	2.49	0.60
2:8h:25:GLU:OE1	2:8h:55:TRP:HZ3	1.83	0.60
3:Al:58:GLN:HB2	3:Al:107:TYR:HE1	1.66	0.60
3:Rl:33:THR:HB	3:Rl:36:GLN:HG3	1.82	0.60
3:3l:31:SER:HB3	3:3l:127:THR:HG1	1.64	0.60
3:dl:33:THR:HB	3:dl:36:GLN:HG3	1.82	0.60
3:kl:33:THR:HB	3:kl:36:GLN:HG3	1.82	0.60
1:G:706:LYS:HA	1:1:386:ALA:O	2.02	0.59
1:I:386:ALA:O	1:w:706:LYS:HA	2.02	0.59
1:P:585:ARG:HG2	1:P:588:ARG:HB3	1.82	0.59
1:S:526:HIS:CE1	1:S:561:ASP:OD2	2.53	0.59
1:3:526:HIS:CE1	1:3:561:ASP:OD2	2.53	0.59
1:4:526:HIS:CE1	1:4:561:ASP:OD2	2.53	0.59
1:5:706:LYS:HA	1:x:386:ALA:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:526:HIS:CE1	1:h:561:ASP:OD2	2.53	0.59
1:k:386:ALA:O	1:y:706:LYS:HA	2.02	0.59
1:v:587:ASN:HD22	3:vl:87:ARG:HH12	1.49	0.59
2:Fh:25:GLU:OE1	2:Fh:55:TRP:HZ3	1.83	0.59
2:Rh:50:SER:O	2:Rh:51:TYR:CB	2.49	0.59
2:Vh:81:ASP:CA	2:Vh:84:LYS:HE3	2.32	0.59
2:Xh:50:SER:O	2:Xh:51:TYR:CB	2.49	0.59
2:Zh:88:THR:HG22	2:Zh:101:GLN:HE22	1.38	0.59
2:2h:54:GLU:HG2	2:2h:69:VAL:HG23	1.84	0.59
2:6h:54:GLU:HG2	2:6h:69:VAL:HG23	1.84	0.59
2:lh:121:GLN:HG3	2:lh:135:TYR:CE2	2.36	0.59
3:Nl:58:GLN:HB2	3:Nl:107:TYR:HE1	1.66	0.59
3:Rl:58:GLN:HB2	3:Rl:107:TYR:HE1	1.66	0.59
3:fl:58:GLN:HB2	3:fl:107:TYR:HE1	1.66	0.59
3:sl:58:GLN:HB2	3:sl:107:TYR:HE1	1.66	0.59
3:ul:58:GLN:HB2	3:ul:107:TYR:HE1	1.66	0.59
1:B:386:ALA:O	1:P:706:LYS:HA	2.02	0.59
1:F:434:MET:SD	1:F:470:ILE:HD11	2.43	0.59
1:H:706:LYS:HA	1:R:386:ALA:O	2.02	0.59
1:I:587:ASN:HD22	3:Il:87:ARG:HH12	1.48	0.59
1:J:587:ASN:HD22	3:Jl:87:ARG:HH12	1.49	0.59
1:K:587:ASN:HD22	3:Kl:87:ARG:HH12	1.48	0.59
1:L:585:ARG:HG2	1:L:588:ARG:HB3	1.82	0.59
1:Q:386:ALA:O	1:h:706:LYS:HA	2.02	0.59
1:Y:434:MET:SD	1:Y:470:ILE:HD11	2.43	0.59
1:Y:489:SER:H	1:Y:495:ASN:ND2	1.91	0.59
1:2:706:LYS:HA	1:g:386:ALA:O	2.02	0.59
1:4:706:LYS:HA	1:r:386:ALA:O	2.02	0.59
1:a:487:ARG:O	1:8:584:GLN:NE2	2.34	0.59
1:d:706:LYS:HA	1:u:386:ALA:O	2.02	0.59
1:f:434:MET:SD	1:f:470:ILE:HD11	2.43	0.59
1:i:585:ARG:HG2	1:i:588:ARG:HB3	1.82	0.59
1:7:434:MET:SD	1:7:470:ILE:HD11	2.43	0.59
1:7:489:SER:H	1:7:495:ASN:ND2	1.91	0.59
2:Ih:121:GLN:HG3	2:Ih:135:TYR:CE2	2.36	0.59
2:Nh:50:SER:O	2:Nh:51:TYR:CB	2.49	0.59
2:Oh:54:GLU:HG2	2:Oh:69:VAL:HG23	1.84	0.59
2:Qh:57:ARG:CD	2:Qh:113:TYR:OH	2.42	0.59
2:Th:54:GLU:HG2	2:Th:69:VAL:HG23	1.84	0.59
2:gh:54:GLU:HG2	2:gh:69:VAL:HG23	1.85	0.59
2:jh:81:ASP:CA	2:jh:84:LYS:HE3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nh:50:SER:O	2:nh:51:TYR:CB	2.49	0.59
2:oh:121:GLN:HG3	2:oh:135:TYR:CE2	2.36	0.59
2:th:50:SER:O	2:th:51:TYR:CB	2.49	0.59
2:wh:25:GLU:OE1	2:wh:55:TRP:HZ3	1.83	0.59
2:yh:25:GLU:OE1	2:yh:55:TRP:HZ3	1.83	0.59
3:Wl:40:ILE:HD12	3:Wl:40:ILE:N	2.18	0.59
3:hl:58:GLN:HB2	3:hl:107:TYR:HE1	1.65	0.59
3:kl:58:GLN:HB2	3:kl:107:TYR:HE1	1.66	0.59
3:zl:40:ILE:HD12	3:zl:40:ILE:N	2.18	0.59
3:8l:40:ILE:HD12	3:8l:40:ILE:N	2.17	0.59
1:N:526:HIS:CE1	1:N:561:ASP:OD2	2.53	0.59
1:O:434:MET:SD	1:O:470:ILE:HD11	2.43	0.59
1:V:706:LYS:HA	1:c:386:ALA:O	2.02	0.59
1:2:434:MET:SD	1:2:470:ILE:HD11	2.43	0.59
1:5:487:ARG:O	1:p:584:GLN:NE2	2.35	0.59
1:d:585:ARG:HG2	1:d:588:ARG:HB3	1.82	0.59
1:o:587:ASN:HD22	3:ol:87:ARG:HH12	1.48	0.59
1:s:434:MET:SD	1:s:470:ILE:HD11	2.43	0.59
2:Ch:25:GLU:OE1	2:Ch:55:TRP:HZ3	1.83	0.59
2:Gh:50:SER:O	2:Gh:51:TYR:CB	2.49	0.59
2:Lh:50:SER:O	2:Lh:51:TYR:CB	2.49	0.59
2:Qh:50:SER:O	2:Qh:51:TYR:CB	2.49	0.59
2:2h:25:GLU:OE1	2:2h:55:TRP:HZ3	1.83	0.59
2:6h:25:GLU:OE1	2:6h:55:TRP:HZ3	1.83	0.59
2:ch:50:SER:O	2:ch:51:TYR:CB	2.49	0.59
2:nh:25:GLU:OE1	2:nh:55:TRP:HZ3	1.83	0.59
2:vh:25:GLU:OE1	2:vh:55:TRP:HZ3	1.83	0.59
2:vh:50:SER:O	2:vh:51:TYR:CB	2.49	0.59
3:El:40:ILE:HD12	3:El:40:ILE:N	2.18	0.59
3:Jl:58:GLN:HB2	3:Jl:107:TYR:HE1	1.66	0.59
3:Rl:40:ILE:HD12	3:Rl:40:ILE:N	2.18	0.59
3:kl:40:ILE:HD12	3:kl:40:ILE:N	2.18	0.59
3:rl:40:ILE:HD12	3:rl:40:ILE:N	2.18	0.59
1:C:434:MET:SD	1:C:470:ILE:HD11	2.43	0.59
1:N:386:ALA:O	1:j:706:LYS:HA	2.02	0.59
1:Q:706:LYS:HA	1:W:386:ALA:O	2.02	0.59
1:U:237:ASP:OD1	1:U:237:ASP:N	2.34	0.59
1:6:434:MET:SD	1:6:470:ILE:HD11	2.43	0.59
1:l:526:HIS:CE1	1:l:561:ASP:OD2	2.53	0.59
1:r:585:ARG:HG2	1:r:588:ARG:HB3	1.82	0.59
1:r:706:LYS:HA	1:z:386:ALA:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Jh:25:GLU:OE1	2:Jh:55:TRP:HZ3	1.83	0.59
2:Jh:50:SER:O	2:Jh:51:TYR:CB	2.49	0.59
2:Th:50:SER:O	2:Th:51:TYR:CB	2.49	0.59
2:2h:121:GLN:HG3	2:2h:135:TYR:CZ	2.38	0.59
2:6h:121:GLN:HG3	2:6h:135:TYR:CZ	2.38	0.59
2:fh:54:GLU:HG2	2:fh:69:VAL:HG23	1.85	0.59
2:oh:81:ASP:CA	2:oh:84:LYS:HE3	2.32	0.59
2:sh:25:GLU:OE1	2:sh:55:TRP:HZ3	1.83	0.59
2:7h:54:GLU:HG2	2:7h:69:VAL:HG23	1.85	0.59
3:Al:40:ILE:HD12	3:Al:40:ILE:N	2.18	0.59
3:Ol:58:GLN:HB2	3:Ol:107:TYR:HE1	1.66	0.59
3:Ql:40:ILE:HD12	3:Ql:40:ILE:N	2.18	0.59
3:Vl:40:ILE:HD12	3:Vl:40:ILE:N	2.18	0.59
3:Zl:40:ILE:HD12	3:Zl:40:ILE:N	2.18	0.59
3:1l:40:ILE:HD12	3:1l:40:ILE:N	2.18	0.59
3:jl:40:ILE:HD12	3:jl:40:ILE:N	2.18	0.59
3:ql:40:ILE:HD12	3:ql:40:ILE:N	2.18	0.59
3:wl:40:ILE:HD12	3:wl:40:ILE:N	2.18	0.59
1:B:706:LYS:HA	1:Z:386:ALA:O	2.03	0.59
1:F:470:ILE:HG22	1:6:270:ASN:HA	1.84	0.59
1:N:434:MET:SD	1:N:470:ILE:HD11	2.43	0.59
1:O:706:LYS:HA	1:3:386:ALA:O	2.03	0.59
1:R:434:MET:SD	1:R:470:ILE:HD11	2.43	0.59
1:1:434:MET:SD	1:1:470:ILE:HD11	2.43	0.59
1:2:386:ALA:O	1:8:706:LYS:HA	2.03	0.59
1:2:526:HIS:CE1	1:2:561:ASP:OD2	2.53	0.59
1:a:434:MET:SD	1:a:470:ILE:HD11	2.43	0.59
1:c:434:MET:SD	1:c:470:ILE:HD11	2.43	0.59
1:c:526:HIS:CE1	1:c:561:ASP:OD2	2.53	0.59
1:i:587:ASN:HD22	3:il:87:ARG:HH12	1.48	0.59
1:k:434:MET:SD	1:k:470:ILE:HD11	2.43	0.59
1:r:434:MET:SD	1:r:470:ILE:HD11	2.43	0.59
1:u:706:LYS:HA	1:8:386:ALA:O	2.03	0.59
2:Eh:121:GLN:HG3	2:Eh:135:TYR:CZ	2.38	0.59
2:Hh:54:GLU:HG2	2:Hh:69:VAL:HG23	1.85	0.59
2:Ih:81:ASP:CA	2:Ih:84:LYS:HE3	2.32	0.59
2:Yh:54:GLU:HG2	2:Yh:69:VAL:HG23	1.85	0.59
2:gh:50:SER:O	2:gh:51:TYR:CB	2.49	0.59
2:ih:121:GLN:HG3	2:ih:135:TYR:CZ	2.38	0.59
2:oh:121:GLN:HG3	2:oh:135:TYR:CZ	2.38	0.59
2:qh:121:GLN:HG3	2:qh:135:TYR:CZ	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:yh:54:GLU:HG2	2:yh:69:VAL:HG23	1.85	0.59
3:Ql:58:GLN:HB2	3:Ql:107:TYR:HE1	1.65	0.59
3:pl:40:ILE:HD12	3:pl:40:ILE:N	2.18	0.59
3:vl:58:GLN:HB2	3:vl:107:TYR:HE1	1.66	0.59
1:G:434:MET:SD	1:G:470:ILE:HD11	2.43	0.59
1:L:386:ALA:O	1:z:706:LYS:HA	2.03	0.59
1:Q:434:MET:SD	1:Q:470:ILE:HD11	2.43	0.59
1:Q:585:ARG:HG2	1:Q:588:ARG:HB3	1.82	0.59
1:W:706:LYS:HA	1:t:386:ALA:O	2.03	0.59
1:5:386:ALA:O	1:f:706:LYS:HA	2.03	0.59
1:n:434:MET:SD	1:n:470:ILE:HD11	2.43	0.59
1:v:386:ALA:O	1:7:706:LYS:HA	2.03	0.59
1:y:587:ASN:HD22	3:yl:87:ARG:HH12	1.48	0.59
2:Dh:121:GLN:HG3	2:Dh:135:TYR:CZ	2.38	0.59
2:Ih:121:GLN:HG3	2:Ih:135:TYR:CZ	2.38	0.59
2:Jh:121:GLN:HG3	2:Jh:135:TYR:CZ	2.38	0.59
2:Mh:54:GLU:HG2	2:Mh:69:VAL:HG23	1.85	0.59
2:Sh:54:GLU:HG2	2:Sh:69:VAL:HG23	1.85	0.59
2:Xh:121:GLN:HG3	2:Xh:135:TYR:CZ	2.38	0.59
2:3h:121:GLN:HG3	2:3h:135:TYR:CZ	2.38	0.59
2:5h:121:GLN:HG3	2:5h:135:TYR:CZ	2.38	0.59
2:bh:54:GLU:HG2	2:bh:69:VAL:HG23	1.85	0.59
2:jh:121:GLN:HG3	2:jh:135:TYR:CZ	2.38	0.59
2:lh:54:GLU:HG2	2:lh:69:VAL:HG23	1.85	0.59
2:rh:50:SER:O	2:rh:51:TYR:CB	2.49	0.59
2:th:81:ASP:CA	2:th:84:LYS:HE3	2.32	0.59
2:vh:121:GLN:HG3	2:vh:135:TYR:CZ	2.38	0.59
3:Ll:40:ILE:HD12	3:Ll:40:ILE:N	2.18	0.59
3:tl:40:ILE:HD12	3:tl:40:ILE:N	2.18	0.59
1:D:434:MET:SD	1:D:470:ILE:HD11	2.43	0.59
1:E:434:MET:SD	1:E:470:ILE:HD11	2.43	0.59
1:H:587:ASN:HD22	3:Hl:87:ARG:HH12	1.48	0.59
1:J:386:ALA:O	1:Y:706:LYS:HA	2.03	0.59
1:P:386:ALA:O	1:T:706:LYS:HA	2.02	0.59
1:T:434:MET:SD	1:T:470:ILE:HD11	2.43	0.59
1:Y:587:ASN:HD22	3:Yl:87:ARG:HH12	1.48	0.59
1:Z:434:MET:SD	1:Z:470:ILE:HD11	2.43	0.59
1:6:526:HIS:CE1	1:6:561:ASP:OD2	2.53	0.59
1:e:434:MET:SD	1:e:470:ILE:HD11	2.43	0.59
1:m:237:ASP:OD1	1:m:237:ASP:N	2.34	0.59
1:q:434:MET:SD	1:q:470:ILE:HD11	2.43	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:489:SER:N	1:r:495:ASN:HD21	1.92	0.59
1:t:434:MET:SD	1:t:470:ILE:HD11	2.43	0.59
1:w:434:MET:SD	1:w:470:ILE:HD11	2.43	0.59
1:8:434:MET:SD	1:8:470:ILE:HD11	2.43	0.59
2:Ah:50:SER:O	2:Ah:51:TYR:CB	2.49	0.59
2:Bh:121:GLN:HG3	2:Bh:135:TYR:CZ	2.38	0.59
2:Gh:25:GLU:OE1	2:Gh:55:TRP:HZ3	1.83	0.59
2:Hh:50:SER:O	2:Hh:51:TYR:CB	2.49	0.59
2:Jh:54:GLU:HG2	2:Jh:69:VAL:HG23	1.85	0.59
2:Kh:121:GLN:HG3	2:Kh:135:TYR:CZ	2.38	0.59
2:Lh:81:ASP:CA	2:Lh:84:LYS:HE3	2.32	0.59
2:eh:54:GLU:HG2	2:eh:69:VAL:HG23	1.85	0.59
2:eh:121:GLN:HG3	2:eh:135:TYR:CZ	2.38	0.59
2:uh:121:GLN:HG3	2:uh:135:TYR:CZ	2.38	0.59
2:vh:54:GLU:HG2	2:vh:69:VAL:HG23	1.85	0.59
2:xh:121:GLN:HG3	2:xh:135:TYR:CZ	2.38	0.59
3:Bl:40:ILE:HD12	3:Bl:40:ILE:N	2.18	0.59
3:Jl:40:ILE:HD12	3:Jl:40:ILE:N	2.18	0.59
3:Yl:40:ILE:HD12	3:Yl:40:ILE:N	2.18	0.59
3:4l:40:ILE:HD12	3:4l:40:ILE:N	2.18	0.59
3:rl:58:GLN:HB2	3:rl:107:TYR:HE1	1.65	0.59
1:A:489:SER:H	1:A:495:ASN:ND2	1.91	0.59
1:E:386:ALA:O	1:L:706:LYS:HA	2.03	0.59
1:E:706:LYS:HA	1:4:386:ALA:O	2.03	0.59
1:L:434:MET:SD	1:L:470:ILE:HD11	2.43	0.59
1:d:386:ALA:O	1:g:706:LYS:HA	2.02	0.59
1:e:386:ALA:O	1:o:706:LYS:HA	2.02	0.59
1:h:386:ALA:O	1:q:706:LYS:HA	2.03	0.59
1:n:706:LYS:HA	1:w:386:ALA:O	2.03	0.59
1:p:489:SER:H	1:p:495:ASN:ND2	1.90	0.59
1:u:434:MET:SD	1:u:470:ILE:HD11	2.43	0.59
2:Dh:54:GLU:HG2	2:Dh:69:VAL:HG23	1.85	0.59
2:Eh:54:GLU:HG2	2:Eh:69:VAL:HG23	1.85	0.59
2:Qh:54:GLU:HG2	2:Qh:69:VAL:HG23	1.84	0.59
2:Vh:121:GLN:HG3	2:Vh:135:TYR:CZ	2.38	0.59
2:4h:121:GLN:HG3	2:4h:135:TYR:CZ	2.38	0.59
2:ah:54:GLU:HG2	2:ah:69:VAL:HG23	1.85	0.59
2:ch:25:GLU:OE2	2:ch:115:CYS:CB	2.51	0.59
2:gh:121:GLN:HG3	2:gh:135:TYR:CZ	2.38	0.59
2:hh:121:GLN:HG3	2:hh:135:TYR:CZ	2.38	0.59
2:jh:50:SER:O	2:jh:51:TYR:CB	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ph:50:SER:O	2:ph:51:TYR:CB	2.49	0.59
3:Ul:40:ILE:HD12	3:Ul:40:ILE:N	2.18	0.59
3:dl:40:ILE:HD12	3:dl:40:ILE:N	2.18	0.59
3:hl:40:ILE:HD12	3:hl:40:ILE:N	2.18	0.59
3:ul:40:ILE:HD12	3:ul:40:ILE:N	2.18	0.59
3:vl:40:ILE:HD12	3:vl:40:ILE:N	2.18	0.59
3:7l:40:ILE:HD12	3:7l:40:ILE:N	2.18	0.59
1:A:270:ASN:HA	1:4:470:ILE:HG22	1.84	0.59
1:B:434:MET:SD	1:B:470:ILE:HD11	2.43	0.59
1:D:386:ALA:O	1:I:706:LYS:HA	2.02	0.59
1:Q:489:SER:N	1:Q:495:ASN:HD21	1.92	0.59
1:U:434:MET:SD	1:U:470:ILE:HD11	2.43	0.59
1:V:434:MET:SD	1:V:470:ILE:HD11	2.43	0.59
1:Y:587:ASN:CB	3:Yl:87:ARG:HH11	1.92	0.59
1:g:434:MET:SD	1:g:470:ILE:HD11	2.43	0.59
1:h:434:MET:SD	1:h:470:ILE:HD11	2.43	0.59
1:q:386:ALA:O	1:t:706:LYS:HA	2.03	0.59
1:7:587:ASN:HD22	3:7l:87:ARG:HH12	1.48	0.59
2:Ch:54:GLU:HG2	2:Ch:69:VAL:HG23	1.85	0.59
2:Fh:25:GLU:OE2	2:Fh:115:CYS:CB	2.51	0.59
2:Nh:25:GLU:OE2	2:Nh:115:CYS:CB	2.51	0.59
2:Nh:121:GLN:HG3	2:Nh:135:TYR:CZ	2.38	0.59
2:Uh:54:GLU:HG2	2:Uh:69:VAL:HG23	1.85	0.59
2:fh:121:GLN:HG3	2:fh:135:TYR:CZ	2.38	0.59
2:ih:25:GLU:OE2	2:ih:115:CYS:CB	2.51	0.59
2:mh:54:GLU:HG2	2:mh:69:VAL:HG23	1.85	0.59
2:ph:25:GLU:OE2	2:ph:115:CYS:CB	2.51	0.59
2:qh:54:GLU:HG2	2:qh:69:VAL:HG23	1.85	0.59
2:rh:54:GLU:HG2	2:rh:69:VAL:HG23	1.85	0.59
2:sh:25:GLU:OE2	2:sh:115:CYS:CB	2.51	0.59
2:yh:25:GLU:OE2	2:yh:115:CYS:CB	2.51	0.59
2:yh:50:SER:O	2:yh:51:TYR:CB	2.49	0.59
3:Il:40:ILE:HD12	3:Il:40:ILE:N	2.18	0.59
3:Pl:40:ILE:HD12	3:Pl:40:ILE:N	2.18	0.59
3:ml:40:ILE:HD12	3:ml:40:ILE:N	2.18	0.59
1:A:434:MET:SD	1:A:470:ILE:HD11	2.43	0.59
1:F:270:ASN:HA	1:1:470:ILE:HG22	1.85	0.59
1:S:489:SER:H	1:S:495:ASN:ND2	1.90	0.59
1:W:434:MET:SD	1:W:470:ILE:HD11	2.43	0.59
1:3:434:MET:SD	1:3:470:ILE:HD11	2.43	0.59
1:4:434:MET:SD	1:4:470:ILE:HD11	2.43	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:434:MET:SD	1:5:470:ILE:HD11	2.43	0.59
1:a:386:ALA:O	1:s:706:LYS:HA	2.03	0.59
1:j:434:MET:SD	1:j:470:ILE:HD11	2.43	0.59
1:m:434:MET:SD	1:m:470:ILE:HD11	2.43	0.59
1:m:587:ASN:HD22	3:ml:87:ARG:HH12	1.49	0.59
1:p:434:MET:SD	1:p:470:ILE:HD11	2.43	0.59
1:z:434:MET:SD	1:z:470:ILE:HD11	2.43	0.59
1:7:587:ASN:CB	3:7l:87:ARG:HH11	1.92	0.59
2:Hh:25:GLU:OE2	2:Hh:115:CYS:CB	2.51	0.59
2:Ih:25:GLU:OE2	2:Ih:115:CYS:CB	2.51	0.59
2:Jh:25:GLU:OE2	2:Jh:115:CYS:CB	2.51	0.59
2:Oh:121:GLN:HG3	2:Oh:135:TYR:CZ	2.38	0.59
2:Ph:25:GLU:OE2	2:Ph:115:CYS:CB	2.51	0.59
2:Th:121:GLN:HG3	2:Th:135:TYR:CZ	2.38	0.59
2:Wh:121:GLN:HG3	2:Wh:135:TYR:CZ	2.38	0.59
2:Xh:25:GLU:OE2	2:Xh:115:CYS:CB	2.51	0.59
2:Yh:81:ASP:CA	2:Yh:84:LYS:HE3	2.32	0.59
2:1h:54:GLU:HG2	2:1h:69:VAL:HG23	1.84	0.59
2:ah:50:SER:O	2:ah:51:TYR:CB	2.49	0.59
2:dh:121:GLN:HG3	2:dh:135:TYR:CZ	2.38	0.59
2:oh:25:GLU:OE2	2:oh:115:CYS:CB	2.51	0.59
2:ph:54:GLU:HG2	2:ph:69:VAL:HG23	1.84	0.59
2:th:25:GLU:OE2	2:th:115:CYS:CB	2.51	0.59
2:wh:54:GLU:HG2	2:wh:69:VAL:HG23	1.84	0.59
2:7h:81:ASP:CA	2:7h:84:LYS:HE3	2.32	0.59
3:Hl:40:ILE:HD12	3:Hl:40:ILE:N	2.18	0.59
3:yl:40:ILE:HD12	3:yl:40:ILE:N	2.18	0.59
1:C:386:ALA:O	1:F:706:LYS:HA	2.03	0.58
1:P:434:MET:SD	1:P:470:ILE:HD11	2.43	0.58
1:U:587:ASN:HD22	3:Ul:87:ARG:HH12	1.49	0.58
1:X:434:MET:SD	1:X:470:ILE:HD11	2.43	0.58
1:d:434:MET:SD	1:d:470:ILE:HD11	2.43	0.58
1:i:434:MET:SD	1:i:470:ILE:HD11	2.43	0.58
1:l:489:SER:H	1:l:495:ASN:ND2	1.90	0.58
2:Ah:25:GLU:OE2	2:Ah:115:CYS:CB	2.51	0.58
2:Ah:54:GLU:HG2	2:Ah:69:VAL:HG23	1.85	0.58
2:Ah:121:GLN:HG3	2:Ah:135:TYR:CZ	2.38	0.58
2:Fh:54:GLU:HG2	2:Fh:69:VAL:HG23	1.84	0.58
2:Lh:54:GLU:HG2	2:Lh:69:VAL:HG23	1.85	0.58
2:Th:25:GLU:OE2	2:Th:115:CYS:CB	2.51	0.58
2:Vh:50:SER:O	2:Vh:51:TYR:CB	2.49	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zh:54:GLU:HG2	2:Zh:69:VAL:HG23	1.85	0.58
2:ah:121:GLN:HG3	2:ah:135:TYR:CZ	2.38	0.58
2:ch:121:GLN:HG3	2:ch:135:TYR:CZ	2.38	0.58
2:dh:25:GLU:OE2	2:dh:115:CYS:CB	2.51	0.58
2:jh:25:GLU:OE2	2:jh:115:CYS:CB	2.51	0.58
2:ph:121:GLN:HG3	2:ph:135:TYR:CZ	2.38	0.58
2:th:54:GLU:HG2	2:th:69:VAL:HG23	1.85	0.58
2:vh:25:GLU:OE2	2:vh:115:CYS:CB	2.51	0.58
2:zh:121:GLN:HG3	2:zh:135:TYR:CZ	2.38	0.58
2:8h:121:GLN:HG3	2:8h:135:TYR:CZ	2.38	0.58
3:Dl:40:ILE:HD12	3:Dl:40:ILE:N	2.18	0.58
3:Xl:40:ILE:HD12	3:Xl:40:ILE:N	2.18	0.58
3:bl:40:ILE:HD12	3:bl:40:ILE:N	2.18	0.58
3:el:40:ILE:HD12	3:el:40:ILE:N	2.18	0.58
3:ol:40:ILE:N	3:ol:40:ILE:HD12	2.18	0.58
1:H:434:MET:SD	1:H:470:ILE:HD11	2.43	0.58
1:J:434:MET:SD	1:J:470:ILE:HD11	2.43	0.58
1:L:526:HIS:CE1	1:L:561:ASP:OD2	2.53	0.58
1:M:434:MET:SD	1:M:470:ILE:HD11	2.43	0.58
1:l:587:ASN:CB	3:ll:87:ARG:HH11	1.92	0.58
1:v:434:MET:SD	1:v:470:ILE:HD11	2.43	0.58
1:y:434:MET:SD	1:y:470:ILE:HD11	2.43	0.58
2:Ch:50:SER:O	2:Ch:51:TYR:CB	2.49	0.58
2:Ch:88:THR:HG22	2:Ch:101:GLN:HE22	1.38	0.58
2:Ch:121:GLN:HG3	2:Ch:135:TYR:CZ	2.38	0.58
2:Lh:25:GLU:OE2	2:Lh:115:CYS:CB	2.51	0.58
2:Mh:121:GLN:HG3	2:Mh:135:TYR:CZ	2.38	0.58
2:Ph:121:GLN:HG3	2:Ph:135:TYR:CZ	2.38	0.58
2:Qh:121:GLN:HG3	2:Qh:135:TYR:CZ	2.38	0.58
2:Rh:25:GLU:OE2	2:Rh:115:CYS:CB	2.51	0.58
2:Sh:121:GLN:HG3	2:Sh:135:TYR:CZ	2.38	0.58
2:Vh:25:GLU:OE2	2:Vh:115:CYS:CB	2.51	0.58
2:Zh:121:GLN:HG3	2:Zh:135:TYR:CZ	2.38	0.58
2:2h:25:GLU:OE2	2:2h:115:CYS:CB	2.51	0.58
2:6h:25:GLU:OE2	2:6h:115:CYS:CB	2.51	0.58
2:gh:25:GLU:OE1	2:gh:55:TRP:HZ3	1.83	0.58
2:gh:25:GLU:OE2	2:gh:115:CYS:CB	2.51	0.58
2:lh:121:GLN:HG3	2:lh:135:TYR:CZ	2.38	0.58
2:mh:121:GLN:HG3	2:mh:135:TYR:CZ	2.38	0.58
2:rh:121:GLN:HG3	2:rh:135:TYR:CZ	2.38	0.58
2:sh:54:GLU:HG2	2:sh:69:VAL:HG23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:wh:25:GLU:OE2	2:wh:115:CYS:CB	2.51	0.58
2:8h:54:GLU:HG2	2:8h:69:VAL:HG23	1.84	0.58
3:Tl:40:ILE:N	3:Tl:40:ILE:HD12	2.18	0.58
3:fl:40:ILE:HD12	3:fl:40:ILE:N	2.18	0.58
3:il:40:ILE:HD12	3:il:40:ILE:N	2.18	0.58
1:C:489:SER:H	1:C:495:ASN:ND2	1.91	0.58
1:T:489:SER:N	1:T:495:ASN:HD21	1.92	0.58
1:Z:706:LYS:HA	1:6:386:ALA:O	2.04	0.58
1:5:489:SER:N	1:5:495:ASN:HD21	1.92	0.58
1:b:434:MET:SD	1:b:470:ILE:HD11	2.43	0.58
1:t:526:HIS:CE1	1:t:561:ASP:OD2	2.53	0.58
2:Uh:121:GLN:HG3	2:Uh:135:TYR:CZ	2.38	0.58
2:1h:25:GLU:OE2	2:1h:115:CYS:CB	2.51	0.58
2:bh:121:GLN:HG3	2:bh:135:TYR:CZ	2.38	0.58
2:dh:81:ASP:CA	2:dh:84:LYS:HE3	2.32	0.58
2:kh:25:GLU:OE2	2:kh:115:CYS:CB	2.51	0.58
2:lh:50:SER:O	2:lh:51:TYR:CB	2.49	0.58
2:xh:54:GLU:HG2	2:xh:69:VAL:HG23	1.84	0.58
3:Ml:40:ILE:HD12	3:Ml:40:ILE:N	2.18	0.58
3:gl:40:ILE:HD12	3:gl:40:ILE:N	2.18	0.58
3:rl:107:TYR:HE2	3:rl:126:VAL:HG22	1.64	0.58
3:yl:31:SER:HB3	3:yl:127:THR:HG1	1.65	0.58
1:M:386:ALA:O	1:l:706:LYS:HA	2.03	0.58
2:Dh:25:GLU:OE2	2:Dh:115:CYS:CB	2.51	0.58
2:Kh:54:GLU:HG2	2:Kh:69:VAL:HG23	1.84	0.58
2:Oh:25:GLU:OE2	2:Oh:115:CYS:CB	2.51	0.58
2:Yh:121:GLN:HG3	2:Yh:135:TYR:CZ	2.38	0.58
2:3h:54:GLU:HG2	2:3h:69:VAL:HG23	1.84	0.58
2:5h:54:GLU:HG2	2:5h:69:VAL:HG23	1.84	0.58
2:eh:25:GLU:OE2	2:eh:115:CYS:CB	2.51	0.58
2:fh:25:GLU:OE2	2:fh:115:CYS:CB	2.51	0.58
2:th:121:GLN:HG3	2:th:135:TYR:CZ	2.38	0.58
2:7h:121:GLN:HG3	2:7h:135:TYR:CZ	2.38	0.58
3:Fl:40:ILE:HD12	3:Fl:40:ILE:N	2.18	0.58
1:N:706:LYS:HA	1:S:386:ALA:O	2.03	0.58
1:S:706:LYS:HA	1:b:386:ALA:O	2.03	0.58
1:c:706:LYS:HA	1:l:386:ALA:O	2.03	0.58
1:f:386:ALA:O	1:k:706:LYS:HA	2.03	0.58
2:Fh:50:SER:O	2:Fh:51:TYR:CB	2.49	0.58
2:Gh:25:GLU:OE2	2:Gh:115:CYS:CB	2.51	0.58
2:Lh:121:GLN:HG3	2:Lh:135:TYR:CZ	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ph:81:ASP:CA	2:Ph:84:LYS:HE3	2.32	0.58
2:Sh:50:SER:O	2:Sh:51:TYR:CB	2.49	0.58
2:Th:25:GLU:OE1	2:Th:55:TRP:HZ3	1.83	0.58
2:Vh:54:GLU:HG2	2:Vh:69:VAL:HG23	1.85	0.58
2:jh:54:GLU:HG2	2:jh:69:VAL:HG23	1.85	0.58
2:mh:25:GLU:OE2	2:mh:115:CYS:CB	2.51	0.58
2:yh:121:GLN:HG3	2:yh:135:TYR:CZ	2.38	0.58
2:7h:25:GLU:OE2	2:7h:115:CYS:CB	2.51	0.58
3:Ol:40:ILE:HD12	3:Ol:40:ILE:N	2.18	0.58
3:2l:40:ILE:HD12	3:2l:40:ILE:N	2.18	0.58
3:3l:40:ILE:HD12	3:3l:40:ILE:N	2.18	0.58
3:cl:40:ILE:HD12	3:cl:40:ILE:N	2.18	0.58
3:nl:40:ILE:HD12	3:nl:40:ILE:N	2.18	0.58
3:sl:40:ILE:N	3:sl:40:ILE:HD12	2.18	0.58
1:O:386:ALA:O	1:R:706:LYS:HA	2.03	0.58
1:U:386:ALA:O	1:e:706:LYS:HA	2.03	0.58
1:m:706:LYS:HA	1:n:386:ALA:O	2.03	0.58
2:Fh:121:GLN:HG3	2:Fh:135:TYR:CZ	2.38	0.58
2:Hh:121:GLN:HG3	2:Hh:135:TYR:CZ	2.38	0.58
2:Kh:25:GLU:OE2	2:Kh:115:CYS:CB	2.51	0.58
2:Uh:25:GLU:OE2	2:Uh:115:CYS:CB	2.51	0.58
2:Yh:25:GLU:OE2	2:Yh:115:CYS:CB	2.51	0.58
2:Zh:25:GLU:OE2	2:Zh:115:CYS:CB	2.51	0.58
2:1h:121:GLN:HG3	2:1h:135:TYR:CZ	2.38	0.58
2:ch:54:GLU:HG2	2:ch:69:VAL:HG23	1.85	0.58
2:dh:54:GLU:HG2	2:dh:69:VAL:HG23	1.85	0.58
2:nh:25:GLU:OE2	2:nh:115:CYS:CB	2.51	0.58
2:sh:50:SER:O	2:sh:51:TYR:CB	2.49	0.58
2:xh:25:GLU:OE2	2:xh:115:CYS:CB	2.51	0.58
3:Nl:40:ILE:HD12	3:Nl:40:ILE:N	2.18	0.58
3:Sl:40:ILE:HD12	3:Sl:40:ILE:N	2.18	0.58
3:6l:40:ILE:HD12	3:6l:40:ILE:N	2.18	0.58
3:ll:40:ILE:HD12	3:ll:40:ILE:N	2.18	0.58
1:B:489:SER:N	1:B:495:ASN:HD21	1.92	0.58
1:D:706:LYS:HA	1:m:386:ALA:O	2.03	0.58
1:G:386:ALA:O	1:U:706:LYS:HA	2.03	0.58
1:I:489:SER:H	1:I:495:ASN:ND2	1.91	0.58
1:R:614:GLN:N	1:R:614:GLN:OE1	2.37	0.58
1:Y:614:GLN:N	1:Y:614:GLN:OE1	2.37	0.58
1:3:489:SER:N	1:3:495:ASN:HD21	1.92	0.58
1:a:489:SER:H	1:a:495:ASN:ND2	1.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:614:GLN:N	1:k:614:GLN:OE1	2.37	0.58
1:u:489:SER:N	1:u:495:ASN:HD21	1.92	0.58
1:7:614:GLN:N	1:7:614:GLN:OE1	2.37	0.58
2:Gh:121:GLN:HG3	2:Gh:135:TYR:CZ	2.38	0.58
2:Ph:54:GLU:HG2	2:Ph:69:VAL:HG23	1.85	0.58
2:3h:81:ASP:CA	2:3h:84:LYS:HE3	2.32	0.58
2:5h:81:ASP:CA	2:5h:84:LYS:HE3	2.32	0.58
2:nh:121:GLN:HG3	2:nh:135:TYR:CZ	2.38	0.58
2:wh:121:GLN:HG3	2:wh:135:TYR:CZ	2.38	0.58
3:Gl:40:ILE:HD12	3:Gl:40:ILE:N	2.18	0.58
3:5l:40:ILE:N	3:5l:40:ILE:HD12	2.18	0.58
3:al:40:ILE:HD12	3:al:40:ILE:N	2.18	0.58
3:yl:58:GLN:HB2	3:yl:107:TYR:HE1	1.66	0.58
1:F:386:ALA:O	1:X:706:LYS:HA	2.03	0.58
1:F:584:GLN:NE2	1:6:487:ARG:O	2.37	0.58
1:G:614:GLN:N	1:G:614:GLN:OE1	2.37	0.58
1:H:235:MET:HE1	1:H:240:ILE:HG13	1.86	0.58
1:W:614:GLN:N	1:W:614:GLN:OE1	2.37	0.58
1:1:614:GLN:N	1:1:614:GLN:OE1	2.37	0.58
1:2:270:ASN:HA	1:s:470:ILE:HG22	1.85	0.58
1:4:614:GLN:N	1:4:614:GLN:OE1	2.37	0.58
1:b:706:LYS:HA	1:p:386:ALA:O	2.03	0.58
1:h:614:GLN:N	1:h:614:GLN:OE1	2.37	0.58
1:i:614:GLN:N	1:i:614:GLN:OE1	2.37	0.58
1:n:614:GLN:N	1:n:614:GLN:OE1	2.37	0.58
1:w:614:GLN:OE1	1:w:614:GLN:N	2.37	0.58
1:y:235:MET:HE1	1:y:240:ILE:HG13	1.86	0.58
2:Bh:25:GLU:OE2	2:Bh:115:CYS:CB	2.51	0.58
2:Nh:54:GLU:HG2	2:Nh:69:VAL:HG23	1.85	0.58
2:Qh:58:GLN:C	2:Qh:111:ALA:HB1	2.29	0.58
2:Rh:58:GLN:C	2:Rh:111:ALA:HB1	2.29	0.58
2:ah:88:THR:HG22	2:ah:101:GLN:HE22	1.38	0.58
2:ch:81:ASP:CA	2:ch:84:LYS:HE3	2.32	0.58
2:eh:81:ASP:CA	2:eh:84:LYS:HE3	2.32	0.58
2:kh:58:GLN:C	2:kh:111:ALA:HB1	2.29	0.58
2:rh:58:GLN:C	2:rh:111:ALA:HB1	2.29	0.58
2:sh:121:GLN:HG3	2:sh:135:TYR:CZ	2.38	0.58
2:uh:81:ASP:CA	2:uh:84:LYS:HE3	2.32	0.58
2:yh:58:GLN:C	2:yh:111:ALA:HB1	2.29	0.58
2:zh:25:GLU:OE2	2:zh:115:CYS:CB	2.51	0.58
2:8h:25:GLU:OE2	2:8h:115:CYS:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cl:40:ILE:HD12	3:Cl:40:ILE:N	2.18	0.58
3:Hl:58:GLN:HB2	3:Hl:107:TYR:HE1	1.66	0.58
3:Ql:107:TYR:HE2	3:Ql:126:VAL:HG22	1.64	0.58
3:xl:40:ILE:HD12	3:xl:40:ILE:N	2.18	0.58
1:A:454:THR:CG2	2:Ah:138:ASP:CB	2.79	0.58
1:I:614:GLN:N	1:I:614:GLN:OE1	2.37	0.58
1:N:235:MET:HE1	1:N:240:ILE:HG13	1.86	0.58
1:X:235:MET:HE1	1:X:240:ILE:HG13	1.86	0.58
1:i:235:MET:HE1	1:i:240:ILE:HG13	1.86	0.58
1:j:386:ALA:O	1:p:706:LYS:HA	2.03	0.58
1:z:614:GLN:N	1:z:614:GLN:OE1	2.37	0.58
2:Dh:81:ASP:CA	2:Dh:84:LYS:HE3	2.32	0.58
2:Eh:58:GLN:C	2:Eh:111:ALA:HB1	2.29	0.58
2:Mh:25:GLU:OE2	2:Mh:115:CYS:CB	2.51	0.58
2:Nh:81:ASP:CA	2:Nh:84:LYS:HE3	2.32	0.58
2:Wh:25:GLU:OE2	2:Wh:115:CYS:CB	2.51	0.58
2:1h:58:GLN:C	2:1h:111:ALA:HB1	2.29	0.58
2:hh:25:GLU:OE2	2:hh:115:CYS:CB	2.51	0.58
2:ih:54:GLU:HG2	2:ih:69:VAL:HG23	1.85	0.58
2:oh:54:GLU:HG2	2:oh:69:VAL:HG23	1.84	0.58
2:rh:25:GLU:OE2	2:rh:115:CYS:CB	2.51	0.58
2:uh:25:GLU:OE2	2:uh:115:CYS:CB	2.51	0.58
2:vh:58:GLN:C	2:vh:111:ALA:HB1	2.29	0.58
2:wh:58:GLN:C	2:wh:111:ALA:HB1	2.29	0.58
1:B:235:MET:HE1	1:B:240:ILE:HG13	1.86	0.58
1:I:434:MET:SD	1:I:470:ILE:HD11	2.43	0.58
1:K:434:MET:SD	1:K:470:ILE:HD11	2.43	0.58
1:S:434:MET:SD	1:S:470:ILE:HD11	2.43	0.58
1:X:614:GLN:N	1:X:614:GLN:OE1	2.37	0.58
1:c:235:MET:HE1	1:c:240:ILE:HG13	1.86	0.58
1:i:706:LYS:HA	1:s:386:ALA:O	2.03	0.58
1:l:434:MET:SD	1:l:470:ILE:HD11	2.43	0.58
1:o:434:MET:SD	1:o:470:ILE:HD11	2.43	0.58
1:o:614:GLN:N	1:o:614:GLN:OE1	2.37	0.58
2:Bh:81:ASP:CA	2:Bh:84:LYS:HE3	2.32	0.58
2:Hh:58:GLN:C	2:Hh:111:ALA:HB1	2.29	0.58
2:Ih:25:GLU:OE1	2:Ih:115:CYS:HB2	2.04	0.58
2:Ih:54:GLU:HG2	2:Ih:69:VAL:HG23	1.84	0.58
2:Jh:58:GLN:C	2:Jh:111:ALA:HB1	2.29	0.58
2:Kh:58:GLN:C	2:Kh:111:ALA:HB1	2.29	0.58
2:Oh:58:GLN:C	2:Oh:111:ALA:HB1	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qh:25:GLU:OE2	2:Qh:115:CYS:CB	2.51	0.58
2:Xh:54:GLU:HG2	2:Xh:69:VAL:HG23	1.85	0.58
2:Yh:58:GLN:C	2:Yh:111:ALA:HB1	2.29	0.58
2:4h:25:GLU:OE2	2:4h:115:CYS:CB	2.51	0.58
2:bh:25:GLU:OE2	2:bh:115:CYS:CB	2.51	0.58
2:fh:25:GLU:OE1	2:fh:115:CYS:HB2	2.04	0.58
2:fh:58:GLN:C	2:fh:111:ALA:HB1	2.29	0.58
2:hh:25:GLU:OE1	2:hh:115:CYS:HB2	2.04	0.58
2:qh:58:GLN:C	2:qh:111:ALA:HB1	2.29	0.58
2:xh:58:GLN:C	2:xh:111:ALA:HB1	2.29	0.58
2:zh:96:ASN:N	2:zh:96:ASN:HD22	2.02	0.58
2:7h:58:GLN:C	2:7h:111:ALA:HB1	2.29	0.58
3:Kl:40:ILE:HD12	3:Kl:40:ILE:N	2.18	0.58
1:I:235:MET:HE1	1:I:240:ILE:HG13	1.86	0.57
1:J:706:LYS:HA	1:i:386:ALA:O	2.03	0.57
1:X:386:ALA:O	1:v:706:LYS:HA	2.03	0.57
1:3:614:GLN:N	1:3:614:GLN:OE1	2.37	0.57
1:5:614:GLN:N	1:5:614:GLN:OE1	2.37	0.57
1:m:614:GLN:N	1:m:614:GLN:OE1	2.37	0.57
1:o:489:SER:H	1:o:495:ASN:ND2	1.91	0.57
1:s:270:ASN:HA	1:w:470:ILE:HG22	1.86	0.57
1:u:235:MET:HE1	1:u:240:ILE:HG13	1.86	0.57
1:x:434:MET:SD	1:x:470:ILE:HD11	2.43	0.57
2:Ah:58:GLN:C	2:Ah:111:ALA:HB1	2.29	0.57
2:Ch:58:GLN:C	2:Ch:111:ALA:HB1	2.29	0.57
2:Ch:96:ASN:HD22	2:Ch:96:ASN:N	2.02	0.57
2:Gh:96:ASN:HD22	2:Gh:96:ASN:N	2.02	0.57
2:Ih:54:GLU:CG	2:Ih:69:VAL:HG23	2.34	0.57
2:Nh:25:GLU:OE1	2:Nh:115:CYS:HB2	2.04	0.57
2:Oh:25:GLU:OE1	2:Oh:115:CYS:HB2	2.04	0.57
2:Ph:58:GLN:C	2:Ph:111:ALA:HB1	2.29	0.57
2:Rh:54:GLU:HG2	2:Rh:69:VAL:HG23	1.85	0.57
2:Rh:121:GLN:HG3	2:Rh:135:TYR:CZ	2.38	0.57
2:Wh:54:GLU:HG2	2:Wh:69:VAL:HG23	1.85	0.57
2:Wh:96:ASN:HD22	2:Wh:96:ASN:N	2.02	0.57
2:4h:25:GLU:OE1	2:4h:115:CYS:HB2	2.04	0.57
2:4h:58:GLN:C	2:4h:111:ALA:HB1	2.29	0.57
2:ah:25:GLU:OE2	2:ah:115:CYS:CB	2.51	0.57
2:ah:96:ASN:N	2:ah:96:ASN:HD22	2.02	0.57
2:ch:25:GLU:OE1	2:ch:115:CYS:HB2	2.04	0.57
2:dh:58:GLN:C	2:dh:111:ALA:HB1	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fh:96:ASN:HD22	2:fh:96:ASN:N	2.02	0.57
2:gh:81:ASP:CA	2:gh:84:LYS:HE3	2.32	0.57
2:hh:58:GLN:C	2:hh:111:ALA:HB1	2.29	0.57
2:jh:58:GLN:C	2:jh:111:ALA:HB1	2.29	0.57
2:lh:25:GLU:OE2	2:lh:115:CYS:CB	2.51	0.57
2:oh:25:GLU:OE1	2:oh:115:CYS:HB2	2.04	0.57
2:oh:54:GLU:CG	2:oh:69:VAL:HG23	2.34	0.57
2:ph:58:GLN:C	2:ph:111:ALA:HB1	2.29	0.57
2:zh:54:GLU:HG2	2:zh:69:VAL:HG23	1.85	0.57
3:Il:31:SER:HA	3:Il:126:VAL:O	2.04	0.57
3:ul:31:SER:HA	3:ul:126:VAL:O	2.04	0.57
3:zl:31:SER:HA	3:zl:126:VAL:O	2.04	0.57
1:A:457:GLN:CA	2:Ah:121:GLN:O	2.49	0.57
1:A:487:ARG:O	1:4:584:GLN:NE2	2.38	0.57
1:K:614:GLN:N	1:K:614:GLN:OE1	2.37	0.57
1:U:614:GLN:N	1:U:614:GLN:OE1	2.37	0.57
1:4:489:SER:N	1:4:495:ASN:HD21	1.92	0.57
1:6:614:GLN:N	1:6:614:GLN:OE1	2.37	0.57
1:d:489:SER:N	1:d:495:ASN:HD21	1.92	0.57
1:g:235:MET:HE1	1:g:240:ILE:HG13	1.86	0.57
1:x:614:GLN:N	1:x:614:GLN:OE1	2.37	0.57
2:Ch:25:GLU:OE2	2:Ch:115:CYS:CB	2.51	0.57
2:Eh:25:GLU:OE1	2:Eh:115:CYS:HB2	2.04	0.57
2:Eh:54:GLU:CG	2:Eh:69:VAL:HG23	2.35	0.57
2:Fh:54:GLU:CG	2:Fh:69:VAL:HG23	2.35	0.57
2:Hh:55:TRP:CE2	2:Hh:100:LEU:HB2	2.40	0.57
2:Oh:54:GLU:CG	2:Oh:69:VAL:HG23	2.35	0.57
2:Th:81:ASP:CA	2:Th:84:LYS:HE3	2.32	0.57
2:Vh:25:GLU:OE1	2:Vh:115:CYS:HB2	2.04	0.57
2:Yh:54:GLU:CG	2:Yh:69:VAL:HG23	2.35	0.57
2:4h:54:GLU:HG2	2:4h:69:VAL:HG23	1.84	0.57
2:ah:58:GLN:C	2:ah:111:ALA:HB1	2.29	0.57
2:fh:54:GLU:CG	2:fh:69:VAL:HG23	2.35	0.57
2:ih:58:GLN:C	2:ih:111:ALA:HB1	2.29	0.57
2:jh:25:GLU:OE1	2:jh:115:CYS:HB2	2.04	0.57
2:kh:121:GLN:HG3	2:kh:135:TYR:CZ	2.38	0.57
2:nh:81:ASP:CA	2:nh:84:LYS:HE3	2.32	0.57
2:qh:25:GLU:OE1	2:qh:115:CYS:HB2	2.04	0.57
2:qh:25:GLU:OE2	2:qh:115:CYS:CB	2.51	0.57
2:qh:54:GLU:CG	2:qh:69:VAL:HG23	2.35	0.57
2:sh:54:GLU:CG	2:sh:69:VAL:HG23	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:th:25:GLU:OE1	2:th:115:CYS:HB2	2.04	0.57
2:uh:54:GLU:HG2	2:uh:69:VAL:HG23	1.85	0.57
2:wh:50:SER:O	2:wh:51:TYR:CB	2.49	0.57
2:yh:55:TRP:CE2	2:yh:100:LEU:HB2	2.40	0.57
2:7h:54:GLU:CG	2:7h:69:VAL:HG23	2.35	0.57
3:Bl:31:SER:HA	3:Bl:126:VAL:O	2.05	0.57
3:Sl:31:SER:HA	3:Sl:126:VAL:O	2.05	0.57
3:Vl:31:SER:HA	3:Vl:126:VAL:O	2.04	0.57
3:Wl:31:SER:HA	3:Wl:126:VAL:O	2.04	0.57
3:Yl:31:SER:HA	3:Yl:126:VAL:O	2.04	0.57
3:1l:31:SER:HA	3:1l:126:VAL:O	2.04	0.57
3:ll:31:SER:HA	3:ll:126:VAL:O	2.05	0.57
3:ol:31:SER:HA	3:ol:126:VAL:O	2.04	0.57
3:sl:31:SER:HA	3:sl:126:VAL:O	2.04	0.57
3:wl:31:SER:HA	3:wl:126:VAL:O	2.04	0.57
3:7l:31:SER:HA	3:7l:126:VAL:O	2.04	0.57
1:G:235:MET:HE1	1:G:240:ILE:HG13	1.86	0.57
1:J:270:ASN:HA	1:o:470:ILE:HG22	1.86	0.57
1:T:235:MET:HE1	1:T:240:ILE:HG13	1.86	0.57
1:T:614:GLN:N	1:T:614:GLN:OE1	2.37	0.57
1:2:470:ILE:HG22	1:w:270:ASN:HA	1.86	0.57
1:2:614:GLN:N	1:2:614:GLN:OE1	2.37	0.57
1:4:235:MET:HE1	1:4:240:ILE:HG13	1.86	0.57
1:f:489:SER:H	1:f:495:ASN:ND2	1.90	0.57
1:h:235:MET:HE1	1:h:240:ILE:HG13	1.86	0.57
1:n:235:MET:HE1	1:n:240:ILE:HG13	1.86	0.57
1:o:235:MET:HE1	1:o:240:ILE:HG13	1.86	0.57
2:Bh:54:GLU:HG2	2:Bh:69:VAL:HG23	1.85	0.57
2:Dh:96:ASN:N	2:Dh:96:ASN:HD22	2.02	0.57
2:Gh:54:GLU:HG2	2:Gh:69:VAL:HG23	1.85	0.57
2:Gh:81:ASP:CA	2:Gh:84:LYS:HE3	2.32	0.57
2:Lh:25:GLU:OE1	2:Lh:115:CYS:HB2	2.04	0.57
2:Lh:96:ASN:N	2:Lh:96:ASN:HD22	2.02	0.57
2:Mh:96:ASN:N	2:Mh:96:ASN:HD22	2.02	0.57
2:Oh:96:ASN:HD22	2:Oh:96:ASN:N	2.03	0.57
2:Qh:25:GLU:OE1	2:Qh:115:CYS:HB2	2.04	0.57
2:Rh:96:ASN:N	2:Rh:96:ASN:HD22	2.03	0.57
2:Sh:25:GLU:OE2	2:Sh:115:CYS:CB	2.51	0.57
2:Sh:58:GLN:C	2:Sh:111:ALA:HB1	2.29	0.57
2:Uh:54:GLU:CG	2:Uh:69:VAL:HG23	2.35	0.57
2:Vh:58:GLN:C	2:Vh:111:ALA:HB1	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Xh:58:GLN:C	2:Xh:111:ALA:HB1	2.29	0.57
2:1h:50:SER:O	2:1h:51:TYR:CB	2.49	0.57
2:1h:54:GLU:CG	2:1h:69:VAL:HG23	2.35	0.57
2:1h:96:ASN:N	2:1h:96:ASN:HD22	2.03	0.57
2:3h:25:GLU:OE1	2:3h:115:CYS:HB2	2.04	0.57
2:eh:96:ASN:N	2:eh:96:ASN:HD22	2.02	0.57
2:hh:54:GLU:HG2	2:hh:69:VAL:HG23	1.84	0.57
2:ih:55:TRP:CE2	2:ih:100:LEU:HB2	2.40	0.57
2:ih:88:THR:HG22	2:ih:101:GLN:HE22	1.38	0.57
2:lh:58:GLN:C	2:lh:111:ALA:HB1	2.29	0.57
2:mh:54:GLU:CG	2:mh:69:VAL:HG23	2.35	0.57
2:nh:96:ASN:HD22	2:nh:96:ASN:N	2.03	0.57
2:wh:54:GLU:CG	2:wh:69:VAL:HG23	2.35	0.57
2:wh:96:ASN:N	2:wh:96:ASN:HD22	2.03	0.57
2:zh:25:GLU:OE1	2:zh:115:CYS:HB2	2.04	0.57
3:Fl:31:SER:HA	3:Fl:126:VAL:O	2.04	0.57
3:Ml:31:SER:HA	3:Ml:126:VAL:O	2.04	0.57
3:bl:31:SER:HA	3:bl:126:VAL:O	2.04	0.57
3:hl:31:SER:HB3	3:hl:127:THR:HG1	1.70	0.57
3:jl:31:SER:HA	3:jl:126:VAL:O	2.04	0.57
3:wl:31:SER:HB3	3:wl:127:THR:HG1	1.68	0.57
1:B:614:GLN:N	1:B:614:GLN:OE1	2.37	0.57
1:C:235:MET:HE1	1:C:240:ILE:HG13	1.86	0.57
1:C:614:GLN:N	1:C:614:GLN:OE1	2.37	0.57
1:I:470:ILE:HG22	1:v:270:ASN:HA	1.86	0.57
1:J:489:SER:N	1:J:495:ASN:HD21	1.92	0.57
1:K:470:ILE:HG22	1:m:270:ASN:HA	1.87	0.57
1:U:270:ASN:HA	1:x:470:ILE:HG22	1.87	0.57
1:a:235:MET:HE1	1:a:240:ILE:HG13	1.86	0.57
1:a:614:GLN:N	1:a:614:GLN:OE1	2.37	0.57
1:h:489:SER:N	1:h:495:ASN:HD21	1.92	0.57
1:m:587:ASN:HB3	3:ml:87:ARG:NH1	2.20	0.57
1:q:614:GLN:N	1:q:614:GLN:OE1	2.37	0.57
1:8:489:SER:H	1:8:495:ASN:ND2	1.90	0.57
2:Bh:54:GLU:CG	2:Bh:69:VAL:HG23	2.35	0.57
2:Eh:25:GLU:OE2	2:Eh:115:CYS:CB	2.51	0.57
2:Fh:25:GLU:OE1	2:Fh:115:CYS:HB2	2.04	0.57
2:Lh:54:GLU:CG	2:Lh:69:VAL:HG23	2.35	0.57
2:Nh:96:ASN:N	2:Nh:96:ASN:HD22	2.03	0.57
2:Ph:54:GLU:CG	2:Ph:69:VAL:HG23	2.35	0.57
2:Wh:25:GLU:OE1	2:Wh:115:CYS:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Xh:55:TRP:CE2	2:Xh:100:LEU:HB2	2.40	0.57
2:2h:25:GLU:OE1	2:2h:115:CYS:HB2	2.04	0.57
2:5h:25:GLU:OE1	2:5h:115:CYS:HB2	2.04	0.57
2:5h:58:GLN:C	2:5h:111:ALA:HB1	2.29	0.57
2:ah:54:GLU:CG	2:ah:69:VAL:HG23	2.35	0.57
2:bh:54:GLU:CG	2:bh:69:VAL:HG23	2.35	0.57
2:bh:96:ASN:HD22	2:bh:96:ASN:N	2.02	0.57
2:ch:96:ASN:N	2:ch:96:ASN:HD22	2.02	0.57
2:eh:55:TRP:CE2	2:eh:100:LEU:HB2	2.40	0.57
2:kh:54:GLU:HG2	2:kh:69:VAL:HG23	1.85	0.57
2:kh:96:ASN:N	2:kh:96:ASN:HD22	2.03	0.57
2:nh:54:GLU:HG2	2:nh:69:VAL:HG23	1.85	0.57
2:rh:25:GLU:OE1	2:rh:115:CYS:HB2	2.04	0.57
2:uh:96:ASN:N	2:uh:96:ASN:HD22	2.02	0.57
1:E:235:MET:HE1	1:E:240:ILE:HG13	1.86	0.57
1:E:614:GLN:N	1:E:614:GLN:OE1	2.37	0.57
1:K:235:MET:HE1	1:K:240:ILE:HG13	1.86	0.57
1:M:235:MET:HE1	1:M:240:ILE:HG13	1.86	0.57
1:P:489:SER:N	1:P:495:ASN:HD21	1.92	0.57
1:P:614:GLN:N	1:P:614:GLN:OE1	2.37	0.57
1:Q:270:ASN:HA	1:b:470:ILE:HG22	1.86	0.57
1:V:614:GLN:N	1:V:614:GLN:OE1	2.37	0.57
1:X:470:ILE:HG22	1:o:270:ASN:HA	1.86	0.57
1:Z:489:SER:H	1:Z:495:ASN:ND2	1.90	0.57
1:b:235:MET:HE1	1:b:240:ILE:HG13	1.86	0.57
1:e:235:MET:HE1	1:e:240:ILE:HG13	1.86	0.57
1:g:614:GLN:N	1:g:614:GLN:OE1	2.37	0.57
1:q:235:MET:HE1	1:q:240:ILE:HG13	1.86	0.57
1:u:614:GLN:N	1:u:614:GLN:OE1	2.37	0.57
1:x:235:MET:HE1	1:x:240:ILE:HG13	1.86	0.57
2:Ah:55:TRP:CE2	2:Ah:100:LEU:HB2	2.40	0.57
2:Ch:54:GLU:CG	2:Ch:69:VAL:HG23	2.35	0.57
2:Dh:55:TRP:CE2	2:Dh:100:LEU:HB2	2.40	0.57
2:Gh:55:TRP:CE2	2:Gh:100:LEU:HB2	2.40	0.57
2:Mh:54:GLU:CG	2:Mh:69:VAL:HG23	2.35	0.57
2:3h:25:GLU:OE2	2:3h:115:CYS:CB	2.51	0.57
2:3h:58:GLN:C	2:3h:111:ALA:HB1	2.29	0.57
2:6h:25:GLU:OE1	2:6h:115:CYS:HB2	2.04	0.57
2:gh:55:TRP:CE2	2:gh:100:LEU:HB2	2.40	0.57
2:gh:58:GLN:C	2:gh:111:ALA:HB1	2.29	0.57
2:qh:55:TRP:CE2	2:qh:100:LEU:HB2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:sh:25:GLU:OE1	2:sh:115:CYS:HB2	2.04	0.57
2:th:54:GLU:CG	2:th:69:VAL:HG23	2.35	0.57
2:th:96:ASN:N	2:th:96:ASN:HD22	2.03	0.57
2:uh:54:GLU:CG	2:uh:69:VAL:HG23	2.35	0.57
1:A:386:ALA:O	1:M:706:LYS:HA	2.04	0.57
1:H:614:GLN:N	1:H:614:GLN:OE1	2.37	0.57
1:I:270:ASN:HA	1:i:470:ILE:HG22	1.86	0.57
1:M:470:ILE:HG22	1:r:270:ASN:HA	1.86	0.57
1:O:489:SER:H	1:O:495:ASN:ND2	1.90	0.57
1:P:235:MET:HE1	1:P:240:ILE:HG13	1.86	0.57
1:P:270:ASN:HA	1:W:470:ILE:HG22	1.87	0.57
1:R:235:MET:HE1	1:R:240:ILE:HG13	1.86	0.57
1:S:614:GLN:N	1:S:614:GLN:OE1	2.37	0.57
1:U:587:ASN:HB3	3:Ul:87:ARG:NH1	2.20	0.57
1:W:235:MET:HE1	1:W:240:ILE:HG13	1.86	0.57
1:d:235:MET:HE1	1:d:240:ILE:HG13	1.86	0.57
1:d:614:GLN:N	1:d:614:GLN:OE1	2.37	0.57
1:i:587:ASN:HB3	3:il:87:ARG:NH1	2.20	0.57
1:j:614:GLN:N	1:j:614:GLN:OE1	2.37	0.57
1:l:614:GLN:N	1:l:614:GLN:OE1	2.37	0.57
1:v:489:SER:N	1:v:495:ASN:HD21	1.92	0.57
1:y:614:GLN:N	1:y:614:GLN:OE1	2.37	0.57
1:z:235:MET:HE1	1:z:240:ILE:HG13	1.86	0.57
2:Ah:25:GLU:OE1	2:Ah:115:CYS:HB2	2.04	0.57
2:Eh:55:TRP:CE2	2:Eh:100:LEU:HB2	2.40	0.57
2:Jh:96:ASN:N	2:Jh:96:ASN:HD22	2.02	0.57
2:Kh:55:TRP:CE2	2:Kh:100:LEU:HB2	2.40	0.57
2:Th:55:TRP:CE2	2:Th:100:LEU:HB2	2.40	0.57
2:Xh:96:ASN:N	2:Xh:96:ASN:HD22	2.02	0.57
2:2h:54:GLU:CG	2:2h:69:VAL:HG23	2.35	0.57
2:5h:25:GLU:OE2	2:5h:115:CYS:CB	2.51	0.57
2:6h:54:GLU:CG	2:6h:69:VAL:HG23	2.35	0.57
2:ch:54:GLU:CG	2:ch:69:VAL:HG23	2.35	0.57
2:ch:55:TRP:CE2	2:ch:100:LEU:HB2	2.40	0.57
2:dh:54:GLU:CG	2:dh:69:VAL:HG23	2.35	0.57
2:dh:96:ASN:N	2:dh:96:ASN:HD22	2.02	0.57
2:eh:25:GLU:OE1	2:eh:115:CYS:HB2	2.04	0.57
2:ih:96:ASN:N	2:ih:96:ASN:HD22	2.02	0.57
2:nh:55:TRP:CE2	2:nh:100:LEU:HB2	2.40	0.57
2:ph:55:TRP:CE2	2:ph:100:LEU:HB2	2.40	0.57
2:rh:81:ASP:CA	2:rh:84:LYS:HE3	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:sh:96:ASN:N	2:sh:96:ASN:HD22	2.03	0.57
2:vh:96:ASN:N	2:vh:96:ASN:HD22	2.02	0.57
2:xh:55:TRP:CE2	2:xh:100:LEU:HB2	2.40	0.57
3:Hl:31:SER:HA	3:Hl:126:VAL:O	2.04	0.57
3:Ul:31:SER:HA	3:Ul:126:VAL:O	2.05	0.57
3:ml:31:SER:HA	3:ml:126:VAL:O	2.05	0.57
1:A:699:GLN:HE21	1:O:301:ASN:HD22	1.53	0.57
1:D:235:MET:HE1	1:D:240:ILE:HG13	1.86	0.57
1:S:270:ASN:HA	1:r:470:ILE:HG22	1.86	0.57
1:X:587:ASN:HB3	3:Xl:87:ARG:NH1	2.20	0.57
1:Y:235:MET:HE1	1:Y:240:ILE:HG13	1.86	0.57
1:3:235:MET:HE1	1:3:240:ILE:HG13	1.86	0.57
1:5:470:ILE:HG22	1:h:270:ASN:HA	1.86	0.57
1:d:270:ASN:HA	1:z:470:ILE:HG22	1.87	0.57
1:k:235:MET:HE1	1:k:240:ILE:HG13	1.86	0.57
1:7:235:MET:HE1	1:7:240:ILE:HG13	1.86	0.57
2:Bh:96:ASN:N	2:Bh:96:ASN:HD22	2.03	0.57
2:Dh:25:GLU:OE1	2:Dh:115:CYS:HB2	2.04	0.57
2:Fh:96:ASN:N	2:Fh:96:ASN:HD22	2.03	0.57
2:Jh:25:GLU:OE1	2:Jh:115:CYS:HB2	2.04	0.57
2:Jh:55:TRP:CE2	2:Jh:100:LEU:HB2	2.40	0.57
2:Nh:54:GLU:CG	2:Nh:69:VAL:HG23	2.35	0.57
2:Nh:55:TRP:CE2	2:Nh:100:LEU:HB2	2.40	0.57
2:Nh:58:GLN:C	2:Nh:111:ALA:HB1	2.29	0.57
2:Sh:25:GLU:OE1	2:Sh:115:CYS:HB2	2.04	0.57
2:Th:58:GLN:C	2:Th:111:ALA:HB1	2.29	0.57
2:Vh:55:TRP:CE2	2:Vh:100:LEU:HB2	2.40	0.57
2:Zh:25:GLU:OE1	2:Zh:115:CYS:HB2	2.04	0.57
2:1h:55:TRP:CE2	2:1h:100:LEU:HB2	2.40	0.57
2:2h:55:TRP:CE2	2:2h:100:LEU:HB2	2.40	0.57
2:6h:55:TRP:CE2	2:6h:100:LEU:HB2	2.40	0.57
2:eh:58:GLN:C	2:eh:111:ALA:HB1	2.29	0.57
2:jh:55:TRP:CE2	2:jh:100:LEU:HB2	2.40	0.57
2:oh:96:ASN:N	2:oh:96:ASN:HD22	2.02	0.57
2:ph:25:GLU:OE1	2:ph:115:CYS:HB2	2.04	0.57
2:vh:25:GLU:OE1	2:vh:115:CYS:HB2	2.04	0.57
2:vh:55:TRP:CE2	2:vh:100:LEU:HB2	2.40	0.57
2:wh:55:TRP:CE2	2:wh:100:LEU:HB2	2.40	0.57
2:xh:96:ASN:N	2:xh:96:ASN:HD22	2.02	0.57
2:8h:25:GLU:OE1	2:8h:115:CYS:HB2	2.04	0.57
3:Gl:31:SER:HA	3:Gl:126:VAL:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Tl:31:SER:HA	3:Tl:126:VAL:O	2.04	0.57
3:Xl:31:SER:HA	3:Xl:126:VAL:O	2.05	0.57
3:il:31:SER:HA	3:il:126:VAL:O	2.05	0.57
3:nl:31:SER:HA	3:nl:126:VAL:O	2.04	0.57
3:yl:31:SER:HA	3:yl:126:VAL:O	2.04	0.57
1:E:270:ASN:HA	1:m:470:ILE:HG22	1.87	0.57
1:J:489:SER:H	1:J:495:ASN:ND2	1.90	0.57
1:Q:470:ILE:HG22	1:l:270:ASN:HA	1.86	0.57
1:Q:614:GLN:N	1:Q:614:GLN:OE1	2.37	0.57
1:5:235:MET:HE1	1:5:240:ILE:HG13	1.86	0.57
1:5:270:ASN:HA	1:p:470:ILE:HG22	1.85	0.57
1:c:587:ASN:HB3	3:cl:87:ARG:NH1	2.19	0.57
1:j:470:ILE:HG22	1:u:270:ASN:HA	1.87	0.57
2:Bh:58:GLN:C	2:Bh:111:ALA:HB1	2.29	0.57
2:Dh:58:GLN:C	2:Dh:111:ALA:HB1	2.29	0.57
2:Kh:96:ASN:HD22	2:Kh:96:ASN:N	2.02	0.57
2:Ph:96:ASN:N	2:Ph:96:ASN:HD22	2.03	0.57
2:Qh:81:ASP:CA	2:Qh:84:LYS:HE3	2.32	0.57
2:Th:54:GLU:CG	2:Th:69:VAL:HG23	2.34	0.57
2:Zh:58:GLN:C	2:Zh:111:ALA:HB1	2.29	0.57
2:6h:58:GLN:C	2:6h:111:ALA:HB1	2.29	0.57
2:ch:58:GLN:C	2:ch:111:ALA:HB1	2.29	0.57
2:eh:54:GLU:CG	2:eh:69:VAL:HG23	2.35	0.57
2:lh:25:GLU:OE1	2:lh:115:CYS:HB2	2.04	0.57
2:uh:58:GLN:C	2:uh:111:ALA:HB1	2.29	0.57
2:7h:25:GLU:OE1	2:7h:115:CYS:HB2	2.04	0.57
3:El:31:SER:HA	3:El:126:VAL:O	2.04	0.57
3:Kl:31:SER:HA	3:Kl:126:VAL:O	2.05	0.57
3:Ll:31:SER:HA	3:Ll:126:VAL:O	2.04	0.57
3:Pl:31:SER:HA	3:Pl:126:VAL:O	2.04	0.57
3:xl:31:SER:HA	3:xl:126:VAL:O	2.04	0.57
1:A:614:GLN:N	1:A:614:GLN:OE1	2.37	0.57
1:B:270:ASN:HA	1:V:470:ILE:HG22	1.87	0.57
1:N:587:ASN:HB3	3:Nl:87:ARG:NH1	2.19	0.57
1:P:470:ILE:HG22	1:c:270:ASN:HA	1.87	0.57
1:U:470:ILE:HG22	1:q:270:ASN:HA	1.87	0.57
1:2:587:ASN:HB3	3:2l:87:ARG:NH1	2.20	0.57
1:4:587:ASN:HB3	3:4l:87:ARG:NH1	2.20	0.57
1:r:614:GLN:N	1:r:614:GLN:OE1	2.37	0.57
2:Ah:54:GLU:CG	2:Ah:69:VAL:HG23	2.35	0.57
2:Dh:54:GLU:CG	2:Dh:69:VAL:HG23	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gh:58:GLN:C	2:Gh:111:ALA:HB1	2.29	0.57
2:Hh:54:GLU:CG	2:Hh:69:VAL:HG23	2.35	0.57
2:Qh:54:GLU:CG	2:Qh:69:VAL:HG23	2.34	0.57
2:Qh:96:ASN:N	2:Qh:96:ASN:HD22	2.02	0.57
2:Uh:58:GLN:C	2:Uh:111:ALA:HB1	2.29	0.57
2:Yh:25:GLU:OE1	2:Yh:115:CYS:HB2	2.04	0.57
2:Zh:54:GLU:CG	2:Zh:69:VAL:HG23	2.35	0.57
2:2h:58:GLN:C	2:2h:111:ALA:HB1	2.29	0.57
2:4h:54:GLU:CG	2:4h:69:VAL:HG23	2.35	0.57
2:5h:54:GLU:CG	2:5h:69:VAL:HG23	2.35	0.57
2:gh:54:GLU:CG	2:gh:69:VAL:HG23	2.35	0.57
2:qh:81:ASP:CA	2:qh:84:LYS:HE3	2.32	0.57
2:rh:88:THR:HG22	2:rh:101:GLN:HE22	1.38	0.57
2:sh:55:TRP:CE2	2:sh:100:LEU:HB2	2.40	0.57
2:yh:54:GLU:CG	2:yh:69:VAL:HG23	2.35	0.57
2:zh:58:GLN:C	2:zh:111:ALA:HB1	2.29	0.57
2:8h:58:GLN:C	2:8h:111:ALA:HB1	2.29	0.57
3:gl:31:SER:HA	3:gl:126:VAL:O	2.04	0.57
3:ql:31:SER:HA	3:ql:126:VAL:O	2.04	0.57
3:tl:31:SER:HA	3:tl:126:VAL:O	2.05	0.57
1:L:235:MET:HE1	1:L:240:ILE:HG13	1.86	0.57
1:O:235:MET:HE1	1:O:240:ILE:HG13	1.86	0.57
1:V:235:MET:HE1	1:V:240:ILE:HG13	1.86	0.57
1:3:470:ILE:HG22	1:4:270:ASN:HA	1.87	0.57
1:h:587:ASN:HB3	3:hl:87:ARG:NH1	2.20	0.57
1:j:235:MET:HE1	1:j:240:ILE:HG13	1.86	0.57
1:p:614:GLN:N	1:p:614:GLN:OE1	2.37	0.57
1:8:235:MET:HE1	1:8:240:ILE:HG13	1.86	0.57
2:Fh:55:TRP:CE2	2:Fh:100:LEU:HB2	2.40	0.57
2:Mh:25:GLU:OE1	2:Mh:115:CYS:HB2	2.04	0.57
2:Qh:102:MET:CB	2:Qh:105:LEU:HD11	2.35	0.57
2:Sh:55:TRP:CE2	2:Sh:100:LEU:HB2	2.40	0.57
2:Vh:96:ASN:N	2:Vh:96:ASN:HD22	2.02	0.57
2:3h:54:GLU:CG	2:3h:69:VAL:HG23	2.35	0.57
2:4h:55:TRP:CE2	2:4h:100:LEU:HB2	2.40	0.57
2:jh:96:ASN:HD22	2:jh:96:ASN:N	2.03	0.57
2:lh:55:TRP:CE2	2:lh:100:LEU:HB2	2.40	0.57
2:mh:58:GLN:C	2:mh:111:ALA:HB1	2.29	0.57
2:nh:58:GLN:C	2:nh:111:ALA:HB1	2.29	0.57
2:ph:54:GLU:CG	2:ph:69:VAL:HG23	2.35	0.57
2:rh:54:GLU:CG	2:rh:69:VAL:HG23	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:rh:96:ASN:HD22	2:rh:96:ASN:N	2.02	0.57
2:rh:102:MET:CB	2:rh:105:LEU:HD11	2.35	0.57
2:zh:55:TRP:CE2	2:zh:100:LEU:HB2	2.40	0.57
2:7h:96:ASN:N	2:7h:96:ASN:HD22	2.02	0.57
2:8h:54:GLU:CG	2:8h:69:VAL:HG23	2.35	0.57
3:6l:31:SER:HA	3:6l:126:VAL:O	2.04	0.57
3:dl:31:SER:HA	3:dl:126:VAL:O	2.05	0.57
1:N:270:ASN:HA	1:d:470:ILE:HG22	1.87	0.56
1:S:235:MET:HE1	1:S:240:ILE:HG13	1.86	0.56
1:U:235:MET:HE1	1:U:240:ILE:HG13	1.86	0.56
1:Z:235:MET:HE1	1:Z:240:ILE:HG13	1.86	0.56
1:m:235:MET:HE1	1:m:240:ILE:HG13	1.86	0.56
1:s:489:SER:H	1:s:495:ASN:ND2	1.90	0.56
1:t:235:MET:HE1	1:t:240:ILE:HG13	1.86	0.56
2:Fh:58:GLN:C	2:Fh:111:ALA:HB1	2.29	0.56
2:Hh:25:GLU:OE1	2:Hh:115:CYS:HB2	2.04	0.56
2:Hh:96:ASN:N	2:Hh:96:ASN:HD22	2.03	0.56
2:Ih:55:TRP:CE2	2:Ih:100:LEU:HB2	2.40	0.56
2:Lh:58:GLN:C	2:Lh:111:ALA:HB1	2.29	0.56
2:Oh:55:TRP:CE2	2:Oh:100:LEU:HB2	2.40	0.56
2:Th:25:GLU:OE1	2:Th:115:CYS:HB2	2.04	0.56
2:Xh:54:GLU:CG	2:Xh:69:VAL:HG23	2.35	0.56
2:Xh:88:THR:HG22	2:Xh:101:GLN:HE22	1.38	0.56
2:Yh:96:ASN:N	2:Yh:96:ASN:HD22	2.02	0.56
2:bh:25:GLU:OE1	2:bh:115:CYS:HB2	2.04	0.56
2:hh:54:GLU:CG	2:hh:69:VAL:HG23	2.35	0.56
2:oh:55:TRP:CE2	2:oh:100:LEU:HB2	2.40	0.56
2:oh:102:MET:CB	2:oh:105:LEU:HD11	2.35	0.56
2:rh:55:TRP:CE2	2:rh:100:LEU:HB2	2.40	0.56
2:sh:58:GLN:C	2:sh:111:ALA:HB1	2.29	0.56
2:sh:81:ASP:CA	2:sh:84:LYS:HE3	2.32	0.56
2:th:58:GLN:C	2:th:111:ALA:HB1	2.29	0.56
2:yh:96:ASN:HD22	2:yh:96:ASN:N	2.03	0.56
3:Rl:31:SER:HA	3:Rl:126:VAL:O	2.05	0.56
3:2l:31:SER:HA	3:2l:126:VAL:O	2.04	0.56
3:kl:31:SER:HA	3:kl:126:VAL:O	2.05	0.56
3:pl:31:SER:HA	3:pl:126:VAL:O	2.04	0.56
1:L:614:GLN:N	1:L:614:GLN:OE1	2.37	0.56
1:6:235:MET:HE1	1:6:240:ILE:HG13	1.86	0.56
1:f:235:MET:HE1	1:f:240:ILE:HG13	1.86	0.56
1:h:470:ILE:HG22	1:p:270:ASN:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bh:102:MET:CB	2:Bh:105:LEU:HD11	2.35	0.56
2:Eh:81:ASP:CA	2:Eh:84:LYS:HE3	2.32	0.56
2:Eh:96:ASN:N	2:Eh:96:ASN:HD22	2.02	0.56
2:Ih:102:MET:CB	2:Ih:105:LEU:HD11	2.35	0.56
2:Ph:25:GLU:OE1	2:Ph:115:CYS:HB2	2.04	0.56
2:Sh:102:MET:CB	2:Sh:105:LEU:HD11	2.35	0.56
2:Vh:54:GLU:CG	2:Vh:69:VAL:HG23	2.35	0.56
2:Wh:55:TRP:CE2	2:Wh:100:LEU:HB2	2.40	0.56
2:Yh:50:SER:O	2:Yh:51:TYR:CB	2.49	0.56
2:5h:96:ASN:N	2:5h:96:ASN:HD22	2.03	0.56
2:bh:102:MET:CB	2:bh:105:LEU:HD11	2.35	0.56
2:dh:25:GLU:OE1	2:dh:115:CYS:HB2	2.04	0.56
2:hh:55:TRP:CE2	2:hh:100:LEU:HB2	2.40	0.56
2:ih:54:GLU:CG	2:ih:69:VAL:HG23	2.35	0.56
2:uh:25:GLU:OE1	2:uh:115:CYS:HB2	2.04	0.56
2:yh:25:GLU:OE1	2:yh:115:CYS:HB2	2.04	0.56
2:7h:50:SER:O	2:7h:51:TYR:CB	2.49	0.56
3:Ql:31:SER:HA	3:Ql:126:VAL:O	2.04	0.56
3:3l:31:SER:HA	3:3l:126:VAL:O	2.04	0.56
1:C:470:ILE:HG22	1:R:270:ASN:HA	1.87	0.56
1:D:614:GLN:N	1:D:614:GLN:OE1	2.37	0.56
1:E:470:ILE:HG22	1:K:270:ASN:HA	1.86	0.56
1:F:489:SER:H	1:F:495:ASN:ND2	1.91	0.56
1:G:270:ASN:HA	1:t:470:ILE:HG22	1.87	0.56
1:L:270:ASN:HA	1:g:470:ILE:HG22	1.87	0.56
1:N:614:GLN:N	1:N:614:GLN:OE1	2.37	0.56
1:T:470:ILE:HG22	1:t:270:ASN:HA	1.87	0.56
1:V:489:SER:H	1:V:495:ASN:ND2	1.91	0.56
1:W:489:SER:N	1:W:495:ASN:HD21	1.92	0.56
1:Z:614:GLN:N	1:Z:614:GLN:OE1	2.37	0.56
1:1:235:MET:HE1	1:1:240:ILE:HG13	1.86	0.56
1:2:235:MET:HE1	1:2:240:ILE:HG13	1.86	0.56
1:a:270:ASN:HA	1:8:470:ILE:HG22	1.86	0.56
1:e:614:GLN:N	1:e:614:GLN:OE1	2.37	0.56
1:l:235:MET:HE1	1:l:240:ILE:HG13	1.86	0.56
1:q:470:ILE:HG22	1:x:270:ASN:HA	1.86	0.56
1:t:614:GLN:N	1:t:614:GLN:OE1	2.37	0.56
1:v:489:SER:H	1:v:495:ASN:ND2	1.90	0.56
1:w:235:MET:HE1	1:w:240:ILE:HG13	1.86	0.56
2:Bh:25:GLU:OE1	2:Bh:115:CYS:HB2	2.04	0.56
2:Ch:25:GLU:OE1	2:Ch:115:CYS:HB2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:55:TRP:CE2	2:Ch:100:LEU:HB2	2.40	0.56
2:Dh:102:MET:CB	2:Dh:105:LEU:HD11	2.36	0.56
2:Fh:102:MET:CB	2:Fh:105:LEU:HD11	2.35	0.56
2:Hh:102:MET:CB	2:Hh:105:LEU:HD11	2.36	0.56
2:Jh:54:GLU:CG	2:Jh:69:VAL:HG23	2.35	0.56
2:Kh:54:GLU:CG	2:Kh:69:VAL:HG23	2.34	0.56
2:Mh:55:TRP:CE2	2:Mh:100:LEU:HB2	2.40	0.56
2:Mh:102:MET:CB	2:Mh:105:LEU:HD11	2.35	0.56
2:Qh:55:TRP:CE2	2:Qh:100:LEU:HB2	2.40	0.56
2:Sh:96:ASN:HD22	2:Sh:96:ASN:N	2.02	0.56
2:Wh:54:GLU:CG	2:Wh:69:VAL:HG23	2.35	0.56
2:Wh:58:GLN:C	2:Wh:111:ALA:HB1	2.29	0.56
2:Yh:102:MET:CB	2:Yh:105:LEU:HD11	2.36	0.56
2:Zh:55:TRP:CE2	2:Zh:100:LEU:HB2	2.40	0.56
2:1h:102:MET:CB	2:1h:105:LEU:HD11	2.35	0.56
2:3h:55:TRP:CE2	2:3h:100:LEU:HB2	2.40	0.56
2:3h:96:ASN:N	2:3h:96:ASN:HD22	2.03	0.56
2:4h:81:ASP:CA	2:4h:84:LYS:HE3	2.32	0.56
2:4h:96:ASN:HD22	2:4h:96:ASN:N	2.03	0.56
2:5h:55:TRP:CE2	2:5h:100:LEU:HB2	2.40	0.56
2:ah:25:GLU:OE1	2:ah:115:CYS:HB2	2.04	0.56
2:ah:55:TRP:CE2	2:ah:100:LEU:HB2	2.40	0.56
2:bh:55:TRP:CE2	2:bh:100:LEU:HB2	2.40	0.56
2:eh:102:MET:CB	2:eh:105:LEU:HD11	2.36	0.56
2:fh:55:TRP:CE2	2:fh:100:LEU:HB2	2.40	0.56
2:gh:25:GLU:OE1	2:gh:115:CYS:HB2	2.04	0.56
2:jh:54:GLU:CG	2:jh:69:VAL:HG23	2.35	0.56
2:kh:54:GLU:CG	2:kh:69:VAL:HG23	2.35	0.56
2:lh:102:MET:CB	2:lh:105:LEU:HD11	2.35	0.56
2:nh:25:GLU:OE1	2:nh:115:CYS:HB2	2.04	0.56
2:nh:102:MET:CB	2:nh:105:LEU:HD11	2.35	0.56
2:qh:96:ASN:N	2:qh:96:ASN:HD22	2.02	0.56
2:sh:102:MET:CB	2:sh:105:LEU:HD11	2.35	0.56
2:uh:102:MET:CB	2:uh:105:LEU:HD11	2.36	0.56
2:wh:88:THR:HG22	2:wh:101:GLN:HE22	1.38	0.56
2:wh:102:MET:CB	2:wh:105:LEU:HD11	2.35	0.56
2:xh:54:GLU:CG	2:xh:69:VAL:HG23	2.34	0.56
2:7h:102:MET:CB	2:7h:105:LEU:HD11	2.36	0.56
3:Al:31:SER:HA	3:Al:126:VAL:O	2.04	0.56
3:Cl:31:SER:HA	3:Cl:126:VAL:O	2.04	0.56
3:Ll:31:SER:HB3	3:Ll:127:THR:HG1	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vl:107:TYR:HE2	3:Vl:126:VAL:HG22	1.64	0.56
3:Zl:107:TYR:HE2	3:Zl:126:VAL:HG22	1.64	0.56
3:5l:31:SER:HA	3:5l:126:VAL:O	2.04	0.56
3:al:31:SER:HA	3:al:126:VAL:O	2.04	0.56
3:el:31:SER:HA	3:el:126:VAL:O	2.04	0.56
3:pl:107:TYR:HE2	3:pl:126:VAL:HG22	1.64	0.56
3:rl:31:SER:HA	3:rl:126:VAL:O	2.04	0.56
3:tl:31:SER:HB3	3:tl:127:THR:HG1	1.70	0.56
1:F:235:MET:HE1	1:F:240:ILE:HG13	1.86	0.56
1:L:470:ILE:HG22	1:n:270:ASN:HA	1.87	0.56
1:M:614:GLN:N	1:M:614:GLN:OE1	2.37	0.56
1:O:587:ASN:HB3	3:Ol:87:ARG:NH1	2.19	0.56
1:a:470:ILE:HG22	1:k:270:ASN:HA	1.87	0.56
1:b:444:TYR:OH	1:b:469:ASP:OD2	2.21	0.56
1:c:614:GLN:N	1:c:614:GLN:OE1	2.37	0.56
1:f:587:ASN:HB3	3:fl:87:ARG:NH1	2.19	0.56
1:f:614:GLN:N	1:f:614:GLN:OE1	2.37	0.56
1:p:235:MET:HE1	1:p:240:ILE:HG13	1.86	0.56
1:v:587:ASN:CB	3:vl:87:ARG:HH12	2.19	0.56
1:x:489:SER:N	1:x:495:ASN:HD21	1.92	0.56
1:8:614:GLN:N	1:8:614:GLN:OE1	2.37	0.56
2:Fh:81:ASP:CA	2:Fh:84:LYS:HE3	2.32	0.56
2:Gh:102:MET:CB	2:Gh:105:LEU:HD11	2.35	0.56
2:Rh:54:GLU:CG	2:Rh:69:VAL:HG23	2.35	0.56
2:Rh:55:TRP:CE2	2:Rh:100:LEU:HB2	2.40	0.56
2:Uh:52:GLY:O	2:Uh:118:ALA:N	2.25	0.56
2:1h:25:GLU:OE1	2:1h:115:CYS:HB2	2.04	0.56
2:dh:55:TRP:CE2	2:dh:100:LEU:HB2	2.40	0.56
2:hh:96:ASN:N	2:hh:96:ASN:HD22	2.03	0.56
2:kh:55:TRP:CE2	2:kh:100:LEU:HB2	2.40	0.56
2:lh:96:ASN:N	2:lh:96:ASN:HD22	2.02	0.56
2:vh:54:GLU:CG	2:vh:69:VAL:HG23	2.35	0.56
2:wh:25:GLU:OE1	2:wh:115:CYS:HB2	2.04	0.56
2:yh:102:MET:CB	2:yh:105:LEU:HD11	2.36	0.56
2:8h:55:TRP:CE2	2:8h:100:LEU:HB2	2.40	0.56
3:Dl:31:SER:HA	3:Dl:126:VAL:O	2.04	0.56
3:Nl:31:SER:HA	3:Nl:126:VAL:O	2.04	0.56
3:jl:107:TYR:HE2	3:jl:126:VAL:HG22	1.64	0.56
3:8l:107:TYR:HE2	3:8l:126:VAL:HG22	1.64	0.56
1:A:235:MET:HE1	1:A:240:ILE:HG13	1.86	0.56
1:R:470:ILE:HG22	1:Z:270:ASN:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:614:GLN:N	1:b:614:GLN:OE1	2.37	0.56
1:t:587:ASN:CB	3:tl:87:ARG:HH11	1.92	0.56
2:Ah:96:ASN:N	2:Ah:96:ASN:HD22	2.03	0.56
2:Kh:102:MET:CB	2:Kh:105:LEU:HD11	2.35	0.56
2:Lh:55:TRP:CE2	2:Lh:100:LEU:HB2	2.40	0.56
2:Ph:55:TRP:CE2	2:Ph:100:LEU:HB2	2.40	0.56
2:Uh:55:TRP:CE2	2:Uh:100:LEU:HB2	2.40	0.56
2:Vh:102:MET:CB	2:Vh:105:LEU:HD11	2.35	0.56
2:eh:52:GLY:O	2:eh:118:ALA:N	2.25	0.56
2:ih:81:ASP:CA	2:ih:84:LYS:HE3	2.32	0.56
2:jh:102:MET:CB	2:jh:105:LEU:HD11	2.35	0.56
2:lh:54:GLU:CG	2:lh:69:VAL:HG23	2.35	0.56
2:mh:25:GLU:OE1	2:mh:115:CYS:HB2	2.04	0.56
2:mh:55:TRP:CE2	2:mh:100:LEU:HB2	2.40	0.56
2:uh:55:TRP:CE2	2:uh:100:LEU:HB2	2.40	0.56
2:xh:102:MET:CB	2:xh:105:LEU:HD11	2.35	0.56
2:zh:54:GLU:CG	2:zh:69:VAL:HG23	2.35	0.56
3:Jl:31:SER:HA	3:Jl:126:VAL:O	2.05	0.56
3:8l:31:SER:HA	3:8l:126:VAL:O	2.04	0.56
1:B:470:ILE:HG22	1:O:270:ASN:HA	1.87	0.56
1:C:270:ASN:HA	1:Z:470:ILE:HG22	1.86	0.56
1:j:489:SER:H	1:j:495:ASN:ND2	1.91	0.56
1:k:470:ILE:HG22	1:8:270:ASN:HA	1.87	0.56
1:s:235:MET:HE1	1:s:240:ILE:HG13	1.86	0.56
1:v:614:GLN:N	1:v:614:GLN:OE1	2.37	0.56
2:Gh:25:GLU:OE1	2:Gh:115:CYS:HB2	2.04	0.56
2:Nh:53:MET:CB	2:Nh:98:LEU:HD22	2.34	0.56
2:Oh:81:ASP:CA	2:Oh:84:LYS:HE3	2.32	0.56
2:Qh:88:THR:HG22	2:Qh:101:GLN:HE22	1.38	0.56
2:Sh:54:GLU:CG	2:Sh:69:VAL:HG23	2.35	0.56
2:Uh:25:GLU:OE1	2:Uh:115:CYS:HB2	2.04	0.56
2:Uh:102:MET:CB	2:Uh:105:LEU:HD11	2.36	0.56
2:Xh:25:GLU:OE1	2:Xh:115:CYS:HB2	2.04	0.56
2:bh:58:GLN:C	2:bh:111:ALA:HB1	2.29	0.56
2:hh:81:ASP:CA	2:hh:84:LYS:HE3	2.32	0.56
2:hh:102:MET:CB	2:hh:105:LEU:HD11	2.35	0.56
2:mh:52:GLY:O	2:mh:118:ALA:N	2.25	0.56
2:mh:102:MET:CB	2:mh:105:LEU:HD11	2.36	0.56
2:ph:96:ASN:N	2:ph:96:ASN:HD22	2.03	0.56
2:th:55:TRP:CE2	2:th:100:LEU:HB2	2.40	0.56
3:Al:107:TYR:HE2	3:Al:126:VAL:HG22	1.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Zl:31:SER:HA	3:Zl:126:VAL:O	2.04	0.56
3:4l:31:SER:HA	3:4l:126:VAL:O	2.04	0.56
3:cl:31:SER:HA	3:cl:126:VAL:O	2.04	0.56
3:yl:107:TYR:HE2	3:yl:126:VAL:HG22	1.64	0.56
1:J:614:GLN:N	1:J:614:GLN:OE1	2.37	0.56
1:K:587:ASN:CB	3:Kl:87:ARG:HH12	2.19	0.56
1:N:470:ILE:HG22	1:z:270:ASN:HA	1.87	0.56
1:O:470:ILE:HG22	1:V:270:ASN:HA	1.86	0.56
1:O:614:GLN:N	1:O:614:GLN:OE1	2.37	0.56
1:W:270:ASN:HA	1:c:470:ILE:HG22	1.87	0.56
1:f:270:ASN:HA	1:u:470:ILE:HG22	1.87	0.56
1:f:470:ILE:HG22	1:j:270:ASN:HA	1.87	0.56
1:g:270:ASN:HA	1:n:470:ILE:HG22	1.86	0.56
1:g:489:SER:H	1:g:495:ASN:ND2	1.90	0.56
1:z:489:SER:N	1:z:495:ASN:HD21	1.92	0.56
1:8:587:ASN:CB	3:8l:87:ARG:HH12	2.19	0.56
2:Bh:55:TRP:CE2	2:Bh:100:LEU:HB2	2.40	0.56
2:Gh:54:GLU:CG	2:Gh:69:VAL:HG23	2.35	0.56
2:Ih:58:GLN:C	2:Ih:111:ALA:HB1	2.29	0.56
2:Mh:58:GLN:C	2:Mh:111:ALA:HB1	2.29	0.56
2:Oh:102:MET:CB	2:Oh:105:LEU:HD11	2.35	0.56
2:Rh:52:GLY:O	2:Rh:118:ALA:N	2.25	0.56
2:Th:96:ASN:N	2:Th:96:ASN:HD22	2.02	0.56
2:Zh:96:ASN:N	2:Zh:96:ASN:HD22	2.03	0.56
2:3h:53:MET:CB	2:3h:98:LEU:HD22	2.34	0.56
2:4h:102:MET:CB	2:4h:105:LEU:HD11	2.35	0.56
2:ih:25:GLU:OE1	2:ih:115:CYS:HB2	2.04	0.56
2:nh:54:GLU:CG	2:nh:69:VAL:HG23	2.35	0.56
2:8h:96:ASN:HD22	2:8h:96:ASN:N	2.03	0.56
3:Bl:107:TYR:HE2	3:Bl:126:VAL:HG22	1.64	0.56
3:vl:31:SER:HA	3:vl:126:VAL:O	2.05	0.56
1:A:587:ASN:CB	3:Al:87:ARG:HH12	2.18	0.56
1:K:489:SER:N	1:K:495:ASN:HD21	1.92	0.56
1:Z:587:ASN:CB	3:Zl:87:ARG:HH12	2.19	0.56
1:p:587:ASN:HB3	3:pl:87:ARG:NH1	2.19	0.56
1:v:587:ASN:HB3	3:vl:87:ARG:NH1	2.20	0.56
1:x:587:ASN:CB	3:xl:87:ARG:HH12	2.19	0.56
2:Ih:53:MET:CB	2:Ih:98:LEU:HD22	2.34	0.56
2:Ih:96:ASN:N	2:Ih:96:ASN:HD22	2.02	0.56
2:Xh:81:ASP:CA	2:Xh:84:LYS:HE3	2.32	0.56
2:5h:53:MET:CB	2:5h:98:LEU:HD22	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5h:102:MET:CB	2:5h:105:LEU:HD11	2.35	0.56
2:dh:102:MET:CB	2:dh:105:LEU:HD11	2.35	0.56
2:fh:102:MET:CB	2:fh:105:LEU:HD11	2.35	0.56
2:mh:96:ASN:N	2:mh:96:ASN:HD22	2.03	0.56
2:oh:58:GLN:C	2:oh:111:ALA:HB1	2.29	0.56
3:hl:31:SER:HA	3:hl:126:VAL:O	2.04	0.56
1:J:235:MET:HE1	1:J:240:ILE:HG13	1.86	0.56
1:Y:587:ASN:CB	3:Yl:87:ARG:HH12	2.19	0.56
1:1:270:ASN:HA	1:6:470:ILE:HG22	1.88	0.56
1:5:587:ASN:HB3	3:5l:87:ARG:NH1	2.20	0.56
1:n:353:VAL:H	1:n:645:GLN:HE22	1.54	0.56
2:Ch:53:MET:CB	2:Ch:98:LEU:HD22	2.34	0.56
2:Kh:25:GLU:OE1	2:Kh:115:CYS:HB2	2.04	0.56
2:3h:102:MET:CB	2:3h:105:LEU:HD11	2.35	0.56
2:5h:52:GLY:O	2:5h:118:ALA:N	2.25	0.56
2:fh:81:ASP:CA	2:fh:84:LYS:HE3	2.32	0.56
2:mh:81:ASP:CA	2:mh:84:LYS:HE3	2.32	0.56
2:ph:102:MET:CB	2:ph:105:LEU:HD11	2.35	0.56
2:xh:25:GLU:OE1	2:xh:115:CYS:HB2	2.04	0.56
2:7h:55:TRP:CE2	2:7h:100:LEU:HB2	2.40	0.56
3:ul:107:TYR:HE2	3:ul:126:VAL:HG22	1.64	0.56
1:B:353:VAL:H	1:B:645:GLN:HE22	1.54	0.56
1:D:270:ASN:HA	1:7:470:ILE:HG22	1.87	0.56
1:G:353:VAL:H	1:G:645:GLN:HE22	1.54	0.56
1:G:470:ILE:HG22	1:T:270:ASN:HA	1.86	0.56
1:H:587:ASN:HB3	3:Hl:87:ARG:NH1	2.20	0.56
1:J:587:ASN:HB3	3:Jl:87:ARG:NH1	2.20	0.56
1:T:489:SER:H	1:T:495:ASN:ND2	1.90	0.56
1:u:353:VAL:H	1:u:645:GLN:HE22	1.54	0.56
1:w:353:VAL:H	1:w:645:GLN:HE22	1.54	0.56
1:7:587:ASN:CB	3:7l:87:ARG:HH12	2.19	0.56
2:Ph:102:MET:CB	2:Ph:105:LEU:HD11	2.36	0.56
2:Rh:25:GLU:OE1	2:Rh:115:CYS:HB2	2.04	0.56
2:Rh:102:MET:CB	2:Rh:105:LEU:HD11	2.36	0.56
2:Uh:96:ASN:N	2:Uh:96:ASN:HD22	2.03	0.56
2:Yh:55:TRP:CE2	2:Yh:100:LEU:HB2	2.40	0.56
2:3h:52:GLY:O	2:3h:118:ALA:N	2.25	0.56
2:gh:96:ASN:N	2:gh:96:ASN:HD22	2.02	0.56
3:Hl:107:TYR:HE2	3:Hl:126:VAL:HG22	1.64	0.56
1:H:470:ILE:HG22	1:7:270:ASN:HA	1.87	0.55
1:L:587:ASN:CB	3:Ll:87:ARG:HH11	1.93	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:235:MET:HE1	1:Q:240:ILE:HG13	1.86	0.55
1:V:353:VAL:H	1:V:645:GLN:HE22	1.54	0.55
1:Y:470:ILE:HG22	1:e:270:ASN:HA	1.87	0.55
1:1:353:VAL:H	1:1:645:GLN:HE22	1.54	0.55
1:j:353:VAL:H	1:j:645:GLN:HE22	1.54	0.55
1:n:587:ASN:HB3	3:nl:87:ARG:NH1	2.19	0.55
1:v:235:MET:HE1	1:v:240:ILE:HG13	1.86	0.55
2:Lh:102:MET:CB	2:Lh:105:LEU:HD11	2.36	0.55
2:ah:53:MET:CB	2:ah:98:LEU:HD22	2.34	0.55
2:th:102:MET:CB	2:th:105:LEU:HD11	2.35	0.55
3:Dl:107:TYR:HE2	3:Dl:126:VAL:HG22	1.64	0.55
3:Ol:31:SER:HA	3:Ol:126:VAL:O	2.04	0.55
1:D:470:ILE:HG22	1:H:270:ASN:HA	1.87	0.55
1:1:587:ASN:CB	3:1l:87:ARG:HH12	2.19	0.55
1:3:587:ASN:HB3	3:3l:87:ARG:NH1	2.20	0.55
1:r:235:MET:HE1	1:r:240:ILE:HG13	1.86	0.55
2:Uh:81:ASP:CA	2:Uh:84:LYS:HE3	2.32	0.55
2:Xh:102:MET:CB	2:Xh:105:LEU:HD11	2.35	0.55
2:ch:41:CYS:CB	2:ch:115:CYS:SG	2.95	0.55
2:kh:52:GLY:O	2:kh:118:ALA:N	2.25	0.55
2:kh:102:MET:CB	2:kh:105:LEU:HD11	2.36	0.55
2:mh:53:MET:CB	2:mh:98:LEU:HD22	2.34	0.55
2:uh:41:CYS:CB	2:uh:115:CYS:SG	2.95	0.55
2:vh:102:MET:CB	2:vh:105:LEU:HD11	2.35	0.55
2:7h:53:MET:CB	2:7h:98:LEU:HD22	2.34	0.55
1:A:353:VAL:H	1:A:645:GLN:HE22	1.54	0.55
1:F:614:GLN:N	1:F:614:GLN:OE1	2.37	0.55
1:J:470:ILE:HG22	1:X:270:ASN:HA	1.87	0.55
1:L:587:ASN:HB3	3:Ll:87:ARG:NH1	2.20	0.55
1:Y:270:ASN:HA	1:y:470:ILE:HG22	1.87	0.55
1:4:353:VAL:H	1:4:645:GLN:HE22	1.54	0.55
1:b:270:ASN:HA	1:l:470:ILE:HG22	1.87	0.55
1:e:470:ILE:HG22	1:y:270:ASN:HA	1.87	0.55
1:p:353:VAL:H	1:p:645:GLN:HE22	1.54	0.55
1:s:614:GLN:N	1:s:614:GLN:OE1	2.37	0.55
2:Jh:102:MET:CB	2:Jh:105:LEU:HD11	2.35	0.55
2:Zh:81:ASP:CA	2:Zh:84:LYS:HE3	2.32	0.55
2:kh:25:GLU:OE1	2:kh:115:CYS:HB2	2.04	0.55
2:zh:102:MET:CB	2:zh:105:LEU:HD11	2.36	0.55
2:8h:102:MET:CB	2:8h:105:LEU:HD11	2.35	0.55
3:Dl:31:SER:HB3	3:Dl:127:THR:HG1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:fl:31:SER:HA	3:fl:126:VAL:O	2.04	0.55
1:T:353:VAL:H	1:T:645:GLN:HE22	1.54	0.55
1:d:353:VAL:H	1:d:645:GLN:HE22	1.55	0.55
1:e:353:VAL:H	1:e:645:GLN:HE22	1.54	0.55
1:g:353:VAL:H	1:g:645:GLN:HE22	1.54	0.55
1:h:353:VAL:H	1:h:645:GLN:HE22	1.54	0.55
1:v:353:VAL:H	1:v:645:GLN:HE22	1.54	0.55
2:Uh:53:MET:CB	2:Uh:98:LEU:HD22	2.34	0.55
2:Wh:102:MET:CB	2:Wh:105:LEU:HD11	2.35	0.55
2:Yh:53:MET:CB	2:Yh:98:LEU:HD22	2.34	0.55
2:Zh:102:MET:CB	2:Zh:105:LEU:HD11	2.35	0.55
2:fh:41:CYS:CB	2:fh:115:CYS:SG	2.95	0.55
2:ih:102:MET:CB	2:ih:105:LEU:HD11	2.35	0.55
2:rh:53:MET:CB	2:rh:98:LEU:HD22	2.34	0.55
1:D:353:VAL:H	1:D:645:GLN:HE22	1.54	0.55
1:D:587:ASN:CB	3:Dl:87:ARG:HH12	2.19	0.55
1:G:587:ASN:HB3	3:Gl:87:ARG:NH1	2.20	0.55
1:J:353:VAL:H	1:J:645:GLN:HE22	1.54	0.55
1:M:270:ASN:HA	1:S:470:ILE:HG22	1.87	0.55
1:P:353:VAL:H	1:P:645:GLN:HE22	1.55	0.55
1:S:353:VAL:H	1:S:645:GLN:HE22	1.54	0.55
1:Y:353:VAL:H	1:Y:645:GLN:HE22	1.54	0.55
1:Z:353:VAL:H	1:Z:645:GLN:HE22	1.54	0.55
1:i:270:ASN:HA	1:v:470:ILE:HG22	1.87	0.55
1:l:353:VAL:H	1:l:645:GLN:HE22	1.54	0.55
1:7:353:VAL:H	1:7:645:GLN:HE22	1.54	0.55
1:8:353:VAL:H	1:8:645:GLN:HE22	1.54	0.55
2:Ah:41:CYS:CB	2:Ah:115:CYS:SG	2.95	0.55
2:Mh:23:LEU:HD21	2:Mh:53:MET:HE1	1.89	0.55
2:Ph:52:GLY:O	2:Ph:118:ALA:N	2.25	0.55
2:8h:81:ASP:CA	2:8h:84:LYS:HE3	2.32	0.55
1:y:489:SER:N	1:y:495:ASN:HD21	1.92	0.55
2:Bh:79:TYR:OH	2:Bh:89:ILE:HG22	2.07	0.55
2:Eh:41:CYS:CB	2:Eh:115:CYS:SG	2.95	0.55
2:Qh:53:MET:CB	2:Qh:98:LEU:HD22	2.34	0.55
2:Qh:79:TYR:OH	2:Qh:89:ILE:HG22	2.07	0.55
2:Th:23:LEU:HD21	2:Th:53:MET:HE1	1.89	0.55
2:2h:96:ASN:N	2:2h:96:ASN:HD22	2.03	0.55
2:bh:23:LEU:HD21	2:bh:53:MET:HE1	1.89	0.55
2:gh:23:LEU:HD21	2:gh:53:MET:HE1	1.89	0.55
2:ih:41:CYS:CB	2:ih:115:CYS:SG	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:qh:41:CYS:CB	2:qh:115:CYS:SG	2.95	0.55
2:uh:79:TYR:OH	2:uh:89:ILE:HG22	2.07	0.55
2:yh:81:ASP:CA	2:yh:84:LYS:HE3	2.32	0.55
3:el:107:TYR:HE2	3:el:126:VAL:HG22	1.64	0.55
1:H:353:VAL:H	1:H:645:GLN:HE22	1.55	0.55
1:H:587:ASN:CB	3:Hl:87:ARG:HH12	2.19	0.55
1:6:353:VAL:H	1:6:645:GLN:HE22	1.54	0.55
1:b:353:VAL:H	1:b:645:GLN:HE22	1.54	0.55
1:e:587:ASN:CB	3:el:87:ARG:HH12	2.19	0.55
1:n:587:ASN:CB	3:nl:87:ARG:HH12	2.18	0.55
1:y:353:VAL:H	1:y:645:GLN:HE22	1.55	0.55
1:y:587:ASN:CB	3:yl:87:ARG:HH12	2.19	0.55
2:Ch:102:MET:CB	2:Ch:105:LEU:HD11	2.35	0.55
2:Hh:79:TYR:OH	2:Hh:89:ILE:HG22	2.07	0.55
2:Lh:23:LEU:HD21	2:Lh:53:MET:HE1	1.89	0.55
2:Nh:23:LEU:HD21	2:Nh:53:MET:HE1	1.89	0.55
2:Nh:102:MET:CB	2:Nh:105:LEU:HD11	2.35	0.55
2:Rh:23:LEU:HD21	2:Rh:53:MET:HE1	1.89	0.55
2:Th:41:CYS:CB	2:Th:115:CYS:SG	2.95	0.55
2:Wh:88:THR:HG22	2:Wh:101:GLN:HE22	1.38	0.55
2:Xh:41:CYS:CB	2:Xh:115:CYS:SG	2.95	0.55
2:2h:102:MET:CB	2:2h:105:LEU:HD11	2.35	0.55
2:ch:23:LEU:HD21	2:ch:53:MET:HE1	1.89	0.55
2:dh:41:CYS:CB	2:dh:115:CYS:SG	2.95	0.55
2:kh:23:LEU:HD21	2:kh:53:MET:HE1	1.89	0.55
2:rh:79:TYR:OH	2:rh:89:ILE:HG22	2.07	0.55
2:th:23:LEU:HD21	2:th:53:MET:HE1	1.89	0.55
2:yh:41:CYS:CB	2:yh:115:CYS:SG	2.95	0.55
2:yh:79:TYR:OH	2:yh:89:ILE:HG22	2.07	0.55
2:8h:63:GLY:HA2	3:8l:108:TYR:OH	2.07	0.55
1:E:353:VAL:H	1:E:645:GLN:HE22	1.54	0.55
1:G:587:ASN:CB	3:Gl:87:ARG:HH12	2.19	0.55
1:H:489:SER:N	1:H:495:ASN:HD21	1.92	0.55
1:V:587:ASN:HB3	3:Vl:87:ARG:NH1	2.20	0.55
2:Kh:23:LEU:HD21	2:Kh:53:MET:HE1	1.89	0.55
2:Nh:63:GLY:HA2	3:Nl:108:TYR:OH	2.07	0.55
2:Ph:41:CYS:CB	2:Ph:115:CYS:SG	2.95	0.55
2:Qh:63:GLY:HA2	3:Ql:108:TYR:OH	2.07	0.55
2:Sh:63:GLY:HA2	3:Sl:108:TYR:OH	2.07	0.55
2:Th:63:GLY:HA2	3:Tl:108:TYR:OH	2.07	0.55
2:Wh:79:TYR:OH	2:Wh:89:ILE:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zh:63:GLY:HA2	3:Zl:108:TYR:OH	2.07	0.55
2:Zh:79:TYR:OH	2:Zh:89:ILE:HG22	2.07	0.55
2:6h:96:ASN:N	2:6h:96:ASN:HD22	2.03	0.55
2:6h:102:MET:CB	2:6h:105:LEU:HD11	2.35	0.55
2:ah:41:CYS:CB	2:ah:115:CYS:SG	2.95	0.55
2:ch:63:GLY:HA2	3:cl:108:TYR:OH	2.07	0.55
2:ch:102:MET:CB	2:ch:105:LEU:HD11	2.36	0.55
2:gh:63:GLY:HA2	3:gl:108:TYR:OH	2.07	0.55
2:jh:23:LEU:HD21	2:jh:53:MET:HE1	1.89	0.55
2:lh:63:GLY:HA2	3:ll:108:TYR:OH	2.07	0.55
2:nh:79:TYR:OH	2:nh:89:ILE:HG22	2.07	0.55
2:ph:81:ASP:CA	2:ph:84:LYS:HE3	2.32	0.55
2:qh:102:MET:CB	2:qh:105:LEU:HD11	2.35	0.55
2:rh:63:GLY:HA2	3:rl:108:TYR:OH	2.07	0.55
2:xh:63:GLY:HA2	3:xl:108:TYR:OH	2.07	0.55
3:2l:107:TYR:HE2	3:2l:126:VAL:HG22	1.64	0.55
1:M:353:VAL:H	1:M:645:GLN:HE22	1.54	0.55
1:T:710:VAL:O	1:T:713:THR:OG1	2.25	0.55
1:g:710:VAL:O	1:g:713:THR:OG1	2.25	0.55
1:j:587:ASN:HB3	3:jl:87:ARG:NH1	2.20	0.55
1:q:353:VAL:H	1:q:645:GLN:HE22	1.54	0.55
1:s:301:ASN:HD22	1:8:699:GLN:HE21	1.55	0.55
2:Ah:23:LEU:HD21	2:Ah:53:MET:HE1	1.89	0.55
2:Ah:79:TYR:OH	2:Ah:89:ILE:HG22	2.07	0.55
2:Eh:102:MET:CB	2:Eh:105:LEU:HD11	2.35	0.55
2:Gh:79:TYR:OH	2:Gh:89:ILE:HG22	2.07	0.55
2:Hh:41:CYS:CB	2:Hh:115:CYS:SG	2.95	0.55
2:Kh:41:CYS:CB	2:Kh:115:CYS:SG	2.95	0.55
2:Kh:63:GLY:HA2	3:Kl:108:TYR:OH	2.07	0.55
2:Vh:23:LEU:HD21	2:Vh:53:MET:HE1	1.89	0.55
2:Wh:63:GLY:HA2	3:Wl:108:TYR:OH	2.07	0.55
2:1h:81:ASP:CA	2:1h:84:LYS:HE3	2.32	0.55
2:3h:23:LEU:HD21	2:3h:53:MET:HE1	1.89	0.55
2:4h:63:GLY:HA2	3:4l:108:TYR:OH	2.07	0.55
2:5h:23:LEU:HD21	2:5h:53:MET:HE1	1.89	0.55
2:ah:102:MET:CB	2:ah:105:LEU:HD11	2.35	0.55
2:bh:81:ASP:CA	2:bh:84:LYS:HE3	2.32	0.55
2:dh:79:TYR:OH	2:dh:89:ILE:HG22	2.07	0.55
2:hh:63:GLY:HA2	3:hl:108:TYR:OH	2.07	0.55
2:ph:23:LEU:HD21	2:ph:53:MET:HE1	1.89	0.55
2:xh:23:LEU:HD21	2:xh:53:MET:HE1	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:xh:41:CYS:CB	2:xh:115:CYS:SG	2.95	0.55
2:zh:79:TYR:OH	2:zh:89:ILE:HG22	2.07	0.55
2:7h:63:GLY:HA2	3:7l:108:TYR:OH	2.07	0.55
2:8h:79:TYR:OH	2:8h:89:ILE:HG22	2.07	0.55
1:F:301:ASN:HD22	1:Z:699:GLN:HE21	1.55	0.55
1:K:353:VAL:H	1:K:645:GLN:HE22	1.54	0.55
1:2:353:VAL:H	1:2:645:GLN:HE22	1.55	0.55
1:6:587:ASN:HB3	3:6l:87:ARG:NH1	2.22	0.55
1:t:353:VAL:H	1:t:645:GLN:HE22	1.55	0.55
1:w:587:ASN:CB	3:wl:87:ARG:HH12	2.19	0.55
2:Ah:102:MET:CB	2:Ah:105:LEU:HD11	2.35	0.55
2:Ch:41:CYS:CB	2:Ch:115:CYS:SG	2.95	0.55
2:Eh:52:GLY:O	2:Eh:118:ALA:N	2.25	0.55
2:Hh:81:ASP:CA	2:Hh:84:LYS:HE3	2.32	0.55
2:Kh:79:TYR:OH	2:Kh:89:ILE:HG22	2.07	0.55
2:Ph:79:TYR:OH	2:Ph:89:ILE:HG22	2.07	0.55
2:Yh:63:GLY:HA2	3:Yl:108:TYR:OH	2.07	0.55
2:1h:63:GLY:HA2	3:1l:108:TYR:OH	2.07	0.55
2:4h:79:TYR:OH	2:4h:89:ILE:HG22	2.07	0.55
2:5h:63:GLY:HA2	3:5l:108:TYR:OH	2.07	0.55
2:bh:41:CYS:CB	2:bh:115:CYS:SG	2.95	0.55
2:dh:52:GLY:O	2:dh:118:ALA:N	2.25	0.55
2:ph:63:GLY:HA2	3:pl:108:TYR:OH	2.07	0.55
2:th:53:MET:CB	2:th:98:LEU:HD22	2.34	0.55
2:zh:81:ASP:CA	2:zh:84:LYS:HE3	2.32	0.55
3:Zl:49:ILE:HG23	3:Zl:87:ARG:HH21	1.72	0.55
3:4l:49:ILE:HG23	3:4l:87:ARG:HH21	1.72	0.55
3:6l:107:TYR:HE2	3:6l:126:VAL:HG22	1.64	0.55
3:il:107:TYR:HE2	3:il:126:VAL:HG22	1.64	0.55
3:8l:49:ILE:HG23	3:8l:87:ARG:HH21	1.72	0.55
1:L:353:VAL:H	1:L:645:GLN:HE22	1.54	0.54
2:Ch:63:GLY:HA2	3:Cl:108:TYR:OH	2.07	0.54
2:Ih:41:CYS:CB	2:Ih:115:CYS:SG	2.95	0.54
2:Mh:41:CYS:CB	2:Mh:115:CYS:SG	2.95	0.54
2:Nh:79:TYR:OH	2:Nh:89:ILE:HG22	2.07	0.54
2:Rh:79:TYR:OH	2:Rh:89:ILE:HG22	2.07	0.54
2:Sh:79:TYR:OH	2:Sh:89:ILE:HG22	2.07	0.54
2:Wh:81:ASP:CA	2:Wh:84:LYS:HE3	2.32	0.54
2:3h:63:GLY:HA2	3:3l:108:TYR:OH	2.07	0.54
2:eh:79:TYR:OH	2:eh:89:ILE:HG22	2.07	0.54
2:fh:23:LEU:HD21	2:fh:53:MET:HE1	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hh:79:TYR:OH	2:hh:89:ILE:HG22	2.07	0.54
2:kh:81:ASP:CA	2:kh:84:LYS:HE3	2.32	0.54
2:lh:81:ASP:CA	2:lh:84:LYS:HE3	2.32	0.54
2:oh:41:CYS:CB	2:oh:115:CYS:SG	2.95	0.54
2:ph:79:TYR:OH	2:ph:89:ILE:HG22	2.07	0.54
2:wh:63:GLY:HA2	3:wl:108:TYR:OH	2.07	0.54
2:xh:79:TYR:OH	2:xh:89:ILE:HG22	2.07	0.54
2:zh:63:GLY:HA2	3:zl:108:TYR:OH	2.07	0.54
3:Jl:49:ILE:HG23	3:Jl:87:ARG:HH21	1.73	0.54
3:Wl:49:ILE:HG23	3:Wl:87:ARG:HH21	1.72	0.54
3:2l:49:ILE:HG23	3:2l:87:ARG:HH21	1.72	0.54
3:6l:49:ILE:HG23	3:6l:87:ARG:HH21	1.72	0.54
3:al:49:ILE:HG23	3:al:87:ARG:HH21	1.72	0.54
3:dl:49:ILE:HG23	3:dl:87:ARG:HH21	1.72	0.54
3:hl:49:ILE:HG23	3:hl:87:ARG:HH21	1.72	0.54
3:zl:49:ILE:HG23	3:zl:87:ARG:HH21	1.72	0.54
1:O:353:VAL:H	1:O:645:GLN:HE22	1.54	0.54
1:U:710:VAL:O	1:U:713:THR:OG1	2.25	0.54
1:Y:489:SER:N	1:Y:495:ASN:HD21	1.92	0.54
1:d:587:ASN:HB3	3:dl:87:ARG:NH1	2.20	0.54
1:f:353:VAL:H	1:f:645:GLN:HE22	1.54	0.54
1:x:353:VAL:H	1:x:645:GLN:HE22	1.54	0.54
1:7:489:SER:N	1:7:495:ASN:HD21	1.92	0.54
2:Dh:79:TYR:OH	2:Dh:89:ILE:HG22	2.07	0.54
2:Hh:63:GLY:HA2	3:Hl:108:TYR:OH	2.07	0.54
2:Lh:79:TYR:OH	2:Lh:89:ILE:HG22	2.07	0.54
2:Mh:81:ASP:CA	2:Mh:84:LYS:HE3	2.32	0.54
2:Oh:23:LEU:HD21	2:Oh:53:MET:HE1	1.89	0.54
2:Vh:41:CYS:CB	2:Vh:115:CYS:SG	2.95	0.54
2:ah:63:GLY:HA2	3:al:108:TYR:OH	2.07	0.54
2:jh:41:CYS:CB	2:jh:115:CYS:SG	2.95	0.54
2:kh:79:TYR:OH	2:kh:89:ILE:HG22	2.07	0.54
2:oh:79:TYR:OH	2:oh:89:ILE:HG22	2.07	0.54
2:wh:79:TYR:OH	2:wh:89:ILE:HG22	2.07	0.54
2:wh:81:ASP:CA	2:wh:84:LYS:HE3	2.32	0.54
3:Cl:49:ILE:HG23	3:Cl:87:ARG:HH21	1.72	0.54
3:Pl:49:ILE:HG23	3:Pl:87:ARG:HH21	1.72	0.54
3:Ql:49:ILE:HG23	3:Ql:87:ARG:HH21	1.72	0.54
3:ol:49:ILE:HG23	3:ol:87:ARG:HH21	1.72	0.54
3:sl:49:ILE:HG23	3:sl:87:ARG:HH21	1.72	0.54
3:vl:49:ILE:HG23	3:vl:87:ARG:HH21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:wl:49:ILE:HG23	3:wl:87:ARG:HH21	1.72	0.54
1:M:587:ASN:CB	3:Ml:87:ARG:HH12	2.19	0.54
1:S:587:ASN:CB	3:Sl:87:ARG:HH12	2.19	0.54
1:b:489:SER:N	1:b:495:ASN:HD21	1.92	0.54
1:l:587:ASN:CB	3:ll:87:ARG:HH12	2.19	0.54
1:p:489:SER:N	1:p:495:ASN:HD21	1.92	0.54
1:x:587:ASN:HB3	3:xl:87:ARG:NH1	2.20	0.54
1:7:587:ASN:HB3	3:7l:87:ARG:NH1	2.19	0.54
1:8:587:ASN:HB3	3:8l:87:ARG:NH1	2.19	0.54
2:Ah:81:ASP:CA	2:Ah:84:LYS:HE3	2.32	0.54
2:Dh:41:CYS:CB	2:Dh:115:CYS:SG	2.95	0.54
2:Gh:23:LEU:HD21	2:Gh:53:MET:HE1	1.89	0.54
2:Lh:53:MET:CB	2:Lh:98:LEU:HD22	2.34	0.54
2:Vh:63:GLY:HA2	3:Vl:108:TYR:OH	2.07	0.54
2:Xh:63:GLY:HA2	3:Xl:108:TYR:OH	2.07	0.54
2:Yh:23:LEU:HD21	2:Yh:53:MET:HE1	1.89	0.54
2:Yh:79:TYR:OH	2:Yh:89:ILE:HG22	2.07	0.54
2:1h:79:TYR:OH	2:1h:89:ILE:HG22	2.07	0.54
2:2h:52:GLY:O	2:2h:118:ALA:N	2.25	0.54
2:ah:79:TYR:OH	2:ah:89:ILE:HG22	2.07	0.54
2:ch:79:TYR:OH	2:ch:89:ILE:HG22	2.07	0.54
2:eh:41:CYS:CB	2:eh:115:CYS:SG	2.95	0.54
2:ih:63:GLY:HA2	3:il:108:TYR:OH	2.07	0.54
2:jh:63:GLY:HA2	3:jl:108:TYR:OH	2.07	0.54
2:lh:23:LEU:HD21	2:lh:53:MET:HE1	1.89	0.54
2:lh:79:TYR:OH	2:lh:89:ILE:HG22	2.07	0.54
2:nh:23:LEU:HD21	2:nh:53:MET:HE1	1.89	0.54
2:th:79:TYR:OH	2:th:89:ILE:HG22	2.07	0.54
2:7h:79:TYR:OH	2:7h:89:ILE:HG22	2.07	0.54
3:Il:49:ILE:HG23	3:Il:87:ARG:HH21	1.72	0.54
3:Zl:27:PRO:O	3:Zl:124:THR:OG1	2.22	0.54
3:1l:49:ILE:HG23	3:1l:87:ARG:HH21	1.72	0.54
3:rl:49:ILE:HG23	3:rl:87:ARG:HH21	1.72	0.54
1:A:489:SER:N	1:A:495:ASN:HD21	1.92	0.54
1:K:587:ASN:HB3	3:Kl:87:ARG:NH1	2.20	0.54
1:Z:587:ASN:HB3	3:Zl:87:ARG:NH1	2.19	0.54
1:b:587:ASN:CB	3:bl:87:ARG:HH12	2.19	0.54
1:h:710:VAL:O	1:h:713:THR:OG1	2.25	0.54
1:m:710:VAL:O	1:m:713:THR:OG1	2.25	0.54
2:Bh:23:LEU:HD21	2:Bh:53:MET:HE1	1.89	0.54
2:Ch:79:TYR:OH	2:Ch:89:ILE:HG22	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ih:79:TYR:OH	2:Ih:89:ILE:HG22	2.07	0.54
2:Qh:41:CYS:CB	2:Qh:115:CYS:SG	2.95	0.54
2:Sh:81:ASP:CA	2:Sh:84:LYS:HE3	2.32	0.54
2:Zh:23:LEU:HD21	2:Zh:53:MET:HE1	1.89	0.54
2:bh:79:TYR:OH	2:bh:89:ILE:HG22	2.07	0.54
2:oh:63:GLY:HA2	3:ol:108:TYR:OH	2.07	0.54
2:qh:79:TYR:OH	2:qh:89:ILE:HG22	2.07	0.54
2:rh:41:CYS:CB	2:rh:115:CYS:SG	2.95	0.54
2:xh:81:ASP:CA	2:xh:84:LYS:HE3	2.32	0.54
2:yh:63:GLY:HA2	3:yl:108:TYR:OH	2.07	0.54
2:zh:88:THR:HG22	2:zh:101:GLN:HE22	1.39	0.54
2:7h:23:LEU:HD21	2:7h:53:MET:HE1	1.89	0.54
3:Fl:49:ILE:HG23	3:Fl:87:ARG:HH21	1.72	0.54
3:Ml:49:ILE:HG23	3:Ml:87:ARG:HH21	1.73	0.54
3:Xl:107:TYR:HE2	3:Xl:126:VAL:HG22	1.64	0.54
3:kl:49:ILE:HG23	3:kl:87:ARG:HH21	1.73	0.54
1:P:587:ASN:HB3	3:Pl:87:ARG:NH1	2.20	0.54
1:a:353:VAL:H	1:a:645:GLN:HE22	1.54	0.54
1:f:301:ASN:HD22	1:p:699:GLN:HE21	1.56	0.54
1:r:587:ASN:HB3	3:rl:87:ARG:NH1	2.20	0.54
1:s:587:ASN:ND2	3:sl:87:ARG:NH1	2.56	0.54
1:u:587:ASN:HB3	3:ul:87:ARG:NH1	2.20	0.54
2:Ch:81:ASP:CA	2:Ch:84:LYS:HE3	2.32	0.54
2:Kh:81:ASP:CA	2:Kh:84:LYS:HE3	2.32	0.54
2:Nh:52:GLY:O	2:Nh:118:ALA:N	2.25	0.54
2:Sh:23:LEU:HD21	2:Sh:53:MET:HE1	1.89	0.54
2:Vh:79:TYR:OH	2:Vh:89:ILE:HG22	2.07	0.54
2:Xh:53:MET:CB	2:Xh:98:LEU:HD22	2.34	0.54
2:Xh:79:TYR:OH	2:Xh:89:ILE:HG22	2.07	0.54
2:Yh:41:CYS:CB	2:Yh:115:CYS:SG	2.95	0.54
2:ih:53:MET:CB	2:ih:98:LEU:HD22	2.34	0.54
2:qh:52:GLY:O	2:qh:118:ALA:N	2.25	0.54
2:sh:41:CYS:CB	2:sh:115:CYS:SG	2.95	0.54
2:uh:23:LEU:HD21	2:uh:53:MET:HE1	1.89	0.54
2:7h:41:CYS:CB	2:7h:115:CYS:SG	2.95	0.54
3:Hl:49:ILE:HG23	3:Hl:87:ARG:HH21	1.72	0.54
3:Ll:49:ILE:HG23	3:Ll:87:ARG:HH21	1.72	0.54
3:Rl:49:ILE:HG23	3:Rl:87:ARG:HH21	1.73	0.54
3:bl:49:ILE:HG23	3:bl:87:ARG:HH21	1.73	0.54
3:dl:107:TYR:HE2	3:dl:126:VAL:HG22	1.64	0.54
3:yl:49:ILE:HG23	3:yl:87:ARG:HH21	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:353:VAL:H	1:C:645:GLN:HE22	1.54	0.54
1:Q:710:VAL:O	1:Q:713:THR:OG1	2.25	0.54
1:W:489:SER:H	1:W:495:ASN:ND2	1.90	0.54
1:Y:587:ASN:HB3	3:Yl:87:ARG:NH1	2.19	0.54
1:2:587:ASN:CB	3:2l:87:ARG:HH12	2.19	0.54
1:f:699:GLN:HE21	1:p:301:ASN:HD22	1.55	0.54
1:k:353:VAL:H	1:k:645:GLN:HE22	1.54	0.54
1:m:353:VAL:H	1:m:645:GLN:HE22	1.54	0.54
2:Eh:79:TYR:OH	2:Eh:89:ILE:HG22	2.07	0.54
2:Ih:63:GLY:HA2	3:Il:108:TYR:OH	2.07	0.54
2:Mh:39:LEU:HG	2:Mh:102:MET:CE	2.38	0.54
2:Mh:79:TYR:OH	2:Mh:89:ILE:HG22	2.07	0.54
2:Ph:23:LEU:HD21	2:Ph:53:MET:HE1	1.89	0.54
2:Sh:39:LEU:HG	2:Sh:102:MET:CE	2.38	0.54
2:Wh:52:GLY:O	2:Wh:118:ALA:N	2.25	0.54
2:6h:79:TYR:OH	2:6h:89:ILE:HG22	2.07	0.54
2:bh:39:LEU:HG	2:bh:102:MET:CE	2.38	0.54
2:ih:79:TYR:OH	2:ih:89:ILE:HG22	2.07	0.54
2:mh:39:LEU:HG	2:mh:102:MET:CE	2.38	0.54
2:mh:79:TYR:OH	2:mh:89:ILE:HG22	2.07	0.54
2:oh:23:LEU:HD21	2:oh:53:MET:HE1	1.89	0.54
2:sh:63:GLY:HA2	3:sl:108:TYR:OH	2.07	0.54
2:yh:39:LEU:HG	2:yh:102:MET:CE	2.38	0.54
2:8h:23:LEU:HD21	2:8h:53:MET:HE1	1.89	0.54
3:Pl:26:GLN:HB2	3:Pl:122:THR:OG1	2.08	0.54
3:Wl:26:GLN:HB2	3:Wl:122:THR:OG1	2.08	0.54
3:Xl:26:GLN:HB2	3:Xl:122:THR:OG1	2.08	0.54
3:dl:26:GLN:HB2	3:dl:122:THR:OG1	2.08	0.54
3:il:26:GLN:HB2	3:il:122:THR:OG1	2.08	0.54
3:8l:27:PRO:O	3:8l:124:THR:OG1	2.22	0.54
1:A:710:VAL:O	1:A:713:THR:OG1	2.25	0.54
1:B:587:ASN:HB3	3:Bl:87:ARG:NH1	2.20	0.54
1:F:587:ASN:ND2	3:Fl:87:ARG:NH1	2.56	0.54
1:N:353:VAL:H	1:N:645:GLN:HE22	1.54	0.54
1:R:353:VAL:H	1:R:645:GLN:HE22	1.54	0.54
1:S:489:SER:N	1:S:495:ASN:HD21	1.92	0.54
1:U:353:VAL:H	1:U:645:GLN:HE22	1.54	0.54
1:1:587:ASN:ND2	3:1l:87:ARG:NH1	2.56	0.54
1:k:587:ASN:HB3	3:kl:87:ARG:NH1	2.20	0.54
1:r:710:VAL:O	1:r:713:THR:OG1	2.25	0.54
2:Fh:63:GLY:HA2	3:Fl:108:TYR:OH	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Hh:39:LEU:HG	2:Hh:102:MET:CE	2.38	0.54
2:Ih:23:LEU:HD21	2:Ih:53:MET:HE1	1.89	0.54
2:Oh:79:TYR:OH	2:Oh:89:ILE:HG22	2.07	0.54
2:Rh:63:GLY:HA2	3:Rl:108:TYR:OH	2.07	0.54
2:Uh:39:LEU:HG	2:Uh:102:MET:CE	2.38	0.54
2:Uh:79:TYR:OH	2:Uh:89:ILE:HG22	2.07	0.54
2:Wh:39:LEU:HG	2:Wh:102:MET:CE	2.38	0.54
2:Wh:41:CYS:CB	2:Wh:115:CYS:SG	2.95	0.54
2:2h:79:TYR:OH	2:2h:89:ILE:HG22	2.07	0.54
2:3h:39:LEU:HG	2:3h:102:MET:CE	2.38	0.54
2:6h:52:GLY:O	2:6h:118:ALA:N	2.25	0.54
2:dh:63:GLY:HA2	3:dl:108:TYR:OH	2.07	0.54
2:dh:88:THR:HG22	2:dh:101:GLN:HE22	1.39	0.54
2:eh:23:LEU:HD21	2:eh:53:MET:HE1	1.89	0.54
2:eh:63:GLY:HA2	3:el:108:TYR:OH	2.07	0.54
2:gh:52:GLY:O	2:gh:118:ALA:N	2.25	0.54
2:gh:102:MET:CB	2:gh:105:LEU:HD11	2.35	0.54
2:jh:79:TYR:OH	2:jh:89:ILE:HG22	2.07	0.54
2:lh:39:LEU:HG	2:lh:102:MET:CE	2.38	0.54
2:qh:39:LEU:HG	2:qh:102:MET:CE	2.38	0.54
2:sh:79:TYR:OH	2:sh:89:ILE:HG22	2.07	0.54
2:uh:63:GLY:HA2	3:ul:108:TYR:OH	2.07	0.54
2:zh:39:LEU:HG	2:zh:102:MET:CE	2.38	0.54
3:Cl:26:GLN:HB2	3:Cl:122:THR:OG1	2.08	0.54
3:El:49:ILE:HG23	3:El:87:ARG:HH21	1.73	0.54
3:2l:26:GLN:HB2	3:2l:122:THR:OG1	2.08	0.54
3:6l:26:GLN:HB2	3:6l:122:THR:OG1	2.08	0.54
3:al:26:GLN:HB2	3:al:122:THR:OG1	2.08	0.54
3:il:49:ILE:HG23	3:il:87:ARG:HH21	1.73	0.54
3:tl:49:ILE:HG23	3:tl:87:ARG:HH21	1.73	0.54
1:M:489:SER:N	1:M:495:ASN:HD21	1.92	0.54
1:Q:587:ASN:HB3	3:Ql:87:ARG:NH1	2.20	0.54
1:c:353:VAL:H	1:c:645:GLN:HE22	1.54	0.54
1:s:353:VAL:H	1:s:645:GLN:HE22	1.54	0.54
2:Bh:63:GLY:HA2	3:Bl:108:TYR:OH	2.07	0.54
2:Dh:63:GLY:HA2	3:Dl:108:TYR:OH	2.07	0.54
2:Eh:39:LEU:HG	2:Eh:102:MET:CE	2.38	0.54
2:Fh:79:TYR:OH	2:Fh:89:ILE:HG22	2.07	0.54
2:Kh:39:LEU:HG	2:Kh:102:MET:CE	2.38	0.54
2:Mh:63:GLY:HA2	3:Ml:108:TYR:OH	2.07	0.54
2:Sh:52:GLY:O	2:Sh:118:ALA:N	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Th:79:TYR:OH	2:Th:89:ILE:HG22	2.07	0.54
2:Th:102:MET:CB	2:Th:105:LEU:HD11	2.35	0.54
2:Wh:145:THR:O	2:Wh:145:THR:OG1	2.26	0.54
2:5h:39:LEU:HG	2:5h:102:MET:CE	2.38	0.54
2:bh:63:GLY:HA2	3:bl:108:TYR:OH	2.07	0.54
2:dh:23:LEU:HD21	2:dh:53:MET:HE1	1.89	0.54
2:fh:79:TYR:OH	2:fh:89:ILE:HG22	2.07	0.54
2:wh:23:LEU:HD21	2:wh:53:MET:HE1	1.89	0.54
2:zh:145:THR:O	2:zh:145:THR:OG1	2.26	0.54
3:Al:49:ILE:HG23	3:Al:87:ARG:HH21	1.72	0.54
3:Jl:26:GLN:HB2	3:Jl:122:THR:OG1	2.08	0.54
3:Xl:49:ILE:HG23	3:Xl:87:ARG:HH21	1.73	0.54
3:4l:26:GLN:HB2	3:4l:122:THR:OG1	2.08	0.54
3:cl:107:TYR:HE2	3:cl:126:VAL:HG22	1.64	0.54
3:hl:26:GLN:HB2	3:hl:122:THR:OG1	2.08	0.54
3:pl:49:ILE:HG23	3:pl:87:ARG:HH21	1.72	0.54
3:vl:26:GLN:HB2	3:vl:122:THR:OG1	2.08	0.54
3:zl:26:GLN:HB2	3:zl:122:THR:OG1	2.08	0.54
3:7l:49:ILE:HG23	3:7l:87:ARG:HH21	1.73	0.54
1:F:353:VAL:H	1:F:645:GLN:HE22	1.54	0.54
1:p:587:ASN:ND2	3:pl:87:ARG:NH1	2.56	0.54
2:Dh:23:LEU:HD21	2:Dh:53:MET:HE1	1.89	0.54
2:Gh:39:LEU:HG	2:Gh:102:MET:CE	2.38	0.54
2:Hh:23:LEU:HD21	2:Hh:53:MET:HE1	1.89	0.54
2:Ih:39:LEU:HG	2:Ih:102:MET:CE	2.38	0.54
2:Ph:63:GLY:HA2	3:Pl:108:TYR:OH	2.07	0.54
2:Uh:63:GLY:HA2	3:Ul:108:TYR:OH	2.07	0.54
2:1h:23:LEU:HD21	2:1h:53:MET:HE1	1.89	0.54
2:2h:63:GLY:HA2	3:2l:108:TYR:OH	2.07	0.54
2:ah:81:ASP:CA	2:ah:84:LYS:HE3	2.32	0.54
2:bh:70:ILE:HD12	2:bh:77:LYS:HG2	1.90	0.54
2:gh:79:TYR:OH	2:gh:89:ILE:HG22	2.07	0.54
2:kh:63:GLY:HA2	3:kl:108:TYR:OH	2.07	0.54
2:xh:39:LEU:HG	2:xh:102:MET:CE	2.38	0.54
2:yh:23:LEU:HD21	2:yh:53:MET:HE1	1.89	0.54
3:El:26:GLN:HB2	3:El:122:THR:OG1	2.08	0.54
3:Pl:107:TYR:HE2	3:Pl:126:VAL:HG22	1.64	0.54
3:Yl:49:ILE:HG23	3:Yl:87:ARG:HH21	1.73	0.54
3:ql:26:GLN:HB2	3:ql:122:THR:OG1	2.08	0.54
3:ql:49:ILE:HG23	3:ql:87:ARG:HH21	1.73	0.54
1:G:301:ASN:HD22	1:6:699:GLN:HE21	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:587:ASN:HB3	3:Rl:87:ARG:NH1	2.20	0.54
1:T:699:GLN:HE21	1:W:301:ASN:HD22	1.57	0.54
1:Z:489:SER:N	1:Z:495:ASN:HD21	1.92	0.54
1:t:587:ASN:HB3	3:tl:87:ARG:NH1	2.20	0.54
2:Dh:39:LEU:HG	2:Dh:102:MET:CE	2.38	0.54
2:Eh:63:GLY:HA2	3:El:108:TYR:OH	2.07	0.54
2:Eh:142:GLN:H	2:Eh:142:GLN:NE2	2.06	0.54
2:Hh:142:GLN:H	2:Hh:142:GLN:NE2	2.06	0.54
2:Jh:63:GLY:HA2	3:Jl:108:TYR:OH	2.07	0.54
2:Rh:39:LEU:HG	2:Rh:102:MET:CE	2.38	0.54
2:Vh:53:MET:CB	2:Vh:98:LEU:HD22	2.34	0.54
2:Zh:142:GLN:NE2	2:Zh:142:GLN:H	2.06	0.54
2:6h:63:GLY:HA2	3:6l:108:TYR:OH	2.07	0.54
2:kh:39:LEU:HG	2:kh:102:MET:CE	2.38	0.54
2:mh:63:GLY:HA2	3:ml:108:TYR:OH	2.07	0.54
2:nh:39:LEU:HG	2:nh:102:MET:CE	2.38	0.54
2:oh:39:LEU:HG	2:oh:102:MET:CE	2.38	0.54
2:qh:142:GLN:NE2	2:qh:142:GLN:H	2.06	0.54
2:yh:142:GLN:NE2	2:yh:142:GLN:H	2.06	0.54
2:zh:52:GLY:O	2:zh:118:ALA:N	2.25	0.54
2:8h:142:GLN:H	2:8h:142:GLN:NE2	2.06	0.54
3:Dl:49:ILE:HG23	3:Dl:87:ARG:HH21	1.72	0.54
3:Yl:26:GLN:HB2	3:Yl:122:THR:OG1	2.08	0.54
3:Zl:26:GLN:HB2	3:Zl:122:THR:OG1	2.08	0.54
3:kl:26:GLN:HB2	3:kl:122:THR:OG1	2.08	0.54
3:8l:26:GLN:HB2	3:8l:122:THR:OG1	2.08	0.54
1:M:587:ASN:HB3	3:Ml:87:ARG:NH1	2.20	0.53
1:X:587:ASN:CB	3:Xl:87:ARG:HH12	2.19	0.53
1:3:353:VAL:H	1:3:645:GLN:HE22	1.54	0.53
1:g:699:GLN:HE21	1:z:301:ASN:HD22	1.57	0.53
1:i:587:ASN:CB	3:il:87:ARG:HH12	2.19	0.53
1:l:489:SER:N	1:l:495:ASN:HD21	1.92	0.53
1:z:489:SER:H	1:z:495:ASN:ND2	1.90	0.53
2:Ah:39:LEU:HG	2:Ah:102:MET:CE	2.38	0.53
2:Eh:23:LEU:HD21	2:Eh:53:MET:HE1	1.89	0.53
2:Gh:70:ILE:HD12	2:Gh:77:LYS:HG2	1.91	0.53
2:Ih:70:ILE:HD12	2:Ih:77:LYS:HG2	1.91	0.53
2:Ih:142:GLN:H	2:Ih:142:GLN:NE2	2.06	0.53
2:Mh:70:ILE:HD12	2:Mh:77:LYS:HG2	1.91	0.53
2:Qh:23:LEU:HD21	2:Qh:53:MET:HE1	1.89	0.53
2:Rh:70:ILE:HD12	2:Rh:77:LYS:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Uh:70:ILE:HD12	2:Uh:77:LYS:HG2	1.91	0.53
2:Zh:39:LEU:HG	2:Zh:102:MET:CE	2.38	0.53
2:1h:70:ILE:HD12	2:1h:77:LYS:HG2	1.91	0.53
2:ch:52:GLY:O	2:ch:118:ALA:N	2.25	0.53
2:eh:39:LEU:HG	2:eh:102:MET:CE	2.38	0.53
2:kh:70:ILE:HD12	2:kh:77:LYS:HG2	1.91	0.53
2:nh:63:GLY:HA2	3:nl:108:TYR:OH	2.07	0.53
2:nh:70:ILE:HD12	2:nh:77:LYS:HG2	1.91	0.53
2:oh:70:ILE:HD12	2:oh:77:LYS:HG2	1.91	0.53
2:oh:142:GLN:H	2:oh:142:GLN:NE2	2.06	0.53
2:ph:39:LEU:HG	2:ph:102:MET:CE	2.38	0.53
2:qh:63:GLY:HA2	3:ql:108:TYR:OH	2.07	0.53
2:th:63:GLY:HA2	3:tl:108:TYR:OH	2.07	0.53
2:wh:70:ILE:HD12	2:wh:77:LYS:HG2	1.91	0.53
2:8h:39:LEU:HG	2:8h:102:MET:CE	2.38	0.53
3:Kl:26:GLN:HB2	3:Kl:122:THR:OG1	2.08	0.53
3:Rl:26:GLN:HB2	3:Rl:122:THR:OG1	2.08	0.53
3:el:49:ILE:HG23	3:el:87:ARG:HH21	1.72	0.53
3:xl:26:GLN:HB2	3:xl:122:THR:OG1	2.08	0.53
3:7l:26:GLN:HB2	3:7l:122:THR:OG1	2.08	0.53
1:B:710:VAL:O	1:B:713:THR:OG1	2.25	0.53
1:1:587:ASN:HB3	3:1l:87:ARG:NH1	2.19	0.53
1:2:301:ASN:HD22	1:n:699:GLN:HE21	1.57	0.53
1:5:587:ASN:CB	3:5l:87:ARG:HH12	2.19	0.53
1:u:710:VAL:O	1:u:713:THR:OG1	2.25	0.53
1:z:353:VAL:H	1:z:645:GLN:HE22	1.54	0.53
2:Ch:39:LEU:HG	2:Ch:102:MET:CE	2.38	0.53
2:Dh:142:GLN:H	2:Dh:142:GLN:NE2	2.06	0.53
2:Gh:63:GLY:HA2	3:Gl:108:TYR:OH	2.07	0.53
2:Jh:142:GLN:H	2:Jh:142:GLN:NE2	2.06	0.53
2:Nh:39:LEU:HG	2:Nh:102:MET:CE	2.38	0.53
2:Rh:142:GLN:H	2:Rh:142:GLN:NE2	2.06	0.53
2:Th:142:GLN:H	2:Th:142:GLN:NE2	2.06	0.53
2:Xh:23:LEU:HD21	2:Xh:53:MET:HE1	1.89	0.53
2:5h:70:ILE:HD12	2:5h:77:LYS:HG2	1.91	0.53
2:ah:23:LEU:HD21	2:ah:53:MET:HE1	1.89	0.53
2:gh:39:LEU:HG	2:gh:102:MET:CE	2.38	0.53
2:gh:142:GLN:H	2:gh:142:GLN:NE2	2.06	0.53
2:ih:23:LEU:HD21	2:ih:53:MET:HE1	1.89	0.53
2:ih:39:LEU:HG	2:ih:102:MET:CE	2.38	0.53
2:jh:53:MET:CB	2:jh:98:LEU:HD22	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kh:142:GLN:H	2:kh:142:GLN:NE2	2.06	0.53
2:mh:70:ILE:HD12	2:mh:77:LYS:HG2	1.91	0.53
2:vh:63:GLY:HA2	3:vl:108:TYR:OH	2.07	0.53
2:vh:79:TYR:OH	2:vh:89:ILE:HG22	2.07	0.53
2:vh:142:GLN:H	2:vh:142:GLN:NE2	2.06	0.53
2:yh:70:ILE:HD12	2:yh:77:LYS:HG2	1.91	0.53
3:Gl:26:GLN:HB2	3:Gl:122:THR:OG1	2.08	0.53
3:Nl:107:TYR:HE2	3:Nl:126:VAL:HG22	1.64	0.53
3:Ol:26:GLN:HB2	3:Ol:122:THR:OG1	2.08	0.53
3:bl:107:TYR:HE2	3:bl:126:VAL:HG22	1.64	0.53
3:ml:49:ILE:HG23	3:ml:87:ARG:HH21	1.73	0.53
3:xl:49:ILE:HG23	3:xl:87:ARG:HH21	1.72	0.53
1:A:301:ASN:HD22	1:O:699:GLN:HE21	1.55	0.53
1:D:444:TYR:OH	1:D:469:ASP:OD2	2.21	0.53
1:F:699:GLN:HE21	1:Z:301:ASN:HD22	1.56	0.53
1:G:699:GLN:HE21	1:6:301:ASN:HD22	1.57	0.53
1:H:237:ASP:OD1	1:H:237:ASP:N	2.33	0.53
1:O:587:ASN:CB	3:Ol:87:ARG:HH12	2.19	0.53
1:P:699:GLN:HE21	1:V:301:ASN:HD22	1.57	0.53
1:S:699:GLN:HE21	1:l:301:ASN:HD22	1.57	0.53
1:5:353:VAL:H	1:5:645:GLN:HE22	1.55	0.53
1:f:587:ASN:CB	3:fl:87:ARG:HH12	2.19	0.53
1:g:587:ASN:HB3	3:gl:87:ARG:NH1	2.20	0.53
1:s:699:GLN:HE21	1:8:301:ASN:HD22	1.56	0.53
1:y:237:ASP:OD1	1:y:237:ASP:N	2.33	0.53
1:8:489:SER:N	1:8:495:ASN:HD21	1.92	0.53
2:Ah:142:GLN:H	2:Ah:142:GLN:NE2	2.06	0.53
2:Ch:23:LEU:HD21	2:Ch:53:MET:HE1	1.89	0.53
2:Dh:70:ILE:HD12	2:Dh:77:LYS:HG2	1.90	0.53
2:Jh:79:TYR:OH	2:Jh:89:ILE:HG22	2.07	0.53
2:Lh:63:GLY:HA2	3:Ll:108:TYR:OH	2.07	0.53
2:Ph:88:THR:HG22	2:Ph:101:GLN:HE22	1.38	0.53
2:Th:39:LEU:HG	2:Th:102:MET:CE	2.38	0.53
2:Th:52:GLY:O	2:Th:118:ALA:N	2.25	0.53
2:Uh:142:GLN:H	2:Uh:142:GLN:NE2	2.06	0.53
2:Wh:142:GLN:H	2:Wh:142:GLN:NE2	2.06	0.53
2:Xh:39:LEU:HG	2:Xh:102:MET:CE	2.38	0.53
2:3h:70:ILE:HD12	2:3h:77:LYS:HG2	1.91	0.53
2:4h:39:LEU:HG	2:4h:102:MET:CE	2.38	0.53
2:ah:39:LEU:HG	2:ah:102:MET:CE	2.38	0.53
2:ch:39:LEU:HG	2:ch:102:MET:CE	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eh:142:GLN:H	2:eh:142:GLN:NE2	2.06	0.53
2:lh:52:GLY:O	2:lh:118:ALA:N	2.25	0.53
2:mh:142:GLN:H	2:mh:142:GLN:NE2	2.06	0.53
2:qh:23:LEU:HD21	2:qh:53:MET:HE1	1.89	0.53
2:rh:23:LEU:HD21	2:rh:53:MET:HE1	1.89	0.53
2:rh:39:LEU:HG	2:rh:102:MET:CE	2.38	0.53
2:zh:142:GLN:H	2:zh:142:GLN:NE2	2.06	0.53
3:Gl:49:ILE:HG23	3:Gl:87:ARG:HH21	1.73	0.53
3:Nl:49:ILE:HG23	3:Nl:87:ARG:HH21	1.72	0.53
3:Ul:49:ILE:HG23	3:Ul:87:ARG:HH21	1.73	0.53
3:cl:49:ILE:HG23	3:cl:87:ARG:HH21	1.72	0.53
3:fl:26:GLN:HB2	3:fl:122:THR:OG1	2.08	0.53
3:ll:49:ILE:HG23	3:ll:87:ARG:HH21	1.72	0.53
3:nl:49:ILE:HG23	3:nl:87:ARG:HH21	1.72	0.53
3:pl:26:GLN:HB2	3:pl:122:THR:OG1	2.08	0.53
1:I:301:ASN:HD22	1:7:699:GLN:HE21	1.57	0.53
1:K:587:ASN:ND2	3:Kl:87:ARG:NH1	2.57	0.53
1:P:301:ASN:HD22	1:V:699:GLN:HE21	1.57	0.53
1:S:301:ASN:HD22	1:l:699:GLN:HE21	1.57	0.53
1:W:353:VAL:H	1:W:645:GLN:HE22	1.54	0.53
1:Y:237:ASP:OD1	1:Y:237:ASP:N	2.34	0.53
1:Y:699:GLN:HE21	1:o:301:ASN:HD22	1.57	0.53
1:d:699:GLN:HE21	1:j:301:ASN:HD22	1.57	0.53
1:i:301:ASN:HD22	1:w:699:GLN:HE21	1.56	0.53
1:x:587:ASN:ND2	3:xl:87:ARG:NH1	2.57	0.53
2:Bh:70:ILE:HD12	2:Bh:77:LYS:HG2	1.91	0.53
2:Ch:142:GLN:NE2	2:Ch:142:GLN:H	2.06	0.53
2:Hh:70:ILE:HD12	2:Hh:77:LYS:HG2	1.91	0.53
2:Lh:145:THR:O	2:Lh:145:THR:OG1	2.26	0.53
2:Oh:63:GLY:HA2	3:Ol:108:TYR:OH	2.07	0.53
2:Qh:39:LEU:HG	2:Qh:102:MET:CE	2.38	0.53
2:Uh:23:LEU:HD21	2:Uh:53:MET:HE1	1.89	0.53
2:Vh:142:GLN:NE2	2:Vh:142:GLN:H	2.06	0.53
2:2h:23:LEU:HD21	2:2h:53:MET:HE1	1.89	0.53
2:ah:142:GLN:H	2:ah:142:GLN:NE2	2.06	0.53
2:eh:70:ILE:HD12	2:eh:77:LYS:HG2	1.90	0.53
2:hh:39:LEU:HG	2:hh:102:MET:CE	2.38	0.53
2:jh:142:GLN:NE2	2:jh:142:GLN:H	2.06	0.53
2:mh:23:LEU:HD21	2:mh:53:MET:HE1	1.89	0.53
2:uh:70:ILE:HD12	2:uh:77:LYS:HG2	1.91	0.53
3:Dl:26:GLN:HB2	3:Dl:122:THR:OG1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Kl:49:ILE:HG23	3:Kl:87:ARG:HH21	1.73	0.53
3:Ll:26:GLN:HB2	3:Ll:122:THR:OG1	2.08	0.53
3:Nl:37:ARG:HG3	3:Nl:96:ILE:O	2.09	0.53
3:Tl:26:GLN:HB2	3:Tl:122:THR:OG1	2.08	0.53
3:Tl:49:ILE:HG23	3:Tl:87:ARG:HH21	1.72	0.53
3:Wl:107:TYR:HE2	3:Wl:126:VAL:HG22	1.64	0.53
3:3l:26:GLN:HB2	3:3l:122:THR:OG1	2.08	0.53
3:cl:37:ARG:HG3	3:cl:96:ILE:O	2.09	0.53
3:fl:49:ILE:HG23	3:fl:87:ARG:HH21	1.72	0.53
3:hl:37:ARG:HG3	3:hl:96:ILE:O	2.09	0.53
3:nl:26:GLN:HB2	3:nl:122:THR:OG1	2.08	0.53
3:ol:26:GLN:HB2	3:ol:122:THR:OG1	2.08	0.53
3:ul:26:GLN:HB2	3:ul:122:THR:OG1	2.08	0.53
1:C:489:SER:N	1:C:495:ASN:HD21	1.92	0.53
1:d:301:ASN:HD22	1:j:699:GLN:HE21	1.57	0.53
1:e:301:ASN:HD22	1:x:699:GLN:HE21	1.57	0.53
1:i:699:GLN:HE21	1:w:301:ASN:HD22	1.56	0.53
2:Eh:70:ILE:HD12	2:Eh:77:LYS:HG2	1.91	0.53
2:Lh:39:LEU:HG	2:Lh:102:MET:CE	2.38	0.53
2:Oh:70:ILE:HD12	2:Oh:77:LYS:HG2	1.91	0.53
2:3h:142:GLN:H	2:3h:142:GLN:NE2	2.07	0.53
2:4h:142:GLN:NE2	2:4h:142:GLN:H	2.07	0.53
2:5h:142:GLN:H	2:5h:142:GLN:NE2	2.07	0.53
2:fh:63:GLY:HA2	3:fl:108:TYR:OH	2.07	0.53
2:fh:70:ILE:HD12	2:fh:77:LYS:HG2	1.91	0.53
2:ph:142:GLN:H	2:ph:142:GLN:NE2	2.07	0.53
2:qh:70:ILE:HD12	2:qh:77:LYS:HG2	1.91	0.53
2:vh:23:LEU:HD21	2:vh:53:MET:HE1	1.89	0.53
2:wh:39:LEU:HG	2:wh:102:MET:CE	2.38	0.53
3:Al:26:GLN:HB2	3:Al:122:THR:OG1	2.08	0.53
3:Bl:26:GLN:HB2	3:Bl:122:THR:OG1	2.08	0.53
3:Hl:27:PRO:O	3:Hl:124:THR:OG1	2.22	0.53
3:Ol:49:ILE:HG23	3:Ol:87:ARG:HH21	1.72	0.53
3:Ql:37:ARG:HG3	3:Ql:96:ILE:O	2.09	0.53
3:Tl:37:ARG:HG3	3:Tl:96:ILE:O	2.09	0.53
3:4l:37:ARG:HG3	3:4l:96:ILE:O	2.09	0.53
3:5l:26:GLN:HB2	3:5l:122:THR:OG1	2.08	0.53
3:el:26:GLN:HB2	3:el:122:THR:OG1	2.08	0.53
3:jl:49:ILE:HG23	3:jl:87:ARG:HH21	1.72	0.53
3:ll:26:GLN:HB2	3:ll:122:THR:OG1	2.08	0.53
3:ql:37:ARG:HG3	3:ql:96:ILE:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:rl:37:ARG:HG3	3:rl:96:ILE:O	2.09	0.53
1:D:301:ASN:HD22	1:K:699:GLN:HE21	1.57	0.53
1:T:587:ASN:HB3	3:Tl:87:ARG:NH1	2.20	0.53
1:X:301:ASN:HD22	1:1:699:GLN:HE21	1.56	0.53
1:X:699:GLN:HE21	1:1:301:ASN:HD22	1.57	0.53
1:3:444:TYR:OH	1:3:469:ASP:OD2	2.21	0.53
1:3:587:ASN:CB	3:3l:87:ARG:HH12	2.19	0.53
1:5:444:TYR:OH	1:5:469:ASP:OD2	2.21	0.53
1:g:489:SER:N	1:g:495:ASN:HD21	1.92	0.53
1:i:353:VAL:H	1:i:645:GLN:HE22	1.54	0.53
1:i:587:ASN:ND2	3:il:87:ARG:NH1	2.57	0.53
1:m:489:SER:N	1:m:495:ASN:HD21	1.92	0.53
2:Gh:142:GLN:NE2	2:Gh:142:GLN:H	2.06	0.53
2:Jh:23:LEU:HD21	2:Jh:53:MET:HE1	1.89	0.53
2:Ph:142:GLN:H	2:Ph:142:GLN:NE2	2.06	0.53
2:Th:70:ILE:HD12	2:Th:77:LYS:HG2	1.91	0.53
2:Vh:70:ILE:HD12	2:Vh:77:LYS:HG2	1.91	0.53
2:Wh:70:ILE:HD12	2:Wh:77:LYS:HG2	1.90	0.53
2:Yh:52:GLY:O	2:Yh:118:ALA:N	2.25	0.53
2:Zh:70:ILE:HD12	2:Zh:77:LYS:HG2	1.91	0.53
2:1h:39:LEU:HG	2:1h:102:MET:CE	2.38	0.53
2:6h:23:LEU:HD21	2:6h:53:MET:HE1	1.89	0.53
2:eh:53:MET:CB	2:eh:98:LEU:HD22	2.34	0.53
2:gh:70:ILE:HD12	2:gh:77:LYS:HG2	1.91	0.53
2:th:39:LEU:HG	2:th:102:MET:CE	2.38	0.53
3:Dl:37:ARG:HG3	3:Dl:96:ILE:O	2.09	0.53
3:El:37:ARG:HG3	3:El:96:ILE:O	2.09	0.53
3:Il:26:GLN:HB2	3:Il:122:THR:OG1	2.08	0.53
3:Ql:26:GLN:HB2	3:Ql:122:THR:OG1	2.08	0.53
3:Sl:49:ILE:HG23	3:Sl:87:ARG:HH21	1.73	0.53
3:Vl:26:GLN:HB2	3:Vl:122:THR:OG1	2.08	0.53
3:Yl:37:ARG:HG3	3:Yl:96:ILE:O	2.09	0.53
3:el:37:ARG:HG3	3:el:96:ILE:O	2.09	0.53
3:gl:26:GLN:HB2	3:gl:122:THR:OG1	2.08	0.53
3:gl:37:ARG:HG3	3:gl:96:ILE:O	2.09	0.53
3:gl:49:ILE:HG23	3:gl:87:ARG:HH21	1.72	0.53
1:N:587:ASN:ND2	3:Nl:87:ARG:NH1	2.57	0.53
1:X:587:ASN:ND2	3:Xl:87:ARG:NH1	2.57	0.53
1:6:489:SER:N	1:6:495:ASN:HD21	1.92	0.53
1:c:587:ASN:ND2	3:cl:87:ARG:NH1	2.57	0.53
1:g:301:ASN:HD22	1:z:699:GLN:HE21	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:587:ASN:ND2	3:wl:87:ARG:NH1	2.57	0.53
1:w:587:ASN:HB3	3:wl:87:ARG:NH1	2.20	0.53
1:7:237:ASP:OD1	1:7:237:ASP:N	2.34	0.53
2:Dh:53:MET:CB	2:Dh:98:LEU:HD22	2.34	0.53
2:Th:53:MET:CB	2:Th:98:LEU:HD22	2.34	0.53
2:Wh:23:LEU:HD21	2:Wh:53:MET:HE1	1.89	0.53
2:1h:142:GLN:H	2:1h:142:GLN:NE2	2.07	0.53
2:2h:39:LEU:HG	2:2h:102:MET:CE	2.38	0.53
2:4h:23:LEU:HD21	2:4h:53:MET:HE1	1.89	0.53
2:5h:79:TYR:OH	2:5h:89:ILE:HG22	2.07	0.53
2:gh:53:MET:CB	2:gh:98:LEU:HD22	2.34	0.53
2:hh:142:GLN:H	2:hh:142:GLN:NE2	2.07	0.53
2:jh:70:ILE:HD12	2:jh:77:LYS:HG2	1.91	0.53
2:nh:142:GLN:NE2	2:nh:142:GLN:H	2.06	0.53
2:qh:53:MET:CB	2:qh:98:LEU:HD22	2.34	0.53
2:wh:142:GLN:H	2:wh:142:GLN:NE2	2.07	0.53
2:zh:23:LEU:HD21	2:zh:53:MET:HE1	1.89	0.53
2:7h:52:GLY:O	2:7h:118:ALA:N	2.25	0.53
2:8h:70:ILE:HD12	2:8h:77:LYS:HG2	1.91	0.53
3:Cl:37:ARG:HG3	3:Cl:96:ILE:O	2.09	0.53
3:Hl:26:GLN:HB2	3:Hl:122:THR:OG1	2.08	0.53
3:Ml:107:TYR:HE2	3:Ml:126:VAL:HG22	1.64	0.53
3:Sl:26:GLN:HB2	3:Sl:122:THR:OG1	2.08	0.53
3:Xl:27:PRO:O	3:Xl:124:THR:OG1	2.22	0.53
3:3l:49:ILE:HG23	3:3l:87:ARG:HH21	1.72	0.53
3:al:37:ARG:HG3	3:al:96:ILE:O	2.09	0.53
3:jl:26:GLN:HB2	3:jl:122:THR:OG1	2.08	0.53
3:rl:26:GLN:HB2	3:rl:122:THR:OG1	2.08	0.53
3:tl:26:GLN:HB2	3:tl:122:THR:OG1	2.08	0.53
3:ul:37:ARG:HG3	3:ul:96:ILE:O	2.09	0.53
3:7l:37:ARG:HG3	3:7l:96:ILE:O	2.09	0.53
1:A:470:ILE:HG22	1:3:270:ASN:HA	1.89	0.53
1:T:301:ASN:HD22	1:W:699:GLN:HE21	1.57	0.53
1:V:587:ASN:ND2	3:Vl:87:ARG:NH1	2.57	0.53
1:X:353:VAL:H	1:X:645:GLN:HE22	1.54	0.53
1:a:489:SER:N	1:a:495:ASN:HD21	1.92	0.53
1:b:587:ASN:HB3	3:bl:87:ARG:NH1	2.20	0.53
1:r:353:VAL:H	1:r:645:GLN:HE22	1.54	0.53
1:s:587:ASN:HB3	3:sl:87:ARG:NH1	2.19	0.53
2:Bh:39:LEU:HG	2:Bh:102:MET:CE	2.38	0.53
2:Kh:53:MET:HB3	2:Kh:98:LEU:CD2	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Lh:142:GLN:H	2:Lh:142:GLN:NE2	2.06	0.53
2:Oh:88:THR:HG22	2:Oh:101:GLN:HE22	1.38	0.53
2:Ph:53:MET:CB	2:Ph:98:LEU:HD22	2.34	0.53
2:Vh:39:LEU:HG	2:Vh:102:MET:CE	2.38	0.53
2:Yh:39:LEU:HG	2:Yh:102:MET:CE	2.38	0.53
2:dh:142:GLN:H	2:dh:142:GLN:NE2	2.07	0.53
2:fh:39:LEU:HG	2:fh:102:MET:CE	2.38	0.53
2:hh:23:LEU:HD21	2:hh:53:MET:HE1	1.89	0.53
2:jh:39:LEU:HG	2:jh:102:MET:CE	2.38	0.53
2:ph:53:MET:CB	2:ph:98:LEU:HD22	2.34	0.53
2:ph:145:THR:O	2:ph:145:THR:OG1	2.26	0.53
2:uh:39:LEU:HG	2:uh:102:MET:CE	2.38	0.53
2:zh:70:ILE:HD12	2:zh:77:LYS:HG2	1.91	0.53
2:7h:39:LEU:HG	2:7h:102:MET:CE	2.38	0.53
3:Al:104:GLU:HG3	3:Al:127:THR:N	2.24	0.53
3:Bl:37:ARG:HG3	3:Bl:96:ILE:O	2.09	0.53
3:Vl:49:ILE:HG23	3:Vl:87:ARG:HH21	1.72	0.53
3:3l:37:ARG:HG3	3:3l:96:ILE:O	2.09	0.53
3:5l:37:ARG:HG3	3:5l:96:ILE:O	2.09	0.53
3:pl:104:GLU:HG3	3:pl:127:THR:N	2.24	0.53
3:yl:26:GLN:HB2	3:yl:122:THR:OG1	2.08	0.53
1:B:699:GLN:HE21	1:R:301:ASN:HD22	1.57	0.53
1:C:301:ASN:HD22	1:H:699:GLN:HE21	1.57	0.53
1:D:699:GLN:HE21	1:K:301:ASN:HD22	1.57	0.53
1:Q:301:ASN:HD22	1:c:699:GLN:HE21	1.57	0.53
1:Q:353:VAL:H	1:Q:645:GLN:HE22	1.54	0.53
1:T:587:ASN:ND2	3:Tl:87:ARG:NH1	2.57	0.53
1:U:489:SER:N	1:U:495:ASN:HD21	1.92	0.53
1:V:489:SER:N	1:V:495:ASN:HD21	1.92	0.53
1:X:444:TYR:OH	1:X:469:ASP:OD2	2.21	0.53
1:4:587:ASN:ND2	3:4l:87:ARG:NH1	2.57	0.53
1:a:301:ASN:HD22	1:y:699:GLN:HE21	1.57	0.53
1:e:587:ASN:HB3	3:el:87:ARG:NH1	2.20	0.53
1:e:699:GLN:HE21	1:x:301:ASN:HD22	1.57	0.53
1:i:489:SER:N	1:i:495:ASN:HD21	1.92	0.53
1:j:587:ASN:ND2	3:jl:87:ARG:NH1	2.57	0.53
1:q:587:ASN:ND2	3:ql:87:ARG:NH1	2.57	0.53
2:Fh:23:LEU:HD21	2:Fh:53:MET:HE1	1.89	0.53
2:Oh:39:LEU:HG	2:Oh:102:MET:CE	2.38	0.53
2:Ph:39:LEU:HG	2:Ph:102:MET:CE	2.38	0.53
2:3h:79:TYR:OH	2:3h:89:ILE:HG22	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:6h:39:LEU:HG	2:6h:102:MET:CE	2.38	0.53
2:dh:53:MET:CB	2:dh:98:LEU:HD22	2.34	0.53
2:nh:53:MET:CB	2:nh:98:LEU:HD22	2.34	0.53
2:sh:23:LEU:HD21	2:sh:53:MET:HE1	1.89	0.53
3:Fl:37:ARG:HG3	3:Fl:96:ILE:O	2.09	0.53
3:Zl:104:GLU:HG3	3:Zl:127:THR:N	2.24	0.53
3:cl:26:GLN:HB2	3:cl:122:THR:OG1	2.08	0.53
3:ml:26:GLN:HB2	3:ml:122:THR:OG1	2.08	0.53
3:nl:37:ARG:HG3	3:nl:96:ILE:O	2.09	0.53
3:yl:27:PRO:O	3:yl:124:THR:OG1	2.22	0.53
3:zl:107:TYR:HE2	3:zl:126:VAL:HG22	1.64	0.53
3:8l:104:GLU:HG3	3:8l:127:THR:N	2.24	0.53
1:D:587:ASN:HB3	3:Dl:87:ARG:NH1	2.20	0.53
1:D:710:VAL:O	1:D:713:THR:OG1	2.25	0.53
1:E:587:ASN:ND2	3:El:87:ARG:NH1	2.57	0.53
1:F:587:ASN:HB3	3:Fl:87:ARG:NH1	2.19	0.53
1:N:301:ASN:HD22	1:r:699:GLN:HE21	1.57	0.53
1:N:699:GLN:HE21	1:r:301:ASN:HD22	1.57	0.53
1:2:489:SER:N	1:2:495:ASN:HD21	1.92	0.53
1:d:587:ASN:ND2	3:dl:87:ARG:NH1	2.57	0.53
1:e:710:VAL:O	1:e:713:THR:OG1	2.25	0.53
1:g:587:ASN:ND2	3:gl:87:ARG:NH1	2.57	0.53
1:h:587:ASN:ND2	3:hl:87:ARG:NH1	2.57	0.53
1:k:301:ASN:HD22	1:u:699:GLN:HE21	1.57	0.53
1:o:353:VAL:H	1:o:645:GLN:NE2	2.07	0.53
2:Ah:53:MET:CB	2:Ah:98:LEU:HD22	2.34	0.53
2:Kh:57:ARG:CD	2:Kh:113:TYR:CZ	2.93	0.53
2:Mh:142:GLN:H	2:Mh:142:GLN:NE2	2.06	0.53
2:Oh:142:GLN:NE2	2:Oh:142:GLN:H	2.06	0.53
2:Yh:142:GLN:H	2:Yh:142:GLN:NE2	2.06	0.53
2:6h:142:GLN:H	2:6h:142:GLN:NE2	2.07	0.53
2:dh:70:ILE:HD12	2:dh:77:LYS:HG2	1.90	0.53
2:lh:70:ILE:HD12	2:lh:77:LYS:HG2	1.91	0.53
2:ph:70:ILE:HD12	2:ph:77:LYS:HG2	1.91	0.53
2:th:142:GLN:H	2:th:142:GLN:NE2	2.06	0.53
2:vh:39:LEU:HG	2:vh:102:MET:CE	2.38	0.53
2:xh:70:ILE:HD12	2:xh:77:LYS:HG2	1.91	0.53
3:Cl:104:GLU:HG3	3:Cl:127:THR:N	2.24	0.53
3:Gl:37:ARG:HG3	3:Gl:96:ILE:O	2.09	0.53
3:Il:104:GLU:HG3	3:Il:127:THR:N	2.24	0.53
3:Ml:26:GLN:HB2	3:Ml:122:THR:OG1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ml:37:ARG:HG3	3:Ml:96:ILE:O	2.09	0.53
3:Sl:104:GLU:HG3	3:Sl:127:THR:N	2.24	0.53
3:Ul:26:GLN:HB2	3:Ul:122:THR:OG1	2.08	0.53
3:5l:49:ILE:HG23	3:5l:87:ARG:HH21	1.72	0.53
3:al:104:GLU:HG3	3:al:127:THR:N	2.24	0.53
3:ll:104:GLU:HG3	3:ll:127:THR:N	2.24	0.53
3:ol:104:GLU:HG3	3:ol:127:THR:N	2.24	0.53
3:sl:37:ARG:HG3	3:sl:96:ILE:O	2.09	0.53
1:C:699:GLN:HE21	1:H:301:ASN:HD22	1.57	0.52
1:I:353:VAL:H	1:I:645:GLN:NE2	2.07	0.52
1:P:587:ASN:ND2	3:Pl:87:ARG:NH1	2.57	0.52
1:Q:353:VAL:H	1:Q:645:GLN:NE2	2.07	0.52
1:Q:699:GLN:HE21	1:c:301:ASN:HD22	1.57	0.52
1:W:587:ASN:ND2	3:Wl:87:ARG:NH1	2.57	0.52
1:3:587:ASN:ND2	3:3l:87:ARG:NH1	2.56	0.52
1:5:301:ASN:HD22	1:q:699:GLN:HE21	1.57	0.52
1:o:353:VAL:H	1:o:645:GLN:HE22	1.54	0.52
1:o:587:ASN:HB3	3:ol:87:ARG:NH1	2.20	0.52
1:r:353:VAL:H	1:r:645:GLN:NE2	2.07	0.52
1:z:353:VAL:H	1:z:645:GLN:NE2	2.07	0.52
2:Ah:70:ILE:HD12	2:Ah:77:LYS:HG2	1.91	0.52
2:Ah:145:THR:O	2:Ah:145:THR:OG1	2.26	0.52
2:Ch:57:ARG:CD	2:Ch:113:TYR:CZ	2.93	0.52
2:Eh:53:MET:CB	2:Eh:98:LEU:HD22	2.34	0.52
2:Jh:39:LEU:HG	2:Jh:102:MET:CE	2.38	0.52
2:Jh:70:ILE:HD12	2:Jh:77:LYS:HG2	1.91	0.52
2:Kh:70:ILE:HD12	2:Kh:77:LYS:HG2	1.91	0.52
2:Kh:142:GLN:NE2	2:Kh:142:GLN:H	2.06	0.52
2:Mh:52:GLY:O	2:Mh:118:ALA:N	2.25	0.52
2:Sh:70:ILE:HD12	2:Sh:77:LYS:HG2	1.91	0.52
2:2h:142:GLN:H	2:2h:142:GLN:NE2	2.07	0.52
2:4h:70:ILE:HD12	2:4h:77:LYS:HG2	1.91	0.52
2:ah:57:ARG:CD	2:ah:113:TYR:CZ	2.93	0.52
2:bh:52:GLY:O	2:bh:118:ALA:N	2.25	0.52
2:bh:142:GLN:NE2	2:bh:142:GLN:H	2.06	0.52
2:dh:39:LEU:HG	2:dh:102:MET:CE	2.38	0.52
2:fh:142:GLN:NE2	2:fh:142:GLN:H	2.06	0.52
2:gh:57:ARG:CD	2:gh:113:TYR:CZ	2.93	0.52
2:ih:70:ILE:HD12	2:ih:77:LYS:HG2	1.90	0.52
2:sh:142:GLN:H	2:sh:142:GLN:NE2	2.06	0.52
2:vh:70:ILE:HD12	2:vh:77:LYS:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:xh:57:ARG:CD	2:xh:113:TYR:CZ	2.93	0.52
2:7h:142:GLN:NE2	2:7h:142:GLN:H	2.07	0.52
3:Fl:26:GLN:HB2	3:Fl:122:THR:OG1	2.08	0.52
3:Nl:26:GLN:HB2	3:Nl:122:THR:OG1	2.08	0.52
3:2l:37:ARG:HG3	3:2l:96:ILE:O	2.09	0.52
3:6l:37:ARG:HG3	3:6l:96:ILE:O	2.09	0.52
3:bl:37:ARG:HG3	3:bl:96:ILE:O	2.09	0.52
3:sl:26:GLN:HB2	3:sl:122:THR:OG1	2.08	0.52
3:ul:49:ILE:HG23	3:ul:87:ARG:HH21	1.73	0.52
1:E:699:GLN:HE21	1:3:301:ASN:HD22	1.57	0.52
1:I:353:VAL:H	1:I:645:GLN:HE22	1.54	0.52
1:X:353:VAL:H	1:X:645:GLN:NE2	2.08	0.52
1:X:489:SER:N	1:X:495:ASN:HD21	1.92	0.52
1:3:353:VAL:H	1:3:645:GLN:NE2	2.08	0.52
1:a:699:GLN:HE21	1:y:301:ASN:HD22	1.57	0.52
1:j:489:SER:N	1:j:495:ASN:HD21	1.92	0.52
1:j:710:VAL:O	1:j:713:THR:OG1	2.25	0.52
1:k:587:ASN:ND2	3:kl:87:ARG:NH1	2.58	0.52
1:m:587:ASN:CB	3:ml:87:ARG:HH12	2.19	0.52
2:Ch:52:GLY:O	2:Ch:118:ALA:N	2.25	0.52
2:Fh:142:GLN:H	2:Fh:142:GLN:NE2	2.07	0.52
2:Ph:70:ILE:HD12	2:Ph:77:LYS:HG2	1.91	0.52
2:Th:57:ARG:CD	2:Th:113:TYR:CZ	2.93	0.52
2:Xh:70:ILE:HD12	2:Xh:77:LYS:HG2	1.90	0.52
2:ch:70:ILE:HD12	2:ch:77:LYS:HG2	1.90	0.52
2:fh:88:THR:HG22	2:fh:101:GLN:HE22	1.38	0.52
2:wh:57:ARG:CD	2:wh:113:TYR:CZ	2.93	0.52
2:xh:142:GLN:H	2:xh:142:GLN:NE2	2.06	0.52
3:Bl:49:ILE:HG23	3:Bl:87:ARG:HH21	1.73	0.52
3:Gl:104:GLU:HG3	3:Gl:127:THR:N	2.24	0.52
3:Nl:104:GLU:HG3	3:Nl:127:THR:N	2.24	0.52
3:Pl:37:ARG:HG3	3:Pl:96:ILE:O	2.09	0.52
3:Pl:104:GLU:HG3	3:Pl:127:THR:N	2.24	0.52
3:Vl:104:GLU:HG3	3:Vl:127:THR:N	2.24	0.52
3:Wl:37:ARG:HG3	3:Wl:96:ILE:O	2.09	0.52
3:Wl:104:GLU:HG3	3:Wl:127:THR:N	2.24	0.52
3:6l:104:GLU:HG3	3:6l:127:THR:N	2.24	0.52
3:bl:26:GLN:HB2	3:bl:122:THR:OG1	2.08	0.52
3:dl:104:GLU:HG3	3:dl:127:THR:N	2.24	0.52
3:hl:104:GLU:HG3	3:hl:127:THR:N	2.24	0.52
3:nl:104:GLU:HG3	3:nl:127:THR:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:zl:37:ARG:HG3	3:zl:96:ILE:O	2.09	0.52
1:C:353:VAL:H	1:C:645:GLN:NE2	2.08	0.52
1:R:587:ASN:ND2	3:Rl:87:ARG:NH1	2.58	0.52
1:U:587:ASN:CB	3:Ul:87:ARG:HH12	2.19	0.52
1:W:353:VAL:H	1:W:645:GLN:NE2	2.08	0.52
1:2:587:ASN:ND2	3:2l:87:ARG:NH1	2.57	0.52
1:a:353:VAL:H	1:a:645:GLN:NE2	2.08	0.52
1:c:353:VAL:H	1:c:645:GLN:NE2	2.07	0.52
1:i:353:VAL:H	1:i:645:GLN:NE2	2.08	0.52
1:o:587:ASN:ND2	3:ol:87:ARG:NH1	2.57	0.52
1:y:587:ASN:ND2	3:yl:87:ARG:NH1	2.57	0.52
2:Fh:39:LEU:HG	2:Fh:102:MET:CE	2.38	0.52
2:Gh:53:MET:CB	2:Gh:98:LEU:HD22	2.34	0.52
2:Nh:70:ILE:HD12	2:Nh:77:LYS:HG2	1.91	0.52
2:Rh:53:MET:CB	2:Rh:98:LEU:HD22	2.34	0.52
2:Sh:142:GLN:H	2:Sh:142:GLN:NE2	2.06	0.52
2:1h:57:ARG:CD	2:1h:113:TYR:CZ	2.93	0.52
2:hh:70:ILE:HD12	2:hh:77:LYS:HG2	1.91	0.52
2:kh:53:MET:CB	2:kh:98:LEU:HD22	2.34	0.52
2:lh:142:GLN:H	2:lh:142:GLN:NE2	2.06	0.52
2:sh:53:MET:CB	2:sh:98:LEU:HD22	2.34	0.52
2:vh:81:ASP:CA	2:vh:84:LYS:HE3	2.32	0.52
2:yh:57:ARG:CD	2:yh:113:TYR:CZ	2.93	0.52
3:Bl:104:GLU:HG3	3:Bl:127:THR:N	2.24	0.52
3:Dl:104:GLU:HG3	3:Dl:127:THR:N	2.24	0.52
3:Rl:37:ARG:HG3	3:Rl:96:ILE:O	2.09	0.52
3:Rl:104:GLU:HG3	3:Rl:127:THR:N	2.24	0.52
3:2l:104:GLU:HG3	3:2l:127:THR:N	2.24	0.52
3:4l:104:GLU:HG3	3:4l:127:THR:N	2.24	0.52
3:bl:104:GLU:HG3	3:bl:127:THR:N	2.24	0.52
3:cl:104:GLU:HG3	3:cl:127:THR:N	2.24	0.52
3:el:104:GLU:HG3	3:el:127:THR:N	2.24	0.52
3:jl:104:GLU:HG3	3:jl:127:THR:N	2.24	0.52
3:wl:26:GLN:HB2	3:wl:122:THR:OG1	2.08	0.52
3:zl:104:GLU:HG3	3:zl:127:THR:N	2.24	0.52
1:E:301:ASN:HD22	1:3:699:GLN:HE21	1.56	0.52
1:I:587:ASN:ND2	3:Il:87:ARG:NH1	2.57	0.52
1:N:353:VAL:H	1:N:645:GLN:NE2	2.07	0.52
1:O:710:VAL:O	1:O:713:THR:OG1	2.25	0.52
1:U:353:VAL:H	1:U:645:GLN:NE2	2.08	0.52
1:5:353:VAL:H	1:5:645:GLN:NE2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:587:ASN:ND2	3:5l:87:ARG:NH1	2.57	0.52
1:c:489:SER:N	1:c:495:ASN:HD21	1.92	0.52
1:e:353:VAL:H	1:e:645:GLN:NE2	2.07	0.52
1:e:587:ASN:ND2	3:el:87:ARG:NH1	2.57	0.52
1:m:353:VAL:H	1:m:645:GLN:NE2	2.08	0.52
1:r:587:ASN:ND2	3:rl:87:ARG:NH1	2.57	0.52
1:z:587:ASN:ND2	3:zl:87:ARG:NH1	2.57	0.52
1:7:353:VAL:H	1:7:645:GLN:NE2	2.07	0.52
2:Dh:57:ARG:CD	2:Dh:113:TYR:CZ	2.93	0.52
2:Hh:57:ARG:CD	2:Hh:113:TYR:CZ	2.93	0.52
2:Qh:70:ILE:HD12	2:Qh:77:LYS:HG2	1.91	0.52
2:Th:145:THR:O	2:Th:145:THR:OG1	2.26	0.52
2:Yh:145:THR:O	2:Yh:145:THR:OG1	2.26	0.52
2:3h:145:THR:O	2:3h:145:THR:OG1	2.26	0.52
2:6h:70:ILE:HD12	2:6h:77:LYS:HG2	1.91	0.52
2:eh:57:ARG:CD	2:eh:113:TYR:CZ	2.93	0.52
2:ih:142:GLN:H	2:ih:142:GLN:NE2	2.06	0.52
2:sh:39:LEU:HG	2:sh:102:MET:CE	2.38	0.52
2:uh:142:GLN:NE2	2:uh:142:GLN:H	2.06	0.52
3:Fl:27:PRO:O	3:Fl:124:THR:OG1	2.22	0.52
3:Hl:37:ARG:HG3	3:Hl:96:ILE:O	2.09	0.52
3:Hl:104:GLU:HG3	3:Hl:127:THR:N	2.24	0.52
3:Ml:104:GLU:HG3	3:Ml:127:THR:N	2.24	0.52
3:dl:37:ARG:HG3	3:dl:96:ILE:O	2.09	0.52
3:fl:104:GLU:HG3	3:fl:127:THR:N	2.24	0.52
3:il:37:ARG:HG3	3:il:96:ILE:O	2.09	0.52
3:kl:37:ARG:HG3	3:kl:96:ILE:O	2.09	0.52
3:kl:104:GLU:HG3	3:kl:127:THR:N	2.24	0.52
3:ol:37:ARG:HG3	3:ol:96:ILE:O	2.09	0.52
3:ul:104:GLU:HG3	3:ul:127:THR:N	2.24	0.52
3:yl:37:ARG:HG3	3:yl:96:ILE:O	2.09	0.52
3:yl:104:GLU:HG3	3:yl:127:THR:N	2.24	0.52
1:D:353:VAL:H	1:D:645:GLN:NE2	2.07	0.52
1:D:587:ASN:ND2	3:Dl:87:ARG:NH1	2.57	0.52
1:G:587:ASN:ND2	3:Gl:87:ARG:NH1	2.57	0.52
1:H:587:ASN:ND2	3:Hl:87:ARG:NH1	2.57	0.52
1:I:587:ASN:HB3	3:Il:87:ARG:NH1	2.20	0.52
1:M:353:VAL:H	1:M:645:GLN:NE2	2.08	0.52
1:M:699:GLN:HE21	1:4:301:ASN:HD22	1.56	0.52
1:V:710:VAL:O	1:V:713:THR:OG1	2.25	0.52
1:Y:353:VAL:H	1:Y:645:GLN:NE2	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:699:GLN:HE21	1:n:301:ASN:HD22	1.56	0.52
1:6:353:VAL:H	1:6:645:GLN:NE2	2.08	0.52
1:b:699:GLN:HE21	1:h:301:ASN:HD22	1.56	0.52
1:t:489:SER:N	1:t:495:ASN:HD21	1.92	0.52
1:8:587:ASN:ND2	3:8l:87:ARG:NH1	2.57	0.52
2:Hh:81:ASP:HA	2:Hh:84:LYS:CE	2.37	0.52
2:Jh:81:ASP:CA	2:Jh:84:LYS:HE3	2.32	0.52
2:Qh:142:GLN:H	2:Qh:142:GLN:NE2	2.06	0.52
2:Xh:142:GLN:H	2:Xh:142:GLN:NE2	2.06	0.52
2:2h:70:ILE:HD12	2:2h:77:LYS:HG2	1.91	0.52
2:lh:145:THR:O	2:lh:145:THR:OG1	2.26	0.52
2:rh:57:ARG:CD	2:rh:113:TYR:CZ	2.93	0.52
2:rh:70:ILE:HD12	2:rh:77:LYS:HG2	1.91	0.52
2:rh:142:GLN:H	2:rh:142:GLN:NE2	2.06	0.52
3:Il:37:ARG:HG3	3:Il:96:ILE:O	2.09	0.52
3:Jl:104:GLU:HG3	3:Jl:127:THR:N	2.24	0.52
3:Ol:104:GLU:HG3	3:Ol:127:THR:N	2.24	0.52
3:Rl:125:LYS:N	3:Rl:125:LYS:CD	2.73	0.52
3:Yl:104:GLU:HG3	3:Yl:127:THR:N	2.24	0.52
3:fl:37:ARG:HG3	3:fl:96:ILE:O	2.09	0.52
3:kl:125:LYS:N	3:kl:125:LYS:CD	2.73	0.52
3:pl:37:ARG:HG3	3:pl:96:ILE:O	2.09	0.52
3:sl:104:GLU:HG3	3:sl:127:THR:N	2.24	0.52
1:K:353:VAL:H	1:K:645:GLN:NE2	2.07	0.52
1:Q:587:ASN:ND2	3:Ql:87:ARG:NH1	2.57	0.52
1:S:587:ASN:ND2	3:Sl:87:ARG:NH1	2.57	0.52
1:U:699:GLN:HE21	1:t:301:ASN:HD22	1.57	0.52
1:Y:301:ASN:HD22	1:o:699:GLN:HE21	1.57	0.52
1:2:353:VAL:H	1:2:645:GLN:NE2	2.08	0.52
1:b:353:VAL:H	1:b:645:GLN:NE2	2.08	0.52
1:l:587:ASN:ND2	3:ll:87:ARG:NH1	2.57	0.52
1:s:237:ASP:OD1	1:s:237:ASP:N	2.34	0.52
1:x:353:VAL:H	1:x:645:GLN:NE2	2.07	0.52
2:Ah:57:ARG:CD	2:Ah:113:TYR:CZ	2.93	0.52
2:Bh:142:GLN:H	2:Bh:142:GLN:NE2	2.06	0.52
2:Eh:57:ARG:CD	2:Eh:113:TYR:CZ	2.93	0.52
2:Fh:53:MET:CB	2:Fh:98:LEU:HD22	2.34	0.52
2:Gh:57:ARG:CD	2:Gh:113:TYR:CZ	2.93	0.52
2:Ih:57:ARG:CD	2:Ih:113:TYR:CZ	2.93	0.52
2:Jh:57:ARG:CD	2:Jh:113:TYR:CZ	2.93	0.52
2:Qh:57:ARG:CD	2:Qh:113:TYR:CZ	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1h:53:MET:CB	2:1h:98:LEU:HD22	2.33	0.52
2:5h:145:THR:O	2:5h:145:THR:OG1	2.26	0.52
2:dh:57:ARG:CD	2:dh:113:TYR:CZ	2.93	0.52
2:gh:145:THR:O	2:gh:145:THR:OG1	2.26	0.52
2:nh:57:ARG:CD	2:nh:113:TYR:CZ	2.93	0.52
2:qh:57:ARG:CD	2:qh:113:TYR:CZ	2.93	0.52
3:Al:37:ARG:HG3	3:Al:96:ILE:O	2.09	0.52
3:Fl:104:GLU:HG3	3:Fl:127:THR:N	2.24	0.52
3:Kl:37:ARG:HG3	3:Kl:96:ILE:O	2.09	0.52
3:Kl:104:GLU:HG3	3:Kl:127:THR:N	2.24	0.52
3:Xl:37:ARG:HG3	3:Xl:96:ILE:O	2.09	0.52
3:Yl:125:LYS:N	3:Yl:125:LYS:CD	2.73	0.52
3:1l:26:GLN:HB2	3:1l:122:THR:OG1	2.08	0.52
3:5l:42:CYS:O	3:5l:91:SER:HB2	2.10	0.52
3:pl:42:CYS:O	3:pl:91:SER:HB2	2.10	0.52
3:vl:104:GLU:HG3	3:vl:127:THR:N	2.24	0.52
3:wl:104:GLU:HG3	3:wl:127:THR:N	2.24	0.52
3:7l:104:GLU:HG3	3:7l:127:THR:N	2.24	0.52
3:7l:125:LYS:N	3:7l:125:LYS:CD	2.73	0.52
1:A:587:ASN:HD22	3:Al:87:ARG:HH12	1.56	0.52
1:B:587:ASN:ND2	3:Bl:87:ARG:NH1	2.58	0.52
1:C:587:ASN:CB	3:Cl:87:ARG:HH12	2.19	0.52
1:C:587:ASN:HB3	3:Cl:87:ARG:NH1	2.20	0.52
1:O:489:SER:N	1:O:495:ASN:HD21	1.92	0.52
1:S:353:VAL:H	1:S:645:GLN:NE2	2.08	0.52
1:Z:587:ASN:ND2	3:Zl:87:ARG:NH1	2.57	0.52
1:5:699:GLN:HE21	1:q:301:ASN:HD22	1.56	0.52
1:a:587:ASN:HB3	3:al:87:ARG:NH1	2.20	0.52
1:q:444:TYR:OH	1:q:469:ASP:OD2	2.21	0.52
1:u:353:VAL:H	1:u:645:GLN:NE2	2.08	0.52
2:Dh:81:ASP:HA	2:Dh:84:LYS:CE	2.37	0.52
2:Fh:70:ILE:HD12	2:Fh:77:LYS:HG2	1.91	0.52
2:Nh:57:ARG:CD	2:Nh:113:TYR:CZ	2.93	0.52
2:Ph:57:ARG:CD	2:Ph:113:TYR:CZ	2.93	0.52
2:Sh:57:ARG:CD	2:Sh:113:TYR:CZ	2.93	0.52
2:Sh:145:THR:O	2:Sh:145:THR:OG1	2.26	0.52
2:Vh:88:THR:HG22	2:Vh:101:GLN:HE22	1.38	0.52
2:2h:57:ARG:CD	2:2h:113:TYR:CZ	2.93	0.52
2:4h:53:MET:CB	2:4h:98:LEU:HD22	2.34	0.52
2:ah:52:GLY:O	2:ah:118:ALA:N	2.25	0.52
2:ch:57:ARG:CD	2:ch:113:TYR:CZ	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eh:81:ASP:HA	2:eh:84:LYS:CE	2.37	0.52
2:lh:57:ARG:CD	2:lh:113:TYR:CZ	2.93	0.52
2:oh:57:ARG:CD	2:oh:113:TYR:CZ	2.93	0.52
2:ph:57:ARG:CD	2:ph:113:TYR:CZ	2.93	0.52
2:rh:31:VAL:HG22	2:rh:35:ARG:HB3	1.92	0.52
2:vh:57:ARG:CD	2:vh:113:TYR:CZ	2.93	0.52
3:Al:42:CYS:O	3:Al:91:SER:HB2	2.10	0.52
3:Cl:42:CYS:O	3:Cl:91:SER:HB2	2.10	0.52
3:Ol:37:ARG:HG3	3:Ol:96:ILE:O	2.09	0.52
3:Ql:104:GLU:HG3	3:Ql:127:THR:N	2.24	0.52
3:Tl:42:CYS:O	3:Tl:91:SER:HB2	2.10	0.52
3:1l:42:CYS:O	3:1l:91:SER:HB2	2.10	0.52
3:3l:42:CYS:O	3:3l:91:SER:HB2	2.10	0.52
3:al:42:CYS:O	3:al:91:SER:HB2	2.10	0.52
3:gl:42:CYS:O	3:gl:91:SER:HB2	2.10	0.52
3:ql:104:GLU:HG3	3:ql:127:THR:N	2.24	0.52
3:tl:37:ARG:HG3	3:tl:96:ILE:O	2.09	0.52
3:wl:42:CYS:O	3:wl:91:SER:HB2	2.10	0.52
3:xl:37:ARG:HG3	3:xl:96:ILE:O	2.09	0.52
3:yl:125:LYS:N	3:yl:125:LYS:CD	2.73	0.52
1:B:301:ASN:HD22	1:R:699:GLN:HE21	1.57	0.52
1:B:353:VAL:H	1:B:645:GLN:NE2	2.08	0.52
1:F:237:ASP:OD1	1:F:237:ASP:N	2.34	0.52
1:I:699:GLN:HE21	1:7:301:ASN:HD22	1.57	0.52
1:L:301:ASN:HD22	1:m:699:GLN:HE21	1.57	0.52
1:2:710:VAL:O	1:2:713:THR:OG1	2.25	0.52
1:6:587:ASN:ND2	3:6l:87:ARG:NH1	2.57	0.52
1:l:353:VAL:H	1:l:645:GLN:NE2	2.08	0.52
1:o:444:TYR:OH	1:o:469:ASP:OD2	2.21	0.52
1:u:587:ASN:ND2	3:ul:87:ARG:NH1	2.58	0.52
1:w:353:VAL:H	1:w:645:GLN:NE2	2.08	0.52
1:7:587:ASN:ND2	3:7l:87:ARG:NH1	2.57	0.52
2:Nh:142:GLN:H	2:Nh:142:GLN:NE2	2.06	0.52
2:Qh:31:VAL:HG22	2:Qh:35:ARG:HB3	1.92	0.52
2:Sh:53:MET:HB3	2:Sh:98:LEU:CD2	2.35	0.52
2:3h:57:ARG:CD	2:3h:113:TYR:CZ	2.93	0.52
2:5h:31:VAL:HG22	2:5h:35:ARG:HB3	1.92	0.52
2:6h:57:ARG:CD	2:6h:113:TYR:CZ	2.93	0.52
2:kh:145:THR:O	2:kh:145:THR:OG1	2.26	0.52
2:sh:70:ILE:HD12	2:sh:77:LYS:HG2	1.91	0.52
2:wh:53:MET:CB	2:wh:98:LEU:HD22	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:El:104:GLU:HG3	3:El:127:THR:N	2.24	0.52
3:Hl:125:LYS:N	3:Hl:125:LYS:CD	2.73	0.52
3:Kl:42:CYS:O	3:Kl:91:SER:HB2	2.10	0.52
3:Ll:37:ARG:HG3	3:Ll:96:ILE:O	2.09	0.52
3:Vl:37:ARG:HG3	3:Vl:96:ILE:O	2.09	0.52
3:1l:104:GLU:HG3	3:1l:127:THR:N	2.24	0.52
3:ml:104:GLU:HG3	3:ml:127:THR:N	2.24	0.52
3:ql:27:PRO:O	3:ql:124:THR:OG1	2.22	0.52
3:rl:104:GLU:HG3	3:rl:127:THR:N	2.24	0.52
3:tl:107:TYR:HE2	3:tl:126:VAL:HG22	1.64	0.52
3:vl:33:THR:CG2	3:vl:34:PRO:HD2	2.31	0.52
3:xl:42:CYS:O	3:xl:91:SER:HB2	2.10	0.52
1:N:489:SER:N	1:N:495:ASN:HD21	1.92	0.52
1:Y:587:ASN:ND2	3:Yl:87:ARG:NH1	2.57	0.52
1:1:353:VAL:H	1:1:645:GLN:NE2	2.08	0.52
1:f:489:SER:N	1:f:495:ASN:HD21	1.92	0.52
1:k:699:GLN:HE21	1:u:301:ASN:HD22	1.57	0.52
1:s:489:SER:N	1:s:495:ASN:HD21	1.92	0.52
2:Eh:31:VAL:HG22	2:Eh:35:ARG:HB3	1.92	0.52
2:Lh:70:ILE:HD12	2:Lh:77:LYS:HG2	1.91	0.52
2:Oh:52:GLY:O	2:Oh:118:ALA:N	2.25	0.52
2:Vh:52:GLY:O	2:Vh:118:ALA:N	2.25	0.52
2:3h:31:VAL:HG22	2:3h:35:ARG:HB3	1.92	0.52
2:5h:57:ARG:CD	2:5h:113:TYR:CZ	2.93	0.52
2:ch:142:GLN:H	2:ch:142:GLN:NE2	2.07	0.52
2:fh:52:GLY:O	2:fh:118:ALA:N	2.25	0.52
2:hh:53:MET:CB	2:hh:98:LEU:HD22	2.34	0.52
2:qh:31:VAL:HG22	2:qh:35:ARG:HB3	1.92	0.52
2:qh:145:THR:O	2:qh:145:THR:OG1	2.26	0.52
2:zh:31:VAL:HG22	2:zh:35:ARG:HB3	1.92	0.52
3:Fl:42:CYS:O	3:Fl:91:SER:HB2	2.10	0.52
3:Ll:42:CYS:O	3:Ll:91:SER:HB2	2.10	0.52
3:Ul:104:GLU:HG3	3:Ul:127:THR:N	2.24	0.52
3:Yl:50:GLY:H	3:Yl:87:ARG:NH2	2.08	0.52
3:3l:125:LYS:N	3:3l:125:LYS:CD	2.73	0.52
3:4l:42:CYS:O	3:4l:91:SER:HB2	2.10	0.52
3:il:42:CYS:O	3:il:91:SER:HB2	2.10	0.52
3:jl:42:CYS:O	3:jl:91:SER:HB2	2.10	0.52
3:tl:42:CYS:O	3:tl:91:SER:HB2	2.10	0.52
3:xl:104:GLU:HG3	3:xl:127:THR:N	2.24	0.52
3:yl:42:CYS:O	3:yl:91:SER:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8l:37:ARG:HG3	3:8l:96:ILE:O	2.09	0.52
3:8l:42:CYS:O	3:8l:91:SER:HB2	2.10	0.52
1:J:699:GLN:HE21	1:v:301:ASN:HD22	1.57	0.52
1:L:444:TYR:OH	1:L:469:ASP:OD2	2.21	0.52
1:L:489:SER:N	1:L:495:ASN:HD21	1.92	0.52
1:R:587:ASN:CB	3:Rl:87:ARG:HH12	2.19	0.52
1:b:301:ASN:HD22	1:h:699:GLN:HE21	1.56	0.52
1:k:587:ASN:CB	3:kl:87:ARG:HH12	2.19	0.52
1:t:444:TYR:OH	1:t:469:ASP:OD2	2.21	0.52
2:Ah:31:VAL:HG22	2:Ah:35:ARG:HB3	1.92	0.52
2:Gh:31:VAL:HG22	2:Gh:35:ARG:HB3	1.92	0.52
2:Rh:145:THR:O	2:Rh:145:THR:OG1	2.26	0.52
2:Vh:57:ARG:CD	2:Vh:113:TYR:CZ	2.93	0.52
2:Zh:57:ARG:CD	2:Zh:113:TYR:CZ	2.93	0.52
2:bh:145:THR:O	2:bh:145:THR:OG1	2.26	0.52
2:hh:57:ARG:CD	2:hh:113:TYR:CZ	2.93	0.52
2:ih:57:ARG:CD	2:ih:113:TYR:CZ	2.93	0.52
2:jh:57:ARG:CD	2:jh:113:TYR:CZ	2.93	0.52
2:lh:53:MET:HB3	2:lh:98:LEU:CD2	2.35	0.52
2:nh:31:VAL:HG22	2:nh:35:ARG:HB3	1.92	0.52
2:ph:31:VAL:HG22	2:ph:35:ARG:HB3	1.92	0.52
2:uh:31:VAL:HG22	2:uh:35:ARG:HB3	1.92	0.52
2:uh:53:MET:CB	2:uh:98:LEU:HD22	2.34	0.52
2:zh:57:ARG:CD	2:zh:113:TYR:CZ	2.93	0.52
2:8h:57:ARG:CD	2:8h:113:TYR:CZ	2.93	0.52
3:Al:50:GLY:H	3:Al:87:ARG:NH2	2.08	0.52
3:Hl:42:CYS:O	3:Hl:91:SER:HB2	2.10	0.52
3:Jl:33:THR:CG2	3:Jl:34:PRO:HD2	2.31	0.52
3:Jl:50:GLY:H	3:Jl:87:ARG:NH2	2.08	0.52
3:Kl:50:GLY:H	3:Kl:87:ARG:NH2	2.08	0.52
3:Ul:37:ARG:HG3	3:Ul:96:ILE:O	2.09	0.52
3:Vl:42:CYS:O	3:Vl:91:SER:HB2	2.10	0.52
3:Xl:42:CYS:O	3:Xl:91:SER:HB2	2.10	0.52
3:Zl:37:ARG:HG3	3:Zl:96:ILE:O	2.09	0.52
3:Zl:42:CYS:O	3:Zl:91:SER:HB2	2.10	0.52
3:3l:50:GLY:H	3:3l:87:ARG:NH2	2.08	0.52
3:5l:125:LYS:N	3:5l:125:LYS:CD	2.73	0.52
3:jl:37:ARG:HG3	3:jl:96:ILE:O	2.09	0.52
3:kl:42:CYS:O	3:kl:91:SER:HB2	2.10	0.52
3:pl:50:GLY:H	3:pl:87:ARG:NH2	2.08	0.52
3:sl:42:CYS:O	3:sl:91:SER:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:vl:50:GLY:H	3:vl:87:ARG:NH2	2.08	0.52
3:xl:50:GLY:H	3:xl:87:ARG:NH2	2.08	0.52
3:xl:107:TYR:HE2	3:xl:126:VAL:HG22	1.64	0.52
3:7l:50:GLY:H	3:7l:87:ARG:NH2	2.08	0.52
1:B:587:ASN:CB	3:Bl:87:ARG:HH12	2.19	0.51
1:E:353:VAL:H	1:E:645:GLN:NE2	2.08	0.51
1:I:444:TYR:OH	1:I:469:ASP:OD2	2.21	0.51
1:J:301:ASN:HD22	1:v:699:GLN:HE21	1.57	0.51
1:L:587:ASN:ND2	3:Ll:87:ARG:NH1	2.58	0.51
1:M:301:ASN:HD22	1:4:699:GLN:HE21	1.56	0.51
1:U:587:ASN:ND2	3:Ul:87:ARG:NH1	2.58	0.51
1:W:583:LEU:O	1:W:588:ARG:HD2	2.11	0.51
1:X:583:LEU:O	1:X:588:ARG:HD2	2.11	0.51
1:X:710:VAL:O	1:X:713:THR:OG1	2.25	0.51
1:4:587:ASN:CB	3:4l:87:ARG:HH12	2.19	0.51
1:6:587:ASN:CB	3:6l:87:ARG:HH12	2.21	0.51
1:6:710:VAL:O	1:6:713:THR:OG1	2.25	0.51
1:a:587:ASN:CB	3:al:87:ARG:HH12	2.19	0.51
1:a:587:ASN:ND2	3:al:87:ARG:NH1	2.57	0.51
1:f:710:VAL:O	1:f:713:THR:OG1	2.25	0.51
1:h:587:ASN:CB	3:hl:87:ARG:HH12	2.19	0.51
1:m:587:ASN:ND2	3:ml:87:ARG:NH1	2.58	0.51
1:n:587:ASN:ND2	3:nl:87:ARG:NH1	2.57	0.51
2:Bh:31:VAL:HG22	2:Bh:35:ARG:HB3	1.92	0.51
2:Ch:70:ILE:HD12	2:Ch:77:LYS:HG2	1.91	0.51
2:Eh:145:THR:O	2:Eh:145:THR:OG1	2.26	0.51
2:Jh:31:VAL:HG22	2:Jh:35:ARG:HB3	1.92	0.51
2:Mh:145:THR:O	2:Mh:145:THR:OG1	2.26	0.51
2:Oh:57:ARG:CD	2:Oh:113:TYR:CZ	2.93	0.51
2:Wh:31:VAL:HG22	2:Wh:35:ARG:HB3	1.92	0.51
2:Wh:57:ARG:CD	2:Wh:113:TYR:CZ	2.93	0.51
2:Xh:57:ARG:CD	2:Xh:113:TYR:CZ	2.93	0.51
2:4h:57:ARG:CD	2:4h:113:TYR:CZ	2.93	0.51
2:4h:145:THR:O	2:4h:145:THR:OG1	2.26	0.51
2:fh:57:ARG:CD	2:fh:113:TYR:CZ	2.93	0.51
2:gh:53:MET:HB3	2:gh:98:LEU:CD2	2.35	0.51
2:hh:145:THR:O	2:hh:145:THR:OG1	2.26	0.51
3:Dl:125:LYS:N	3:Dl:125:LYS:CD	2.73	0.51
3:El:27:PRO:O	3:El:124:THR:OG1	2.22	0.51
3:Gl:42:CYS:O	3:Gl:91:SER:HB2	2.10	0.51
3:Il:34:PRO:HA	3:Il:99:LEU:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ll:104:GLU:HG3	3:Ll:127:THR:N	2.24	0.51
3:Sl:37:ARG:HG3	3:Sl:96:ILE:O	2.09	0.51
3:5l:50:GLY:H	3:5l:87:ARG:NH2	2.08	0.51
3:el:42:CYS:O	3:el:91:SER:HB2	2.10	0.51
3:el:50:GLY:H	3:el:87:ARG:NH2	2.08	0.51
3:el:125:LYS:N	3:el:125:LYS:CD	2.73	0.51
3:hl:42:CYS:O	3:hl:91:SER:HB2	2.10	0.51
3:ll:100:GLN:NE2	3:ll:100:GLN:CA	2.73	0.51
3:ml:37:ARG:HG3	3:ml:96:ILE:O	2.09	0.51
3:nl:50:GLY:H	3:nl:87:ARG:NH2	2.08	0.51
3:tl:104:GLU:HG3	3:tl:127:THR:N	2.24	0.51
3:vl:37:ARG:HG3	3:vl:96:ILE:O	2.09	0.51
1:C:587:ASN:ND2	3:Cl:87:ARG:NH1	2.57	0.51
1:E:444:TYR:OH	1:E:469:ASP:OD2	2.21	0.51
1:E:583:LEU:O	1:E:588:ARG:HD2	2.11	0.51
1:F:489:SER:N	1:F:495:ASN:HD21	1.92	0.51
1:M:583:LEU:O	1:M:588:ARG:HD2	2.11	0.51
1:O:353:VAL:H	1:O:645:GLN:NE2	2.08	0.51
1:Q:583:LEU:O	1:Q:588:ARG:HD2	2.11	0.51
1:U:301:ASN:HD22	1:t:699:GLN:HE21	1.57	0.51
1:b:583:LEU:O	1:b:588:ARG:HD2	2.11	0.51
1:i:583:LEU:O	1:i:588:ARG:HD2	2.11	0.51
1:r:583:LEU:O	1:r:588:ARG:HD2	2.11	0.51
1:t:587:ASN:ND2	3:tl:87:ARG:NH1	2.58	0.51
1:w:710:VAL:O	1:w:713:THR:OG1	2.25	0.51
1:z:583:LEU:O	1:z:588:ARG:HD2	2.11	0.51
1:8:353:VAL:H	1:8:645:GLN:NE2	2.08	0.51
2:Bh:57:ARG:CD	2:Bh:113:TYR:CZ	2.93	0.51
2:Fh:57:ARG:CD	2:Fh:113:TYR:CZ	2.93	0.51
2:Xh:31:VAL:HG22	2:Xh:35:ARG:HB3	1.92	0.51
2:ah:70:ILE:HD12	2:ah:77:LYS:HG2	1.91	0.51
2:bh:31:VAL:HG22	2:bh:35:ARG:HB3	1.92	0.51
2:ih:31:VAL:HG22	2:ih:35:ARG:HB3	1.92	0.51
2:jh:88:THR:HG22	2:jh:101:GLN:HE22	1.38	0.51
2:th:70:ILE:HD12	2:th:77:LYS:HG2	1.91	0.51
2:vh:31:VAL:HG22	2:vh:35:ARG:HB3	1.92	0.51
3:Dl:42:CYS:O	3:Dl:91:SER:HB2	2.10	0.51
3:Dl:50:GLY:H	3:Dl:87:ARG:NH2	2.08	0.51
3:Rl:42:CYS:O	3:Rl:91:SER:HB2	2.10	0.51
3:1l:50:GLY:H	3:1l:87:ARG:NH2	2.08	0.51
3:1l:107:TYR:HE2	3:1l:126:VAL:HG22	1.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ll:42:CYS:O	3:ll:91:SER:HB2	2.10	0.51
3:nl:42:CYS:O	3:nl:91:SER:HB2	2.10	0.51
3:ol:34:PRO:HA	3:ol:99:LEU:HB3	1.93	0.51
3:wl:50:GLY:H	3:wl:87:ARG:NH2	2.08	0.51
1:L:710:VAL:O	1:L:713:THR:OG1	2.25	0.51
1:M:710:VAL:O	1:M:713:THR:OG1	2.25	0.51
1:N:583:LEU:O	1:N:588:ARG:HD2	2.11	0.51
1:U:583:LEU:O	1:U:588:ARG:HD2	2.11	0.51
1:V:583:LEU:O	1:V:588:ARG:HD2	2.11	0.51
1:Y:583:LEU:O	1:Y:588:ARG:HD2	2.11	0.51
1:Z:353:VAL:H	1:Z:645:GLN:NE2	2.08	0.51
1:b:710:VAL:O	1:b:713:THR:OG1	2.25	0.51
1:c:583:LEU:O	1:c:588:ARG:HD2	2.11	0.51
1:f:353:VAL:H	1:f:645:GLN:NE2	2.08	0.51
1:h:353:VAL:H	1:h:645:GLN:NE2	2.08	0.51
1:m:583:LEU:O	1:m:588:ARG:HD2	2.11	0.51
1:o:583:LEU:O	1:o:588:ARG:HD2	2.11	0.51
1:q:353:VAL:H	1:q:645:GLN:NE2	2.08	0.51
1:q:583:LEU:O	1:q:588:ARG:HD2	2.11	0.51
1:t:353:VAL:H	1:t:645:GLN:NE2	2.08	0.51
1:u:583:LEU:O	1:u:588:ARG:HD2	2.11	0.51
1:u:587:ASN:CB	3:ul:87:ARG:HH12	2.19	0.51
1:7:583:LEU:O	1:7:588:ARG:HD2	2.11	0.51
2:Dh:53:MET:HB3	2:Dh:98:LEU:CD2	2.35	0.51
2:Eh:53:MET:HB3	2:Eh:98:LEU:CD2	2.35	0.51
2:Fh:52:GLY:O	2:Fh:118:ALA:N	2.25	0.51
2:Mh:31:VAL:HG22	2:Mh:35:ARG:HB3	1.92	0.51
2:2h:88:THR:HG22	2:2h:101:GLN:HE22	1.38	0.51
2:jh:52:GLY:O	2:jh:118:ALA:N	2.25	0.51
2:sh:57:ARG:CD	2:sh:113:TYR:CZ	2.93	0.51
2:th:31:VAL:HG22	2:th:35:ARG:HB3	1.92	0.51
2:yh:53:MET:CB	2:yh:98:LEU:HD22	2.34	0.51
3:Bl:42:CYS:O	3:Bl:91:SER:HB2	2.10	0.51
3:El:42:CYS:O	3:El:91:SER:HB2	2.10	0.51
3:Gl:50:GLY:H	3:Gl:87:ARG:NH2	2.08	0.51
3:Jl:37:ARG:HG3	3:Jl:96:ILE:O	2.09	0.51
3:Ll:107:TYR:HE2	3:Ll:126:VAL:HG22	1.64	0.51
3:Ml:42:CYS:O	3:Ml:91:SER:HB2	2.10	0.51
3:Ml:50:GLY:H	3:Ml:87:ARG:NH2	2.08	0.51
3:Pl:34:PRO:HA	3:Pl:99:LEU:HB3	1.93	0.51
3:Zl:50:GLY:H	3:Zl:87:ARG:NH2	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2l:42:CYS:O	3:2l:91:SER:HB2	2.10	0.51
3:3l:104:GLU:HG3	3:3l:127:THR:N	2.24	0.51
3:5l:104:GLU:HG3	3:5l:127:THR:N	2.24	0.51
3:ll:37:ARG:HG3	3:ll:96:ILE:O	2.09	0.51
3:wl:37:ARG:HG3	3:wl:96:ILE:O	2.09	0.51
1:A:353:VAL:H	1:A:645:GLN:NE2	2.08	0.51
1:A:587:ASN:HD22	3:Al:87:ARG:NH1	2.08	0.51
1:B:583:LEU:O	1:B:588:ARG:HD2	2.11	0.51
1:E:587:ASN:HB3	3:El:87:ARG:NH1	2.20	0.51
1:F:444:TYR:OH	1:F:469:ASP:OD2	2.21	0.51
1:H:353:VAL:H	1:H:645:GLN:NE2	2.08	0.51
1:I:583:LEU:O	1:I:588:ARG:HD2	2.11	0.51
1:L:699:GLN:HE21	1:m:301:ASN:HD22	1.57	0.51
1:O:587:ASN:ND2	3:Ol:87:ARG:NH1	2.57	0.51
1:R:583:LEU:O	1:R:588:ARG:HD2	2.11	0.51
1:6:583:LEU:O	1:6:588:ARG:HD2	2.11	0.51
1:b:587:ASN:ND2	3:bl:87:ARG:NH1	2.57	0.51
1:f:587:ASN:ND2	3:fl:87:ARG:NH1	2.57	0.51
1:i:710:VAL:O	1:i:713:THR:OG1	2.25	0.51
1:j:583:LEU:O	1:j:588:ARG:HD2	2.11	0.51
1:k:583:LEU:O	1:k:588:ARG:HD2	2.11	0.51
1:p:353:VAL:H	1:p:645:GLN:NE2	2.08	0.51
1:v:587:ASN:ND2	3:vl:87:ARG:NH1	2.57	0.51
1:8:583:LEU:O	1:8:588:ARG:HD2	2.11	0.51
2:Bh:53:MET:CB	2:Bh:98:LEU:HD22	2.34	0.51
2:Ch:31:VAL:HG22	2:Ch:35:ARG:HB3	1.92	0.51
2:Lh:31:VAL:HG22	2:Lh:35:ARG:HB3	1.92	0.51
2:Th:53:MET:HB3	2:Th:98:LEU:CD2	2.35	0.51
2:eh:31:VAL:HG22	2:eh:35:ARG:HB3	1.92	0.51
2:gh:81:ASP:HA	2:gh:84:LYS:CE	2.37	0.51
2:ih:145:THR:O	2:ih:145:THR:OG1	2.26	0.51
2:qh:53:MET:HB3	2:qh:98:LEU:CD2	2.35	0.51
2:sh:145:THR:O	2:sh:145:THR:OG1	2.26	0.51
2:uh:57:ARG:CD	2:uh:113:TYR:CZ	2.93	0.51
2:vh:53:MET:CB	2:vh:98:LEU:HD22	2.34	0.51
3:Fl:34:PRO:HA	3:Fl:99:LEU:HB3	1.93	0.51
3:Sl:34:PRO:HA	3:Sl:99:LEU:HB3	1.93	0.51
3:Tl:104:GLU:HG3	3:Tl:127:THR:N	2.24	0.51
3:Xl:104:GLU:HG3	3:Xl:127:THR:N	2.24	0.51
3:Yl:42:CYS:O	3:Yl:91:SER:HB2	2.10	0.51
3:1l:37:ARG:HG3	3:1l:96:ILE:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:bl:42:CYS:O	3:bl:91:SER:HB2	2.10	0.51
3:bl:50:GLY:H	3:bl:87:ARG:NH2	2.08	0.51
3:dl:34:PRO:HA	3:dl:99:LEU:HB3	1.93	0.51
3:gl:104:GLU:HG3	3:gl:127:THR:N	2.24	0.51
3:ll:34:PRO:HA	3:ll:99:LEU:HB3	1.93	0.51
3:ol:107:TYR:HE2	3:ol:126:VAL:HG22	1.64	0.51
3:pl:34:PRO:HA	3:pl:99:LEU:HB3	1.93	0.51
3:ql:50:GLY:H	3:ql:87:ARG:NH2	2.08	0.51
3:rl:42:CYS:O	3:rl:91:SER:HB2	2.10	0.51
3:sl:34:PRO:HA	3:sl:99:LEU:HB3	1.93	0.51
3:ul:42:CYS:O	3:ul:91:SER:HB2	2.10	0.51
3:8l:50:GLY:H	3:8l:87:ARG:NH2	2.08	0.51
1:F:583:LEU:O	1:F:588:ARG:HD2	2.11	0.51
1:H:235:MET:SD	1:H:238:ARG:HB2	2.51	0.51
1:J:587:ASN:ND2	3:Jl:87:ARG:NH1	2.57	0.51
1:L:353:VAL:H	1:L:645:GLN:NE2	2.08	0.51
1:P:353:VAL:H	1:P:645:GLN:NE2	2.08	0.51
1:R:353:VAL:H	1:R:645:GLN:NE2	2.08	0.51
1:T:353:VAL:H	1:T:645:GLN:NE2	2.08	0.51
1:Z:583:LEU:O	1:Z:588:ARG:HD2	2.11	0.51
1:1:710:VAL:O	1:1:713:THR:OG1	2.25	0.51
1:4:353:VAL:H	1:4:645:GLN:NE2	2.08	0.51
1:g:353:VAL:H	1:g:645:GLN:NE2	2.07	0.51
1:q:587:ASN:HB3	3:ql:87:ARG:NH1	2.20	0.51
1:v:353:VAL:H	1:v:645:GLN:NE2	2.08	0.51
1:y:235:MET:SD	1:y:238:ARG:HB2	2.51	0.51
1:y:353:VAL:H	1:y:645:GLN:NE2	2.08	0.51
2:Dh:31:VAL:HG22	2:Dh:35:ARG:HB3	1.92	0.51
2:Kh:145:THR:O	2:Kh:145:THR:OG1	2.26	0.51
2:Th:81:ASP:HA	2:Th:84:LYS:CE	2.37	0.51
2:Yh:57:ARG:CD	2:Yh:113:TYR:CZ	2.93	0.51
2:ah:31:VAL:HG22	2:ah:35:ARG:HB3	1.92	0.51
2:eh:53:MET:HB3	2:eh:98:LEU:CD2	2.35	0.51
2:qh:81:ASP:HA	2:qh:84:LYS:CE	2.37	0.51
2:uh:81:ASP:HA	2:uh:84:LYS:CE	2.37	0.51
2:xh:145:THR:O	2:xh:145:THR:OG1	2.26	0.51
3:Al:34:PRO:HA	3:Al:99:LEU:HB3	1.93	0.51
3:El:50:GLY:H	3:El:87:ARG:NH2	2.08	0.51
3:Jl:42:CYS:O	3:Jl:91:SER:HB2	2.10	0.51
3:Kl:107:TYR:HE2	3:Kl:126:VAL:HG22	1.64	0.51
3:Pl:42:CYS:O	3:Pl:91:SER:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ql:42:CYS:O	3:Ql:91:SER:HB2	2.10	0.51
3:Sl:42:CYS:O	3:Sl:91:SER:HB2	2.10	0.51
3:Sl:50:GLY:H	3:Sl:87:ARG:NH2	2.08	0.51
3:Xl:34:PRO:HA	3:Xl:99:LEU:HB3	1.93	0.51
3:Xl:50:GLY:H	3:Xl:87:ARG:NH2	2.08	0.51
3:6l:42:CYS:O	3:6l:91:SER:HB2	2.10	0.51
3:dl:42:CYS:O	3:dl:91:SER:HB2	2.10	0.51
3:il:50:GLY:H	3:il:87:ARG:NH2	2.08	0.51
3:ml:50:GLY:H	3:ml:87:ARG:NH2	2.08	0.51
3:ql:42:CYS:O	3:ql:91:SER:HB2	2.10	0.51
3:wl:107:TYR:HE2	3:wl:126:VAL:HG22	1.64	0.51
3:zl:34:PRO:HA	3:zl:99:LEU:HB3	1.93	0.51
3:7l:42:CYS:O	3:7l:91:SER:HB2	2.10	0.51
3:7l:107:TYR:HE2	3:7l:126:VAL:HG22	1.64	0.51
1:E:235:MET:SD	1:E:238:ARG:HB2	2.51	0.51
1:G:710:VAL:O	1:G:713:THR:OG1	2.25	0.51
1:M:587:ASN:ND2	3:Ml:87:ARG:NH1	2.57	0.51
1:O:450:THR:HG1	1:O:451:PRO:HD2	1.76	0.51
1:T:235:MET:SD	1:T:238:ARG:HB2	2.51	0.51
1:Y:235:MET:SD	1:Y:238:ARG:HB2	2.51	0.51
1:2:583:LEU:O	1:2:588:ARG:HD2	2.11	0.51
1:5:450:THR:HG1	1:5:451:PRO:HD2	1.76	0.51
1:d:353:VAL:H	1:d:645:GLN:NE2	2.08	0.51
1:d:583:LEU:O	1:d:588:ARG:HD2	2.11	0.51
1:g:235:MET:SD	1:g:238:ARG:HB2	2.51	0.51
1:g:583:LEU:O	1:g:588:ARG:HD2	2.11	0.51
1:h:583:LEU:O	1:h:588:ARG:HD2	2.11	0.51
1:k:353:VAL:H	1:k:645:GLN:NE2	2.08	0.51
1:s:583:LEU:O	1:s:588:ARG:HD2	2.11	0.51
1:t:583:LEU:O	1:t:588:ARG:HD2	2.11	0.51
1:t:710:VAL:O	1:t:713:THR:OG1	2.25	0.51
1:7:235:MET:SD	1:7:238:ARG:HB2	2.51	0.51
2:Bh:81:ASP:HA	2:Bh:84:LYS:CE	2.37	0.51
2:Xh:145:THR:O	2:Xh:145:THR:OG1	2.26	0.51
2:Yh:70:ILE:HD12	2:Yh:77:LYS:HG2	1.91	0.51
2:7h:57:ARG:CD	2:7h:113:TYR:CZ	2.93	0.51
2:7h:70:ILE:HD12	2:7h:77:LYS:HG2	1.90	0.51
3:Il:50:GLY:H	3:Il:87:ARG:NH2	2.08	0.51
3:Nl:50:GLY:H	3:Nl:87:ARG:NH2	2.08	0.51
3:Ol:50:GLY:H	3:Ol:87:ARG:NH2	2.08	0.51
3:Ul:50:GLY:H	3:Ul:87:ARG:NH2	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Wl:34:PRO:HA	3:Wl:99:LEU:HB3	1.93	0.51
3:bl:34:PRO:HA	3:bl:99:LEU:HB3	1.93	0.51
3:cl:33:THR:CG2	3:cl:34:PRO:HD2	2.30	0.51
3:fl:50:GLY:H	3:fl:87:ARG:NH2	2.08	0.51
3:hl:50:GLY:H	3:hl:87:ARG:NH2	2.08	0.51
3:il:34:PRO:HA	3:il:99:LEU:HB3	1.93	0.51
3:il:104:GLU:HG3	3:il:127:THR:N	2.24	0.51
3:ll:50:GLY:H	3:ll:87:ARG:NH2	2.08	0.51
3:vl:42:CYS:O	3:vl:91:SER:HB2	2.10	0.51
3:zl:42:CYS:O	3:zl:91:SER:HB2	2.10	0.51
1:J:353:VAL:H	1:J:645:GLN:NE2	2.08	0.51
1:K:583:LEU:O	1:K:588:ARG:HD2	2.11	0.51
1:L:583:LEU:O	1:L:588:ARG:HD2	2.11	0.51
1:P:583:LEU:O	1:P:588:ARG:HD2	2.11	0.51
1:R:422:SER:HB2	1:R:424:TYR:CE2	2.46	0.51
1:T:583:LEU:O	1:T:588:ARG:HD2	2.11	0.51
1:X:422:SER:HB2	1:X:424:TYR:CE2	2.46	0.51
1:3:583:LEU:O	1:3:588:ARG:HD2	2.11	0.51
1:4:235:MET:SD	1:4:238:ARG:HB2	2.51	0.51
1:4:583:LEU:O	1:4:588:ARG:HD2	2.11	0.51
1:5:583:LEU:O	1:5:588:ARG:HD2	2.11	0.51
1:h:235:MET:SD	1:h:238:ARG:HB2	2.51	0.51
1:i:422:SER:HB2	1:i:424:TYR:CE2	2.46	0.51
1:k:422:SER:HB2	1:k:424:TYR:CE2	2.46	0.51
1:l:235:MET:SD	1:l:238:ARG:HB2	2.51	0.51
1:q:235:MET:SD	1:q:238:ARG:HB2	2.51	0.51
2:Eh:81:ASP:HA	2:Eh:84:LYS:CE	2.37	0.51
2:Fh:145:THR:O	2:Fh:145:THR:OG1	2.26	0.51
2:Hh:53:MET:CB	2:Hh:98:LEU:HD22	2.34	0.51
2:1h:31:VAL:HG22	2:1h:35:ARG:HB3	1.92	0.51
2:wh:31:VAL:HG22	2:wh:35:ARG:HB3	1.92	0.51
3:Bl:34:PRO:HA	3:Bl:99:LEU:HB3	1.93	0.51
3:El:107:TYR:HE2	3:El:126:VAL:HG22	1.64	0.51
3:Gl:34:PRO:HA	3:Gl:99:LEU:HB3	1.93	0.51
3:Kl:34:PRO:HA	3:Kl:99:LEU:HB3	1.93	0.51
3:Ml:34:PRO:HA	3:Ml:99:LEU:HB3	1.93	0.51
3:Nl:42:CYS:O	3:Nl:91:SER:HB2	2.10	0.51
3:Pl:50:GLY:H	3:Pl:87:ARG:NH2	2.08	0.51
3:Sl:125:LYS:N	3:Sl:125:LYS:CD	2.73	0.51
3:Wl:42:CYS:O	3:Wl:91:SER:HB2	2.10	0.51
3:1l:58:GLN:NE2	3:1l:107:TYR:OH	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:fl:34:PRO:HA	3:fl:99:LEU:HB3	1.93	0.51
3:fl:58:GLN:NE2	3:fl:107:TYR:OH	2.44	0.51
3:ll:125:LYS:N	3:ll:125:LYS:CD	2.73	0.51
3:nl:34:PRO:HA	3:nl:99:LEU:HB3	1.93	0.51
3:ol:50:GLY:H	3:ol:87:ARG:NH2	2.08	0.51
3:ql:107:TYR:HE2	3:ql:126:VAL:HG22	1.64	0.51
3:xl:34:PRO:HA	3:xl:99:LEU:HB3	1.93	0.51
3:yl:50:GLY:H	3:yl:87:ARG:NH2	2.08	0.51
1:A:450:THR:CG2	1:A:457:GLN:HE21	2.24	0.51
1:E:422:SER:HB2	1:E:424:TYR:CE2	2.46	0.51
1:F:235:MET:SD	1:F:238:ARG:HB2	2.51	0.51
1:G:353:VAL:H	1:G:645:GLN:NE2	2.08	0.51
1:G:422:SER:HB2	1:G:424:TYR:CE2	2.46	0.51
1:H:422:SER:HB2	1:H:424:TYR:CE2	2.46	0.51
1:J:422:SER:HB2	1:J:424:TYR:CE2	2.46	0.51
1:K:422:SER:HB2	1:K:424:TYR:CE2	2.46	0.51
1:P:422:SER:HB2	1:P:424:TYR:CE2	2.46	0.51
1:S:235:MET:SD	1:S:238:ARG:HB2	2.51	0.51
1:V:353:VAL:H	1:V:645:GLN:NE2	2.08	0.51
1:3:235:MET:SD	1:3:238:ARG:HB2	2.51	0.51
1:5:235:MET:SD	1:5:238:ARG:HB2	2.51	0.51
1:d:422:SER:HB2	1:d:424:TYR:CE2	2.46	0.51
1:n:353:VAL:H	1:n:645:GLN:NE2	2.08	0.51
1:n:422:SER:HB2	1:n:424:TYR:CE2	2.46	0.51
1:p:450:THR:CG2	1:p:457:GLN:HE21	2.24	0.51
1:s:235:MET:SD	1:s:238:ARG:HB2	2.51	0.51
1:s:444:TYR:OH	1:s:469:ASP:OD2	2.21	0.51
1:t:450:THR:CG2	1:t:457:GLN:HE21	2.24	0.51
1:v:235:MET:SD	1:v:238:ARG:HB2	2.51	0.51
1:v:422:SER:HB2	1:v:424:TYR:CE2	2.46	0.51
1:w:422:SER:HB2	1:w:424:TYR:CE2	2.46	0.51
1:x:422:SER:HB2	1:x:424:TYR:CE2	2.46	0.51
1:x:583:LEU:O	1:x:588:ARG:HD2	2.11	0.51
2:Fh:31:VAL:HG22	2:Fh:35:ARG:HB3	1.92	0.51
2:Hh:145:THR:O	2:Hh:145:THR:OG1	2.26	0.51
2:Jh:53:MET:CB	2:Jh:98:LEU:HD22	2.34	0.51
2:Oh:31:VAL:HG22	2:Oh:35:ARG:HB3	1.92	0.51
2:fh:31:VAL:HG22	2:fh:35:ARG:HB3	1.92	0.51
2:kh:31:VAL:HG22	2:kh:35:ARG:HB3	1.92	0.51
2:mh:57:ARG:CD	2:mh:113:TYR:CZ	2.93	0.51
2:7h:31:VAL:HG22	2:7h:35:ARG:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cl:34:PRO:HA	3:Cl:99:LEU:HB3	1.93	0.51
3:Hl:50:GLY:H	3:Hl:87:ARG:NH2	2.08	0.51
3:Nl:33:THR:CG2	3:Nl:34:PRO:HD2	2.30	0.51
3:Nl:58:GLN:NE2	3:Nl:107:TYR:OH	2.44	0.51
3:Ol:34:PRO:HA	3:Ol:99:LEU:HB3	1.93	0.51
3:Ol:58:GLN:NE2	3:Ol:107:TYR:OH	2.44	0.51
3:Rl:34:PRO:HA	3:Rl:99:LEU:HB3	1.93	0.51
3:Rl:58:GLN:NE2	3:Rl:107:TYR:OH	2.44	0.51
3:Tl:58:GLN:NE2	3:Tl:107:TYR:OH	2.44	0.51
3:Xl:58:GLN:NE2	3:Xl:107:TYR:OH	2.44	0.51
3:Yl:58:GLN:NE2	3:Yl:107:TYR:OH	2.44	0.51
3:4l:50:GLY:H	3:4l:87:ARG:NH2	2.08	0.51
3:al:34:PRO:HA	3:al:99:LEU:HB3	1.93	0.51
3:cl:42:CYS:O	3:cl:91:SER:HB2	2.10	0.51
3:cl:50:GLY:H	3:cl:87:ARG:NH2	2.08	0.51
3:cl:58:GLN:NE2	3:cl:107:TYR:OH	2.44	0.51
3:dl:50:GLY:H	3:dl:87:ARG:NH2	2.08	0.51
3:fl:42:CYS:O	3:fl:91:SER:HB2	2.10	0.51
3:gl:58:GLN:NE2	3:gl:107:TYR:OH	2.44	0.51
3:il:58:GLN:NE2	3:il:107:TYR:OH	2.44	0.51
3:kl:58:GLN:NE2	3:kl:107:TYR:OH	2.44	0.51
3:ql:34:PRO:HA	3:ql:99:LEU:HB3	1.93	0.51
3:ul:34:PRO:HA	3:ul:99:LEU:HB3	1.93	0.51
3:wl:58:GLN:NE2	3:wl:107:TYR:OH	2.44	0.51
3:7l:58:GLN:NE2	3:7l:107:TYR:OH	2.44	0.51
1:A:422:SER:HB2	1:A:424:TYR:CE2	2.46	0.51
1:B:235:MET:SD	1:B:238:ARG:HB2	2.51	0.51
1:G:450:THR:CG2	1:G:457:GLN:HE21	2.24	0.51
1:I:422:SER:HB2	1:I:424:TYR:CE2	2.46	0.51
1:J:235:MET:SD	1:J:238:ARG:HB2	2.51	0.51
1:L:422:SER:HB2	1:L:424:TYR:CE2	2.46	0.51
1:L:450:THR:CG2	1:L:457:GLN:HE21	2.24	0.51
1:L:587:ASN:CB	3:Ll:87:ARG:HH12	2.19	0.51
1:M:235:MET:SD	1:M:238:ARG:HB2	2.51	0.51
1:N:450:THR:CG2	1:N:457:GLN:HE21	2.24	0.51
1:Y:450:THR:CG2	1:Y:457:GLN:HE21	2.24	0.51
1:1:422:SER:HB2	1:1:424:TYR:CE2	2.46	0.51
1:b:235:MET:SD	1:b:238:ARG:HB2	2.51	0.51
1:c:450:THR:CG2	1:c:457:GLN:HE21	2.24	0.51
1:c:710:VAL:O	1:c:713:THR:OG1	2.25	0.51
1:n:450:THR:CG2	1:n:457:GLN:HE21	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:710:VAL:O	1:n:713:THR:OG1	2.25	0.51
1:o:422:SER:HB2	1:o:424:TYR:CE2	2.46	0.51
1:o:450:THR:CG2	1:o:457:GLN:HE21	2.24	0.51
1:p:422:SER:HB2	1:p:424:TYR:CE2	2.46	0.51
1:q:422:SER:HB2	1:q:424:TYR:CE2	2.46	0.51
1:t:422:SER:HB2	1:t:424:TYR:CE2	2.46	0.51
1:u:235:MET:SD	1:u:238:ARG:HB2	2.51	0.51
1:w:583:LEU:O	1:w:588:ARG:HD2	2.11	0.51
1:y:422:SER:HB2	1:y:424:TYR:CE2	2.46	0.51
2:Ph:31:VAL:HG22	2:Ph:35:ARG:HB3	1.92	0.51
2:Uh:57:ARG:CD	2:Uh:113:TYR:CZ	2.93	0.51
2:Vh:31:VAL:HG22	2:Vh:35:ARG:HB3	1.92	0.51
2:Yh:31:VAL:HG22	2:Yh:35:ARG:HB3	1.92	0.51
2:Zh:52:GLY:O	2:Zh:118:ALA:N	2.25	0.51
2:gh:31:VAL:HG22	2:gh:35:ARG:HB3	1.92	0.51
2:sh:31:VAL:HG22	2:sh:35:ARG:HB3	1.92	0.51
2:sh:52:GLY:O	2:sh:118:ALA:N	2.25	0.51
2:yh:145:THR:O	2:yh:145:THR:OG1	2.26	0.51
3:Bl:50:GLY:H	3:Bl:87:ARG:NH2	2.08	0.51
3:Dl:58:GLN:NE2	3:Dl:107:TYR:OH	2.44	0.51
3:El:34:PRO:HA	3:El:99:LEU:HB3	1.93	0.51
3:Gl:58:GLN:NE2	3:Gl:107:TYR:OH	2.44	0.51
3:Hl:58:GLN:NE2	3:Hl:107:TYR:OH	2.44	0.51
3:Il:107:TYR:HE2	3:Il:126:VAL:HG22	1.64	0.51
3:Vl:34:PRO:HA	3:Vl:99:LEU:HB3	1.93	0.51
3:2l:34:PRO:HA	3:2l:99:LEU:HB3	1.93	0.51
3:4l:34:PRO:HA	3:4l:99:LEU:HB3	1.93	0.51
3:hl:34:PRO:HA	3:hl:99:LEU:HB3	1.93	0.51
3:kl:34:PRO:HA	3:kl:99:LEU:HB3	1.93	0.51
3:nl:58:GLN:NE2	3:nl:107:TYR:OH	2.44	0.51
3:ul:50:GLY:H	3:ul:87:ARG:NH2	2.08	0.51
1:A:696:PRO:HD3	1:O:293:PRO:HB2	1.93	0.51
1:G:235:MET:SD	1:G:238:ARG:HB2	2.51	0.51
1:G:583:LEU:O	1:G:588:ARG:HD2	2.11	0.51
1:I:450:THR:CG2	1:I:457:GLN:HE21	2.24	0.51
1:O:450:THR:CG2	1:O:457:GLN:HE21	2.24	0.51
1:T:422:SER:HB2	1:T:424:TYR:CE2	2.46	0.51
1:Y:422:SER:HB2	1:Y:424:TYR:CE2	2.46	0.51
1:Z:422:SER:HB2	1:Z:424:TYR:CE2	2.46	0.51
1:1:450:THR:CG2	1:1:457:GLN:HE21	2.24	0.51
1:j:235:MET:SD	1:j:238:ARG:HB2	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:353:VAL:H	1:j:645:GLN:NE2	2.08	0.51
1:k:450:THR:CG2	1:k:457:GLN:HE21	2.24	0.51
1:n:235:MET:SD	1:n:238:ARG:HB2	2.51	0.51
1:u:422:SER:HB2	1:u:424:TYR:CE2	2.46	0.51
1:w:450:THR:CG2	1:w:457:GLN:HE21	2.24	0.51
1:7:422:SER:HB2	1:7:424:TYR:CE2	2.46	0.51
1:7:450:THR:CG2	1:7:457:GLN:HE21	2.24	0.51
2:Kh:31:VAL:HG22	2:Kh:35:ARG:HB3	1.92	0.51
2:Rh:31:VAL:HG22	2:Rh:35:ARG:HB3	1.92	0.51
2:ah:53:MET:HB3	2:ah:98:LEU:CD2	2.35	0.51
2:kh:57:ARG:CD	2:kh:113:TYR:CZ	2.93	0.51
2:xh:31:VAL:HG22	2:xh:35:ARG:HB3	1.92	0.51
3:Fl:58:GLN:NE2	3:Fl:107:TYR:OH	2.44	0.51
3:Kl:58:GLN:NE2	3:Kl:107:TYR:OH	2.44	0.51
3:Ol:42:CYS:O	3:Ol:91:SER:HB2	2.10	0.51
3:Tl:125:LYS:N	3:Tl:125:LYS:CD	2.73	0.51
3:Yl:107:TYR:HE2	3:Yl:126:VAL:HG22	1.64	0.51
3:4l:58:GLN:NE2	3:4l:107:TYR:OH	2.44	0.51
3:el:34:PRO:HA	3:el:99:LEU:HB3	1.93	0.51
3:el:58:GLN:NE2	3:el:107:TYR:OH	2.44	0.51
3:gl:125:LYS:N	3:gl:125:LYS:CD	2.73	0.51
3:jl:34:PRO:HA	3:jl:99:LEU:HB3	1.93	0.51
3:rl:100:GLN:NE2	3:rl:100:GLN:CA	2.73	0.51
3:sl:58:GLN:NE2	3:sl:107:TYR:OH	2.44	0.51
3:yl:58:GLN:NE2	3:yl:107:TYR:OH	2.44	0.51
3:zl:58:GLN:NE2	3:zl:107:TYR:OH	2.44	0.51
3:8l:58:GLN:NE2	3:8l:107:TYR:OH	2.44	0.51
1:B:422:SER:HB2	1:B:424:TYR:CE2	2.46	0.50
1:B:450:THR:CG2	1:B:457:GLN:HE21	2.24	0.50
1:Q:450:THR:CG2	1:Q:457:GLN:HE21	2.24	0.50
1:R:450:THR:CG2	1:R:457:GLN:HE21	2.24	0.50
1:T:237:ASP:OD1	1:T:237:ASP:N	2.34	0.50
1:W:422:SER:HB2	1:W:424:TYR:CE2	2.46	0.50
1:X:235:MET:SD	1:X:238:ARG:HB2	2.51	0.50
1:1:583:LEU:O	1:1:588:ARG:HD2	2.11	0.50
1:4:450:THR:CG2	1:4:457:GLN:HE21	2.24	0.50
1:f:422:SER:HB2	1:f:424:TYR:CE2	2.46	0.50
1:f:450:THR:CG2	1:f:457:GLN:HE21	2.24	0.50
1:g:237:ASP:OD1	1:g:237:ASP:N	2.34	0.50
1:h:450:THR:CG2	1:h:457:GLN:HE21	2.24	0.50
1:i:235:MET:SD	1:i:238:ARG:HB2	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:235:MET:SD	1:k:238:ARG:HB2	2.51	0.50
1:n:583:LEU:O	1:n:588:ARG:HD2	2.11	0.50
1:s:422:SER:HB2	1:s:424:TYR:CE2	2.46	0.50
1:u:450:THR:CG2	1:u:457:GLN:HE21	2.24	0.50
1:z:235:MET:SD	1:z:238:ARG:HB2	2.51	0.50
1:z:422:SER:HB2	1:z:424:TYR:CE2	2.46	0.50
1:8:422:SER:HB2	1:8:424:TYR:CE2	2.46	0.50
2:Rh:57:ARG:CD	2:Rh:113:TYR:CZ	2.93	0.50
2:Th:31:VAL:HG22	2:Th:35:ARG:HB3	1.92	0.50
2:Wh:53:MET:HB3	2:Wh:98:LEU:CD2	2.35	0.50
2:Xh:52:GLY:O	2:Xh:118:ALA:N	2.25	0.50
2:dh:31:VAL:HG22	2:dh:35:ARG:HB3	1.92	0.50
2:dh:53:MET:HB3	2:dh:98:LEU:CD2	2.35	0.50
2:jh:31:VAL:HG22	2:jh:35:ARG:HB3	1.92	0.50
3:Dl:34:PRO:HA	3:Dl:99:LEU:HB3	1.93	0.50
3:Sl:107:TYR:HE2	3:Sl:126:VAL:HG22	1.64	0.50
3:Wl:50:GLY:H	3:Wl:87:ARG:NH2	2.08	0.50
3:Wl:58:GLN:NE2	3:Wl:107:TYR:OH	2.44	0.50
3:Zl:58:GLN:NE2	3:Zl:107:TYR:OH	2.44	0.50
3:6l:34:PRO:HA	3:6l:99:LEU:HB3	1.93	0.50
3:hl:58:GLN:NE2	3:hl:107:TYR:OH	2.44	0.50
3:ml:42:CYS:O	3:ml:91:SER:HB2	2.10	0.50
3:ol:58:GLN:NE2	3:ol:107:TYR:OH	2.44	0.50
3:pl:58:GLN:NE2	3:pl:107:TYR:OH	2.44	0.50
3:xl:58:GLN:NE2	3:xl:107:TYR:OH	2.44	0.50
1:M:444:TYR:OH	1:M:469:ASP:OD2	2.21	0.50
1:N:587:ASN:CB	3:Nl:87:ARG:HH12	2.19	0.50
1:N:710:VAL:O	1:N:713:THR:OG1	2.25	0.50
1:O:422:SER:HB2	1:O:424:TYR:CE2	2.46	0.50
1:O:583:LEU:O	1:O:588:ARG:HD2	2.11	0.50
1:P:235:MET:SD	1:P:238:ARG:HB2	2.51	0.50
1:U:450:THR:CG2	1:U:457:GLN:HE21	2.24	0.50
1:V:235:MET:SD	1:V:238:ARG:HB2	2.51	0.50
1:W:235:MET:SD	1:W:238:ARG:HB2	2.51	0.50
1:a:422:SER:HB2	1:a:424:TYR:CE2	2.46	0.50
1:b:450:THR:CG2	1:b:457:GLN:HE21	2.24	0.50
1:f:235:MET:SD	1:f:238:ARG:HB2	2.51	0.50
1:g:422:SER:HB2	1:g:424:TYR:CE2	2.46	0.50
1:m:450:THR:CG2	1:m:457:GLN:HE21	2.24	0.50
1:r:450:THR:CG2	1:r:457:GLN:HE21	2.24	0.50
1:w:235:MET:SD	1:w:238:ARG:HB2	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:710:VAL:O	1:8:713:THR:OG1	2.25	0.50
2:Ph:53:MET:HB3	2:Ph:98:LEU:CD2	2.35	0.50
2:bh:57:ARG:CD	2:bh:113:TYR:CZ	2.93	0.50
2:ch:145:THR:O	2:ch:145:THR:OG1	2.26	0.50
2:eh:88:THR:HG22	2:eh:101:GLN:HE22	1.38	0.50
3:Al:58:GLN:NE2	3:Al:107:TYR:OH	2.44	0.50
3:Il:42:CYS:O	3:Il:91:SER:HB2	2.10	0.50
3:Il:58:GLN:NE2	3:Il:107:TYR:OH	2.44	0.50
3:Ql:100:GLN:NE2	3:Ql:100:GLN:CA	2.73	0.50
3:Tl:50:GLY:H	3:Tl:87:ARG:NH2	2.08	0.50
3:4l:125:LYS:N	3:4l:125:LYS:CD	2.73	0.50
3:al:107:TYR:O	3:al:123:GLY:HA2	2.12	0.50
3:cl:107:TYR:O	3:cl:123:GLY:HA2	2.12	0.50
3:hl:125:LYS:N	3:hl:125:LYS:CD	2.73	0.50
3:ol:42:CYS:O	3:ol:91:SER:HB2	2.10	0.50
3:vl:34:PRO:HA	3:vl:99:LEU:HB3	1.93	0.50
3:vl:58:GLN:NE2	3:vl:107:TYR:OH	2.44	0.50
1:C:235:MET:SD	1:C:238:ARG:HB2	2.51	0.50
1:C:422:SER:HB2	1:C:424:TYR:CE2	2.46	0.50
1:E:450:THR:CG2	1:E:457:GLN:HE21	2.24	0.50
1:F:422:SER:HB2	1:F:424:TYR:CE2	2.46	0.50
1:H:450:THR:CG2	1:H:457:GLN:HE21	2.24	0.50
1:O:235:MET:SD	1:O:238:ARG:HB2	2.51	0.50
1:R:235:MET:SD	1:R:238:ARG:HB2	2.51	0.50
1:T:450:THR:CG2	1:T:457:GLN:HE21	2.24	0.50
1:U:422:SER:HB2	1:U:424:TYR:CE2	2.46	0.50
1:V:422:SER:HB2	1:V:424:TYR:CE2	2.46	0.50
1:X:450:THR:CG2	1:X:457:GLN:HE21	2.24	0.50
1:a:235:MET:SD	1:a:238:ARG:HB2	2.51	0.50
1:e:450:THR:CG2	1:e:457:GLN:HE21	2.24	0.50
1:f:583:LEU:O	1:f:588:ARG:HD2	2.11	0.50
1:g:450:THR:CG2	1:g:457:GLN:HE21	2.24	0.50
1:j:422:SER:HB2	1:j:424:TYR:CE2	2.46	0.50
1:p:583:LEU:O	1:p:588:ARG:HD2	2.11	0.50
1:t:587:ASN:CB	3:tl:87:ARG:HH12	2.19	0.50
2:Lh:57:ARG:CD	2:Lh:113:TYR:CZ	2.93	0.50
2:Mh:57:ARG:CD	2:Mh:113:TYR:CZ	2.93	0.50
2:Sh:31:VAL:HG22	2:Sh:35:ARG:HB3	1.92	0.50
2:ih:52:GLY:O	2:ih:118:ALA:N	2.25	0.50
2:lh:31:VAL:HG22	2:lh:35:ARG:HB3	1.92	0.50
2:mh:81:ASP:HA	2:mh:84:LYS:CE	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:zh:53:MET:HB3	2:zh:98:LEU:CD2	2.35	0.50
2:8h:31:VAL:HG22	2:8h:35:ARG:HB3	1.92	0.50
2:8h:52:GLY:O	2:8h:118:ALA:N	2.25	0.50
3:Cl:107:TYR:HE2	3:Cl:126:VAL:HG22	1.64	0.50
3:Cl:107:TYR:O	3:Cl:123:GLY:HA2	2.12	0.50
3:Jl:58:GLN:NE2	3:Jl:107:TYR:OH	2.44	0.50
3:Jl:107:TYR:HE2	3:Jl:126:VAL:HG22	1.64	0.50
3:Jl:107:TYR:O	3:Jl:123:GLY:HA2	2.12	0.50
3:Kl:107:TYR:O	3:Kl:123:GLY:HA2	2.12	0.50
3:Ll:58:GLN:NE2	3:Ll:107:TYR:OH	2.44	0.50
3:Nl:107:TYR:O	3:Nl:123:GLY:HA2	2.12	0.50
3:Ul:42:CYS:O	3:Ul:91:SER:HB2	2.10	0.50
3:Zl:107:TYR:O	3:Zl:123:GLY:HA2	2.12	0.50
3:3l:107:TYR:HE2	3:3l:126:VAL:HG22	1.64	0.50
3:5l:58:GLN:NE2	3:5l:107:TYR:OH	2.44	0.50
3:5l:107:TYR:HE2	3:5l:126:VAL:HG22	1.64	0.50
3:al:50:GLY:H	3:al:87:ARG:NH2	2.08	0.50
3:al:125:LYS:N	3:al:125:LYS:CD	2.73	0.50
3:ll:27:PRO:O	3:ll:124:THR:OG1	2.22	0.50
3:ll:58:GLN:NE2	3:ll:107:TYR:OH	2.44	0.50
3:pl:107:TYR:O	3:pl:123:GLY:HA2	2.12	0.50
3:vl:107:TYR:O	3:vl:123:GLY:HA2	2.12	0.50
3:zl:50:GLY:H	3:zl:87:ARG:NH2	2.08	0.50
1:A:235:MET:SD	1:A:238:ARG:HB2	2.51	0.50
1:C:450:THR:CG2	1:C:457:GLN:HE21	2.24	0.50
1:D:450:THR:CG2	1:D:457:GLN:HE21	2.24	0.50
1:M:450:THR:CG2	1:M:457:GLN:HE21	2.24	0.50
1:Q:235:MET:SD	1:Q:238:ARG:HB2	2.51	0.50
1:S:450:THR:CG2	1:S:457:GLN:HE21	2.24	0.50
1:1:235:MET:SD	1:1:238:ARG:HB2	2.51	0.50
1:2:422:SER:HB2	1:2:424:TYR:CE2	2.46	0.50
1:6:422:SER:HB2	1:6:424:TYR:CE2	2.46	0.50
1:a:450:THR:CG2	1:a:457:GLN:HE21	2.24	0.50
1:c:587:ASN:CB	3:cl:87:ARG:HH12	2.19	0.50
1:d:235:MET:SD	1:d:238:ARG:HB2	2.51	0.50
1:i:450:THR:CG2	1:i:457:GLN:HE21	2.24	0.50
1:m:422:SER:HB2	1:m:424:TYR:CE2	2.46	0.50
1:p:235:MET:SD	1:p:238:ARG:HB2	2.51	0.50
1:p:587:ASN:CB	3:pl:87:ARG:HH12	2.19	0.50
1:p:710:VAL:O	1:p:713:THR:OG1	2.25	0.50
1:q:450:THR:CG2	1:q:457:GLN:HE21	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:450:THR:CG2	1:x:457:GLN:HE21	2.24	0.50
1:y:450:THR:CG2	1:y:457:GLN:HE21	2.24	0.50
1:8:235:MET:SD	1:8:238:ARG:HB2	2.51	0.50
2:Ch:53:MET:HB3	2:Ch:98:LEU:CD2	2.35	0.50
2:Ih:31:VAL:HG22	2:Ih:35:ARG:HB3	1.92	0.50
2:Jh:52:GLY:O	2:Jh:118:ALA:N	2.25	0.50
2:Nh:145:THR:O	2:Nh:145:THR:OG1	2.26	0.50
2:Uh:31:VAL:HG22	2:Uh:35:ARG:HB3	1.92	0.50
2:2h:31:VAL:HG22	2:2h:35:ARG:HB3	1.92	0.50
2:4h:31:VAL:HG22	2:4h:35:ARG:HB3	1.92	0.50
2:mh:31:VAL:HG22	2:mh:35:ARG:HB3	1.92	0.50
2:oh:31:VAL:HG22	2:oh:35:ARG:HB3	1.92	0.50
2:th:57:ARG:CD	2:th:113:TYR:CZ	2.93	0.50
3:Al:107:TYR:O	3:Al:123:GLY:HA2	2.12	0.50
3:Cl:50:GLY:H	3:Cl:87:ARG:NH2	2.08	0.50
3:Fl:50:GLY:H	3:Fl:87:ARG:NH2	2.08	0.50
3:Fl:107:TYR:O	3:Fl:123:GLY:HA2	2.12	0.50
3:Jl:34:PRO:HA	3:Jl:99:LEU:HB3	1.93	0.50
3:Pl:107:TYR:O	3:Pl:123:GLY:HA2	2.12	0.50
3:Ql:58:GLN:NE2	3:Ql:107:TYR:OH	2.44	0.50
3:Rl:27:PRO:O	3:Rl:124:THR:OG1	2.22	0.50
3:Rl:50:GLY:H	3:Rl:87:ARG:NH2	2.08	0.50
3:Sl:27:PRO:O	3:Sl:124:THR:OG1	2.22	0.50
3:Sl:58:GLN:NE2	3:Sl:107:TYR:OH	2.44	0.50
3:2l:107:TYR:O	3:2l:123:GLY:HA2	2.12	0.50
3:3l:58:GLN:NE2	3:3l:107:TYR:OH	2.44	0.50
3:6l:58:GLN:NE2	3:6l:107:TYR:OH	2.44	0.50
3:6l:107:TYR:O	3:6l:123:GLY:HA2	2.12	0.50
3:gl:50:GLY:H	3:gl:87:ARG:NH2	2.08	0.50
3:kl:50:GLY:H	3:kl:87:ARG:NH2	2.08	0.50
3:ql:107:TYR:O	3:ql:123:GLY:HA2	2.12	0.50
3:rl:50:GLY:H	3:rl:87:ARG:NH2	2.08	0.50
3:rl:58:GLN:NE2	3:rl:107:TYR:OH	2.44	0.50
3:sl:125:LYS:N	3:sl:125:LYS:CD	2.73	0.50
3:tl:58:GLN:NE2	3:tl:107:TYR:OH	2.44	0.50
3:xl:107:TYR:O	3:xl:123:GLY:HA2	2.12	0.50
3:yl:34:PRO:HA	3:yl:99:LEU:HB3	1.93	0.50
3:yl:107:TYR:O	3:yl:123:GLY:HA2	2.12	0.50
1:A:583:LEU:O	1:A:588:ARG:HD2	2.11	0.50
1:C:583:LEU:O	1:C:588:ARG:HD2	2.11	0.50
1:F:710:VAL:O	1:F:713:THR:OG1	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:710:VAL:O	1:H:713:THR:OG1	2.25	0.50
1:K:450:THR:CG2	1:K:457:GLN:HE21	2.24	0.50
1:N:235:MET:SD	1:N:238:ARG:HB2	2.51	0.50
1:T:587:ASN:CB	3:Tl:87:ARG:HH12	2.19	0.50
1:Z:235:MET:SD	1:Z:238:ARG:HB2	2.51	0.50
1:Z:710:VAL:O	1:Z:713:THR:OG1	2.25	0.50
1:a:583:LEU:O	1:a:588:ARG:HD2	2.11	0.50
1:a:710:VAL:O	1:a:713:THR:OG1	2.25	0.50
1:c:235:MET:SD	1:c:238:ARG:HB2	2.51	0.50
1:l:450:THR:CG2	1:l:457:GLN:HE21	2.24	0.50
1:l:587:ASN:HB3	3:ll:87:ARG:NH1	2.20	0.50
1:r:235:MET:SD	1:r:238:ARG:HB2	2.51	0.50
1:s:710:VAL:O	1:s:713:THR:OG1	2.25	0.50
1:v:450:THR:CG2	1:v:457:GLN:HE21	2.24	0.50
2:Ih:88:THR:HG22	2:Ih:101:GLN:HE22	1.38	0.50
2:Nh:31:VAL:HG22	2:Nh:35:ARG:HB3	1.92	0.50
2:Uh:81:ASP:HA	2:Uh:84:LYS:CE	2.37	0.50
2:Zh:31:VAL:HG22	2:Zh:35:ARG:HB3	1.92	0.50
2:6h:31:VAL:HG22	2:6h:35:ARG:HB3	1.92	0.50
2:bh:53:MET:HB3	2:bh:98:LEU:CD2	2.35	0.50
2:ch:31:VAL:HG22	2:ch:35:ARG:HB3	1.92	0.50
3:Cl:125:LYS:N	3:Cl:125:LYS:CD	2.73	0.50
3:El:107:TYR:O	3:El:123:GLY:HA2	2.12	0.50
3:Hl:107:TYR:O	3:Hl:123:GLY:HA2	2.12	0.50
3:Ml:107:TYR:O	3:Ml:123:GLY:HA2	2.12	0.50
3:Ql:50:GLY:H	3:Ql:87:ARG:NH2	2.08	0.50
3:Rl:107:TYR:O	3:Rl:123:GLY:HA2	2.12	0.50
3:Tl:33:THR:CG2	3:Tl:34:PRO:HD2	2.30	0.50
3:Yl:107:TYR:O	3:Yl:123:GLY:HA2	2.12	0.50
3:2l:58:GLN:NE2	3:2l:107:TYR:OH	2.44	0.50
3:bl:107:TYR:O	3:bl:123:GLY:HA2	2.12	0.50
3:dl:107:TYR:O	3:dl:123:GLY:HA2	2.12	0.50
3:gl:34:PRO:HA	3:gl:99:LEU:HB3	1.93	0.50
3:sl:107:TYR:O	3:sl:123:GLY:HA2	2.12	0.50
3:vl:27:PRO:O	3:vl:124:THR:OG1	2.22	0.50
3:8l:107:TYR:O	3:8l:123:GLY:HA2	2.12	0.50
1:C:710:VAL:O	1:C:713:THR:OG1	2.25	0.50
1:D:489:SER:N	1:D:495:ASN:HD21	1.92	0.50
1:D:583:LEU:O	1:D:588:ARG:HD2	2.11	0.50
1:I:587:ASN:CB	3:Il:87:ARG:HH12	2.19	0.50
1:J:450:THR:CG2	1:J:457:GLN:HE21	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:710:VAL:O	1:P:713:THR:OG1	2.25	0.50
1:2:450:THR:CG2	1:2:457:GLN:HE21	2.24	0.50
1:3:422:SER:HB2	1:3:424:TYR:CE2	2.46	0.50
1:d:710:VAL:O	1:d:713:THR:OG1	2.25	0.50
1:g:587:ASN:CB	3:gl:87:ARG:HH12	2.19	0.50
1:v:583:LEU:O	1:v:588:ARG:HD2	2.11	0.50
1:y:710:VAL:O	1:y:713:THR:OG1	2.25	0.50
1:8:450:THR:CG2	1:8:457:GLN:HE21	2.24	0.50
2:Dh:88:THR:HG22	2:Dh:101:GLN:HE22	1.38	0.50
2:4h:52:GLY:O	2:4h:118:ALA:N	2.25	0.50
2:bh:53:MET:CB	2:bh:98:LEU:HD22	2.34	0.50
2:hh:31:VAL:HG22	2:hh:35:ARG:HB3	1.92	0.50
3:Cl:58:GLN:NE2	3:Cl:107:TYR:OH	2.44	0.50
3:El:58:GLN:NE2	3:El:107:TYR:OH	2.44	0.50
3:Hl:34:PRO:HA	3:Hl:99:LEU:HB3	1.93	0.50
3:Il:33:THR:CG2	3:Il:34:PRO:HD2	2.30	0.50
3:Vl:50:GLY:H	3:Vl:87:ARG:NH2	2.08	0.50
3:Vl:58:GLN:NE2	3:Vl:107:TYR:OH	2.44	0.50
3:al:107:TYR:HE2	3:al:126:VAL:HG22	1.64	0.50
3:kl:107:TYR:O	3:kl:123:GLY:HA2	2.12	0.50
3:ll:107:TYR:HE2	3:ll:126:VAL:HG22	1.64	0.50
3:ml:58:GLN:NE2	3:ml:107:TYR:OH	2.44	0.50
3:sl:50:GLY:H	3:sl:87:ARG:NH2	2.08	0.50
3:tl:50:GLY:H	3:tl:87:ARG:NH2	2.08	0.50
1:D:235:MET:SD	1:D:238:ARG:HB2	2.51	0.50
1:S:587:ASN:HB3	3:Sl:87:ARG:NH1	2.20	0.50
1:W:587:ASN:CB	3:Wl:87:ARG:HH12	2.19	0.50
1:5:422:SER:HB2	1:5:424:TYR:CE2	2.46	0.50
1:6:450:THR:CG2	1:6:457:GLN:HE21	2.24	0.50
1:e:235:MET:SD	1:e:238:ARG:HB2	2.51	0.50
1:r:422:SER:HB2	1:r:424:TYR:CE2	2.46	0.50
1:s:353:VAL:H	1:s:645:GLN:NE2	2.08	0.50
1:y:583:LEU:O	1:y:588:ARG:HD2	2.11	0.50
2:Mh:53:MET:CB	2:Mh:98:LEU:HD22	2.34	0.50
2:2h:53:MET:HB3	2:2h:98:LEU:CD2	2.35	0.50
2:ch:53:MET:HB3	2:ch:98:LEU:CD2	2.35	0.50
2:ih:53:MET:HB3	2:ih:98:LEU:CD2	2.35	0.50
2:sh:81:ASP:HA	2:sh:84:LYS:CE	2.37	0.50
2:uh:145:THR:O	2:uh:145:THR:OG1	2.26	0.50
3:El:33:THR:CG2	3:El:34:PRO:CD	2.90	0.50
3:Fl:125:LYS:N	3:Fl:125:LYS:CD	2.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Tl:34:PRO:HA	3:Tl:99:LEU:HB3	1.93	0.50
3:Ul:58:GLN:NE2	3:Ul:107:TYR:OH	2.44	0.50
3:Vl:125:LYS:N	3:Vl:125:LYS:CD	2.73	0.50
3:dl:58:GLN:NE2	3:dl:107:TYR:OH	2.44	0.50
3:jl:58:GLN:NE2	3:jl:107:TYR:OH	2.44	0.50
3:ql:58:GLN:NE2	3:ql:107:TYR:OH	2.44	0.50
3:rl:34:PRO:HA	3:rl:99:LEU:HB3	1.93	0.50
3:vl:33:THR:CG2	3:vl:34:PRO:CD	2.90	0.50
3:7l:107:TYR:O	3:7l:123:GLY:HA2	2.12	0.50
1:F:353:VAL:H	1:F:645:GLN:NE2	2.08	0.50
1:H:239:VAL:HG13	1:H:684:TRP:HB2	1.94	0.50
1:J:583:LEU:O	1:J:588:ARG:HD2	2.11	0.50
1:L:239:VAL:HG13	1:L:684:TRP:HB2	1.94	0.50
1:Q:239:VAL:HG13	1:Q:684:TRP:HB2	1.94	0.50
1:e:489:SER:N	1:e:495:ASN:HD21	1.92	0.50
1:e:583:LEU:O	1:e:588:ARG:HD2	2.11	0.50
1:r:239:VAL:HG13	1:r:684:TRP:HB2	1.94	0.50
1:t:239:VAL:HG13	1:t:684:TRP:HB2	1.94	0.50
1:y:239:VAL:HG13	1:y:684:TRP:HB2	1.94	0.50
2:Mh:53:MET:HB3	2:Mh:98:LEU:CD2	2.35	0.50
2:Nh:53:MET:HB3	2:Nh:98:LEU:CD2	2.35	0.50
2:Xh:53:MET:HB3	2:Xh:98:LEU:CD2	2.35	0.50
2:oh:88:THR:HG22	2:oh:101:GLN:HE22	1.38	0.50
2:sh:142:GLN:NE2	2:sh:142:GLN:N	2.60	0.50
3:Jl:27:PRO:O	3:Jl:124:THR:OG1	2.22	0.50
3:Ll:34:PRO:HA	3:Ll:99:LEU:HB3	1.93	0.50
3:Ll:50:GLY:H	3:Ll:87:ARG:NH2	2.08	0.50
3:Ol:107:TYR:O	3:Ol:123:GLY:HA2	2.12	0.50
3:Pl:58:GLN:NE2	3:Pl:107:TYR:OH	2.44	0.50
3:Ql:34:PRO:HA	3:Ql:99:LEU:HB3	1.93	0.50
3:Zl:34:PRO:HA	3:Zl:99:LEU:HB3	1.93	0.50
3:3l:34:PRO:HA	3:3l:99:LEU:HB3	1.93	0.50
3:al:58:GLN:NE2	3:al:107:TYR:OH	2.44	0.50
3:gl:33:THR:CG2	3:gl:34:PRO:HD2	2.30	0.50
3:jl:50:GLY:H	3:jl:87:ARG:NH2	2.08	0.50
3:jl:125:LYS:N	3:jl:125:LYS:CD	2.73	0.50
3:kl:27:PRO:O	3:kl:124:THR:OG1	2.22	0.50
3:ml:107:TYR:HE2	3:ml:126:VAL:HG22	1.64	0.50
3:vl:107:TYR:HE2	3:vl:126:VAL:HG22	1.64	0.50
1:L:235:MET:SD	1:L:238:ARG:HB2	2.51	0.50
1:N:422:SER:HB2	1:N:424:TYR:CE2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:422:SER:HB2	1:Q:424:TYR:CE2	2.46	0.50
1:R:239:VAL:HG13	1:R:684:TRP:HB2	1.94	0.50
1:Z:450:THR:CG2	1:Z:457:GLN:HE21	2.24	0.50
1:2:235:MET:SD	1:2:238:ARG:HB2	2.51	0.50
1:4:239:VAL:HG13	1:4:684:TRP:HB2	1.94	0.50
1:6:235:MET:SD	1:6:238:ARG:HB2	2.51	0.50
1:c:422:SER:HB2	1:c:424:TYR:CE2	2.46	0.50
1:h:239:VAL:HG13	1:h:684:TRP:HB2	1.94	0.50
1:w:239:VAL:HG13	1:w:684:TRP:HB2	1.94	0.50
1:x:710:VAL:O	1:x:713:THR:OG1	2.25	0.50
2:Fh:142:GLN:NE2	2:Fh:142:GLN:N	2.60	0.50
2:Mh:142:GLN:NE2	2:Mh:142:GLN:N	2.60	0.50
2:bh:142:GLN:NE2	2:bh:142:GLN:N	2.60	0.50
2:kh:53:MET:HB3	2:kh:98:LEU:CD2	2.35	0.50
2:lh:53:MET:CB	2:lh:98:LEU:HD22	2.34	0.50
3:Bl:58:GLN:NE2	3:Bl:107:TYR:OH	2.44	0.50
3:Dl:33:THR:CG2	3:Dl:34:PRO:HD2	2.30	0.50
3:Il:107:TYR:O	3:Il:123:GLY:HA2	2.12	0.50
3:Ql:107:TYR:O	3:Ql:123:GLY:HA2	2.12	0.50
3:Xl:100:GLN:NE2	3:Xl:100:GLN:CA	2.73	0.50
3:Zl:33:THR:CG2	3:Zl:34:PRO:HD2	2.30	0.50
3:4l:107:TYR:O	3:4l:123:GLY:HA2	2.12	0.50
3:5l:34:PRO:HA	3:5l:99:LEU:HB3	1.93	0.50
3:el:33:THR:CG2	3:el:34:PRO:HD2	2.30	0.50
3:ql:33:THR:CG2	3:ql:34:PRO:CD	2.90	0.50
3:tl:34:PRO:HA	3:tl:99:LEU:HB3	1.93	0.50
3:ul:58:GLN:NE2	3:ul:107:TYR:OH	2.44	0.50
3:8l:34:PRO:HA	3:8l:99:LEU:HB3	1.93	0.50
1:B:239:VAL:HG13	1:B:684:TRP:HB2	1.94	0.49
1:D:239:VAL:HG13	1:D:684:TRP:HB2	1.94	0.49
1:H:583:LEU:O	1:H:588:ARG:HD2	2.11	0.49
1:J:239:VAL:HG13	1:J:684:TRP:HB2	1.94	0.49
1:J:710:VAL:O	1:J:713:THR:OG1	2.25	0.49
1:K:710:VAL:O	1:K:713:THR:OG1	2.25	0.49
1:S:583:LEU:O	1:S:588:ARG:HD2	2.11	0.49
1:W:450:THR:CG2	1:W:457:GLN:HE21	2.24	0.49
1:W:587:ASN:HB3	3:Wl:87:ARG:NH1	2.20	0.49
1:1:239:VAL:HG13	1:1:684:TRP:HB2	1.94	0.49
1:e:239:VAL:HG13	1:e:684:TRP:HB2	1.94	0.49
1:k:239:VAL:HG13	1:k:684:TRP:HB2	1.94	0.49
1:m:235:MET:SD	1:m:238:ARG:HB2	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:235:MET:SD	1:o:238:ARG:HB2	2.51	0.49
1:o:587:ASN:CB	3:ol:87:ARG:HH12	2.19	0.49
1:t:235:MET:SD	1:t:238:ARG:HB2	2.51	0.49
1:u:239:VAL:HG13	1:u:684:TRP:HB2	1.94	0.49
1:y:587:ASN:HB3	3:yl:87:ARG:NH1	2.20	0.49
1:z:450:THR:CG2	1:z:457:GLN:HE21	2.24	0.49
2:Ah:53:MET:HB3	2:Ah:98:LEU:CD2	2.35	0.49
2:Bh:145:THR:O	2:Bh:145:THR:OG1	2.26	0.49
2:Zh:142:GLN:NE2	2:Zh:142:GLN:N	2.60	0.49
2:3h:142:GLN:NE2	2:3h:142:GLN:N	2.60	0.49
2:4h:142:GLN:NE2	2:4h:142:GLN:N	2.60	0.49
2:5h:142:GLN:NE2	2:5h:142:GLN:N	2.60	0.49
2:6h:53:MET:HB3	2:6h:98:LEU:CD2	2.35	0.49
2:hh:52:GLY:O	2:hh:118:ALA:N	2.25	0.49
2:hh:142:GLN:NE2	2:hh:142:GLN:N	2.60	0.49
2:lh:142:GLN:NE2	2:lh:142:GLN:N	2.60	0.49
2:nh:145:THR:O	2:nh:145:THR:OG1	2.26	0.49
2:vh:52:GLY:O	2:vh:118:ALA:N	2.25	0.49
2:zh:142:GLN:NE2	2:zh:142:GLN:N	2.60	0.49
2:8h:142:GLN:NE2	2:8h:142:GLN:N	2.60	0.49
3:Al:33:THR:CG2	3:Al:34:PRO:HD2	2.30	0.49
3:Bl:33:THR:CG2	3:Bl:34:PRO:HD2	2.31	0.49
3:Yl:34:PRO:HA	3:Yl:99:LEU:HB3	1.93	0.49
3:fl:107:TYR:O	3:fl:123:GLY:HA2	2.12	0.49
3:hl:107:TYR:O	3:hl:123:GLY:HA2	2.12	0.49
3:il:100:GLN:NE2	3:il:100:GLN:CA	2.73	0.49
3:ol:33:THR:CG2	3:ol:34:PRO:HD2	2.30	0.49
3:rl:107:TYR:O	3:rl:123:GLY:HA2	2.12	0.49
1:F:239:VAL:HG13	1:F:684:TRP:HB2	1.94	0.49
1:I:235:MET:SD	1:I:238:ARG:HB2	2.51	0.49
1:3:450:THR:CG2	1:3:457:GLN:HE21	2.24	0.49
1:5:450:THR:CG2	1:5:457:GLN:HE21	2.24	0.49
1:b:422:SER:HB2	1:b:424:TYR:CE2	2.46	0.49
1:l:583:LEU:O	1:l:588:ARG:HD2	2.11	0.49
1:n:239:VAL:HG13	1:n:684:TRP:HB2	1.94	0.49
1:v:239:VAL:HG13	1:v:684:TRP:HB2	1.94	0.49
1:z:239:VAL:HG13	1:z:684:TRP:HB2	1.94	0.49
2:Fh:81:ASP:HA	2:Fh:84:LYS:CE	2.37	0.49
2:Hh:68:ALA:HA	2:Hh:78:TYR:O	2.13	0.49
2:Jh:142:GLN:NE2	2:Jh:142:GLN:N	2.60	0.49
2:Sh:142:GLN:NE2	2:Sh:142:GLN:N	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Wh:142:GLN:NE2	2:Wh:142:GLN:N	2.60	0.49
2:ih:81:ASP:HA	2:ih:84:LYS:CE	2.37	0.49
2:jh:142:GLN:NE2	2:jh:142:GLN:N	2.60	0.49
2:ph:53:MET:HB3	2:ph:98:LEU:CD2	2.35	0.49
2:vh:142:GLN:NE2	2:vh:142:GLN:N	2.60	0.49
2:yh:31:VAL:HG22	2:yh:35:ARG:HB3	1.92	0.49
2:yh:68:ALA:HA	2:yh:78:TYR:O	2.13	0.49
3:Il:33:THR:CG2	3:Il:34:PRO:CD	2.90	0.49
3:Ul:107:TYR:O	3:Ul:123:GLY:HA2	2.12	0.49
3:Vl:33:THR:CG2	3:Vl:34:PRO:HD2	2.30	0.49
3:Xl:107:TYR:O	3:Xl:123:GLY:HA2	2.12	0.49
3:Zl:33:THR:CG2	3:Zl:34:PRO:CD	2.90	0.49
3:bl:58:GLN:NE2	3:bl:107:TYR:OH	2.44	0.49
3:ml:34:PRO:HA	3:ml:99:LEU:HB3	1.93	0.49
3:ml:107:TYR:O	3:ml:123:GLY:HA2	2.12	0.49
3:ol:107:TYR:O	3:ol:123:GLY:HA2	2.12	0.49
3:7l:33:THR:CG2	3:7l:34:PRO:CD	2.90	0.49
1:G:239:VAL:HG13	1:G:684:TRP:HB2	1.94	0.49
1:P:587:ASN:CB	3:Pl:87:ARG:HH12	2.19	0.49
1:S:422:SER:HB2	1:S:424:TYR:CE2	2.46	0.49
1:U:235:MET:SD	1:U:238:ARG:HB2	2.51	0.49
1:W:239:VAL:HG13	1:W:684:TRP:HB2	1.94	0.49
1:2:239:VAL:HG13	1:2:684:TRP:HB2	1.94	0.49
1:l:422:SER:HB2	1:l:424:TYR:CE2	2.46	0.49
1:s:239:VAL:HG13	1:s:684:TRP:HB2	1.94	0.49
2:Ch:142:GLN:NE2	2:Ch:142:GLN:N	2.60	0.49
2:Hh:31:VAL:HG22	2:Hh:35:ARG:HB3	1.92	0.49
2:Qh:142:GLN:NE2	2:Qh:142:GLN:N	2.60	0.49
2:Rh:53:MET:HB3	2:Rh:98:LEU:CD2	2.35	0.49
2:Vh:142:GLN:NE2	2:Vh:142:GLN:N	2.60	0.49
2:ah:142:GLN:NE2	2:ah:142:GLN:N	2.60	0.49
2:rh:142:GLN:NE2	2:rh:142:GLN:N	2.60	0.49
2:uh:142:GLN:NE2	2:uh:142:GLN:N	2.60	0.49
2:7h:68:ALA:HA	2:7h:78:TYR:O	2.13	0.49
3:Ml:58:GLN:NE2	3:Ml:107:TYR:OH	2.44	0.49
3:Vl:107:TYR:O	3:Vl:123:GLY:HA2	2.12	0.49
3:Yl:33:THR:CG2	3:Yl:34:PRO:CD	2.90	0.49
3:2l:50:GLY:H	3:2l:87:ARG:NH2	2.08	0.49
3:il:107:TYR:O	3:il:123:GLY:HA2	2.12	0.49
3:jl:107:TYR:O	3:jl:123:GLY:HA2	2.12	0.49
3:ol:33:THR:CG2	3:ol:34:PRO:CD	2.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:7l:34:PRO:HA	3:7l:99:LEU:HB3	1.93	0.49
3:8l:33:THR:CG2	3:8l:34:PRO:CD	2.90	0.49
1:A:301:ASN:ND2	1:O:699:GLN:HE21	2.09	0.49
1:D:422:SER:HB2	1:D:424:TYR:CE2	2.46	0.49
1:M:422:SER:HB2	1:M:424:TYR:CE2	2.46	0.49
1:X:239:VAL:HG13	1:X:684:TRP:HB2	1.94	0.49
1:6:239:VAL:HG13	1:6:684:TRP:HB2	1.94	0.49
1:e:422:SER:HB2	1:e:424:TYR:CE2	2.46	0.49
1:q:239:VAL:HG13	1:q:684:TRP:HB2	1.94	0.49
1:x:235:MET:SD	1:x:238:ARG:HB2	2.51	0.49
1:z:587:ASN:CB	3:zl:87:ARG:HH12	2.19	0.49
1:z:587:ASN:HB3	3:zl:87:ARG:NH1	2.20	0.49
2:Bh:142:GLN:NE2	2:Bh:142:GLN:N	2.60	0.49
2:Gh:145:THR:O	2:Gh:145:THR:OG1	2.26	0.49
2:Kh:52:GLY:O	2:Kh:118:ALA:N	2.25	0.49
2:Lh:142:GLN:NE2	2:Lh:142:GLN:N	2.60	0.49
2:Th:68:ALA:HA	2:Th:78:TYR:O	2.13	0.49
2:Yh:68:ALA:HA	2:Yh:78:TYR:O	2.13	0.49
2:Zh:68:ALA:HA	2:Zh:78:TYR:O	2.13	0.49
2:th:142:GLN:NE2	2:th:142:GLN:N	2.60	0.49
2:xh:52:GLY:O	2:xh:118:ALA:N	2.25	0.49
2:7h:81:ASP:HA	2:7h:84:LYS:CE	2.37	0.49
2:8h:68:ALA:HA	2:8h:78:TYR:O	2.13	0.49
3:Dl:107:TYR:O	3:Dl:123:GLY:HA2	2.12	0.49
3:Ul:34:PRO:HA	3:Ul:99:LEU:HB3	1.93	0.49
3:tl:107:TYR:O	3:tl:123:GLY:HA2	2.12	0.49
3:8l:33:THR:CG2	3:8l:34:PRO:HD2	2.30	0.49
1:A:371:MET:HB2	1:V:666:PHE:HE2	1.78	0.49
1:A:699:GLN:HE21	1:O:301:ASN:ND2	2.09	0.49
1:F:450:THR:CG2	1:F:457:GLN:HE21	2.24	0.49
1:K:235:MET:SD	1:K:238:ARG:HB2	2.51	0.49
1:K:239:VAL:HG13	1:K:684:TRP:HB2	1.94	0.49
1:Q:587:ASN:CB	3:Ql:87:ARG:HH12	2.19	0.49
1:V:450:THR:CG2	1:V:457:GLN:HE21	2.24	0.49
1:Y:710:VAL:O	1:Y:713:THR:OG1	2.25	0.49
1:3:710:VAL:O	1:3:713:THR:OG1	2.25	0.49
1:5:710:VAL:O	1:5:713:THR:OG1	2.25	0.49
1:d:587:ASN:CB	3:dl:87:ARG:HH12	2.19	0.49
1:i:239:VAL:HG13	1:i:684:TRP:HB2	1.94	0.49
1:j:450:THR:CG2	1:j:457:GLN:HE21	2.24	0.49
1:k:444:TYR:OH	1:k:469:ASP:OD2	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:710:VAL:O	1:v:713:THR:OG1	2.25	0.49
2:Oh:142:GLN:NE2	2:Oh:142:GLN:N	2.60	0.49
2:Sh:53:MET:CB	2:Sh:98:LEU:HD22	2.34	0.49
2:Uh:142:GLN:NE2	2:Uh:142:GLN:N	2.60	0.49
2:1h:52:GLY:O	2:1h:118:ALA:N	2.25	0.49
2:3h:68:ALA:HA	2:3h:78:TYR:O	2.13	0.49
2:5h:68:ALA:HA	2:5h:78:TYR:O	2.13	0.49
2:fh:142:GLN:NE2	2:fh:142:GLN:N	2.60	0.49
2:gh:68:ALA:HA	2:gh:78:TYR:O	2.13	0.49
2:th:81:ASP:HA	2:th:84:LYS:CE	2.37	0.49
2:wh:52:GLY:O	2:wh:118:ALA:N	2.25	0.49
2:7h:142:GLN:NE2	2:7h:142:GLN:N	2.60	0.49
3:Ll:107:TYR:O	3:Ll:123:GLY:HA2	2.12	0.49
3:Sl:107:TYR:O	3:Sl:123:GLY:HA2	2.12	0.49
3:Tl:107:TYR:O	3:Tl:123:GLY:HA2	2.12	0.49
3:Ul:107:TYR:HE2	3:Ul:126:VAL:HG22	1.64	0.49
3:Wl:107:TYR:O	3:Wl:123:GLY:HA2	2.12	0.49
3:5l:107:TYR:O	3:5l:123:GLY:HA2	2.12	0.49
3:gl:107:TYR:O	3:gl:123:GLY:HA2	2.12	0.49
3:jl:33:THR:CG2	3:jl:34:PRO:HD2	2.30	0.49
3:pl:33:THR:CG2	3:pl:34:PRO:HD2	2.31	0.49
3:ul:33:THR:CG2	3:ul:34:PRO:HD2	2.30	0.49
1:C:239:VAL:HG13	1:C:684:TRP:HB2	1.94	0.49
1:E:239:VAL:HG13	1:E:684:TRP:HB2	1.94	0.49
1:I:304:TRP:CE3	1:I:689:GLU:HA	2.48	0.49
1:S:710:VAL:O	1:S:713:THR:OG1	2.25	0.49
1:V:587:ASN:CB	3:Vl:87:ARG:HH12	2.19	0.49
1:d:450:THR:CG2	1:d:457:GLN:HE21	2.24	0.49
1:o:304:TRP:CE3	1:o:689:GLU:HA	2.48	0.49
1:q:489:SER:N	1:q:495:ASN:HD21	1.92	0.49
1:x:239:VAL:HG13	1:x:684:TRP:HB2	1.94	0.49
1:7:239:VAL:HG13	1:7:684:TRP:HB2	1.94	0.49
2:Dh:68:ALA:HA	2:Dh:78:TYR:O	2.13	0.49
2:Hh:52:GLY:O	2:Hh:118:ALA:N	2.25	0.49
2:Jh:53:MET:HB3	2:Jh:98:LEU:CD2	2.35	0.49
2:Ph:142:GLN:NE2	2:Ph:142:GLN:N	2.60	0.49
2:Rh:142:GLN:NE2	2:Rh:142:GLN:N	2.60	0.49
2:Xh:81:ASP:HA	2:Xh:84:LYS:CE	2.37	0.49
2:Yh:142:GLN:NE2	2:Yh:142:GLN:N	2.60	0.49
2:6h:53:MET:CB	2:6h:98:LEU:HD22	2.34	0.49
2:jh:68:ALA:HA	2:jh:78:TYR:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kh:142:GLN:NE2	2:kh:142:GLN:N	2.60	0.49
2:mh:142:GLN:NE2	2:mh:142:GLN:N	2.60	0.49
2:nh:81:ASP:HA	2:nh:84:LYS:CE	2.37	0.49
2:nh:142:GLN:NE2	2:nh:142:GLN:N	2.60	0.49
2:oh:81:ASP:HA	2:oh:84:LYS:CE	2.37	0.49
3:3l:107:TYR:O	3:3l:123:GLY:HA2	2.12	0.49
3:6l:50:GLY:H	3:6l:87:ARG:NH2	2.08	0.49
3:cl:34:PRO:HA	3:cl:99:LEU:HB3	1.93	0.49
3:el:107:TYR:O	3:el:123:GLY:HA2	2.12	0.49
1:E:489:SER:N	1:E:495:ASN:HD21	1.92	0.49
1:I:239:VAL:HG13	1:I:684:TRP:HB2	1.94	0.49
1:L:304:TRP:CE3	1:L:689:GLU:HA	2.48	0.49
1:O:304:TRP:CE3	1:O:689:GLU:HA	2.48	0.49
1:Q:304:TRP:CE3	1:Q:689:GLU:HA	2.48	0.49
1:R:304:TRP:CE3	1:R:689:GLU:HA	2.48	0.49
1:S:239:VAL:HG13	1:S:684:TRP:HB2	1.94	0.49
1:W:304:TRP:CE3	1:W:689:GLU:HA	2.48	0.49
1:Y:239:VAL:HG13	1:Y:684:TRP:HB2	1.94	0.49
1:4:304:TRP:CE3	1:4:689:GLU:HA	2.48	0.49
1:a:239:VAL:HG13	1:a:684:TRP:HB2	1.94	0.49
1:d:237:ASP:OD1	1:d:237:ASP:N	2.33	0.49
1:f:304:TRP:CE3	1:f:689:GLU:HA	2.48	0.49
1:h:304:TRP:CE3	1:h:689:GLU:HA	2.48	0.49
1:h:444:TYR:OH	1:h:469:ASP:OD2	2.21	0.49
1:k:304:TRP:CE3	1:k:689:GLU:HA	2.48	0.49
1:o:489:SER:N	1:o:495:ASN:HD21	1.92	0.49
1:r:304:TRP:CE3	1:r:689:GLU:HA	2.48	0.49
1:s:450:THR:CG2	1:s:457:GLN:HE21	2.24	0.49
1:t:304:TRP:CE3	1:t:689:GLU:HA	2.48	0.49
1:z:304:TRP:CE3	1:z:689:GLU:HA	2.48	0.49
2:Jh:68:ALA:HA	2:Jh:78:TYR:O	2.13	0.49
2:Vh:68:ALA:HA	2:Vh:78:TYR:O	2.13	0.49
2:Yh:81:ASP:HA	2:Yh:84:LYS:CE	2.37	0.49
2:Zh:53:MET:CB	2:Zh:98:LEU:HD22	2.34	0.49
2:1h:142:GLN:NE2	2:1h:142:GLN:N	2.60	0.49
2:2h:53:MET:CB	2:2h:98:LEU:HD22	2.34	0.49
2:eh:68:ALA:HA	2:eh:78:TYR:O	2.13	0.49
2:eh:142:GLN:NE2	2:eh:142:GLN:N	2.60	0.49
2:uh:68:ALA:HA	2:uh:78:TYR:O	2.13	0.49
2:vh:68:ALA:HA	2:vh:78:TYR:O	2.13	0.49
3:Bl:107:TYR:O	3:Bl:123:GLY:HA2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Nl:34:PRO:HA	3:Nl:99:LEU:HB3	1.93	0.49
3:il:125:LYS:N	3:il:125:LYS:CD	2.73	0.49
3:ll:107:TYR:O	3:ll:123:GLY:HA2	2.12	0.49
3:ul:107:TYR:O	3:ul:123:GLY:HA2	2.12	0.49
3:wl:34:PRO:HA	3:wl:99:LEU:HB3	1.93	0.49
3:zl:107:TYR:O	3:zl:123:GLY:HA2	2.12	0.49
1:C:304:TRP:CE3	1:C:689:GLU:HA	2.48	0.49
1:F:699:GLN:HE21	1:Z:301:ASN:ND2	2.11	0.49
1:G:371:MET:HB2	1:1:666:PHE:HE2	1.78	0.49
1:P:237:ASP:OD1	1:P:237:ASP:N	2.33	0.49
1:P:450:THR:CG2	1:P:457:GLN:HE21	2.24	0.49
1:Y:304:TRP:CE3	1:Y:689:GLU:HA	2.48	0.49
1:a:304:TRP:CE3	1:a:689:GLU:HA	2.48	0.49
1:l:239:VAL:HG13	1:l:684:TRP:HB2	1.94	0.49
1:r:587:ASN:CB	3:rl:87:ARG:HH12	2.19	0.49
1:x:444:TYR:OH	1:x:469:ASP:OD2	2.21	0.49
1:7:304:TRP:CE3	1:7:689:GLU:HA	2.48	0.49
1:7:710:VAL:O	1:7:713:THR:OG1	2.25	0.49
2:Bh:68:ALA:HA	2:Bh:78:TYR:O	2.13	0.49
2:Ch:145:THR:O	2:Ch:145:THR:OG1	2.26	0.49
2:Gh:68:ALA:HA	2:Gh:78:TYR:O	2.13	0.49
2:Gh:142:GLN:NE2	2:Gh:142:GLN:N	2.60	0.49
2:Kh:68:ALA:HA	2:Kh:78:TYR:O	2.13	0.49
2:Mh:68:ALA:HA	2:Mh:78:TYR:O	2.13	0.49
2:4h:53:MET:HB3	2:4h:98:LEU:CD2	2.35	0.49
2:4h:81:ASP:HA	2:4h:84:LYS:CE	2.37	0.49
2:ah:145:THR:O	2:ah:145:THR:OG1	2.26	0.49
2:nh:68:ALA:HA	2:nh:78:TYR:O	2.13	0.49
2:oh:142:GLN:NE2	2:oh:142:GLN:N	2.60	0.49
2:rh:145:THR:O	2:rh:145:THR:OG1	2.26	0.49
2:wh:142:GLN:NE2	2:wh:142:GLN:N	2.60	0.49
2:yh:53:MET:HB3	2:yh:98:LEU:CD2	2.35	0.49
3:Gl:33:THR:CG2	3:Gl:34:PRO:HD2	2.30	0.49
3:Xl:125:LYS:N	3:Xl:125:LYS:CD	2.73	0.49
3:1l:107:TYR:O	3:1l:123:GLY:HA2	2.12	0.49
1:E:304:TRP:CE3	1:E:689:GLU:HA	2.48	0.49
1:l:710:VAL:O	1:l:713:THR:OG1	2.25	0.49
1:o:239:VAL:HG13	1:o:684:TRP:HB2	1.94	0.49
1:q:304:TRP:CE3	1:q:689:GLU:HA	2.48	0.49
1:s:699:GLN:HE21	1:8:301:ASN:ND2	2.11	0.49
2:Gh:81:ASP:HA	2:Gh:84:LYS:CE	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ih:81:ASP:HA	2:Ih:84:LYS:CE	2.37	0.49
2:Ih:142:GLN:NE2	2:Ih:142:GLN:N	2.60	0.49
2:Lh:68:ALA:HA	2:Lh:78:TYR:O	2.13	0.49
2:Lh:81:ASP:HA	2:Lh:84:LYS:CE	2.37	0.49
2:Oh:145:THR:O	2:Oh:145:THR:OG1	2.26	0.49
2:Qh:68:ALA:HA	2:Qh:78:TYR:O	2.13	0.49
2:Xh:142:GLN:NE2	2:Xh:142:GLN:N	2.60	0.49
2:2h:128:LYS:N	2:2h:128:LYS:CD	2.73	0.49
2:bh:68:ALA:HA	2:bh:78:TYR:O	2.13	0.49
2:dh:142:GLN:NE2	2:dh:142:GLN:N	2.60	0.49
2:qh:68:ALA:HA	2:qh:78:TYR:O	2.13	0.49
2:rh:68:ALA:HA	2:rh:78:TYR:O	2.13	0.49
2:th:68:ALA:HA	2:th:78:TYR:O	2.13	0.49
2:xh:68:ALA:HA	2:xh:78:TYR:O	2.13	0.49
3:Ul:33:THR:CG2	3:Ul:34:PRO:HD2	2.31	0.49
3:1l:34:PRO:HA	3:1l:99:LEU:HB3	1.93	0.49
3:el:31:SER:HB3	3:el:127:THR:HG1	1.75	0.49
3:wl:107:TYR:O	3:wl:123:GLY:HA2	2.12	0.49
1:G:293:PRO:HB2	1:6:696:PRO:HD3	1.95	0.49
1:N:304:TRP:CE3	1:N:689:GLU:HA	2.48	0.49
1:2:304:TRP:CE3	1:2:689:GLU:HA	2.48	0.49
1:6:304:TRP:CE3	1:6:689:GLU:HA	2.48	0.49
1:h:422:SER:HB2	1:h:424:TYR:CE2	2.46	0.49
2:Eh:68:ALA:HA	2:Eh:78:TYR:O	2.13	0.49
2:ih:142:GLN:NE2	2:ih:142:GLN:N	2.60	0.49
2:kh:68:ALA:HA	2:kh:78:TYR:O	2.13	0.49
2:lh:68:ALA:HA	2:lh:78:TYR:O	2.13	0.49
2:vh:53:MET:HB3	2:vh:98:LEU:CD2	2.35	0.49
3:Ml:33:THR:CG2	3:Ml:34:PRO:CD	2.90	0.49
3:sl:107:TYR:HE2	3:sl:126:VAL:HG22	1.64	0.49
3:ul:125:LYS:N	3:ul:125:LYS:CD	2.73	0.49
1:A:304:TRP:CE3	1:A:689:GLU:HA	2.48	0.48
1:J:304:TRP:CE3	1:J:689:GLU:HA	2.48	0.48
1:J:454:THR:CG2	2:Jh:138:ASP:HB2	2.43	0.48
1:P:304:TRP:CE3	1:P:689:GLU:HA	2.48	0.48
1:S:304:TRP:CE3	1:S:689:GLU:HA	2.48	0.48
1:Y:454:THR:CG2	2:Yh:138:ASP:HB2	2.43	0.48
1:c:304:TRP:CE3	1:c:689:GLU:HA	2.48	0.48
1:d:304:TRP:CE3	1:d:689:GLU:HA	2.48	0.48
1:j:239:VAL:HG13	1:j:684:TRP:HB2	1.94	0.48
1:j:587:ASN:CB	3:jl:87:ARG:HH12	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:666:PHE:HE2	1:p:371:MET:HB2	1.78	0.48
1:n:304:TRP:CE3	1:n:689:GLU:HA	2.48	0.48
1:p:304:TRP:CE3	1:p:689:GLU:HA	2.48	0.48
1:s:304:TRP:CE3	1:s:689:GLU:HA	2.48	0.48
1:v:454:THR:CG2	2:vh:138:ASP:HB2	2.43	0.48
1:y:304:TRP:CE3	1:y:689:GLU:HA	2.48	0.48
1:7:454:THR:CG2	2:7h:138:ASP:HB2	2.43	0.48
2:Ah:142:GLN:NE2	2:Ah:142:GLN:N	2.60	0.48
2:Hh:53:MET:HB3	2:Hh:98:LEU:CD2	2.35	0.48
2:Rh:68:ALA:HA	2:Rh:78:TYR:O	2.13	0.48
2:6h:128:LYS:N	2:6h:128:LYS:CD	2.73	0.48
2:fh:145:THR:O	2:fh:145:THR:OG1	2.26	0.48
2:gh:142:GLN:NE2	2:gh:142:GLN:N	2.60	0.48
2:hh:81:ASP:HA	2:hh:84:LYS:CE	2.37	0.48
2:ph:142:GLN:NE2	2:ph:142:GLN:N	2.60	0.48
2:wh:68:ALA:HA	2:wh:78:TYR:O	2.13	0.48
2:yh:52:GLY:O	2:yh:118:ALA:N	2.25	0.48
2:8h:53:MET:CB	2:8h:98:LEU:HD22	2.34	0.48
3:Gl:107:TYR:O	3:Gl:123:GLY:HA2	2.12	0.48
3:Pl:33:THR:CG2	3:Pl:34:PRO:CD	2.90	0.48
3:1l:33:THR:CG2	3:1l:34:PRO:HD2	2.31	0.48
3:bl:33:THR:CG2	3:bl:34:PRO:CD	2.90	0.48
3:pl:125:LYS:N	3:pl:125:LYS:CD	2.73	0.48
3:wl:33:THR:CG2	3:wl:34:PRO:HD2	2.31	0.48
1:C:666:PHE:HE2	1:F:371:MET:HB2	1.78	0.48
1:E:699:GLN:HE21	1:3:301:ASN:ND2	2.12	0.48
1:F:304:TRP:CE3	1:F:689:GLU:HA	2.48	0.48
1:G:301:ASN:ND2	1:6:699:GLN:HE21	2.11	0.48
1:G:304:TRP:CE3	1:G:689:GLU:HA	2.48	0.48
1:H:304:TRP:CE3	1:H:689:GLU:HA	2.48	0.48
1:L:352:TYR:CE2	1:L:354:LEU:HB2	2.48	0.48
1:P:352:TYR:CE2	1:P:354:LEU:HB2	2.48	0.48
1:S:352:TYR:CE2	1:S:354:LEU:HB2	2.48	0.48
1:V:239:VAL:HG13	1:V:684:TRP:HB2	1.94	0.48
1:X:352:TYR:CE2	1:X:354:LEU:HB2	2.49	0.48
1:Z:239:VAL:HG13	1:Z:684:TRP:HB2	1.94	0.48
1:2:352:TYR:CE2	1:2:354:LEU:HB2	2.49	0.48
1:4:422:SER:HB2	1:4:424:TYR:CE2	2.46	0.48
1:a:666:PHE:HE2	1:s:371:MET:HB2	1.78	0.48
1:d:352:TYR:CE2	1:d:354:LEU:HB2	2.48	0.48
1:i:352:TYR:CE2	1:i:354:LEU:HB2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:710:VAL:O	1:k:713:THR:OG1	2.25	0.48
1:l:304:TRP:CE3	1:l:689:GLU:HA	2.48	0.48
1:l:352:TYR:CE2	1:l:354:LEU:HB2	2.48	0.48
1:m:304:TRP:CE3	1:m:689:GLU:HA	2.48	0.48
1:n:454:THR:CG2	2:nh:138:ASP:HB2	2.43	0.48
1:t:352:TYR:CE2	1:t:354:LEU:HB2	2.48	0.48
2:Fh:68:ALA:HA	2:Fh:78:TYR:O	2.13	0.48
2:Hh:142:GLN:NE2	2:Hh:142:GLN:N	2.60	0.48
2:Kh:142:GLN:NE2	2:Kh:142:GLN:N	2.60	0.48
2:Nh:142:GLN:NE2	2:Nh:142:GLN:N	2.60	0.48
2:Qh:145:THR:O	2:Qh:145:THR:OG1	2.26	0.48
2:Sh:68:ALA:HA	2:Sh:78:TYR:O	2.13	0.48
2:Th:142:GLN:NE2	2:Th:142:GLN:N	2.60	0.48
2:Vh:145:THR:O	2:Vh:145:THR:OG1	2.26	0.48
2:Wh:68:ALA:HA	2:Wh:78:TYR:O	2.13	0.48
2:ch:142:GLN:NE2	2:ch:142:GLN:N	2.60	0.48
2:hh:53:MET:HB3	2:hh:98:LEU:CD2	2.35	0.48
2:jh:145:THR:O	2:jh:145:THR:OG1	2.26	0.48
2:xh:142:GLN:NE2	2:xh:142:GLN:N	2.60	0.48
2:zh:68:ALA:HA	2:zh:78:TYR:O	2.13	0.48
2:8h:53:MET:HB3	2:8h:98:LEU:CD2	2.35	0.48
3:Bl:125:LYS:N	3:Bl:125:LYS:CD	2.73	0.48
3:Dl:33:THR:CG2	3:Dl:34:PRO:CD	2.90	0.48
3:Wl:33:THR:CG2	3:Wl:34:PRO:HD2	2.30	0.48
3:Xl:33:THR:CG2	3:Xl:34:PRO:HD2	2.30	0.48
3:dl:33:THR:CG2	3:dl:34:PRO:CD	2.90	0.48
3:nl:33:THR:CG2	3:nl:34:PRO:HD2	2.30	0.48
3:zl:33:THR:CG2	3:zl:34:PRO:HD2	2.30	0.48
1:B:352:TYR:CE2	1:B:354:LEU:HB2	2.49	0.48
1:D:304:TRP:CE3	1:D:689:GLU:HA	2.48	0.48
1:G:699:GLN:HE21	1:6:301:ASN:ND2	2.11	0.48
1:I:489:SER:N	1:I:495:ASN:HD21	1.92	0.48
1:M:454:THR:CG2	2:Mh:138:ASP:HB2	2.43	0.48
1:R:710:VAL:O	1:R:713:THR:OG1	2.25	0.48
1:T:239:VAL:HG13	1:T:684:TRP:HB2	1.94	0.48
1:U:304:TRP:CE3	1:U:689:GLU:HA	2.48	0.48
1:U:454:THR:CG2	2:Uh:138:ASP:HB2	2.43	0.48
1:6:352:TYR:CE2	1:6:354:LEU:HB2	2.49	0.48
1:b:454:THR:CG2	2:bh:138:ASP:HB2	2.43	0.48
1:e:304:TRP:CE3	1:e:689:GLU:HA	2.48	0.48
1:g:239:VAL:HG13	1:g:684:TRP:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:352:TYR:CE2	1:h:354:LEU:HB2	2.49	0.48
1:u:352:TYR:CE2	1:u:354:LEU:HB2	2.49	0.48
1:v:304:TRP:CE3	1:v:689:GLU:HA	2.48	0.48
2:Ah:53:MET:HB2	2:Ah:98:LEU:HD13	1.96	0.48
2:Ah:131:TYR:HD1	3:Al:112:TRP:CE3	2.31	0.48
2:Ph:68:ALA:HA	2:Ph:78:TYR:O	2.13	0.48
2:Qh:53:MET:HB2	2:Qh:98:LEU:HD13	1.96	0.48
2:1h:68:ALA:HA	2:1h:78:TYR:O	2.13	0.48
2:dh:68:ALA:HA	2:dh:78:TYR:O	2.13	0.48
2:mh:68:ALA:HA	2:mh:78:TYR:O	2.13	0.48
2:ph:53:MET:HB2	2:ph:98:LEU:HD13	1.96	0.48
2:rh:53:MET:HB2	2:rh:98:LEU:HD13	1.96	0.48
2:yh:142:GLN:NE2	2:yh:142:GLN:N	2.60	0.48
3:Vl:33:THR:CG2	3:Vl:34:PRO:CD	2.90	0.48
3:6l:33:THR:CG2	3:6l:34:PRO:CD	2.90	0.48
3:nl:107:TYR:O	3:nl:123:GLY:HA2	2.12	0.48
1:T:666:PHE:HE2	1:6:371:MET:HB2	1.79	0.48
1:V:352:TYR:CE2	1:V:354:LEU:HB2	2.48	0.48
1:W:352:TYR:CE2	1:W:354:LEU:HB2	2.48	0.48
1:X:304:TRP:CE3	1:X:689:GLU:HA	2.48	0.48
1:Z:371:MET:HB2	1:6:666:PHE:HE2	1.77	0.48
1:3:304:TRP:CE3	1:3:689:GLU:HA	2.48	0.48
1:4:352:TYR:CE2	1:4:354:LEU:HB2	2.49	0.48
1:5:301:ASN:ND2	1:q:699:GLN:HE21	2.12	0.48
1:5:304:TRP:CE3	1:5:689:GLU:HA	2.48	0.48
1:f:301:ASN:ND2	1:p:699:GLN:HE21	2.11	0.48
1:m:454:THR:CG2	2:mh:138:ASP:HB2	2.43	0.48
1:x:304:TRP:CE3	1:x:689:GLU:HA	2.48	0.48
1:z:352:TYR:CE2	1:z:354:LEU:HB2	2.48	0.48
1:8:239:VAL:HG13	1:8:684:TRP:HB2	1.94	0.48
2:Dh:142:GLN:NE2	2:Dh:142:GLN:N	2.60	0.48
2:Fh:88:THR:HB	2:Fh:101:GLN:HE21	1.79	0.48
2:Uh:68:ALA:HA	2:Uh:78:TYR:O	2.13	0.48
2:6h:68:ALA:HA	2:6h:78:TYR:O	2.13	0.48
2:jh:88:THR:HB	2:jh:101:GLN:HE21	1.79	0.48
2:sh:68:ALA:HA	2:sh:78:TYR:O	2.13	0.48
2:sh:88:THR:HB	2:sh:101:GLN:HE21	1.79	0.48
2:zh:88:THR:HB	2:zh:101:GLN:HE21	1.79	0.48
3:Bl:27:PRO:O	3:Bl:124:THR:OG1	2.22	0.48
3:cl:125:LYS:N	3:cl:125:LYS:CD	2.73	0.48
3:ml:33:THR:CG2	3:ml:34:PRO:HD2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:vl:125:LYS:N	3:vl:125:LYS:CD	2.73	0.48
3:zl:31:SER:HB3	3:zl:127:THR:HG1	1.78	0.48
1:J:352:TYR:CE2	1:J:354:LEU:HB2	2.48	0.48
1:M:239:VAL:HG13	1:M:684:TRP:HB2	1.94	0.48
1:M:699:GLN:HE21	1:4:301:ASN:ND2	2.12	0.48
1:T:304:TRP:CE3	1:T:689:GLU:HA	2.48	0.48
1:T:699:GLN:HE21	1:W:301:ASN:ND2	2.12	0.48
1:U:239:VAL:HG13	1:U:684:TRP:HB2	1.94	0.48
1:Y:352:TYR:CE2	1:Y:354:LEU:HB2	2.48	0.48
1:Y:565:ILE:HD12	1:Y:569:ASN:ND2	2.29	0.48
1:a:352:TYR:CE2	1:a:354:LEU:HB2	2.48	0.48
1:b:239:VAL:HG13	1:b:684:TRP:HB2	1.94	0.48
1:b:699:GLN:HE21	1:h:301:ASN:ND2	2.12	0.48
1:e:444:TYR:OH	1:e:469:ASP:OD2	2.21	0.48
1:g:304:TRP:CE3	1:g:689:GLU:HA	2.48	0.48
1:i:304:TRP:CE3	1:i:689:GLU:HA	2.48	0.48
1:j:352:TYR:CE2	1:j:354:LEU:HB2	2.48	0.48
1:7:565:ILE:HD12	1:7:569:ASN:ND2	2.29	0.48
2:Eh:53:MET:HB2	2:Eh:98:LEU:HD13	1.96	0.48
2:Lh:88:THR:HB	2:Lh:101:GLN:HE21	1.79	0.48
2:Oh:68:ALA:HA	2:Oh:78:TYR:O	2.13	0.48
2:Wh:88:THR:HB	2:Wh:101:GLN:HE21	1.79	0.48
2:4h:68:ALA:HA	2:4h:78:TYR:O	2.13	0.48
2:ch:68:ALA:HA	2:ch:78:TYR:O	2.13	0.48
2:fh:68:ALA:HA	2:fh:78:TYR:O	2.13	0.48
2:hh:68:ALA:HA	2:hh:78:TYR:O	2.13	0.48
2:lh:88:THR:HB	2:lh:101:GLN:HE21	1.79	0.48
2:oh:53:MET:CB	2:oh:98:LEU:HD22	2.34	0.48
2:oh:145:THR:O	2:oh:145:THR:OG1	2.26	0.48
2:ph:68:ALA:HA	2:ph:78:TYR:O	2.13	0.48
2:qh:53:MET:HB2	2:qh:98:LEU:HD13	1.96	0.48
2:zh:53:MET:CB	2:zh:98:LEU:HD22	2.34	0.48
2:zh:81:ASP:HA	2:zh:84:LYS:CE	2.37	0.48
3:Al:33:THR:CG2	3:Al:34:PRO:CD	2.90	0.48
3:Gl:33:THR:CG2	3:Gl:34:PRO:CD	2.90	0.48
3:Hl:33:THR:CG2	3:Hl:34:PRO:CD	2.90	0.48
3:Jl:125:LYS:N	3:Jl:125:LYS:CD	2.73	0.48
3:Ol:33:THR:CG2	3:Ol:34:PRO:HD2	2.30	0.48
3:Zl:125:LYS:N	3:Zl:125:LYS:CD	2.73	0.48
3:2l:33:THR:CG2	3:2l:34:PRO:CD	2.90	0.48
3:el:33:THR:CG2	3:el:34:PRO:CD	2.90	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:pl:33:THR:CG2	3:pl:34:PRO:CD	2.90	0.48
3:vl:100:GLN:NE2	3:vl:100:GLN:CA	2.73	0.48
1:A:239:VAL:HG13	1:A:684:TRP:HB2	1.94	0.48
1:C:352:TYR:CE2	1:C:354:LEU:HB2	2.48	0.48
1:E:371:MET:HB2	1:4:666:PHE:HE2	1.79	0.48
1:G:454:THR:CG2	2:Gh:138:ASP:HB2	2.44	0.48
1:I:565:ILE:HD12	1:I:569:ASN:ND2	2.29	0.48
1:K:304:TRP:CE3	1:K:689:GLU:HA	2.48	0.48
1:O:239:VAL:HG13	1:O:684:TRP:HB2	1.94	0.48
1:Q:666:PHE:HE2	1:h:371:MET:HB2	1.79	0.48
1:Z:352:TYR:CE2	1:Z:354:LEU:HB2	2.49	0.48
1:2:565:ILE:HD12	1:2:569:ASN:ND2	2.29	0.48
1:3:565:ILE:HD12	1:3:569:ASN:ND2	2.29	0.48
1:5:565:ILE:HD12	1:5:569:ASN:ND2	2.29	0.48
1:6:565:ILE:HD12	1:6:569:ASN:ND2	2.29	0.48
1:g:699:GLN:HE21	1:z:301:ASN:ND2	2.12	0.48
1:h:666:PHE:HE2	1:q:371:MET:HB2	1.79	0.48
1:m:239:VAL:HG13	1:m:684:TRP:HB2	1.94	0.48
1:v:352:TYR:CE2	1:v:354:LEU:HB2	2.48	0.48
1:7:352:TYR:CE2	1:7:354:LEU:HB2	2.48	0.48
2:Gh:114:TYR:CE1	2:Gh:142:GLN:HB3	2.49	0.48
2:Ih:68:ALA:HA	2:Ih:78:TYR:O	2.13	0.48
2:Lh:95:LYS:O	2:Lh:96:ASN:HB2	2.14	0.48
2:Ph:53:MET:HB2	2:Ph:98:LEU:HD13	1.96	0.48
2:Qh:53:MET:HB3	2:Qh:98:LEU:CD2	2.35	0.48
2:Sh:88:THR:HB	2:Sh:101:GLN:HE21	1.79	0.48
2:Xh:68:ALA:HA	2:Xh:78:TYR:O	2.13	0.48
2:Yh:114:TYR:CE1	2:Yh:142:GLN:HB3	2.49	0.48
2:Zh:53:MET:HB3	2:Zh:98:LEU:CD2	2.35	0.48
2:1h:95:LYS:O	2:1h:96:ASN:HB2	2.14	0.48
2:2h:68:ALA:HA	2:2h:78:TYR:O	2.13	0.48
2:2h:142:GLN:NE2	2:2h:142:GLN:N	2.60	0.48
2:3h:88:THR:HB	2:3h:101:GLN:HE21	1.79	0.48
2:ch:88:THR:HB	2:ch:101:GLN:HE21	1.79	0.48
2:eh:88:THR:HB	2:eh:101:GLN:HE21	1.79	0.48
2:eh:145:THR:O	2:eh:145:THR:OG1	2.26	0.48
2:fh:88:THR:HB	2:fh:101:GLN:HE21	1.79	0.48
2:jh:95:LYS:O	2:jh:96:ASN:HB2	2.14	0.48
2:mh:88:THR:HB	2:mh:101:GLN:HE21	1.79	0.48
2:mh:114:TYR:CE1	2:mh:142:GLN:HB3	2.49	0.48
2:oh:68:ALA:HA	2:oh:78:TYR:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ph:81:ASP:HA	2:ph:84:LYS:CE	2.37	0.48
2:rh:53:MET:HB3	2:rh:98:LEU:CD2	2.35	0.48
2:th:88:THR:HB	2:th:101:GLN:HE21	1.79	0.48
2:th:95:LYS:O	2:th:96:ASN:HB2	2.14	0.48
2:wh:114:TYR:CE1	2:wh:142:GLN:HB3	2.49	0.48
2:7h:114:TYR:CE1	2:7h:142:GLN:HB3	2.49	0.48
3:Bl:33:THR:CG2	3:Bl:34:PRO:CD	2.90	0.48
3:Fl:107:TYR:HE2	3:Fl:126:VAL:HG22	1.64	0.48
3:Kl:33:THR:CG2	3:Kl:34:PRO:HD2	2.30	0.48
3:jl:33:THR:CG2	3:jl:34:PRO:CD	2.90	0.48
3:sl:27:PRO:O	3:sl:124:THR:OG1	2.22	0.48
3:8l:125:LYS:N	3:8l:125:LYS:CD	2.73	0.48
1:E:565:ILE:HD12	1:E:569:ASN:ND2	2.29	0.48
1:N:699:GLN:HE21	1:r:301:ASN:ND2	2.12	0.48
1:P:239:VAL:HG13	1:P:684:TRP:HB2	1.94	0.48
1:T:444:TYR:OH	1:T:469:ASP:OD2	2.21	0.48
1:U:699:GLN:HE21	1:t:301:ASN:ND2	2.12	0.48
1:W:710:VAL:O	1:W:713:THR:OG1	2.25	0.48
1:5:239:VAL:HG13	1:5:684:TRP:HB2	1.94	0.48
1:c:352:TYR:CE2	1:c:354:LEU:HB2	2.48	0.48
1:f:239:VAL:HG13	1:f:684:TRP:HB2	1.94	0.48
1:j:237:ASP:OD1	1:j:237:ASP:N	2.34	0.48
1:o:565:ILE:HD12	1:o:569:ASN:ND2	2.29	0.48
1:q:352:TYR:CE2	1:q:354:LEU:HB2	2.49	0.48
1:q:450:THR:HG1	1:q:451:PRO:HD2	1.78	0.48
1:q:565:ILE:HD12	1:q:569:ASN:ND2	2.29	0.48
1:t:565:ILE:HD12	1:t:569:ASN:ND2	2.29	0.48
1:w:304:TRP:CE3	1:w:689:GLU:HA	2.48	0.48
1:x:352:TYR:CE2	1:x:354:LEU:HB2	2.48	0.48
1:y:565:ILE:HD12	1:y:569:ASN:ND2	2.29	0.48
1:8:352:TYR:CE2	1:8:354:LEU:HB2	2.49	0.48
2:Ah:68:ALA:HA	2:Ah:78:TYR:O	2.13	0.48
2:Bh:52:GLY:O	2:Bh:118:ALA:N	2.25	0.48
2:Ch:114:TYR:CE1	2:Ch:142:GLN:HB3	2.49	0.48
2:Dh:88:THR:HB	2:Dh:101:GLN:HE21	1.79	0.48
2:Fh:95:LYS:O	2:Fh:96:ASN:HB2	2.14	0.48
2:Fh:114:TYR:CE1	2:Fh:142:GLN:HB3	2.49	0.48
2:Ih:88:THR:HB	2:Ih:101:GLN:HE21	1.79	0.48
2:Kh:53:MET:CB	2:Kh:98:LEU:HD22	2.34	0.48
2:Nh:88:THR:HB	2:Nh:101:GLN:HE21	1.79	0.48
2:Oh:88:THR:HB	2:Oh:101:GLN:HE21	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ph:88:THR:HB	2:Ph:101:GLN:HE21	1.79	0.48
2:Rh:88:THR:HB	2:Rh:101:GLN:HE21	1.79	0.48
2:Uh:88:THR:HB	2:Uh:101:GLN:HE21	1.79	0.48
2:Uh:114:TYR:CE1	2:Uh:142:GLN:HB3	2.49	0.48
2:Vh:88:THR:HB	2:Vh:101:GLN:HE21	1.79	0.48
2:Wh:53:MET:CB	2:Wh:98:LEU:HD22	2.34	0.48
2:Wh:81:ASP:HA	2:Wh:84:LYS:CE	2.37	0.48
2:Yh:53:MET:HB3	2:Yh:98:LEU:CD2	2.35	0.48
2:Zh:114:TYR:CE1	2:Zh:142:GLN:HB3	2.49	0.48
2:1h:114:TYR:CE1	2:1h:142:GLN:HB3	2.49	0.48
2:3h:57:ARG:HG3	2:3h:113:TYR:CZ	2.49	0.48
2:5h:53:MET:HB3	2:5h:98:LEU:CD2	2.35	0.48
2:5h:57:ARG:HG3	2:5h:113:TYR:CZ	2.49	0.48
2:6h:142:GLN:NE2	2:6h:142:GLN:N	2.60	0.48
2:dh:53:MET:HB2	2:dh:98:LEU:HD13	1.96	0.48
2:dh:88:THR:HB	2:dh:101:GLN:HE21	1.79	0.48
2:fh:114:TYR:CE1	2:fh:142:GLN:HB3	2.49	0.48
2:nh:53:MET:HB2	2:nh:98:LEU:HD13	1.96	0.48
2:nh:114:TYR:CE1	2:nh:142:GLN:HB3	2.49	0.48
2:sh:114:TYR:CE1	2:sh:142:GLN:HB3	2.49	0.48
2:th:114:TYR:CE1	2:th:142:GLN:HB3	2.49	0.48
2:wh:95:LYS:O	2:wh:96:ASN:HB2	2.14	0.48
2:xh:53:MET:CB	2:xh:98:LEU:HD22	2.34	0.48
2:7h:53:MET:HB2	2:7h:98:LEU:HD13	1.96	0.48
2:8h:114:TYR:CE1	2:8h:142:GLN:HB3	2.49	0.48
3:Jl:100:GLN:NE2	3:Jl:100:GLN:CA	2.73	0.48
3:Nl:125:LYS:N	3:Nl:125:LYS:CD	2.73	0.48
3:Wl:31:SER:HB3	3:Wl:127:THR:HG1	1.78	0.48
3:4l:107:TYR:HE2	3:4l:126:VAL:HG22	1.64	0.48
3:fl:27:PRO:O	3:fl:124:THR:OG1	2.22	0.48
3:il:27:PRO:O	3:il:124:THR:OG1	2.22	0.48
3:il:33:THR:CG2	3:il:34:PRO:HD2	2.30	0.48
3:nl:33:THR:CG2	3:nl:34:PRO:CD	2.90	0.48
3:ul:33:THR:CG2	3:ul:34:PRO:CD	2.90	0.48
3:wl:115:SER:HA	3:wl:116:PRO:HD2	1.65	0.48
3:yl:33:THR:CG2	3:yl:34:PRO:CD	2.90	0.48
1:D:352:TYR:CE2	1:D:354:LEU:HB2	2.48	0.48
1:E:352:TYR:CE2	1:E:354:LEU:HB2	2.49	0.48
1:F:565:ILE:HD12	1:F:569:ASN:ND2	2.29	0.48
1:H:565:ILE:HD12	1:H:569:ASN:ND2	2.29	0.48
1:K:352:TYR:CE2	1:K:354:LEU:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:565:ILE:HD12	1:K:569:ASN:ND2	2.29	0.48
1:L:301:ASN:ND2	1:m:699:GLN:HE21	2.12	0.48
1:L:565:ILE:HD12	1:L:569:ASN:ND2	2.29	0.48
1:N:352:TYR:CE2	1:N:354:LEU:HB2	2.48	0.48
1:Q:301:ASN:ND2	1:c:699:GLN:HE21	2.12	0.48
1:R:352:TYR:CE2	1:R:354:LEU:HB2	2.49	0.48
1:R:454:THR:CG2	2:Rh:138:ASP:HB2	2.44	0.48
1:T:565:ILE:HD12	1:T:569:ASN:ND2	2.29	0.48
1:V:304:TRP:CE3	1:V:689:GLU:HA	2.48	0.48
1:2:237:ASP:OD1	1:2:237:ASP:N	2.33	0.48
1:2:454:THR:CG2	2:2h:138:ASP:HB2	2.44	0.48
1:3:239:VAL:HG13	1:3:684:TRP:HB2	1.94	0.48
1:4:371:MET:HB2	1:r:666:PHE:HE2	1.79	0.48
1:d:239:VAL:HG13	1:d:684:TRP:HB2	1.94	0.48
1:e:352:TYR:CE2	1:e:354:LEU:HB2	2.48	0.48
1:f:696:PRO:HD3	1:p:293:PRO:HB2	1.96	0.48
1:i:454:THR:CG2	2:ih:138:ASP:HB2	2.43	0.48
1:j:304:TRP:CE3	1:j:689:GLU:HA	2.48	0.48
1:k:454:THR:CG2	2:kh:138:ASP:HB2	2.44	0.48
1:p:239:VAL:HG13	1:p:684:TRP:HB2	1.94	0.48
1:r:352:TYR:CE2	1:r:354:LEU:HB2	2.49	0.48
1:s:565:ILE:HD12	1:s:569:ASN:ND2	2.29	0.48
1:x:565:ILE:HD12	1:x:569:ASN:ND2	2.29	0.48
1:z:710:VAL:O	1:z:713:THR:OG1	2.25	0.48
2:Ah:88:THR:HB	2:Ah:101:GLN:HE21	1.79	0.48
2:Ah:114:TYR:CE1	2:Ah:142:GLN:HB3	2.49	0.48
2:Ch:68:ALA:HA	2:Ch:78:TYR:O	2.13	0.48
2:Dh:145:THR:O	2:Dh:145:THR:OG1	2.26	0.48
2:Lh:114:TYR:CE1	2:Lh:142:GLN:HB3	2.49	0.48
2:Nh:68:ALA:HA	2:Nh:78:TYR:O	2.13	0.48
2:Oh:81:ASP:HA	2:Oh:84:LYS:CE	2.37	0.48
2:Oh:114:TYR:CE1	2:Oh:142:GLN:HB3	2.49	0.48
2:Ph:114:TYR:CE1	2:Ph:142:GLN:HB3	2.49	0.48
2:Rh:114:TYR:CE1	2:Rh:142:GLN:HB3	2.49	0.48
2:Vh:95:LYS:O	2:Vh:96:ASN:HB2	2.14	0.48
2:Xh:57:ARG:HG3	2:Xh:113:TYR:CZ	2.49	0.48
2:Yh:53:MET:HB2	2:Yh:98:LEU:HD13	1.96	0.48
2:1h:145:THR:O	2:1h:145:THR:OG1	2.26	0.48
2:5h:88:THR:HB	2:5h:101:GLN:HE21	1.79	0.48
2:ah:114:TYR:CE1	2:ah:142:GLN:HB3	2.49	0.48
2:ih:57:ARG:HG3	2:ih:113:TYR:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ih:68:ALA:HA	2:ih:78:TYR:O	2.13	0.48
2:kh:88:THR:HB	2:kh:101:GLN:HE21	1.79	0.48
2:kh:114:TYR:CE1	2:kh:142:GLN:HB3	2.49	0.48
2:oh:88:THR:HB	2:oh:101:GLN:HE21	1.79	0.48
2:ph:114:TYR:CE1	2:ph:142:GLN:HB3	2.49	0.48
2:qh:142:GLN:NE2	2:qh:142:GLN:N	2.60	0.48
2:sh:95:LYS:O	2:sh:96:ASN:HB2	2.14	0.48
2:uh:53:MET:HB2	2:uh:98:LEU:HD13	1.96	0.48
3:Al:125:LYS:N	3:Al:125:LYS:CD	2.73	0.48
3:Ol:27:PRO:O	3:Ol:124:THR:OG1	2.22	0.48
3:Zl:100:GLN:NE2	3:Zl:100:GLN:CA	2.73	0.48
1:A:587:ASN:CB	3:Al:87:ARG:HH11	2.01	0.48
1:B:304:TRP:CE3	1:B:689:GLU:HA	2.48	0.48
1:O:352:TYR:CE2	1:O:354:LEU:HB2	2.49	0.48
1:P:666:PHE:HE2	1:T:371:MET:HB2	1.79	0.48
1:Q:352:TYR:CE2	1:Q:354:LEU:HB2	2.49	0.48
1:S:565:ILE:HD12	1:S:569:ASN:ND2	2.29	0.48
1:X:454:THR:CG2	2:Xh:138:ASP:HB2	2.43	0.48
1:1:304:TRP:CE3	1:1:689:GLU:HA	2.48	0.48
1:2:371:MET:HB2	1:g:666:PHE:HE2	1.79	0.48
1:4:710:VAL:O	1:4:713:THR:OG1	2.25	0.48
1:c:565:ILE:HD12	1:c:569:ASN:ND2	2.29	0.48
1:d:666:PHE:HE2	1:g:371:MET:HB2	1.79	0.48
1:f:352:TYR:CE2	1:f:354:LEU:HB2	2.49	0.48
1:g:565:ILE:HD12	1:g:569:ASN:ND2	2.29	0.48
1:k:352:TYR:CE2	1:k:354:LEU:HB2	2.49	0.48
1:n:371:MET:HB2	1:w:666:PHE:HE2	1.79	0.48
1:n:565:ILE:HD12	1:n:569:ASN:ND2	2.29	0.48
1:t:454:THR:CG2	2:th:138:ASP:HB2	2.43	0.48
1:u:454:THR:CG2	2:uh:138:ASP:HB2	2.44	0.48
1:w:454:THR:CG2	2:wh:138:ASP:HB2	2.44	0.48
1:z:237:ASP:OD1	1:z:237:ASP:N	2.34	0.48
1:8:565:ILE:HD12	1:8:569:ASN:ND2	2.29	0.48
2:Bh:53:MET:HB2	2:Bh:98:LEU:HD13	1.96	0.48
2:Ch:57:ARG:HG3	2:Ch:113:TYR:CZ	2.49	0.48
2:Eh:114:TYR:CE1	2:Eh:142:GLN:HB3	2.49	0.48
2:Eh:142:GLN:NE2	2:Eh:142:GLN:N	2.60	0.48
2:Gh:53:MET:HB2	2:Gh:98:LEU:HD13	1.96	0.48
2:Ih:145:THR:O	2:Ih:145:THR:OG1	2.26	0.48
2:Jh:95:LYS:O	2:Jh:96:ASN:HB2	2.14	0.48
2:Nh:114:TYR:CE1	2:Nh:142:GLN:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3h:114:TYR:CE1	2:3h:142:GLN:HB3	2.49	0.48
2:ah:57:ARG:HG3	2:ah:113:TYR:CZ	2.49	0.48
2:bh:81:ASP:HA	2:bh:84:LYS:CE	2.37	0.48
2:dh:114:TYR:CE1	2:dh:142:GLN:HB3	2.49	0.48
2:ph:88:THR:HB	2:ph:101:GLN:HE21	1.79	0.48
2:qh:57:ARG:HG3	2:qh:113:TYR:CZ	2.49	0.48
2:qh:114:TYR:CE1	2:qh:142:GLN:HB3	2.49	0.48
2:th:53:MET:HB2	2:th:98:LEU:HD13	1.96	0.48
2:uh:88:THR:HB	2:uh:101:GLN:HE21	1.79	0.48
2:vh:95:LYS:O	2:vh:96:ASN:HB2	2.14	0.48
2:wh:145:THR:O	2:wh:145:THR:OG1	2.26	0.48
2:yh:95:LYS:O	2:yh:96:ASN:HB2	2.14	0.48
2:zh:53:MET:HB2	2:zh:98:LEU:HD13	1.96	0.48
3:Ql:33:THR:CG2	3:Ql:34:PRO:CD	2.90	0.48
3:3l:33:THR:CG2	3:3l:34:PRO:CD	2.90	0.48
3:ql:125:LYS:N	3:ql:125:LYS:CD	2.73	0.48
3:rl:33:THR:CG2	3:rl:34:PRO:CD	2.90	0.48
3:ul:27:PRO:O	3:ul:124:THR:OG1	2.22	0.48
1:A:352:TYR:CE2	1:A:354:LEU:HB2	2.49	0.48
1:B:454:THR:CG2	2:Bh:138:ASP:HB2	2.44	0.48
1:B:699:GLN:HE21	1:R:301:ASN:ND2	2.12	0.48
1:G:565:ILE:HD12	1:G:569:ASN:ND2	2.29	0.48
1:H:300:ILE:HD12	1:H:730:TYR:CE2	2.49	0.48
1:H:666:PHE:HE2	1:K:371:MET:HB2	1.79	0.48
1:I:710:VAL:O	1:I:713:THR:OG1	2.25	0.48
1:J:565:ILE:HD12	1:J:569:ASN:ND2	2.29	0.48
1:L:454:THR:CG2	2:Lh:138:ASP:HB2	2.43	0.48
1:N:565:ILE:HD12	1:N:569:ASN:ND2	2.29	0.48
1:P:699:GLN:HE21	1:V:301:ASN:ND2	2.12	0.48
1:T:301:ASN:ND2	1:W:699:GLN:HE21	2.12	0.48
1:Z:565:ILE:HD12	1:Z:569:ASN:ND2	2.29	0.48
1:2:699:GLN:HE21	1:n:301:ASN:ND2	2.12	0.48
1:4:565:ILE:HD12	1:4:569:ASN:ND2	2.29	0.48
1:b:304:TRP:CE3	1:b:689:GLU:HA	2.48	0.48
1:f:237:ASP:OD1	1:f:237:ASP:N	2.34	0.48
1:f:454:THR:CG2	2:fh:138:ASP:HB2	2.44	0.48
1:k:237:ASP:OD1	1:k:237:ASP:N	2.34	0.48
1:k:301:ASN:ND2	1:u:699:GLN:HE21	2.12	0.48
1:l:565:ILE:HD12	1:l:569:ASN:ND2	2.29	0.48
1:u:304:TRP:CE3	1:u:689:GLU:HA	2.48	0.48
1:x:371:MET:HB2	1:y:666:PHE:HE2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:300:ILE:HD12	1:y:730:TYR:CE2	2.49	0.48
2:Ah:64:LEU:HD21	3:Al:65:PRO:CG	2.44	0.48
2:Ah:81:ASP:HA	2:Ah:84:LYS:CE	2.37	0.48
2:Bh:88:THR:HB	2:Bh:101:GLN:HE21	1.79	0.48
2:Ch:95:LYS:O	2:Ch:96:ASN:HB2	2.14	0.48
2:Ch:121:GLN:HA	2:Ch:121:GLN:NE2	2.29	0.48
2:Eh:57:ARG:HG3	2:Eh:113:TYR:CZ	2.49	0.48
2:Eh:88:THR:HB	2:Eh:101:GLN:HE21	1.79	0.48
2:Hh:95:LYS:O	2:Hh:96:ASN:HB2	2.14	0.48
2:Ih:52:GLY:O	2:Ih:118:ALA:N	2.25	0.48
2:Ih:114:TYR:CE1	2:Ih:142:GLN:HB3	2.49	0.48
2:Lh:53:MET:HB2	2:Lh:98:LEU:HD13	1.96	0.48
2:Oh:53:MET:CB	2:Oh:98:LEU:HD22	2.34	0.48
2:Oh:88:THR:CG2	2:Oh:101:GLN:HE21	2.23	0.48
2:Rh:53:MET:HB2	2:Rh:98:LEU:HD13	1.96	0.48
2:Wh:53:MET:HB2	2:Wh:98:LEU:HD13	1.96	0.48
2:3h:53:MET:HB3	2:3h:98:LEU:CD2	2.35	0.48
2:5h:114:TYR:CE1	2:5h:142:GLN:HB3	2.49	0.48
2:6h:114:TYR:CE1	2:6h:142:GLN:HB3	2.49	0.48
2:ah:68:ALA:HA	2:ah:78:TYR:O	2.13	0.48
2:ah:121:GLN:NE2	2:ah:121:GLN:HA	2.29	0.48
2:bh:59:ALA:HB1	2:bh:60:PRO:HD2	1.96	0.48
2:ch:114:TYR:CE1	2:ch:142:GLN:HB3	2.49	0.48
2:kh:53:MET:HB2	2:kh:98:LEU:HD13	1.96	0.48
2:oh:114:TYR:CE1	2:oh:142:GLN:HB3	2.49	0.48
2:qh:88:THR:HB	2:qh:101:GLN:HE21	1.79	0.48
2:sh:53:MET:HB2	2:sh:98:LEU:HD13	1.96	0.48
2:wh:53:MET:HB2	2:wh:98:LEU:HD13	1.96	0.48
2:yh:53:MET:HB2	2:yh:98:LEU:HD13	1.96	0.48
2:yh:88:THR:HB	2:yh:101:GLN:HE21	1.79	0.48
3:Ml:27:PRO:O	3:Ml:124:THR:OG1	2.22	0.48
3:Tl:27:PRO:O	3:Tl:124:THR:OG1	2.22	0.48
3:5l:33:THR:CG2	3:5l:34:PRO:CD	2.90	0.48
3:6l:33:THR:CG2	3:6l:34:PRO:HD2	2.31	0.48
3:fl:33:THR:CG2	3:fl:34:PRO:HD2	2.30	0.48
3:8l:100:GLN:NE2	3:8l:100:GLN:CA	2.73	0.48
1:A:300:ILE:HD12	1:A:730:TYR:CE2	2.49	0.47
1:A:448:THR:HG23	1:3:501:SER:HB2	1.96	0.47
1:D:300:ILE:HD12	1:D:730:TYR:CE2	2.50	0.47
1:J:301:ASN:ND2	1:v:699:GLN:HE21	2.12	0.47
1:J:699:GLN:HE21	1:v:301:ASN:ND2	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:300:ILE:HD12	1:M:730:TYR:CE2	2.49	0.47
1:M:304:TRP:CE3	1:M:689:GLU:HA	2.48	0.47
1:M:352:TYR:CE2	1:M:354:LEU:HB2	2.49	0.47
1:S:454:THR:CG2	2:Sh:138:ASP:HB2	2.43	0.47
1:U:352:TYR:CE2	1:U:354:LEU:HB2	2.48	0.47
1:W:454:THR:CG2	2:Wh:138:ASP:HB2	2.43	0.47
1:5:454:THR:CG2	2:5h:138:ASP:HB2	2.44	0.47
1:b:300:ILE:HD12	1:b:730:TYR:CE2	2.49	0.47
1:d:300:ILE:HD12	1:d:730:TYR:CE2	2.49	0.47
1:d:699:GLN:HE21	1:j:301:ASN:ND2	2.12	0.47
1:e:300:ILE:HD12	1:e:730:TYR:CE2	2.50	0.47
1:g:301:ASN:ND2	1:z:699:GLN:HE21	2.12	0.47
1:g:444:TYR:OH	1:g:469:ASP:OD2	2.21	0.47
1:k:565:ILE:HD12	1:k:569:ASN:ND2	2.29	0.47
1:l:454:THR:CG2	2:lh:138:ASP:HB2	2.43	0.47
1:p:300:ILE:HD12	1:p:730:TYR:CE2	2.49	0.47
1:p:352:TYR:CE2	1:p:354:LEU:HB2	2.49	0.47
1:p:454:THR:CG2	2:ph:138:ASP:HB2	2.44	0.47
1:q:666:PHE:HE2	1:t:371:MET:HB2	1.79	0.47
1:v:565:ILE:HD12	1:v:569:ASN:ND2	2.29	0.47
1:y:352:TYR:CE2	1:y:354:LEU:HB2	2.48	0.47
1:8:304:TRP:CE3	1:8:689:GLU:HA	2.48	0.47
2:Ch:53:MET:HB2	2:Ch:98:LEU:HD13	1.96	0.47
2:Fh:53:MET:HB2	2:Fh:98:LEU:HD13	1.96	0.47
2:Hh:53:MET:HB2	2:Hh:98:LEU:HD13	1.96	0.47
2:Hh:88:THR:HB	2:Hh:101:GLN:HE21	1.79	0.47
2:Ih:53:MET:HB2	2:Ih:98:LEU:HD13	1.96	0.47
2:Nh:53:MET:HB2	2:Nh:98:LEU:HD13	1.96	0.47
2:Rh:95:LYS:O	2:Rh:96:ASN:HB2	2.14	0.47
2:Sh:53:MET:HB2	2:Sh:98:LEU:HD13	1.96	0.47
2:Wh:95:LYS:O	2:Wh:96:ASN:HB2	2.14	0.47
2:Yh:57:ARG:HG3	2:Yh:113:TYR:CZ	2.49	0.47
2:Zh:53:MET:HB2	2:Zh:98:LEU:HD13	1.96	0.47
2:1h:53:MET:HB2	2:1h:98:LEU:HD13	1.96	0.47
2:1h:121:GLN:HA	2:1h:121:GLN:NE2	2.29	0.47
2:2h:114:TYR:CE1	2:2h:142:GLN:HB3	2.49	0.47
2:4h:57:ARG:HG3	2:4h:113:TYR:CZ	2.49	0.47
2:4h:95:LYS:O	2:4h:96:ASN:HB2	2.14	0.47
2:ah:95:LYS:O	2:ah:96:ASN:HB2	2.14	0.47
2:hh:57:ARG:HG3	2:hh:113:TYR:CZ	2.49	0.47
2:kh:95:LYS:O	2:kh:96:ASN:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nh:121:GLN:HA	2:nh:121:GLN:NE2	2.29	0.47
2:oh:53:MET:HB2	2:oh:98:LEU:HD13	1.96	0.47
2:uh:114:TYR:CE1	2:uh:142:GLN:HB3	2.49	0.47
2:zh:95:LYS:O	2:zh:96:ASN:HB2	2.14	0.47
2:7h:53:MET:HB3	2:7h:98:LEU:CD2	2.35	0.47
2:7h:57:ARG:HG3	2:7h:113:TYR:CZ	2.49	0.47
2:8h:53:MET:HB2	2:8h:98:LEU:HD13	1.96	0.47
3:Hl:100:GLN:NE2	3:Hl:100:GLN:CA	2.73	0.47
3:Ol:33:THR:CG2	3:Ol:34:PRO:CD	2.90	0.47
1:E:587:ASN:CB	3:El:87:ARG:HH12	2.19	0.47
1:E:666:PHE:HE2	1:L:371:MET:HB2	1.79	0.47
1:F:301:ASN:ND2	1:Z:699:GLN:HE21	2.11	0.47
1:H:352:TYR:CE2	1:H:354:LEU:HB2	2.48	0.47
1:I:352:TYR:CE2	1:I:354:LEU:HB2	2.49	0.47
1:I:699:GLN:HE21	1:7:301:ASN:ND2	2.12	0.47
1:N:371:MET:HB2	1:S:666:PHE:HE2	1.79	0.47
1:P:300:ILE:HD12	1:P:730:TYR:CE2	2.49	0.47
1:R:300:ILE:HD12	1:R:730:TYR:CE2	2.49	0.47
1:R:565:ILE:HD12	1:R:569:ASN:ND2	2.29	0.47
1:S:300:ILE:HD12	1:S:730:TYR:CE2	2.49	0.47
1:T:352:TYR:CE2	1:T:354:LEU:HB2	2.49	0.47
1:V:237:ASP:OD1	1:V:237:ASP:N	2.34	0.47
1:V:300:ILE:HD12	1:V:730:TYR:CE2	2.49	0.47
1:V:371:MET:HB2	1:c:666:PHE:HE2	1.79	0.47
1:W:237:ASP:OD1	1:W:237:ASP:N	2.34	0.47
1:W:249:LEU:HD12	1:W:250:PRO:HD2	1.97	0.47
1:Y:301:ASN:ND2	1:o:699:GLN:HE21	2.12	0.47
1:2:301:ASN:ND2	1:n:699:GLN:HE21	2.12	0.47
1:6:237:ASP:OD1	1:6:237:ASP:N	2.34	0.47
1:6:444:TYR:OH	1:6:469:ASP:OD2	2.21	0.47
1:a:565:ILE:HD12	1:a:569:ASN:ND2	2.29	0.47
1:b:352:TYR:CE2	1:b:354:LEU:HB2	2.49	0.47
1:c:371:MET:HB2	1:l:666:PHE:HE2	1.79	0.47
1:e:454:THR:CG2	2:eh:138:ASP:HB2	2.43	0.47
1:g:352:TYR:CE2	1:g:354:LEU:HB2	2.48	0.47
1:h:565:ILE:HD12	1:h:569:ASN:ND2	2.29	0.47
1:j:300:ILE:HD12	1:j:730:TYR:CE2	2.49	0.47
1:k:300:ILE:HD12	1:k:730:TYR:CE2	2.49	0.47
1:l:300:ILE:HD12	1:l:730:TYR:CE2	2.49	0.47
1:m:352:TYR:CE2	1:m:354:LEU:HB2	2.48	0.47
1:n:695:ASN:HB2	1:n:696:PRO:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:301:ASN:ND2	1:8:699:GLN:HE21	2.11	0.47
1:w:352:TYR:CE2	1:w:354:LEU:HB2	2.49	0.47
1:z:249:LEU:HD12	1:z:250:PRO:HD2	1.97	0.47
1:z:454:THR:CG2	2:zh:138:ASP:HB2	2.43	0.47
2:Bh:114:TYR:CE1	2:Bh:142:GLN:HB3	2.49	0.47
2:Gh:121:GLN:NE2	2:Gh:121:GLN:HA	2.29	0.47
2:Lh:59:ALA:HB1	2:Lh:60:PRO:HD2	1.96	0.47
2:Mh:59:ALA:HB1	2:Mh:60:PRO:HD2	1.96	0.47
2:Mh:81:ASP:HA	2:Mh:84:LYS:CE	2.37	0.47
2:Mh:114:TYR:CE1	2:Mh:142:GLN:HB3	2.49	0.47
2:Qh:88:THR:CG2	2:Qh:101:GLN:HE21	2.23	0.47
2:Qh:88:THR:HB	2:Qh:101:GLN:HE21	1.79	0.47
2:Uh:95:LYS:O	2:Uh:96:ASN:HB2	2.14	0.47
2:Wh:114:TYR:CE1	2:Wh:142:GLN:HB3	2.49	0.47
2:1h:88:THR:HB	2:1h:101:GLN:HE21	1.79	0.47
2:4h:114:TYR:CE1	2:4h:142:GLN:HB3	2.49	0.47
2:ah:53:MET:HB2	2:ah:98:LEU:HD13	1.96	0.47
2:bh:114:TYR:CE1	2:bh:142:GLN:HB3	2.49	0.47
2:ch:53:MET:HB2	2:ch:98:LEU:HD13	1.96	0.47
2:fh:81:ASP:HA	2:fh:84:LYS:CE	2.37	0.47
2:fh:88:THR:CG2	2:fh:101:GLN:HE21	2.23	0.47
2:hh:114:TYR:CE1	2:hh:142:GLN:HB3	2.49	0.47
2:ih:95:LYS:O	2:ih:96:ASN:HB2	2.14	0.47
2:lh:53:MET:HB2	2:lh:98:LEU:HD13	1.96	0.47
2:mh:95:LYS:O	2:mh:96:ASN:HB2	2.14	0.47
2:oh:88:THR:CG2	2:oh:101:GLN:HE21	2.23	0.47
2:rh:88:THR:CG2	2:rh:101:GLN:HE21	2.23	0.47
2:wh:88:THR:HB	2:wh:101:GLN:HE21	1.79	0.47
2:wh:121:GLN:HA	2:wh:121:GLN:NE2	2.29	0.47
2:yh:114:TYR:CE1	2:yh:142:GLN:HB3	2.49	0.47
3:El:125:LYS:N	3:El:125:LYS:CD	2.73	0.47
3:al:115:SER:HA	3:al:116:PRO:HD2	1.65	0.47
3:hl:27:PRO:O	3:hl:124:THR:OG1	2.22	0.47
3:xl:33:THR:CG2	3:xl:34:PRO:HD2	2.30	0.47
1:A:565:ILE:HD12	1:A:569:ASN:ND2	2.29	0.47
1:B:666:PHE:HE2	1:P:371:MET:HB2	1.79	0.47
1:C:565:ILE:HD12	1:C:569:ASN:ND2	2.29	0.47
1:D:454:THR:CG2	2:Dh:138:ASP:HB2	2.43	0.47
1:E:300:ILE:HD12	1:E:730:TYR:CE2	2.50	0.47
1:F:454:THR:CG2	2:Fh:138:ASP:HB2	2.44	0.47
1:G:352:TYR:CE2	1:G:354:LEU:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:695:ASN:HB2	1:G:696:PRO:HD2	1.97	0.47
1:N:239:VAL:HG13	1:N:684:TRP:HB2	1.94	0.47
1:N:300:ILE:HD12	1:N:730:TYR:CE2	2.50	0.47
1:N:666:PHE:HE2	1:j:371:MET:HB2	1.79	0.47
1:U:293:PRO:HB2	1:t:696:PRO:HD3	1.97	0.47
1:Z:304:TRP:CE3	1:Z:689:GLU:HA	2.48	0.47
1:1:352:TYR:CE2	1:1:354:LEU:HB2	2.49	0.47
1:3:454:THR:CG2	2:3h:138:ASP:HB2	2.44	0.47
1:6:300:ILE:HD12	1:6:730:TYR:CE2	2.49	0.47
1:b:301:ASN:ND2	1:h:699:GLN:HE21	2.12	0.47
1:b:565:ILE:HD12	1:b:569:ASN:ND2	2.29	0.47
1:c:239:VAL:HG13	1:c:684:TRP:HB2	1.94	0.47
1:c:300:ILE:HD12	1:c:730:TYR:CE2	2.50	0.47
1:d:371:MET:HB2	1:u:666:PHE:HE2	1.79	0.47
1:f:699:GLN:HE21	1:p:301:ASN:ND2	2.11	0.47
1:o:352:TYR:CE2	1:o:354:LEU:HB2	2.49	0.47
1:q:300:ILE:HD12	1:q:730:TYR:CE2	2.50	0.47
1:y:454:THR:CG2	2:yh:138:ASP:HB2	2.44	0.47
2:Ah:64:LEU:HD13	3:Al:108:TYR:CE2	2.49	0.47
2:Bh:121:GLN:NE2	2:Bh:121:GLN:HA	2.29	0.47
2:Gh:53:MET:HB3	2:Gh:98:LEU:CD2	2.35	0.47
2:Ih:95:LYS:O	2:Ih:96:ASN:HB2	2.14	0.47
2:Jh:114:TYR:CE1	2:Jh:142:GLN:HB3	2.49	0.47
2:Mh:95:LYS:O	2:Mh:96:ASN:HB2	2.14	0.47
2:Sh:114:TYR:CE1	2:Sh:142:GLN:HB3	2.49	0.47
2:Th:59:ALA:HB1	2:Th:60:PRO:HD2	1.96	0.47
2:Uh:53:MET:HB2	2:Uh:98:LEU:HD13	1.96	0.47
2:Xh:88:THR:HB	2:Xh:101:GLN:HE21	1.79	0.47
2:Xh:95:LYS:O	2:Xh:96:ASN:HB2	2.14	0.47
2:Zh:95:LYS:O	2:Zh:96:ASN:HB2	2.14	0.47
2:Zh:121:GLN:HA	2:Zh:121:GLN:NE2	2.29	0.47
2:1h:59:ALA:HB1	2:1h:60:PRO:HD2	1.96	0.47
2:4h:59:ALA:HB1	2:4h:60:PRO:HD2	1.96	0.47
2:5h:95:LYS:O	2:5h:96:ASN:HB2	2.14	0.47
2:fh:53:MET:CB	2:fh:98:LEU:HD22	2.33	0.47
2:gh:59:ALA:HB1	2:gh:60:PRO:HD2	1.96	0.47
2:gh:121:GLN:HA	2:gh:121:GLN:NE2	2.29	0.47
2:hh:59:ALA:HB1	2:hh:60:PRO:HD2	1.96	0.47
2:hh:95:LYS:O	2:hh:96:ASN:HB2	2.14	0.47
2:jh:121:GLN:NE2	2:jh:121:GLN:HA	2.29	0.47
2:lh:114:TYR:CE1	2:lh:142:GLN:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mh:53:MET:HB2	2:mh:98:LEU:HD13	1.96	0.47
2:oh:52:GLY:O	2:oh:118:ALA:N	2.25	0.47
2:th:59:ALA:HB1	2:th:60:PRO:HD2	1.96	0.47
2:vh:88:THR:HB	2:vh:101:GLN:HE21	1.79	0.47
2:wh:59:ALA:HB1	2:wh:60:PRO:HD2	1.96	0.47
2:zh:114:TYR:CE1	2:zh:142:GLN:HB3	2.49	0.47
2:7h:88:THR:HB	2:7h:101:GLN:HE21	1.79	0.47
3:1l:125:LYS:N	3:1l:125:LYS:CD	2.73	0.47
3:fl:33:THR:CG2	3:fl:34:PRO:CD	2.90	0.47
3:hl:107:TYR:HE2	3:hl:126:VAL:HG22	1.64	0.47
1:A:695:ASN:HB2	1:A:696:PRO:HD2	1.97	0.47
1:C:371:MET:HB2	1:7:666:PHE:HE2	1.79	0.47
1:D:371:MET:HB2	1:m:666:PHE:HE2	1.80	0.47
1:F:352:TYR:CE2	1:F:354:LEU:HB2	2.48	0.47
1:H:454:THR:CG2	2:Hh:138:ASP:HB2	2.44	0.47
1:I:695:ASN:HB2	1:I:696:PRO:HD2	1.97	0.47
1:J:371:MET:HB2	1:i:666:PHE:HE2	1.79	0.47
1:K:249:LEU:HD12	1:K:250:PRO:HD2	1.97	0.47
1:L:696:PRO:HD3	1:m:293:PRO:HB2	1.97	0.47
1:M:301:ASN:ND2	1:4:699:GLN:HE21	2.12	0.47
1:M:565:ILE:HD12	1:M:569:ASN:ND2	2.29	0.47
1:O:454:THR:CG2	2:Oh:138:ASP:HB2	2.44	0.47
1:O:666:PHE:HE2	1:R:371:MET:HB2	1.79	0.47
1:Q:454:THR:CG2	2:Qh:138:ASP:HB2	2.44	0.47
1:U:666:PHE:HE2	1:e:371:MET:HB2	1.80	0.47
1:X:565:ILE:HD12	1:X:569:ASN:ND2	2.29	0.47
1:1:454:THR:CG2	2:1h:138:ASP:HB2	2.45	0.47
1:i:565:ILE:HD12	1:i:569:ASN:ND2	2.29	0.47
1:i:699:GLN:HE21	1:w:301:ASN:ND2	2.12	0.47
1:j:565:ILE:HD12	1:j:569:ASN:ND2	2.29	0.47
1:o:710:VAL:O	1:o:713:THR:OG1	2.25	0.47
1:p:565:ILE:HD12	1:p:569:ASN:ND2	2.29	0.47
1:p:695:ASN:HB2	1:p:696:PRO:HD2	1.97	0.47
1:s:454:THR:CG2	2:sh:138:ASP:HB2	2.44	0.47
1:u:565:ILE:HD12	1:u:569:ASN:ND2	2.29	0.47
1:x:249:LEU:HD12	1:x:250:PRO:HD2	1.97	0.47
1:z:565:ILE:HD12	1:z:569:ASN:ND2	2.29	0.47
2:Ah:52:GLY:O	2:Ah:118:ALA:N	2.25	0.47
2:Dh:57:ARG:HG3	2:Dh:113:TYR:CZ	2.49	0.47
2:Eh:59:ALA:HB1	2:Eh:60:PRO:HD2	1.96	0.47
2:Fh:88:THR:CB	2:Fh:101:GLN:NE2	2.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gh:95:LYS:O	2:Gh:96:ASN:HB2	2.14	0.47
2:Hh:80:ALA:O	2:Hh:84:LYS:HG3	2.15	0.47
2:Hh:114:TYR:CE1	2:Hh:142:GLN:HB3	2.49	0.47
2:Kh:53:MET:HB2	2:Kh:98:LEU:HD13	1.96	0.47
2:Kh:95:LYS:O	2:Kh:96:ASN:HB2	2.14	0.47
2:Oh:88:THR:CB	2:Oh:101:GLN:NE2	2.78	0.47
2:Ph:95:LYS:O	2:Ph:96:ASN:HB2	2.14	0.47
2:Th:121:GLN:HA	2:Th:121:GLN:NE2	2.29	0.47
2:Uh:80:ALA:O	2:Uh:84:LYS:HG3	2.15	0.47
2:Wh:121:GLN:HA	2:Wh:121:GLN:NE2	2.29	0.47
2:Yh:88:THR:HB	2:Yh:101:GLN:HE21	1.79	0.47
2:3h:95:LYS:O	2:3h:96:ASN:HB2	2.14	0.47
2:5h:88:THR:HG22	2:5h:101:GLN:HE22	1.38	0.47
2:bh:88:THR:HB	2:bh:101:GLN:HE21	1.79	0.47
2:bh:95:LYS:O	2:bh:96:ASN:HB2	2.14	0.47
2:eh:57:ARG:HG3	2:eh:113:TYR:CZ	2.49	0.47
2:eh:95:LYS:O	2:eh:96:ASN:HB2	2.14	0.47
2:fh:88:THR:CB	2:fh:101:GLN:NE2	2.78	0.47
2:ih:88:THR:HB	2:ih:101:GLN:HE21	1.79	0.47
2:mh:80:ALA:O	2:mh:84:LYS:HG3	2.15	0.47
2:nh:53:MET:HB3	2:nh:98:LEU:CD2	2.35	0.47
2:oh:95:LYS:O	2:oh:96:ASN:HB2	2.14	0.47
2:rh:88:THR:HB	2:rh:101:GLN:HE21	1.79	0.47
2:sh:88:THR:CB	2:sh:101:GLN:NE2	2.78	0.47
2:uh:52:GLY:O	2:uh:118:ALA:N	2.25	0.47
2:uh:121:GLN:HA	2:uh:121:GLN:NE2	2.29	0.47
2:vh:114:TYR:CE1	2:vh:142:GLN:HB3	2.49	0.47
2:zh:121:GLN:HA	2:zh:121:GLN:NE2	2.29	0.47
2:8h:95:LYS:O	2:8h:96:ASN:HB2	2.14	0.47
3:gl:27:PRO:O	3:gl:124:THR:OG1	2.22	0.47
3:yl:100:GLN:NE2	3:yl:100:GLN:CA	2.73	0.47
1:B:695:ASN:HB2	1:B:696:PRO:HD2	1.97	0.47
1:B:696:PRO:HD3	1:R:293:PRO:HB2	1.97	0.47
1:D:293:PRO:HB2	1:K:696:PRO:HD3	1.97	0.47
1:E:695:ASN:HB2	1:E:696:PRO:HD2	1.97	0.47
1:F:587:ASN:CB	3:Fl:87:ARG:HH12	2.19	0.47
1:H:249:LEU:HD12	1:H:250:PRO:HD2	1.97	0.47
1:I:666:PHE:HE2	1:w:371:MET:HB2	1.79	0.47
1:I:696:PRO:HD3	1:7:293:PRO:HB2	1.97	0.47
1:L:300:ILE:HD12	1:L:730:TYR:CE2	2.49	0.47
1:N:454:THR:CG2	2:Nh:138:ASP:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:237:ASP:OD1	1:O:237:ASP:N	2.34	0.47
1:R:237:ASP:OD1	1:R:237:ASP:N	2.34	0.47
1:T:695:ASN:HB2	1:T:696:PRO:HD2	1.97	0.47
1:T:696:PRO:HD3	1:W:293:PRO:HB2	1.97	0.47
1:V:565:ILE:HD12	1:V:569:ASN:ND2	2.29	0.47
1:W:565:ILE:HD12	1:W:569:ASN:ND2	2.29	0.47
1:X:666:PHE:HE2	1:v:371:MET:HB2	1.79	0.47
1:Y:293:PRO:HB2	1:o:696:PRO:HD3	1.97	0.47
1:Y:666:PHE:HE2	1:a:371:MET:HB2	1.79	0.47
1:Z:249:LEU:HD12	1:Z:250:PRO:HD2	1.97	0.47
1:1:249:LEU:HD12	1:1:250:PRO:HD2	1.97	0.47
1:2:300:ILE:HD12	1:2:730:TYR:CE2	2.50	0.47
1:c:454:THR:CG2	2:ch:138:ASP:HB2	2.43	0.47
1:e:293:PRO:HB2	1:x:696:PRO:HD3	1.97	0.47
1:f:300:ILE:HD12	1:f:730:TYR:CE2	2.49	0.47
1:f:666:PHE:HE2	1:k:371:MET:HB2	1.79	0.47
1:g:695:ASN:HB2	1:g:696:PRO:HD2	1.97	0.47
1:i:300:ILE:HD12	1:i:730:TYR:CE2	2.49	0.47
1:i:696:PRO:HD3	1:w:293:PRO:HB2	1.97	0.47
1:k:293:PRO:HB2	1:u:696:PRO:HD3	1.97	0.47
1:n:352:TYR:CE2	1:n:354:LEU:HB2	2.49	0.47
1:o:249:LEU:HD12	1:o:250:PRO:HD2	1.97	0.47
1:o:695:ASN:HB2	1:o:696:PRO:HD2	1.97	0.47
1:q:695:ASN:HB2	1:q:696:PRO:HD2	1.97	0.47
1:r:454:THR:CG2	2:rh:138:ASP:HB2	2.44	0.47
1:t:300:ILE:HD12	1:t:730:TYR:CE2	2.49	0.47
1:w:249:LEU:HD12	1:w:250:PRO:HD2	1.97	0.47
1:8:249:LEU:HD12	1:8:250:PRO:HD2	1.97	0.47
2:Dh:95:LYS:O	2:Dh:96:ASN:HB2	2.14	0.47
2:Dh:114:TYR:CE1	2:Dh:142:GLN:HB3	2.49	0.47
2:Gh:52:GLY:O	2:Gh:118:ALA:N	2.25	0.47
2:Ih:80:ALA:O	2:Ih:84:LYS:HG3	2.15	0.47
2:Ih:88:THR:CG2	2:Ih:101:GLN:HE21	2.23	0.47
2:Jh:59:ALA:HB1	2:Jh:60:PRO:HD2	1.96	0.47
2:Jh:88:THR:HB	2:Jh:101:GLN:HE21	1.79	0.47
2:Mh:88:THR:HB	2:Mh:101:GLN:HE21	1.79	0.47
2:Oh:59:ALA:HB1	2:Oh:60:PRO:HD2	1.96	0.47
2:Th:95:LYS:O	2:Th:96:ASN:HB2	2.14	0.47
2:Vh:121:GLN:NE2	2:Vh:121:GLN:HA	2.29	0.47
2:Yh:59:ALA:HB1	2:Yh:60:PRO:HD2	1.96	0.47
2:3h:88:THR:HG22	2:3h:101:GLN:HE22	1.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5h:80:ALA:O	2:5h:84:LYS:HG3	2.15	0.47
2:dh:95:LYS:O	2:dh:96:ASN:HB2	2.14	0.47
2:gh:53:MET:HB2	2:gh:98:LEU:HD13	1.96	0.47
2:gh:114:TYR:CE1	2:gh:142:GLN:HB3	2.49	0.47
2:nh:95:LYS:O	2:nh:96:ASN:HB2	2.14	0.47
2:oh:80:ALA:O	2:oh:84:LYS:HG3	2.15	0.47
2:qh:59:ALA:HB1	2:qh:60:PRO:HD2	1.96	0.47
2:vh:59:ALA:HB1	2:vh:60:PRO:HD2	1.96	0.47
2:xh:53:MET:HB2	2:xh:98:LEU:HD13	1.96	0.47
2:xh:81:ASP:HA	2:xh:84:LYS:CE	2.37	0.47
2:xh:95:LYS:O	2:xh:96:ASN:HB2	2.14	0.47
2:yh:80:ALA:O	2:yh:84:LYS:HG3	2.15	0.47
2:7h:59:ALA:HB1	2:7h:60:PRO:HD2	1.96	0.47
2:7h:95:LYS:O	2:7h:96:ASN:HB2	2.14	0.47
2:8h:88:THR:HB	2:8h:101:GLN:HE21	1.79	0.47
2:8h:121:GLN:HA	2:8h:121:GLN:NE2	2.29	0.47
3:Bl:100:GLN:NE2	3:Bl:100:GLN:CA	2.73	0.47
3:Wl:125:LYS:N	3:Wl:125:LYS:CD	2.73	0.47
3:gl:107:TYR:HE2	3:gl:126:VAL:HG22	1.64	0.47
3:wl:125:LYS:N	3:wl:125:LYS:CD	2.73	0.47
1:B:565:ILE:HD12	1:B:569:ASN:ND2	2.29	0.47
1:C:470:ILE:O	1:C:473:GLN:HG3	2.15	0.47
1:I:249:LEU:HD12	1:I:250:PRO:HD2	1.97	0.47
1:I:301:ASN:ND2	1:7:699:GLN:HE21	2.12	0.47
1:M:696:PRO:HD3	1:4:293:PRO:HB2	1.97	0.47
1:O:300:ILE:HD12	1:O:730:TYR:CE2	2.50	0.47
1:O:565:ILE:HD12	1:O:569:ASN:ND2	2.29	0.47
1:P:695:ASN:HB2	1:P:696:PRO:HD2	1.97	0.47
1:P:696:PRO:HD3	1:V:293:PRO:HB2	1.97	0.47
1:R:695:ASN:HB2	1:R:696:PRO:HD2	1.97	0.47
1:S:371:MET:HB2	1:b:666:PHE:HE2	1.79	0.47
1:V:470:ILE:O	1:V:473:GLN:HG3	2.15	0.47
1:3:470:ILE:O	1:3:473:GLN:HG3	2.15	0.47
1:5:470:ILE:O	1:5:473:GLN:HG3	2.15	0.47
1:a:699:GLN:HE21	1:y:301:ASN:ND2	2.12	0.47
1:b:695:ASN:HB2	1:b:696:PRO:HD2	1.97	0.47
1:b:696:PRO:HD3	1:h:293:PRO:HB2	1.97	0.47
1:d:695:ASN:HB2	1:d:696:PRO:HD2	1.97	0.47
1:d:696:PRO:HD3	1:j:293:PRO:HB2	1.97	0.47
1:f:565:ILE:HD12	1:f:569:ASN:ND2	2.29	0.47
1:g:696:PRO:HD3	1:z:293:PRO:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:470:ILE:O	1:j:473:GLN:HG3	2.15	0.47
1:m:450:THR:HG1	1:m:451:PRO:HD2	1.78	0.47
1:r:371:MET:HB2	1:z:666:PHE:HE2	1.79	0.47
1:s:352:TYR:CE2	1:s:354:LEU:HB2	2.49	0.47
1:u:300:ILE:HD12	1:u:730:TYR:CE2	2.49	0.47
1:u:444:TYR:OH	1:u:469:ASP:OD2	2.21	0.47
1:u:695:ASN:HB2	1:u:696:PRO:HD2	1.97	0.47
1:y:249:LEU:HD12	1:y:250:PRO:HD2	1.97	0.47
2:Gh:88:THR:CB	2:Gh:101:GLN:NE2	2.78	0.47
2:Jh:53:MET:HB2	2:Jh:98:LEU:HD13	1.96	0.47
2:Jh:80:ALA:O	2:Jh:84:LYS:HG3	2.15	0.47
2:Kh:81:ASP:HA	2:Kh:84:LYS:CE	2.37	0.47
2:Kh:88:THR:CB	2:Kh:101:GLN:NE2	2.78	0.47
2:Lh:80:ALA:O	2:Lh:84:LYS:HG3	2.15	0.47
2:Oh:95:LYS:O	2:Oh:96:ASN:HB2	2.14	0.47
2:Rh:88:THR:HG22	2:Rh:101:GLN:HE22	1.38	0.47
2:Th:53:MET:HB2	2:Th:98:LEU:HD13	1.96	0.47
2:Th:80:ALA:O	2:Th:84:LYS:HG3	2.15	0.47
2:Xh:31:VAL:HG11	2:Xh:105:LEU:HD22	1.97	0.47
2:Yh:95:LYS:O	2:Yh:96:ASN:HB2	2.14	0.47
2:Zh:88:THR:HB	2:Zh:101:GLN:HE21	1.79	0.47
2:2h:59:ALA:HB1	2:2h:60:PRO:HD2	1.96	0.47
2:3h:80:ALA:O	2:3h:84:LYS:HG3	2.15	0.47
2:5h:59:ALA:HB1	2:5h:60:PRO:HD2	1.96	0.47
2:6h:59:ALA:HB1	2:6h:60:PRO:HD2	1.96	0.47
2:bh:57:ARG:HG3	2:bh:113:TYR:CZ	2.49	0.47
2:eh:114:TYR:CE1	2:eh:142:GLN:HB3	2.49	0.47
2:fh:31:VAL:HG11	2:fh:105:LEU:HD22	1.97	0.47
2:fh:59:ALA:HB1	2:fh:60:PRO:HD2	1.96	0.47
2:fh:95:LYS:O	2:fh:96:ASN:HB2	2.14	0.47
2:jh:53:MET:HB3	2:jh:98:LEU:CD2	2.35	0.47
2:nh:88:THR:HB	2:nh:101:GLN:HE21	1.79	0.47
2:rh:114:TYR:CE1	2:rh:142:GLN:HB3	2.49	0.47
2:th:80:ALA:O	2:th:84:LYS:HG3	2.15	0.47
2:uh:59:ALA:HB1	2:uh:60:PRO:HD2	1.96	0.47
2:vh:80:ALA:O	2:vh:84:LYS:HG3	2.15	0.47
2:8h:88:THR:CB	2:8h:101:GLN:NE2	2.78	0.47
3:Ql:33:THR:CG2	3:Ql:34:PRO:HD2	2.30	0.47
3:Sl:33:THR:CG2	3:Sl:34:PRO:HD2	2.31	0.47
3:Yl:31:SER:HB3	3:Yl:127:THR:HG1	1.78	0.47
3:2l:33:THR:CG2	3:2l:34:PRO:HD2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4l:27:PRO:O	3:4l:124:THR:OG1	2.22	0.47
3:al:27:PRO:O	3:al:124:THR:OG1	2.22	0.47
3:ll:33:THR:CG2	3:ll:34:PRO:HD2	2.31	0.47
3:nl:99:LEU:HD12	3:nl:99:LEU:HA	1.78	0.47
3:rl:31:SER:HB3	3:rl:127:THR:HG1	1.79	0.47
3:ul:100:GLN:NE2	3:ul:100:GLN:CA	2.73	0.47
3:zl:115:SER:HA	3:zl:116:PRO:HD2	1.64	0.47
1:A:249:LEU:HD12	1:A:250:PRO:HD2	1.97	0.47
1:B:300:ILE:HD12	1:B:730:TYR:CE2	2.49	0.47
1:B:301:ASN:ND2	1:R:699:GLN:HE21	2.12	0.47
1:B:444:TYR:OH	1:B:469:ASP:OD2	2.21	0.47
1:B:470:ILE:O	1:B:473:GLN:HG3	2.15	0.47
1:C:300:ILE:HD12	1:C:730:TYR:CE2	2.49	0.47
1:C:699:GLN:HE21	1:H:301:ASN:ND2	2.12	0.47
1:D:565:ILE:HD12	1:D:569:ASN:ND2	2.29	0.47
1:E:454:THR:CG2	2:Eh:138:ASP:HB2	2.44	0.47
1:F:300:ILE:HD12	1:F:730:TYR:CE2	2.49	0.47
1:H:695:ASN:HB2	1:H:696:PRO:HD2	1.97	0.47
1:I:454:THR:CG2	2:Ih:138:ASP:HB2	2.44	0.47
1:J:470:ILE:O	1:J:473:GLN:HG3	2.15	0.47
1:J:587:ASN:CB	3:Jl:87:ARG:HH12	2.19	0.47
1:K:300:ILE:HD12	1:K:730:TYR:CE2	2.50	0.47
1:L:695:ASN:HB2	1:L:696:PRO:HD2	1.97	0.47
1:M:666:PHE:HE2	1:l:371:MET:HB2	1.79	0.47
1:M:695:ASN:HB2	1:M:696:PRO:HD2	1.97	0.47
1:N:237:ASP:OD1	1:N:237:ASP:N	2.34	0.47
1:N:293:PRO:HB2	1:r:696:PRO:HD3	1.97	0.47
1:N:470:ILE:O	1:N:473:GLN:HG3	2.15	0.47
1:O:470:ILE:O	1:O:473:GLN:HG3	2.15	0.47
1:P:249:LEU:HD12	1:P:250:PRO:HD2	1.97	0.47
1:P:293:PRO:HB2	1:V:696:PRO:HD3	1.97	0.47
1:P:301:ASN:ND2	1:V:699:GLN:HE21	2.12	0.47
1:P:470:ILE:O	1:P:473:GLN:HG3	2.15	0.47
1:Q:300:ILE:HD12	1:Q:730:TYR:CE2	2.50	0.47
1:Q:371:MET:HB2	1:W:666:PHE:HE2	1.79	0.47
1:Q:696:PRO:HD3	1:c:293:PRO:HB2	1.97	0.47
1:S:293:PRO:HB2	1:l:696:PRO:HD3	1.97	0.47
1:S:301:ASN:ND2	1:l:699:GLN:HE21	2.12	0.47
1:S:696:PRO:HD3	1:l:293:PRO:HB2	1.97	0.47
1:S:699:GLN:HE21	1:l:301:ASN:ND2	2.12	0.47
1:U:470:ILE:O	1:U:473:GLN:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:565:ILE:HD12	1:U:569:ASN:ND2	2.29	0.47
1:V:249:LEU:HD12	1:V:250:PRO:HD2	1.97	0.47
1:V:454:THR:CG2	2:Vh:138:ASP:HB2	2.44	0.47
1:W:300:ILE:HD12	1:W:730:TYR:CE2	2.50	0.47
1:X:300:ILE:HD12	1:X:730:TYR:CE2	2.49	0.47
1:X:699:GLN:HE21	1:1:301:ASN:ND2	2.12	0.47
1:Y:699:GLN:HE21	1:o:301:ASN:ND2	2.12	0.47
1:Z:454:THR:CG2	2:Zh:138:ASP:HB2	2.44	0.47
1:1:695:ASN:HB2	1:1:696:PRO:HD2	1.97	0.47
1:2:249:LEU:HD12	1:2:250:PRO:HD2	1.97	0.47
1:2:470:ILE:O	1:2:473:GLN:HG3	2.15	0.47
1:2:666:PHE:HE2	1:8:371:MET:HB2	1.79	0.47
1:5:666:PHE:HE2	1:f:371:MET:HB2	1.79	0.47
1:6:249:LEU:HD12	1:6:250:PRO:HD2	1.97	0.47
1:6:470:ILE:O	1:6:473:GLN:HG3	2.15	0.47
1:a:300:ILE:HD12	1:a:730:TYR:CE2	2.49	0.47
1:a:470:ILE:O	1:a:473:GLN:HG3	2.15	0.47
1:c:470:ILE:O	1:c:473:GLN:HG3	2.15	0.47
1:d:249:LEU:HD12	1:d:250:PRO:HD2	1.97	0.47
1:d:293:PRO:HB2	1:j:696:PRO:HD3	1.97	0.47
1:d:470:ILE:O	1:d:473:GLN:HG3	2.15	0.47
1:d:565:ILE:HD12	1:d:569:ASN:ND2	2.29	0.47
1:e:565:ILE:HD12	1:e:569:ASN:ND2	2.29	0.47
1:e:699:GLN:HE21	1:x:301:ASN:ND2	2.12	0.47
1:f:695:ASN:HB2	1:f:696:PRO:HD2	1.97	0.47
1:h:454:THR:CG2	2:hh:138:ASP:HB2	2.44	0.47
1:j:249:LEU:HD12	1:j:250:PRO:HD2	1.97	0.47
1:j:454:THR:CG2	2:jh:138:ASP:HB2	2.44	0.47
1:k:695:ASN:HB2	1:k:696:PRO:HD2	1.97	0.47
1:m:565:ILE:HD12	1:m:569:ASN:ND2	2.29	0.47
1:n:249:LEU:HD12	1:n:250:PRO:HD2	1.97	0.47
1:o:454:THR:CG2	2:oh:138:ASP:HB2	2.44	0.47
1:p:249:LEU:HD12	1:p:250:PRO:HD2	1.97	0.47
1:q:454:THR:CG2	2:qh:138:ASP:HB2	2.44	0.47
1:q:587:ASN:CB	3:ql:87:ARG:HH12	2.19	0.47
1:r:300:ILE:HD12	1:r:730:TYR:CE2	2.49	0.47
1:s:300:ILE:HD12	1:s:730:TYR:CE2	2.49	0.47
1:s:587:ASN:CB	3:sl:87:ARG:HH12	2.19	0.47
1:v:470:ILE:O	1:v:473:GLN:HG3	2.15	0.47
1:w:695:ASN:HB2	1:w:696:PRO:HD2	1.97	0.47
1:x:300:ILE:HD12	1:x:730:TYR:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:695:ASN:HB2	1:y:696:PRO:HD2	1.97	0.47
1:z:300:ILE:HD12	1:z:730:TYR:CE2	2.50	0.47
1:8:454:THR:CG2	2:8h:138:ASP:HB2	2.44	0.47
2:Bh:59:ALA:HB1	2:Bh:60:PRO:HD2	1.96	0.47
2:Bh:95:LYS:O	2:Bh:96:ASN:HB2	2.14	0.47
2:Eh:80:ALA:O	2:Eh:84:LYS:HG3	2.15	0.47
2:Fh:31:VAL:HG11	2:Fh:105:LEU:HD22	1.97	0.47
2:Fh:43:ALA:HB3	2:Fh:48:PHE:CD1	2.50	0.47
2:Gh:43:ALA:HB3	2:Gh:48:PHE:CD1	2.50	0.47
2:Hh:88:THR:CB	2:Hh:101:GLN:NE2	2.78	0.47
2:Ih:31:VAL:HG11	2:Ih:105:LEU:HD22	1.97	0.47
2:Jh:88:THR:CB	2:Jh:101:GLN:NE2	2.78	0.47
2:Kh:114:TYR:CE1	2:Kh:142:GLN:HB3	2.49	0.47
2:Lh:31:VAL:HG11	2:Lh:105:LEU:HD22	1.97	0.47
2:Mh:43:ALA:HB3	2:Mh:48:PHE:CD1	2.50	0.47
2:Mh:53:MET:HB2	2:Mh:98:LEU:HD13	1.96	0.47
2:Mh:57:ARG:HG3	2:Mh:113:TYR:CZ	2.49	0.47
2:Oh:31:VAL:HG11	2:Oh:105:LEU:HD22	1.97	0.47
2:Oh:53:MET:HB2	2:Oh:98:LEU:HD13	1.96	0.47
2:Qh:114:TYR:CE1	2:Qh:142:GLN:HB3	2.49	0.47
2:Rh:31:VAL:HG11	2:Rh:105:LEU:HD22	1.97	0.47
2:Rh:43:ALA:HB3	2:Rh:48:PHE:CD1	2.50	0.47
2:Sh:128:LYS:N	2:Sh:128:LYS:CD	2.73	0.47
2:Th:114:TYR:CE1	2:Th:142:GLN:HB3	2.49	0.47
2:Uh:121:GLN:NE2	2:Uh:121:GLN:HA	2.30	0.47
2:Vh:53:MET:HB3	2:Vh:98:LEU:CD2	2.35	0.47
2:Vh:80:ALA:O	2:Vh:84:LYS:HG3	2.15	0.47
2:Wh:43:ALA:HB3	2:Wh:48:PHE:CD1	2.50	0.47
2:Xh:53:MET:HB2	2:Xh:98:LEU:HD13	1.96	0.47
2:Xh:114:TYR:CE1	2:Xh:142:GLN:HB3	2.49	0.47
2:Yh:121:GLN:NE2	2:Yh:121:GLN:HA	2.29	0.47
2:Zh:88:THR:CB	2:Zh:101:GLN:NE2	2.78	0.47
2:1h:81:ASP:HA	2:1h:84:LYS:CE	2.37	0.47
2:2h:43:ALA:HB3	2:2h:48:PHE:CD1	2.50	0.47
2:2h:95:LYS:O	2:2h:96:ASN:HB2	2.14	0.47
2:3h:43:ALA:HB3	2:3h:48:PHE:CD1	2.50	0.47
2:3h:59:ALA:HB1	2:3h:60:PRO:HD2	1.96	0.47
2:5h:31:VAL:HG11	2:5h:105:LEU:HD22	1.97	0.47
2:5h:43:ALA:HB3	2:5h:48:PHE:CD1	2.50	0.47
2:6h:43:ALA:HB3	2:6h:48:PHE:CD1	2.50	0.47
2:6h:95:LYS:O	2:6h:96:ASN:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bh:43:ALA:HB3	2:bh:48:PHE:CD1	2.50	0.47
2:fh:53:MET:HB2	2:fh:98:LEU:HD13	1.96	0.47
2:gh:31:VAL:HG11	2:gh:105:LEU:HD22	1.97	0.47
2:gh:80:ALA:O	2:gh:84:LYS:HG3	2.15	0.47
2:gh:95:LYS:O	2:gh:96:ASN:HB2	2.14	0.47
2:hh:88:THR:CB	2:hh:101:GLN:NE2	2.78	0.47
2:ih:31:VAL:HG11	2:ih:105:LEU:HD22	1.97	0.47
2:ih:53:MET:HB2	2:ih:98:LEU:HD13	1.96	0.47
2:jh:80:ALA:O	2:jh:84:LYS:HG3	2.15	0.47
2:kh:31:VAL:HG11	2:kh:105:LEU:HD22	1.97	0.47
2:kh:43:ALA:HB3	2:kh:48:PHE:CD1	2.50	0.47
2:lh:128:LYS:N	2:lh:128:LYS:CD	2.73	0.47
2:mh:121:GLN:HA	2:mh:121:GLN:NE2	2.29	0.47
2:nh:43:ALA:HB3	2:nh:48:PHE:CD1	2.50	0.47
2:oh:31:VAL:HG11	2:oh:105:LEU:HD22	1.97	0.47
2:qh:80:ALA:O	2:qh:84:LYS:HG3	2.15	0.47
2:sh:31:VAL:HG11	2:sh:105:LEU:HD22	1.97	0.47
2:th:31:VAL:HG11	2:th:105:LEU:HD22	1.97	0.47
2:uh:128:LYS:N	2:uh:128:LYS:CD	2.73	0.47
2:vh:53:MET:HB2	2:vh:98:LEU:HD13	1.96	0.47
2:vh:88:THR:CB	2:vh:101:GLN:NE2	2.78	0.47
2:wh:80:ALA:O	2:wh:84:LYS:HG3	2.15	0.47
2:xh:88:THR:CB	2:xh:101:GLN:NE2	2.78	0.47
2:yh:88:THR:CB	2:yh:101:GLN:NE2	2.78	0.47
2:zh:43:ALA:HB3	2:zh:48:PHE:CD1	2.50	0.47
3:Al:100:GLN:HE21	3:Al:100:GLN:CA	2.14	0.47
3:Cl:27:PRO:O	3:Cl:124:THR:OG1	2.22	0.47
3:Ql:31:SER:HB3	3:Ql:127:THR:HG1	1.79	0.47
3:Xl:33:THR:CG2	3:Xl:34:PRO:CD	2.90	0.47
3:Xl:115:SER:HA	3:Xl:116:PRO:HD2	1.64	0.47
3:3l:33:THR:CG2	3:3l:34:PRO:HD2	2.31	0.47
3:cl:115:SER:HA	3:cl:116:PRO:HD2	1.64	0.47
3:il:33:THR:CG2	3:il:34:PRO:CD	2.90	0.47
1:A:403:LEU:HD12	1:A:403:LEU:N	2.30	0.47
1:B:403:LEU:HD12	1:B:403:LEU:N	2.30	0.47
1:D:699:GLN:HE21	1:K:301:ASN:ND2	2.12	0.47
1:F:470:ILE:O	1:F:473:GLN:HG3	2.15	0.47
1:F:696:PRO:HD3	1:Z:293:PRO:HB2	1.97	0.47
1:G:249:LEU:HD12	1:G:250:PRO:HD2	1.97	0.47
1:H:371:MET:HB2	1:R:666:PHE:HE2	1.79	0.47
1:N:403:LEU:HD12	1:N:403:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:695:ASN:HB2	1:O:696:PRO:HD2	1.97	0.47
1:T:300:ILE:HD12	1:T:730:TYR:CE2	2.49	0.47
1:T:470:ILE:O	1:T:473:GLN:HG3	2.15	0.47
1:X:237:ASP:OD1	1:X:237:ASP:N	2.34	0.47
1:X:301:ASN:ND2	1:1:699:GLN:HE21	2.12	0.47
1:X:403:LEU:HD12	1:X:403:LEU:N	2.30	0.47
1:Y:300:ILE:HD12	1:Y:730:TYR:CE2	2.50	0.47
1:4:454:THR:CG2	2:4h:138:ASP:HB2	2.44	0.47
1:5:352:TYR:CE2	1:5:354:LEU:HB2	2.49	0.47
1:a:304:TRP:C	1:a:423:SER:HG	2.23	0.47
1:d:454:THR:CG2	2:dh:138:ASP:HB2	2.44	0.47
1:e:301:ASN:ND2	1:x:699:GLN:HE21	2.12	0.47
1:f:470:ILE:O	1:f:473:GLN:HG3	2.15	0.47
1:g:249:LEU:HD12	1:g:250:PRO:HD2	1.97	0.47
1:g:470:ILE:O	1:g:473:GLN:HG3	2.15	0.47
1:i:301:ASN:ND2	1:w:699:GLN:HE21	2.12	0.47
1:i:403:LEU:HD12	1:i:403:LEU:N	2.30	0.47
1:k:699:GLN:HE21	1:u:301:ASN:ND2	2.12	0.47
1:m:470:ILE:O	1:m:473:GLN:HG3	2.15	0.47
1:m:695:ASN:HB2	1:m:696:PRO:HD2	1.97	0.47
1:o:403:LEU:HD12	1:o:403:LEU:N	2.30	0.47
1:p:403:LEU:HD12	1:p:403:LEU:N	2.30	0.47
1:r:695:ASN:HB2	1:r:696:PRO:HD2	1.97	0.47
1:t:695:ASN:HB2	1:t:696:PRO:HD2	1.97	0.47
1:u:403:LEU:N	1:u:403:LEU:HD12	2.30	0.47
1:u:470:ILE:O	1:u:473:GLN:HG3	2.15	0.47
1:x:454:THR:CG2	2:xh:138:ASP:HB2	2.44	0.47
2:Gh:88:THR:HB	2:Gh:101:GLN:HE21	1.79	0.47
2:Mh:80:ALA:O	2:Mh:84:LYS:HG3	2.15	0.47
2:Qh:80:ALA:O	2:Qh:84:LYS:HG3	2.15	0.47
2:Rh:80:ALA:O	2:Rh:84:LYS:HG3	2.15	0.47
2:Th:31:VAL:HG11	2:Th:105:LEU:HD22	1.97	0.47
2:Th:88:THR:HB	2:Th:101:GLN:HE21	1.79	0.47
2:Zh:43:ALA:HB3	2:Zh:48:PHE:CD1	2.50	0.47
2:1h:80:ALA:O	2:1h:84:LYS:HG3	2.15	0.47
2:3h:31:VAL:HG11	2:3h:105:LEU:HD22	1.97	0.47
2:4h:88:THR:CB	2:4h:101:GLN:NE2	2.78	0.47
2:6h:53:MET:HB2	2:6h:98:LEU:HD13	1.96	0.47
2:bh:80:ALA:O	2:bh:84:LYS:HG3	2.15	0.47
2:eh:88:THR:CB	2:eh:101:GLN:NE2	2.78	0.47
2:jh:48:PHE:O	2:jh:91:ARG:NH2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jh:114:TYR:CE1	2:jh:142:GLN:HB3	2.49	0.47
2:kh:80:ALA:O	2:kh:84:LYS:HG3	2.15	0.47
2:lh:95:LYS:O	2:lh:96:ASN:HB2	2.14	0.47
2:oh:53:MET:HB3	2:oh:98:LEU:CD2	2.35	0.47
2:rh:80:ALA:O	2:rh:84:LYS:HG3	2.15	0.47
2:sh:43:ALA:HB3	2:sh:48:PHE:CD1	2.50	0.47
2:uh:95:LYS:O	2:uh:96:ASN:HB2	2.14	0.47
2:xh:114:TYR:CE1	2:xh:142:GLN:HB3	2.49	0.47
2:7h:121:GLN:HA	2:7h:121:GLN:NE2	2.29	0.47
2:8h:43:ALA:HB3	2:8h:48:PHE:CD1	2.50	0.47
3:Ol:31:SER:HB3	3:Ol:127:THR:HG1	1.79	0.47
3:cl:27:PRO:O	3:cl:124:THR:OG1	2.22	0.47
3:fl:31:SER:HB3	3:fl:127:THR:HG1	1.79	0.47
3:ml:125:LYS:N	3:ml:125:LYS:CD	2.73	0.47
1:B:371:MET:HB2	1:Z:666:PHE:HE2	1.79	0.47
1:D:470:ILE:O	1:D:473:GLN:HG3	2.15	0.47
1:E:403:LEU:HD12	1:E:403:LEU:N	2.30	0.47
1:G:403:LEU:HD12	1:G:403:LEU:N	2.30	0.47
1:I:300:ILE:HD12	1:I:730:TYR:CE2	2.50	0.47
1:K:454:THR:CG2	2:Kh:138:ASP:HB2	2.44	0.47
1:L:699:GLN:HE21	1:m:301:ASN:ND2	2.12	0.47
1:P:454:THR:CG2	2:Ph:138:ASP:HB2	2.44	0.47
1:P:565:ILE:HD12	1:P:569:ASN:ND2	2.29	0.47
1:Q:470:ILE:O	1:Q:473:GLN:HG3	2.15	0.47
1:Q:695:ASN:HB2	1:Q:696:PRO:HD2	1.97	0.47
1:T:249:LEU:HD12	1:T:250:PRO:HD2	1.97	0.47
1:T:403:LEU:HD12	1:T:403:LEU:N	2.30	0.47
1:U:300:ILE:HD12	1:U:730:TYR:CE2	2.49	0.47
1:X:696:PRO:HD3	1:1:293:PRO:HB2	1.97	0.47
1:2:429:SER:HA	1:2:567:THR:HB	1.97	0.47
1:3:352:TYR:CE2	1:3:354:LEU:HB2	2.49	0.47
1:4:470:ILE:O	1:4:473:GLN:HG3	2.15	0.47
1:c:403:LEU:HD12	1:c:403:LEU:N	2.30	0.47
1:d:301:ASN:ND2	1:j:699:GLN:HE21	2.12	0.47
1:e:666:PHE:HE2	1:o:371:MET:HB2	1.79	0.47
1:g:403:LEU:HD12	1:g:403:LEU:N	2.30	0.47
1:h:470:ILE:O	1:h:473:GLN:HG3	2.15	0.47
1:j:695:ASN:HB2	1:j:696:PRO:HD2	1.97	0.47
1:k:666:PHE:HE2	1:y:371:MET:HB2	1.79	0.47
1:l:249:LEU:HD12	1:l:250:PRO:HD2	1.97	0.47
1:n:403:LEU:HD12	1:n:403:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:403:LEU:HD12	1:q:403:LEU:N	2.30	0.47
1:r:470:ILE:O	1:r:473:GLN:HG3	2.15	0.47
1:s:470:ILE:O	1:s:473:GLN:HG3	2.15	0.47
1:v:300:ILE:HD12	1:v:730:TYR:CE2	2.49	0.47
1:w:300:ILE:HD12	1:w:730:TYR:CE2	2.49	0.47
1:7:300:ILE:HD12	1:7:730:TYR:CE2	2.50	0.47
2:Bh:128:LYS:N	2:Bh:128:LYS:CD	2.73	0.47
2:Ch:81:ASP:HA	2:Ch:84:LYS:CE	2.37	0.47
2:Dh:31:VAL:HG11	2:Dh:105:LEU:HD22	1.97	0.47
2:Dh:52:GLY:O	2:Dh:118:ALA:N	2.25	0.47
2:Dh:80:ALA:O	2:Dh:84:LYS:HG3	2.15	0.47
2:Dh:88:THR:CB	2:Dh:101:GLN:NE2	2.78	0.47
2:Dh:121:GLN:HA	2:Dh:121:GLN:NE2	2.29	0.47
2:Eh:88:THR:CG2	2:Eh:101:GLN:HE21	2.23	0.47
2:Fh:121:GLN:NE2	2:Fh:121:GLN:HA	2.29	0.47
2:Hh:48:PHE:O	2:Hh:91:ARG:NH2	2.48	0.47
2:Hh:59:ALA:HB1	2:Hh:60:PRO:HD2	1.96	0.47
2:Ih:53:MET:HB3	2:Ih:98:LEU:CD2	2.35	0.47
2:Ih:121:GLN:HA	2:Ih:121:GLN:NE2	2.29	0.47
2:Kh:88:THR:HB	2:Kh:101:GLN:HE21	1.79	0.47
2:Ph:121:GLN:HA	2:Ph:121:GLN:NE2	2.30	0.47
2:Qh:88:THR:CB	2:Qh:101:GLN:NE2	2.78	0.47
2:Th:88:THR:CB	2:Th:101:GLN:NE2	2.78	0.47
2:Vh:114:TYR:CE1	2:Vh:142:GLN:HB3	2.49	0.47
2:Wh:31:VAL:HG11	2:Wh:105:LEU:HD22	1.97	0.47
2:Zh:31:VAL:HG11	2:Zh:105:LEU:HD22	1.97	0.47
2:2h:53:MET:HB2	2:2h:98:LEU:HD13	1.96	0.47
2:5h:121:GLN:HA	2:5h:121:GLN:NE2	2.29	0.47
2:ah:80:ALA:O	2:ah:84:LYS:HG3	2.15	0.47
2:bh:53:MET:HB2	2:bh:98:LEU:HD13	1.96	0.47
2:ch:121:GLN:HA	2:ch:121:GLN:NE2	2.29	0.47
2:dh:121:GLN:HA	2:dh:121:GLN:NE2	2.29	0.47
2:eh:31:VAL:HG11	2:eh:105:LEU:HD22	1.97	0.47
2:eh:121:GLN:NE2	2:eh:121:GLN:HA	2.29	0.47
2:gh:88:THR:HB	2:gh:101:GLN:HE21	1.79	0.47
2:hh:53:MET:HB2	2:hh:98:LEU:HD13	1.96	0.47
2:hh:80:ALA:O	2:hh:84:LYS:HG3	2.15	0.47
2:ih:114:TYR:CE1	2:ih:142:GLN:HB3	2.49	0.47
2:lh:80:ALA:O	2:lh:84:LYS:HG3	2.15	0.47
2:lh:88:THR:CB	2:lh:101:GLN:NE2	2.78	0.47
2:qh:88:THR:CG2	2:qh:101:GLN:HE21	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:rh:31:VAL:HG11	2:rh:105:LEU:HD22	1.97	0.47
2:rh:59:ALA:HB1	2:rh:60:PRO:HD2	1.96	0.47
2:sh:121:GLN:NE2	2:sh:121:GLN:HA	2.29	0.47
2:th:121:GLN:NE2	2:th:121:GLN:HA	2.30	0.47
2:uh:80:ALA:O	2:uh:84:LYS:HG3	2.15	0.47
2:zh:31:VAL:HG11	2:zh:105:LEU:HD22	1.97	0.47
2:zh:80:ALA:O	2:zh:84:LYS:HG3	2.15	0.47
2:8h:31:VAL:HG11	2:8h:105:LEU:HD22	1.97	0.47
3:Cl:115:SER:HA	3:Cl:116:PRO:HD2	1.65	0.47
3:Hl:115:SER:HA	3:Hl:116:PRO:HD2	1.64	0.47
3:Tl:107:TYR:HE2	3:Tl:126:VAL:HG22	1.64	0.47
3:ol:31:SER:HB3	3:ol:127:THR:HG1	1.77	0.47
3:rl:33:THR:CG2	3:rl:34:PRO:HD2	2.30	0.47
1:D:301:ASN:ND2	1:K:699:GLN:HE21	2.12	0.47
1:F:666:PHE:HE2	1:X:371:MET:HB2	1.80	0.47
1:G:470:ILE:O	1:G:473:GLN:HG3	2.15	0.47
1:I:403:LEU:HD12	1:I:403:LEU:N	2.30	0.47
1:J:300:ILE:HD12	1:J:730:TYR:CE2	2.49	0.47
1:N:429:SER:HA	1:N:567:THR:HB	1.98	0.47
1:U:695:ASN:HB2	1:U:696:PRO:HD2	1.97	0.47
1:V:695:ASN:HB2	1:V:696:PRO:HD2	1.97	0.47
1:Y:249:LEU:HD12	1:Y:250:PRO:HD2	1.97	0.47
1:Y:470:ILE:O	1:Y:473:GLN:HG3	2.15	0.47
1:1:300:ILE:HD12	1:1:730:TYR:CE2	2.49	0.47
1:2:696:PRO:HD3	1:n:293:PRO:HB2	1.97	0.47
1:c:429:SER:HA	1:c:567:THR:HB	1.98	0.47
1:e:470:ILE:O	1:e:473:GLN:HG3	2.15	0.47
1:g:300:ILE:HD12	1:g:730:TYR:CE2	2.50	0.47
1:g:454:THR:CG2	2:gh:138:ASP:HB2	2.44	0.47
1:h:403:LEU:HD12	1:h:403:LEU:N	2.30	0.47
1:m:300:ILE:HD12	1:m:730:TYR:CE2	2.49	0.47
1:o:300:ILE:HD12	1:o:730:TYR:CE2	2.49	0.47
1:q:470:ILE:O	1:q:473:GLN:HG3	2.15	0.47
1:s:696:PRO:HD3	1:8:293:PRO:HB2	1.97	0.47
1:u:371:MET:HB2	1:8:666:PHE:HE2	1.79	0.47
1:w:403:LEU:HD12	1:w:403:LEU:N	2.30	0.47
1:7:470:ILE:O	1:7:473:GLN:HG3	2.15	0.47
2:Bh:80:ALA:O	2:Bh:84:LYS:HG3	2.15	0.47
2:Ch:80:ALA:O	2:Ch:84:LYS:HG3	2.15	0.47
2:Fh:57:ARG:HG3	2:Fh:113:TYR:CZ	2.49	0.47
2:Lh:121:GLN:HA	2:Lh:121:GLN:NE2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Nh:121:GLN:HA	2:Nh:121:GLN:NE2	2.29	0.47
2:Ph:80:ALA:O	2:Ph:84:LYS:HG3	2.15	0.47
2:Ph:88:THR:CB	2:Ph:101:GLN:NE2	2.78	0.47
2:Qh:31:VAL:HG11	2:Qh:105:LEU:HD22	1.97	0.47
2:Qh:59:ALA:HB1	2:Qh:60:PRO:HD2	1.96	0.47
2:Sh:88:THR:CB	2:Sh:101:GLN:NE2	2.78	0.47
2:Sh:95:LYS:O	2:Sh:96:ASN:HB2	2.14	0.47
2:Vh:59:ALA:HB1	2:Vh:60:PRO:HD2	1.96	0.47
2:Wh:80:ALA:O	2:Wh:84:LYS:HG3	2.15	0.47
2:2h:121:GLN:HA	2:2h:121:GLN:NE2	2.29	0.47
2:3h:121:GLN:HA	2:3h:121:GLN:NE2	2.29	0.47
2:4h:53:MET:HB2	2:4h:98:LEU:HD13	1.96	0.47
2:4h:80:ALA:O	2:4h:84:LYS:HG3	2.15	0.47
2:ah:88:THR:HB	2:ah:101:GLN:HE21	1.79	0.47
2:dh:80:ALA:O	2:dh:84:LYS:HG3	2.15	0.47
2:dh:88:THR:CB	2:dh:101:GLN:NE2	2.78	0.47
2:eh:80:ALA:O	2:eh:84:LYS:HG3	2.15	0.47
2:gh:88:THR:CB	2:gh:101:GLN:NE2	2.78	0.47
2:nh:52:GLY:O	2:nh:118:ALA:N	2.25	0.47
2:oh:121:GLN:HA	2:oh:121:GLN:NE2	2.29	0.47
2:rh:88:THR:CB	2:rh:101:GLN:NE2	2.78	0.47
2:rh:121:GLN:NE2	2:rh:121:GLN:HA	2.29	0.47
2:sh:57:ARG:HG3	2:sh:113:TYR:CZ	2.49	0.47
2:wh:81:ASP:HA	2:wh:84:LYS:CE	2.37	0.47
2:xh:88:THR:HB	2:xh:101:GLN:HE21	1.79	0.47
2:yh:59:ALA:HB1	2:yh:60:PRO:HD2	1.96	0.47
2:7h:88:THR:CB	2:7h:101:GLN:NE2	2.78	0.47
3:Cl:33:THR:CG2	3:Cl:34:PRO:CD	2.90	0.47
3:4l:115:SER:HA	3:4l:116:PRO:HD2	1.65	0.47
3:5l:33:THR:CG2	3:5l:34:PRO:HD2	2.31	0.47
3:pl:100:GLN:HE21	3:pl:100:GLN:CA	2.14	0.47
1:D:429:SER:HA	1:D:567:THR:HB	1.98	0.46
1:D:666:PHE:HE2	1:I:371:MET:HB2	1.79	0.46
1:E:470:ILE:O	1:E:473:GLN:HG3	2.15	0.46
1:G:666:PHE:HE2	1:U:371:MET:HB2	1.79	0.46
1:H:403:LEU:HD12	1:H:403:LEU:N	2.30	0.46
1:I:429:SER:HA	1:I:567:THR:HB	1.97	0.46
1:I:470:ILE:O	1:I:473:GLN:HG3	2.15	0.46
1:J:403:LEU:HD12	1:J:403:LEU:N	2.30	0.46
1:O:371:MET:HB2	1:3:666:PHE:HE2	1.79	0.46
1:O:429:SER:HA	1:O:567:THR:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:249:LEU:HD12	1:S:250:PRO:HD2	1.97	0.46
1:T:454:THR:CG2	2:Th:138:ASP:HB2	2.44	0.46
1:U:301:ASN:ND2	1:t:699:GLN:HE21	2.12	0.46
1:X:249:LEU:HD12	1:X:250:PRO:HD2	1.97	0.46
1:Y:695:ASN:HB2	1:Y:696:PRO:HD2	1.97	0.46
1:4:403:LEU:HD12	1:4:403:LEU:N	2.30	0.46
1:6:429:SER:HA	1:6:567:THR:HB	1.98	0.46
1:c:237:ASP:OD1	1:c:237:ASP:N	2.34	0.46
1:e:429:SER:HA	1:e:567:THR:HB	1.98	0.46
1:e:696:PRO:HD3	1:x:293:PRO:HB2	1.97	0.46
1:f:249:LEU:HD12	1:f:250:PRO:HD2	1.97	0.46
1:f:429:SER:HA	1:f:567:THR:HB	1.98	0.46
1:i:237:ASP:OD1	1:i:237:ASP:N	2.34	0.46
1:i:249:LEU:HD12	1:i:250:PRO:HD2	1.97	0.46
1:i:371:MET:HB2	1:s:666:PHE:HE2	1.80	0.46
1:l:470:ILE:O	1:l:473:GLN:HG3	2.15	0.46
1:m:403:LEU:HD12	1:m:403:LEU:N	2.30	0.46
1:o:470:ILE:O	1:o:473:GLN:HG3	2.15	0.46
1:s:249:LEU:HD12	1:s:250:PRO:HD2	1.97	0.46
1:t:249:LEU:HD12	1:t:250:PRO:HD2	1.97	0.46
1:v:403:LEU:HD12	1:v:403:LEU:N	2.30	0.46
1:y:403:LEU:N	1:y:403:LEU:HD12	2.30	0.46
1:7:249:LEU:HD12	1:7:250:PRO:HD2	1.97	0.46
2:Ch:31:VAL:HG11	2:Ch:105:LEU:HD22	1.97	0.46
2:Ch:43:ALA:HB3	2:Ch:48:PHE:CD1	2.50	0.46
2:Mh:31:VAL:HG11	2:Mh:105:LEU:HD22	1.97	0.46
2:Qh:121:GLN:NE2	2:Qh:121:GLN:HA	2.29	0.46
2:Sh:80:ALA:O	2:Sh:84:LYS:HG3	2.15	0.46
2:Yh:80:ALA:O	2:Yh:84:LYS:HG3	2.15	0.46
2:Yh:88:THR:CB	2:Yh:101:GLN:NE2	2.78	0.46
2:4h:88:THR:HB	2:4h:101:GLN:HE21	1.79	0.46
2:6h:121:GLN:HA	2:6h:121:GLN:NE2	2.29	0.46
2:ah:31:VAL:HG11	2:ah:105:LEU:HD22	1.97	0.46
2:ah:81:ASP:HA	2:ah:84:LYS:CE	2.37	0.46
2:ch:53:MET:CB	2:ch:98:LEU:HD22	2.34	0.46
2:hh:88:THR:HB	2:hh:101:GLN:HE21	1.79	0.46
2:ph:52:GLY:O	2:ph:118:ALA:N	2.25	0.46
2:rh:95:LYS:O	2:rh:96:ASN:HB2	2.14	0.46
2:7h:80:ALA:O	2:7h:84:LYS:HG3	2.15	0.46
3:El:33:THR:CG2	3:El:34:PRO:HD2	2.30	0.46
3:2l:125:LYS:N	3:2l:125:LYS:CD	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:al:33:THR:CG2	3:al:34:PRO:CD	2.90	0.46
3:kl:31:SER:HB3	3:kl:127:THR:HG1	1.80	0.46
3:ll:33:THR:CG2	3:ll:34:PRO:CD	2.90	0.46
1:A:470:ILE:O	1:A:473:GLN:HG3	2.15	0.46
1:C:304:TRP:C	1:C:423:SER:HG	2.24	0.46
1:D:249:LEU:HD12	1:D:250:PRO:HD2	1.97	0.46
1:D:696:PRO:HD3	1:K:293:PRO:HB2	1.97	0.46
1:E:301:ASN:ND2	1:3:699:GLN:HE21	2.12	0.46
1:F:249:LEU:HD12	1:F:250:PRO:HD2	1.97	0.46
1:H:470:ILE:O	1:H:473:GLN:HG3	2.15	0.46
1:K:304:TRP:C	1:K:423:SER:HG	2.24	0.46
1:L:470:ILE:O	1:L:473:GLN:HG3	2.15	0.46
1:N:249:LEU:HD12	1:N:250:PRO:HD2	1.97	0.46
1:S:470:ILE:O	1:S:473:GLN:HG3	2.15	0.46
1:U:403:LEU:HD12	1:U:403:LEU:N	2.30	0.46
1:U:696:PRO:HD3	1:t:293:PRO:HB2	1.97	0.46
1:W:403:LEU:HD12	1:W:403:LEU:N	2.30	0.46
1:Z:470:ILE:O	1:Z:473:GLN:HG3	2.15	0.46
1:1:403:LEU:HD12	1:1:403:LEU:N	2.30	0.46
1:3:300:ILE:HD12	1:3:730:TYR:CE2	2.49	0.46
1:4:249:LEU:HD12	1:4:250:PRO:HD2	1.97	0.46
1:d:403:LEU:HD12	1:d:403:LEU:N	2.30	0.46
1:e:249:LEU:HD12	1:e:250:PRO:HD2	1.97	0.46
1:e:695:ASN:HB2	1:e:696:PRO:HD2	1.97	0.46
1:f:293:PRO:HB2	1:p:696:PRO:HD3	1.97	0.46
1:h:249:LEU:HD12	1:h:250:PRO:HD2	1.97	0.46
1:j:429:SER:HA	1:j:567:THR:HB	1.98	0.46
1:l:304:TRP:C	1:l:423:SER:HG	2.24	0.46
1:m:371:MET:HB2	1:n:666:PHE:HE2	1.79	0.46
1:n:470:ILE:O	1:n:473:GLN:HG3	2.15	0.46
1:o:429:SER:HA	1:o:567:THR:HB	1.97	0.46
1:p:470:ILE:O	1:p:473:GLN:HG3	2.15	0.46
1:x:304:TRP:C	1:x:423:SER:HG	2.24	0.46
1:y:470:ILE:O	1:y:473:GLN:HG3	2.15	0.46
1:7:695:ASN:HB2	1:7:696:PRO:HD2	1.97	0.46
1:8:470:ILE:O	1:8:473:GLN:HG3	2.15	0.46
2:Ch:88:THR:HB	2:Ch:101:GLN:HE21	1.79	0.46
2:Eh:31:VAL:HG11	2:Eh:105:LEU:HD22	1.97	0.46
2:Eh:43:ALA:HB3	2:Eh:48:PHE:CD1	2.50	0.46
2:Gh:59:ALA:HB1	2:Gh:60:PRO:HD2	1.96	0.46
2:Oh:121:GLN:HA	2:Oh:121:GLN:NE2	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qh:43:ALA:HB3	2:Qh:48:PHE:CD1	2.50	0.46
2:Qh:95:LYS:O	2:Qh:96:ASN:HB2	2.14	0.46
2:Vh:43:ALA:HB3	2:Vh:48:PHE:CD1	2.50	0.46
2:Vh:53:MET:HB2	2:Vh:98:LEU:HD13	1.96	0.46
2:Xh:59:ALA:HB1	2:Xh:60:PRO:HD2	1.96	0.46
2:Zh:81:ASP:HA	2:Zh:84:LYS:CE	2.37	0.46
2:1h:43:ALA:HB3	2:1h:48:PHE:CD1	2.50	0.46
2:2h:58:GLN:HG3	2:2h:64:LEU:HD12	1.98	0.46
2:2h:88:THR:HB	2:2h:101:GLN:HE21	1.79	0.46
2:3h:58:GLN:HG3	2:3h:64:LEU:HD12	1.98	0.46
2:3h:88:THR:CB	2:3h:101:GLN:NE2	2.78	0.46
2:6h:58:GLN:HG3	2:6h:64:LEU:HD12	1.98	0.46
2:6h:81:ASP:HA	2:6h:84:LYS:CE	2.37	0.46
2:ah:43:ALA:HB3	2:ah:48:PHE:CD1	2.50	0.46
2:bh:31:VAL:HG11	2:bh:105:LEU:HD22	1.97	0.46
2:ch:43:ALA:HB3	2:ch:48:PHE:CD1	2.50	0.46
2:ch:81:ASP:HA	2:ch:84:LYS:CE	2.37	0.46
2:ch:95:LYS:O	2:ch:96:ASN:HB2	2.14	0.46
2:fh:53:MET:HB3	2:fh:98:LEU:CD2	2.35	0.46
2:fh:80:ALA:O	2:fh:84:LYS:HG3	2.15	0.46
2:fh:121:GLN:HA	2:fh:121:GLN:NE2	2.30	0.46
2:ih:59:ALA:HB1	2:ih:60:PRO:HD2	1.96	0.46
2:jh:43:ALA:HB3	2:jh:48:PHE:CD1	2.50	0.46
2:jh:53:MET:HB2	2:jh:98:LEU:HD13	1.96	0.46
2:jh:59:ALA:HB1	2:jh:60:PRO:HD2	1.96	0.46
2:qh:31:VAL:HG11	2:qh:105:LEU:HD22	1.97	0.46
2:qh:43:ALA:HB3	2:qh:48:PHE:CD1	2.50	0.46
2:rh:58:GLN:HG3	2:rh:64:LEU:HD12	1.98	0.46
2:th:43:ALA:HB3	2:th:48:PHE:CD1	2.50	0.46
2:wh:43:ALA:HB3	2:wh:48:PHE:CD1	2.50	0.46
2:yh:128:LYS:N	2:yh:128:LYS:CD	2.73	0.46
2:zh:59:ALA:HB1	2:zh:60:PRO:HD2	1.96	0.46
3:Gl:99:LEU:HD12	3:Gl:99:LEU:HA	1.78	0.46
3:Kl:125:LYS:N	3:Kl:125:LYS:CD	2.73	0.46
3:Sl:33:THR:CG2	3:Sl:34:PRO:CD	2.90	0.46
3:Ul:125:LYS:N	3:Ul:125:LYS:CD	2.73	0.46
3:6l:125:LYS:N	3:6l:125:LYS:CD	2.73	0.46
3:ol:79:VAL:HA	3:ol:80:PRO:HD3	1.81	0.46
1:A:454:THR:CG2	2:Ah:138:ASP:HB2	2.46	0.46
1:A:565:ILE:HD12	1:A:569:ASN:HD22	1.81	0.46
1:B:429:SER:HA	1:B:567:THR:HB	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:300:ILE:HD12	1:G:730:TYR:CE2	2.50	0.46
1:L:249:LEU:HD12	1:L:250:PRO:HD2	1.97	0.46
1:L:293:PRO:HB2	1:m:696:PRO:HD3	1.97	0.46
1:N:695:ASN:HB2	1:N:696:PRO:HD2	1.97	0.46
1:O:249:LEU:HD12	1:O:250:PRO:HD2	1.97	0.46
1:P:403:LEU:HD12	1:P:403:LEU:N	2.30	0.46
1:Q:403:LEU:HD12	1:Q:403:LEU:N	2.30	0.46
1:V:429:SER:HA	1:V:567:THR:HB	1.98	0.46
1:X:429:SER:HA	1:X:567:THR:HB	1.97	0.46
1:X:470:ILE:O	1:X:473:GLN:HG3	2.15	0.46
1:Z:300:ILE:HD12	1:Z:730:TYR:CE2	2.49	0.46
1:1:371:MET:HB2	1:o:666:PHE:HE2	1.79	0.46
1:1:565:ILE:HD12	1:1:569:ASN:ND2	2.29	0.46
1:3:429:SER:HA	1:3:567:THR:HB	1.98	0.46
1:3:695:ASN:HB2	1:3:696:PRO:HD2	1.97	0.46
1:4:695:ASN:HB2	1:4:696:PRO:HD2	1.97	0.46
1:5:300:ILE:HD12	1:5:730:TYR:CE2	2.50	0.46
1:5:429:SER:HA	1:5:567:THR:HB	1.97	0.46
1:5:695:ASN:HB2	1:5:696:PRO:HD2	1.97	0.46
1:c:249:LEU:HD12	1:c:250:PRO:HD2	1.97	0.46
1:i:470:ILE:O	1:i:473:GLN:HG3	2.15	0.46
1:j:444:TYR:OH	1:j:469:ASP:OD2	2.21	0.46
1:m:249:LEU:HD12	1:m:250:PRO:HD2	1.97	0.46
1:n:300:ILE:HD12	1:n:730:TYR:CE2	2.50	0.46
1:r:565:ILE:HD12	1:r:569:ASN:ND2	2.29	0.46
1:s:565:ILE:HD12	1:s:569:ASN:HD22	1.81	0.46
1:t:470:ILE:O	1:t:473:GLN:HG3	2.15	0.46
1:x:403:LEU:HD12	1:x:403:LEU:N	2.30	0.46
1:z:403:LEU:HD12	1:z:403:LEU:N	2.30	0.46
1:7:403:LEU:HD12	1:7:403:LEU:N	2.30	0.46
1:8:429:SER:HA	1:8:567:THR:HB	1.98	0.46
2:Ah:59:ALA:HB1	2:Ah:60:PRO:HD2	1.96	0.46
2:Ch:88:THR:CG2	2:Ch:101:GLN:HE21	2.23	0.46
2:Ih:58:GLN:HG3	2:Ih:64:LEU:HD12	1.98	0.46
2:Lh:43:ALA:HB3	2:Lh:48:PHE:CD1	2.50	0.46
2:Lh:58:GLN:HG3	2:Lh:64:LEU:HD12	1.98	0.46
2:Nh:43:ALA:HB3	2:Nh:48:PHE:CD1	2.50	0.46
2:Nh:95:LYS:O	2:Nh:96:ASN:HB2	2.14	0.46
2:Oh:80:ALA:O	2:Oh:84:LYS:HG3	2.15	0.46
2:Qh:58:GLN:HG3	2:Qh:64:LEU:HD12	1.98	0.46
2:Sh:48:PHE:O	2:Sh:91:ARG:NH2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Yh:31:VAL:HG11	2:Yh:105:LEU:HD22	1.97	0.46
2:Yh:43:ALA:HB3	2:Yh:48:PHE:CD1	2.50	0.46
2:Yh:58:GLN:HG3	2:Yh:64:LEU:HD12	1.98	0.46
2:2h:31:VAL:HG11	2:2h:105:LEU:HD22	1.97	0.46
2:5h:58:GLN:HG3	2:5h:64:LEU:HD12	1.98	0.46
2:6h:88:THR:HB	2:6h:101:GLN:HE21	1.79	0.46
2:kh:88:THR:HG22	2:kh:101:GLN:HE22	1.38	0.46
2:lh:48:PHE:O	2:lh:91:ARG:NH2	2.48	0.46
2:oh:58:GLN:HG3	2:oh:64:LEU:HD12	1.98	0.46
2:ph:43:ALA:HB3	2:ph:48:PHE:CD1	2.50	0.46
2:qh:58:GLN:HG3	2:qh:64:LEU:HD12	1.98	0.46
2:qh:95:LYS:O	2:qh:96:ASN:HB2	2.14	0.46
2:sh:80:ALA:O	2:sh:84:LYS:HG3	2.15	0.46
2:th:58:GLN:HG3	2:th:64:LEU:HD12	1.98	0.46
2:vh:121:GLN:HA	2:vh:121:GLN:NE2	2.30	0.46
2:xh:121:GLN:NE2	2:xh:121:GLN:HA	2.29	0.46
2:zh:58:GLN:HG3	2:zh:64:LEU:HD12	1.98	0.46
2:7h:43:ALA:HB3	2:7h:48:PHE:CD1	2.50	0.46
2:7h:58:GLN:HG3	2:7h:64:LEU:HD12	1.98	0.46
3:Il:31:SER:HB3	3:Il:127:THR:HG1	1.77	0.46
3:Ml:75:ARG:HA	3:Ml:76:PRO:HD3	1.78	0.46
3:Rl:31:SER:HB3	3:Rl:127:THR:HG1	1.80	0.46
3:Wl:33:THR:CG2	3:Wl:34:PRO:CD	2.90	0.46
3:cl:33:THR:CG2	3:cl:34:PRO:CD	2.90	0.46
3:hl:115:SER:HA	3:hl:116:PRO:HD2	1.65	0.46
3:il:115:SER:HA	3:il:116:PRO:HD2	1.64	0.46
3:wl:27:PRO:O	3:wl:124:THR:OG1	2.22	0.46
3:xl:125:LYS:N	3:xl:125:LYS:CD	2.73	0.46
3:7l:27:PRO:O	3:7l:124:THR:OG1	2.22	0.46
1:A:587:ASN:HB3	3:Al:87:ARG:NH1	2.26	0.46
1:C:301:ASN:ND2	1:H:699:GLN:HE21	2.12	0.46
1:C:454:THR:CG2	2:Ch:138:ASP:HB2	2.44	0.46
1:D:695:ASN:HB2	1:D:696:PRO:HD2	1.97	0.46
1:E:710:VAL:O	1:E:713:THR:OG1	2.25	0.46
1:I:293:PRO:HB2	1:7:696:PRO:HD3	1.97	0.46
1:K:403:LEU:HD12	1:K:403:LEU:N	2.30	0.46
1:Q:565:ILE:HD12	1:Q:569:ASN:ND2	2.29	0.46
1:R:565:ILE:HD12	1:R:569:ASN:HD22	1.81	0.46
1:Y:403:LEU:HD12	1:Y:403:LEU:N	2.30	0.46
1:Y:696:PRO:HD3	1:o:293:PRO:HB2	1.97	0.46
1:Z:224:SER:H	1:6:407:ASN:HD21	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:429:SER:HA	1:Z:567:THR:HB	1.98	0.46
1:3:565:ILE:HD12	1:3:569:ASN:HD22	1.81	0.46
1:4:300:ILE:HD12	1:4:730:TYR:CE2	2.50	0.46
1:5:699:GLN:HE21	1:q:301:ASN:ND2	2.12	0.46
1:a:293:PRO:HB2	1:y:696:PRO:HD3	1.97	0.46
1:a:454:THR:CG2	2:ah:138:ASP:HB2	2.44	0.46
1:a:695:ASN:HB2	1:a:696:PRO:HD2	1.97	0.46
1:c:565:ILE:HD12	1:c:569:ASN:HD22	1.81	0.46
1:c:695:ASN:HB2	1:c:696:PRO:HD2	1.97	0.46
1:h:695:ASN:HB2	1:h:696:PRO:HD2	1.97	0.46
1:i:293:PRO:HB2	1:w:696:PRO:HD3	1.96	0.46
1:i:429:SER:HA	1:i:567:THR:HB	1.97	0.46
1:k:565:ILE:HD12	1:k:569:ASN:HD22	1.81	0.46
1:m:429:SER:HA	1:m:567:THR:HB	1.98	0.46
1:p:565:ILE:HD12	1:p:569:ASN:HD22	1.81	0.46
1:r:403:LEU:HD12	1:r:403:LEU:N	2.30	0.46
1:u:429:SER:HA	1:u:567:THR:HB	1.97	0.46
1:x:695:ASN:HB2	1:x:696:PRO:HD2	1.97	0.46
2:Bh:43:ALA:HB3	2:Bh:48:PHE:CD1	2.50	0.46
2:Ch:59:ALA:HB1	2:Ch:60:PRO:HD2	1.96	0.46
2:Eh:58:GLN:HG3	2:Eh:64:LEU:HD12	1.98	0.46
2:Gh:58:GLN:HG3	2:Gh:64:LEU:HD12	1.98	0.46
2:Hh:128:LYS:N	2:Hh:128:LYS:CD	2.73	0.46
2:Ih:43:ALA:HB3	2:Ih:48:PHE:CD1	2.50	0.46
2:Jh:121:GLN:NE2	2:Jh:121:GLN:HA	2.30	0.46
2:Kh:121:GLN:HA	2:Kh:121:GLN:NE2	2.29	0.46
2:Rh:59:ALA:HB1	2:Rh:60:PRO:HD2	1.96	0.46
2:Uh:58:GLN:HG3	2:Uh:64:LEU:HD12	1.98	0.46
2:Wh:58:GLN:HG3	2:Wh:64:LEU:HD12	1.98	0.46
2:Wh:59:ALA:HB1	2:Wh:60:PRO:HD2	1.96	0.46
2:Yh:55:TRP:NE1	2:Yh:100:LEU:HB2	2.31	0.46
2:1h:57:ARG:HG3	2:1h:113:TYR:CZ	2.49	0.46
2:5h:53:MET:HB2	2:5h:98:LEU:HD13	1.96	0.46
2:5h:88:THR:CB	2:5h:101:GLN:NE2	2.78	0.46
2:6h:31:VAL:HG11	2:6h:105:LEU:HD22	1.97	0.46
2:6h:80:ALA:O	2:6h:84:LYS:HG3	2.15	0.46
2:ah:59:ALA:HB1	2:ah:60:PRO:HD2	1.96	0.46
2:ch:57:ARG:HG3	2:ch:113:TYR:CZ	2.49	0.46
2:eh:53:MET:HB2	2:eh:98:LEU:HD13	1.96	0.46
2:ih:48:PHE:O	2:ih:91:ARG:NH2	2.48	0.46
2:lh:59:ALA:HB1	2:lh:60:PRO:HD2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nh:59:ALA:HB1	2:nh:60:PRO:HD2	1.96	0.46
2:ph:59:ALA:HB1	2:ph:60:PRO:HD2	1.96	0.46
2:qh:121:GLN:HA	2:qh:121:GLN:NE2	2.29	0.46
2:rh:43:ALA:HB3	2:rh:48:PHE:CD1	2.50	0.46
2:uh:43:ALA:HB3	2:uh:48:PHE:CD1	2.50	0.46
2:wh:57:ARG:HG3	2:wh:113:TYR:CZ	2.49	0.46
2:xh:31:VAL:HG11	2:xh:105:LEU:HD22	1.97	0.46
2:7h:31:VAL:HG11	2:7h:105:LEU:HD22	1.97	0.46
2:7h:55:TRP:NE1	2:7h:100:LEU:HB2	2.31	0.46
2:8h:128:LYS:N	2:8h:128:LYS:CD	2.73	0.46
3:Nl:115:SER:HA	3:Nl:116:PRO:HD2	1.65	0.46
3:Wl:115:SER:HA	3:Wl:116:PRO:HD2	1.64	0.46
3:Yl:27:PRO:O	3:Yl:124:THR:OG1	2.22	0.46
3:ql:33:THR:CG2	3:ql:34:PRO:HD2	2.30	0.46
3:7l:31:SER:HB3	3:7l:127:THR:HG1	1.78	0.46
1:C:293:PRO:HB2	1:H:696:PRO:HD3	1.97	0.46
1:F:293:PRO:HB2	1:Z:696:PRO:HD3	1.96	0.46
1:F:565:ILE:HD12	1:F:569:ASN:HD22	1.81	0.46
1:J:666:PHE:HE2	1:Y:371:MET:HB2	1.79	0.46
1:K:695:ASN:HB2	1:K:696:PRO:HD2	1.97	0.46
1:N:565:ILE:HD12	1:N:569:ASN:HD22	1.81	0.46
1:P:304:TRP:C	1:P:423:SER:HG	2.24	0.46
1:Q:699:GLN:HE21	1:c:301:ASN:ND2	2.12	0.46
1:U:249:LEU:HD12	1:U:250:PRO:HD2	1.97	0.46
1:U:429:SER:HA	1:U:567:THR:HB	1.98	0.46
1:W:429:SER:HA	1:W:567:THR:HB	1.98	0.46
1:5:565:ILE:HD12	1:5:569:ASN:HD22	1.81	0.46
1:a:249:LEU:HD12	1:a:250:PRO:HD2	1.97	0.46
1:d:304:TRP:C	1:d:423:SER:HG	2.24	0.46
1:h:300:ILE:HD12	1:h:730:TYR:CE2	2.50	0.46
1:u:249:LEU:HD12	1:u:250:PRO:HD2	1.97	0.46
1:w:565:ILE:HD12	1:w:569:ASN:ND2	2.29	0.46
1:z:429:SER:HA	1:z:567:THR:HB	1.98	0.46
1:z:565:ILE:HD12	1:z:569:ASN:HD22	1.81	0.46
1:8:300:ILE:HD12	1:8:730:TYR:CE2	2.50	0.46
2:Bh:72:TYR:CA	2:Bh:91:ARG:NH1	2.73	0.46
2:Bh:88:THR:CB	2:Bh:101:GLN:NE2	2.78	0.46
2:Ch:55:TRP:NE1	2:Ch:100:LEU:HB2	2.31	0.46
2:Dh:58:GLN:HG3	2:Dh:64:LEU:HD12	1.98	0.46
2:Dh:59:ALA:HB1	2:Dh:60:PRO:HD2	1.96	0.46
2:Eh:95:LYS:O	2:Eh:96:ASN:HB2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Eh:121:GLN:HA	2:Eh:121:GLN:NE2	2.29	0.46
2:Fh:55:TRP:NE1	2:Fh:100:LEU:HB2	2.31	0.46
2:Fh:80:ALA:O	2:Fh:84:LYS:HG3	2.15	0.46
2:Fh:114:TYR:CE1	2:Fh:142:GLN:CB	2.99	0.46
2:Jh:31:VAL:HG11	2:Jh:105:LEU:HD22	1.97	0.46
2:Kh:31:VAL:HG11	2:Kh:105:LEU:HD22	1.97	0.46
2:Kh:55:TRP:NE1	2:Kh:100:LEU:HB2	2.31	0.46
2:Kh:80:ALA:O	2:Kh:84:LYS:HG3	2.15	0.46
2:Nh:31:VAL:HG11	2:Nh:105:LEU:HD22	1.97	0.46
2:Nh:81:ASP:HA	2:Nh:84:LYS:CE	2.37	0.46
2:Ph:122:PHE:CE2	2:Ph:133:TYR:HA	2.51	0.46
2:Sh:43:ALA:HB3	2:Sh:48:PHE:CD1	2.50	0.46
2:Sh:55:TRP:NE1	2:Sh:100:LEU:HB2	2.31	0.46
2:Sh:59:ALA:HB1	2:Sh:60:PRO:HD2	1.96	0.46
2:Th:58:GLN:HG3	2:Th:64:LEU:HD12	1.98	0.46
2:Uh:31:VAL:HG11	2:Uh:105:LEU:HD22	1.97	0.46
2:Uh:114:TYR:CE1	2:Uh:142:GLN:CB	2.99	0.46
2:Uh:122:PHE:CE2	2:Uh:133:TYR:HA	2.51	0.46
2:Xh:48:PHE:O	2:Xh:91:ARG:NH2	2.48	0.46
2:Xh:58:GLN:HG3	2:Xh:64:LEU:HD12	1.98	0.46
2:Zh:59:ALA:HB1	2:Zh:60:PRO:HD2	1.96	0.46
2:1h:88:THR:CG2	2:1h:101:GLN:HE21	2.23	0.46
2:1h:88:THR:CB	2:1h:101:GLN:NE2	2.78	0.46
2:ah:55:TRP:NE1	2:ah:100:LEU:HB2	2.31	0.46
2:dh:59:ALA:HB1	2:dh:60:PRO:HD2	1.96	0.46
2:dh:122:PHE:CE2	2:dh:133:TYR:HA	2.51	0.46
2:eh:59:ALA:HB1	2:eh:60:PRO:HD2	1.96	0.46
2:fh:58:GLN:HG3	2:fh:64:LEU:HD12	1.98	0.46
2:hh:121:GLN:HA	2:hh:121:GLN:NE2	2.29	0.46
2:ih:58:GLN:HG3	2:ih:64:LEU:HD12	1.98	0.46
2:jh:88:THR:CB	2:jh:101:GLN:NE2	2.78	0.46
2:kh:59:ALA:HB1	2:kh:60:PRO:HD2	1.96	0.46
2:lh:55:TRP:NE1	2:lh:100:LEU:HB2	2.31	0.46
2:mh:31:VAL:HG11	2:mh:105:LEU:HD22	1.97	0.46
2:mh:58:GLN:HG3	2:mh:64:LEU:HD12	1.98	0.46
2:mh:59:ALA:HB1	2:mh:60:PRO:HD2	1.96	0.46
2:mh:88:THR:CG2	2:mh:101:GLN:HE21	2.23	0.46
2:mh:122:PHE:CE2	2:mh:133:TYR:HA	2.51	0.46
2:nh:122:PHE:CE2	2:nh:133:TYR:HA	2.51	0.46
2:sh:55:TRP:NE1	2:sh:100:LEU:HB2	2.31	0.46
2:sh:114:TYR:CE1	2:sh:142:GLN:CB	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:th:114:TYR:CE1	2:th:142:GLN:CB	2.99	0.46
2:vh:31:VAL:HG11	2:vh:105:LEU:HD22	1.97	0.46
2:wh:114:TYR:CE1	2:wh:142:GLN:CB	2.99	0.46
2:xh:55:TRP:NE1	2:xh:100:LEU:HB2	2.31	0.46
2:8h:48:PHE:O	2:8h:91:ARG:NH2	2.48	0.46
3:Il:27:PRO:O	3:Il:124:THR:OG1	2.22	0.46
3:Nl:33:THR:CG2	3:Nl:34:PRO:CD	2.90	0.46
3:gl:33:THR:CG2	3:gl:34:PRO:CD	2.90	0.46
3:ol:27:PRO:O	3:ol:124:THR:OG1	2.22	0.46
1:A:293:PRO:HB2	1:O:696:PRO:HD3	1.98	0.46
1:A:302:ASN:OD1	1:O:302:ASN:OD1	2.34	0.46
1:A:407:ASN:HD21	1:M:224:SER:H	1.64	0.46
1:B:293:PRO:HB2	1:R:696:PRO:HD3	1.97	0.46
1:B:565:ILE:HD12	1:B:569:ASN:HD22	1.81	0.46
1:C:249:LEU:HD12	1:C:250:PRO:HD2	1.97	0.46
1:C:695:ASN:HB2	1:C:696:PRO:HD2	1.97	0.46
1:E:293:PRO:HB2	1:3:696:PRO:HD3	1.96	0.46
1:N:301:ASN:ND2	1:r:699:GLN:HE21	2.12	0.46
1:N:304:TRP:C	1:N:423:SER:HG	2.24	0.46
1:N:519:PRO:HG2	1:N:633:LEU:O	2.16	0.46
1:S:429:SER:HA	1:S:567:THR:HB	1.97	0.46
1:W:470:ILE:O	1:W:473:GLN:HG3	2.15	0.46
1:W:565:ILE:HD12	1:W:569:ASN:HD22	1.81	0.46
1:X:519:PRO:HG2	1:X:633:LEU:O	2.16	0.46
1:2:519:PRO:HG2	1:2:633:LEU:O	2.16	0.46
1:3:249:LEU:HD12	1:3:250:PRO:HD2	1.97	0.46
1:4:519:PRO:HG2	1:4:633:LEU:O	2.16	0.46
1:5:249:LEU:HD12	1:5:250:PRO:HD2	1.97	0.46
1:5:371:MET:HB2	1:x:666:PHE:HE2	1.79	0.46
1:a:301:ASN:ND2	1:y:699:GLN:HE21	2.12	0.46
1:c:304:TRP:C	1:c:423:SER:HG	2.24	0.46
1:c:519:PRO:HG2	1:c:633:LEU:O	2.16	0.46
1:f:565:ILE:HD12	1:f:569:ASN:HD22	1.81	0.46
1:h:519:PRO:HG2	1:h:633:LEU:O	2.16	0.46
1:s:293:PRO:HB2	1:8:696:PRO:HD3	1.96	0.46
1:t:403:LEU:HD12	1:t:403:LEU:N	2.30	0.46
1:t:429:SER:HA	1:t:567:THR:HB	1.98	0.46
1:u:565:ILE:HD12	1:u:569:ASN:HD22	1.81	0.46
1:z:470:ILE:O	1:z:473:GLN:HG3	2.15	0.46
1:8:519:PRO:HG2	1:8:633:LEU:O	2.16	0.46
2:Ah:31:VAL:HG11	2:Ah:105:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ah:43:ALA:HB3	2:Ah:48:PHE:CD1	2.50	0.46
2:Ah:80:ALA:O	2:Ah:84:LYS:HG3	2.15	0.46
2:Ah:95:LYS:O	2:Ah:96:ASN:HB2	2.14	0.46
2:Dh:53:MET:HB2	2:Dh:98:LEU:HD13	1.96	0.46
2:Fh:59:ALA:HB1	2:Fh:60:PRO:HD2	1.96	0.46
2:Gh:129:ALA:HA	2:Gh:130:PRO:HD3	1.80	0.46
2:Hh:55:TRP:NE1	2:Hh:100:LEU:HB2	2.31	0.46
2:Hh:121:GLN:HA	2:Hh:121:GLN:NE2	2.30	0.46
2:Jh:43:ALA:HB3	2:Jh:48:PHE:CD1	2.50	0.46
2:Kh:59:ALA:HB1	2:Kh:60:PRO:HD2	1.96	0.46
2:Kh:122:PHE:CE2	2:Kh:133:TYR:HA	2.51	0.46
2:Lh:114:TYR:CE1	2:Lh:142:GLN:CB	2.99	0.46
2:Oh:48:PHE:O	2:Oh:91:ARG:NH2	2.48	0.46
2:Oh:58:GLN:HG3	2:Oh:64:LEU:HD12	1.98	0.46
2:Uh:59:ALA:HB1	2:Uh:60:PRO:HD2	1.96	0.46
2:Vh:88:THR:CB	2:Vh:101:GLN:NE2	2.78	0.46
2:Zh:48:PHE:O	2:Zh:91:ARG:NH2	2.48	0.46
2:1h:53:MET:HB3	2:1h:98:LEU:CD2	2.35	0.46
2:1h:114:TYR:CE1	2:1h:142:GLN:CB	2.99	0.46
2:2h:48:PHE:O	2:2h:91:ARG:NH2	2.48	0.46
2:2h:80:ALA:O	2:2h:84:LYS:HG3	2.15	0.46
2:3h:53:MET:HB2	2:3h:98:LEU:HD13	1.96	0.46
2:3h:55:TRP:NE1	2:3h:100:LEU:HB2	2.31	0.46
2:4h:43:ALA:HB3	2:4h:48:PHE:CD1	2.50	0.46
2:4h:58:GLN:HG3	2:4h:64:LEU:HD12	1.98	0.46
2:4h:121:GLN:HA	2:4h:121:GLN:NE2	2.29	0.46
2:5h:55:TRP:NE1	2:5h:100:LEU:HB2	2.31	0.46
2:6h:145:THR:O	2:6h:145:THR:OG1	2.26	0.46
2:ah:88:THR:CG2	2:ah:101:GLN:HE21	2.23	0.46
2:ch:59:ALA:HB1	2:ch:60:PRO:HD2	1.96	0.46
2:dh:81:ASP:HA	2:dh:84:LYS:CE	2.37	0.46
2:eh:48:PHE:O	2:eh:91:ARG:NH2	2.48	0.46
2:eh:58:GLN:HG3	2:eh:64:LEU:HD12	1.98	0.46
2:gh:58:GLN:HG3	2:gh:64:LEU:HD12	1.98	0.46
2:hh:43:ALA:HB3	2:hh:48:PHE:CD1	2.50	0.46
2:hh:122:PHE:CE2	2:hh:133:TYR:HA	2.51	0.46
2:ih:80:ALA:O	2:ih:84:LYS:HG3	2.15	0.46
2:nh:57:ARG:HG3	2:nh:113:TYR:CZ	2.49	0.46
2:nh:58:GLN:HG3	2:nh:64:LEU:HD12	1.98	0.46
2:oh:43:ALA:HB3	2:oh:48:PHE:CD1	2.50	0.46
2:ph:31:VAL:HG11	2:ph:105:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:uh:88:THR:CB	2:uh:101:GLN:NE2	2.78	0.46
2:vh:43:ALA:HB3	2:vh:48:PHE:CD1	2.50	0.46
2:wh:88:THR:CB	2:wh:101:GLN:NE2	2.78	0.46
2:xh:122:PHE:CE2	2:xh:133:TYR:HA	2.51	0.46
2:8h:59:ALA:HB1	2:8h:60:PRO:HD2	1.96	0.46
3:Tl:33:THR:CG2	3:Tl:34:PRO:CD	2.90	0.46
3:1l:27:PRO:O	3:1l:124:THR:OG1	2.22	0.46
3:zl:33:THR:CG2	3:zl:34:PRO:CD	2.90	0.46
1:B:249:LEU:HD12	1:B:250:PRO:HD2	1.97	0.46
1:C:429:SER:HA	1:C:567:THR:HB	1.98	0.46
1:C:565:ILE:HD12	1:C:569:ASN:HD22	1.81	0.46
1:F:695:ASN:HB2	1:F:696:PRO:HD2	1.97	0.46
1:G:429:SER:HA	1:G:567:THR:HB	1.97	0.46
1:K:519:PRO:HG2	1:K:633:LEU:O	2.16	0.46
1:K:666:PHE:HE2	1:3:371:MET:HB2	1.79	0.46
1:L:429:SER:HA	1:L:567:THR:HB	1.98	0.46
1:O:565:ILE:HD12	1:O:569:ASN:HD22	1.81	0.46
1:T:429:SER:HA	1:T:567:THR:HB	1.97	0.46
1:U:304:TRP:C	1:U:423:SER:HG	2.24	0.46
1:V:444:TYR:OH	1:V:469:ASP:OD2	2.21	0.46
1:W:519:PRO:HG2	1:W:633:LEU:O	2.16	0.46
1:Y:565:ILE:HD12	1:Y:569:ASN:HD22	1.81	0.46
1:Z:519:PRO:HG2	1:Z:633:LEU:O	2.16	0.46
1:2:293:PRO:HB2	1:n:696:PRO:HD3	1.97	0.46
1:2:403:LEU:HD12	1:2:403:LEU:N	2.30	0.46
1:6:403:LEU:HD12	1:6:403:LEU:N	2.30	0.46
1:6:519:PRO:HG2	1:6:633:LEU:O	2.16	0.46
1:a:565:ILE:HD12	1:a:569:ASN:HD22	1.81	0.46
1:e:403:LEU:HD12	1:e:403:LEU:N	2.30	0.46
1:i:519:PRO:HG2	1:i:633:LEU:O	2.16	0.46
1:k:519:PRO:HG2	1:k:633:LEU:O	2.16	0.46
1:k:696:PRO:HD3	1:u:293:PRO:HB2	1.97	0.46
1:l:403:LEU:HD12	1:l:403:LEU:N	2.30	0.46
1:p:304:TRP:C	1:p:423:SER:HG	2.23	0.46
1:s:695:ASN:HB2	1:s:696:PRO:HD2	1.97	0.46
1:v:429:SER:HA	1:v:567:THR:HB	1.97	0.46
1:w:470:ILE:O	1:w:473:GLN:HG3	2.15	0.46
1:z:519:PRO:HG2	1:z:633:LEU:O	2.16	0.46
1:7:565:ILE:HD12	1:7:569:ASN:HD22	1.81	0.46
1:8:565:ILE:HD12	1:8:569:ASN:HD22	1.81	0.46
2:Bh:31:VAL:HG11	2:Bh:105:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Dh:48:PHE:O	2:Dh:91:ARG:NH2	2.48	0.46
2:Dh:114:TYR:CE1	2:Dh:142:GLN:CB	2.99	0.46
2:Gh:80:ALA:O	2:Gh:84:LYS:HG3	2.15	0.46
2:Gh:122:PHE:CE2	2:Gh:133:TYR:HA	2.51	0.46
2:Ih:59:ALA:HB1	2:Ih:60:PRO:HD2	1.96	0.46
2:Kh:43:ALA:HB3	2:Kh:48:PHE:CD1	2.50	0.46
2:Lh:53:MET:HB3	2:Lh:98:LEU:CD2	2.35	0.46
2:Mh:55:TRP:NE1	2:Mh:100:LEU:HB2	2.31	0.46
2:Mh:88:THR:CB	2:Mh:101:GLN:NE2	2.78	0.46
2:Nh:80:ALA:O	2:Nh:84:LYS:HG3	2.15	0.46
2:Nh:122:PHE:CE2	2:Nh:133:TYR:HA	2.51	0.46
2:Ph:59:ALA:HB1	2:Ph:60:PRO:HD2	1.96	0.46
2:Uh:43:ALA:HB3	2:Uh:48:PHE:CD1	2.50	0.46
2:Uh:88:THR:CG2	2:Uh:101:GLN:HE21	2.23	0.46
2:Vh:81:ASP:HA	2:Vh:84:LYS:CE	2.37	0.46
2:Vh:114:TYR:CE1	2:Vh:142:GLN:CB	2.99	0.46
2:Zh:128:LYS:N	2:Zh:128:LYS:CD	2.73	0.46
2:2h:81:ASP:HA	2:2h:84:LYS:CE	2.37	0.46
2:4h:31:VAL:HG11	2:4h:105:LEU:HD22	1.97	0.46
2:4h:122:PHE:CE2	2:4h:133:TYR:HA	2.51	0.46
2:ch:31:VAL:HG11	2:ch:105:LEU:HD22	1.97	0.46
2:ch:80:ALA:O	2:ch:84:LYS:HG3	2.15	0.46
2:ch:122:PHE:CE2	2:ch:133:TYR:HA	2.51	0.46
2:eh:114:TYR:CE1	2:eh:142:GLN:CB	2.99	0.46
2:fh:48:PHE:O	2:fh:91:ARG:NH2	2.48	0.46
2:hh:58:GLN:HG3	2:hh:64:LEU:HD12	1.98	0.46
2:jh:114:TYR:CE1	2:jh:142:GLN:CB	2.99	0.46
2:jh:122:PHE:CE2	2:jh:133:TYR:HA	2.51	0.46
2:lh:43:ALA:HB3	2:lh:48:PHE:CD1	2.50	0.46
2:mh:114:TYR:CE1	2:mh:142:GLN:CB	2.99	0.46
2:ph:58:GLN:HG3	2:ph:64:LEU:HD12	1.98	0.46
2:ph:80:ALA:O	2:ph:84:LYS:HG3	2.15	0.46
2:qh:88:THR:CB	2:qh:101:GLN:NE2	2.78	0.46
2:qh:114:TYR:CE1	2:qh:142:GLN:CB	2.99	0.46
2:rh:48:PHE:O	2:rh:91:ARG:NH2	2.48	0.46
2:sh:59:ALA:HB1	2:sh:60:PRO:HD2	1.96	0.46
2:uh:72:TYR:CA	2:uh:91:ARG:NH1	2.73	0.46
2:xh:59:ALA:HB1	2:xh:60:PRO:HD2	1.96	0.46
2:xh:80:ALA:O	2:xh:84:LYS:HG3	2.15	0.46
2:yh:55:TRP:NE1	2:yh:100:LEU:HB2	2.31	0.46
2:yh:121:GLN:HA	2:yh:121:GLN:NE2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:8h:81:ASP:HA	2:8h:84:LYS:CE	2.37	0.46
3:Dl:31:SER:CB	3:Dl:127:THR:OG1	2.60	0.46
3:Kl:33:THR:CG2	3:Kl:34:PRO:CD	2.90	0.46
3:Pl:31:SER:HB3	3:Pl:127:THR:HG1	1.79	0.46
3:4l:33:THR:CG2	3:4l:34:PRO:CD	2.90	0.46
3:rl:99:LEU:HD12	3:rl:99:LEU:HA	1.78	0.46
3:xl:31:SER:HB3	3:xl:127:THR:HG1	1.79	0.46
1:D:403:LEU:HD12	1:D:403:LEU:N	2.30	0.46
1:J:429:SER:HA	1:J:567:THR:HB	1.97	0.46
1:J:695:ASN:HB2	1:J:696:PRO:HD2	1.97	0.46
1:K:565:ILE:HD12	1:K:569:ASN:HD22	1.81	0.46
1:L:403:LEU:HD12	1:L:403:LEU:N	2.30	0.46
1:M:565:ILE:HD12	1:M:569:ASN:HD22	1.81	0.46
1:R:519:PRO:HG2	1:R:633:LEU:O	2.16	0.46
1:V:519:PRO:HG2	1:V:633:LEU:O	2.16	0.46
1:Z:565:ILE:HD12	1:Z:569:ASN:HD22	1.81	0.46
1:1:470:ILE:O	1:1:473:GLN:HG3	2.15	0.46
1:5:293:PRO:HB2	1:q:696:PRO:HD3	1.97	0.46
1:6:695:ASN:HB2	1:6:696:PRO:HD2	1.97	0.46
1:a:429:SER:HA	1:a:567:THR:HB	1.98	0.46
1:g:429:SER:HA	1:g:567:THR:HB	1.98	0.46
1:g:519:PRO:HG2	1:g:633:LEU:O	2.16	0.46
1:l:429:SER:HA	1:l:567:THR:HB	1.97	0.46
1:l:519:PRO:HG2	1:l:633:LEU:O	2.16	0.46
1:n:429:SER:HA	1:n:567:THR:HB	1.98	0.46
1:o:565:ILE:HD12	1:o:569:ASN:HD22	1.81	0.46
1:q:249:LEU:HD12	1:q:250:PRO:HD2	1.97	0.46
1:r:519:PRO:HG2	1:r:633:LEU:O	2.16	0.46
1:v:666:PHE:HE2	1:7:371:MET:HB2	1.79	0.46
1:x:519:PRO:HG2	1:x:633:LEU:O	2.16	0.46
1:y:519:PRO:HG2	1:y:633:LEU:O	2.16	0.46
2:Ah:58:GLN:HG3	2:Ah:64:LEU:HD12	1.98	0.46
2:Ah:131:TYR:C	2:Ah:133:TYR:H	2.24	0.46
2:Eh:114:TYR:CE1	2:Eh:142:GLN:CB	2.99	0.46
2:Hh:43:ALA:HB3	2:Hh:48:PHE:CD1	2.50	0.46
2:Ih:88:THR:CB	2:Ih:101:GLN:NE2	2.78	0.46
2:Mh:114:TYR:CE1	2:Mh:142:GLN:CB	2.99	0.46
2:Nh:57:ARG:HG3	2:Nh:113:TYR:CZ	2.49	0.46
2:Nh:114:TYR:CE1	2:Nh:142:GLN:CB	2.99	0.46
2:Oh:53:MET:HB3	2:Oh:98:LEU:CD2	2.35	0.46
2:Rh:114:TYR:CE1	2:Rh:142:GLN:CB	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Th:55:TRP:NE1	2:Th:100:LEU:HB2	2.31	0.46
2:Wh:57:ARG:HG3	2:Wh:113:TYR:CZ	2.49	0.46
2:Wh:122:PHE:CE2	2:Wh:133:TYR:HA	2.51	0.46
2:Xh:43:ALA:HB3	2:Xh:48:PHE:CD1	2.50	0.46
2:Xh:80:ALA:O	2:Xh:84:LYS:HG3	2.15	0.46
2:Xh:121:GLN:HA	2:Xh:121:GLN:NE2	2.29	0.46
2:Xh:122:PHE:CE2	2:Xh:133:TYR:HA	2.51	0.46
2:4h:72:TYR:CA	2:4h:91:ARG:NH1	2.73	0.46
2:6h:48:PHE:O	2:6h:91:ARG:NH2	2.48	0.46
2:bh:55:TRP:NE1	2:bh:100:LEU:HB2	2.31	0.46
2:bh:88:THR:CB	2:bh:101:GLN:NE2	2.78	0.46
2:fh:55:TRP:NE1	2:fh:100:LEU:HB2	2.31	0.46
2:gh:55:TRP:NE1	2:gh:100:LEU:HB2	2.31	0.46
2:hh:31:VAL:HG11	2:hh:105:LEU:HD22	1.97	0.46
2:ih:122:PHE:CE2	2:ih:133:TYR:HA	2.51	0.46
2:kh:114:TYR:CE1	2:kh:142:GLN:CB	2.99	0.46
2:nh:88:THR:HG22	2:nh:101:GLN:HE22	1.38	0.46
2:oh:59:ALA:HB1	2:oh:60:PRO:HD2	1.96	0.46
2:ph:114:TYR:CE1	2:ph:142:GLN:CB	2.99	0.46
2:rh:122:PHE:CE2	2:rh:133:TYR:HA	2.51	0.46
2:uh:31:VAL:HG11	2:uh:105:LEU:HD22	1.97	0.46
2:uh:55:TRP:NE1	2:uh:100:LEU:HB2	2.31	0.46
2:uh:57:ARG:HG3	2:uh:113:TYR:CZ	2.49	0.46
2:vh:145:THR:O	2:vh:145:THR:OG1	2.26	0.46
2:xh:43:ALA:HB3	2:xh:48:PHE:CD1	2.50	0.46
2:zh:122:PHE:CE2	2:zh:133:TYR:HA	2.51	0.46
3:Pl:33:THR:CG2	3:Pl:34:PRO:HD2	2.30	0.46
3:bl:75:ARG:HA	3:bl:76:PRO:HD3	1.78	0.46
3:hl:33:THR:CG2	3:hl:34:PRO:CD	2.90	0.46
3:xl:33:THR:CG2	3:xl:34:PRO:CD	2.90	0.46
1:C:696:PRO:HD3	1:H:293:PRO:HB2	1.97	0.46
1:E:429:SER:HA	1:E:567:THR:HB	1.98	0.46
1:H:519:PRO:HG2	1:H:633:LEU:O	2.16	0.46
1:I:565:ILE:HD12	1:I:569:ASN:HD22	1.81	0.46
1:J:293:PRO:HB2	1:v:696:PRO:HD3	1.97	0.46
1:J:696:PRO:HD3	1:v:293:PRO:HB2	1.97	0.46
1:M:249:LEU:HD12	1:M:250:PRO:HD2	1.97	0.46
1:Q:519:PRO:HG2	1:Q:633:LEU:O	2.16	0.46
1:S:403:LEU:HD12	1:S:403:LEU:N	2.30	0.46
1:S:519:PRO:HG2	1:S:633:LEU:O	2.16	0.46
1:S:565:ILE:HD12	1:S:569:ASN:HD22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:695:ASN:HB2	1:S:696:PRO:HD2	1.97	0.46
1:T:519:PRO:HG2	1:T:633:LEU:O	2.16	0.46
1:V:403:LEU:HD12	1:V:403:LEU:N	2.30	0.46
1:X:293:PRO:HB2	1:1:696:PRO:HD3	1.97	0.46
1:a:403:LEU:HD12	1:a:403:LEU:N	2.30	0.46
1:a:696:PRO:HD3	1:y:293:PRO:HB2	1.97	0.46
1:b:249:LEU:HD12	1:b:250:PRO:HD2	1.97	0.46
1:f:403:LEU:HD12	1:f:403:LEU:N	2.30	0.46
1:j:403:LEU:HD12	1:j:403:LEU:N	2.30	0.46
1:j:519:PRO:HG2	1:j:633:LEU:O	2.16	0.46
1:q:429:SER:HA	1:q:567:THR:HB	1.98	0.46
1:q:710:VAL:O	1:q:713:THR:OG1	2.25	0.46
1:r:237:ASP:OD1	1:r:237:ASP:N	2.34	0.46
1:r:565:ILE:HD12	1:r:569:ASN:HD22	1.81	0.46
1:v:695:ASN:HB2	1:v:696:PRO:HD2	1.97	0.46
1:x:565:ILE:HD12	1:x:569:ASN:HD22	1.81	0.46
1:8:403:LEU:HD12	1:8:403:LEU:N	2.30	0.46
2:Bh:55:TRP:NE1	2:Bh:100:LEU:HB2	2.31	0.46
2:Bh:57:ARG:HG3	2:Bh:113:TYR:CZ	2.49	0.46
2:Dh:43:ALA:HB3	2:Dh:48:PHE:CD1	2.50	0.46
2:Eh:88:THR:CB	2:Eh:101:GLN:NE2	2.78	0.46
2:Gh:57:ARG:HG3	2:Gh:113:TYR:CZ	2.49	0.46
2:Nh:59:ALA:HB1	2:Nh:60:PRO:HD2	1.96	0.46
2:Oh:55:TRP:NE1	2:Oh:100:LEU:HB2	2.31	0.46
2:Oh:122:PHE:CE2	2:Oh:133:TYR:HA	2.51	0.46
2:Ph:43:ALA:HB3	2:Ph:48:PHE:CD1	2.50	0.46
2:Qh:48:PHE:O	2:Qh:91:ARG:NH2	2.48	0.46
2:Qh:122:PHE:CE2	2:Qh:133:TYR:HA	2.51	0.46
2:Qh:128:LYS:N	2:Qh:128:LYS:CD	2.73	0.46
2:Qh:129:ALA:HA	2:Qh:130:PRO:HD3	1.80	0.46
2:Sh:114:TYR:CE1	2:Sh:142:GLN:CB	2.99	0.46
2:Vh:122:PHE:CE2	2:Vh:133:TYR:HA	2.51	0.46
2:Wh:131:TYR:C	2:Wh:133:TYR:H	2.24	0.46
2:Yh:122:PHE:CE2	2:Yh:133:TYR:HA	2.51	0.46
2:bh:114:TYR:CE1	2:bh:142:GLN:CB	2.99	0.46
2:dh:43:ALA:HB3	2:dh:48:PHE:CD1	2.50	0.46
2:fh:43:ALA:HB3	2:fh:48:PHE:CD1	2.50	0.46
2:fh:114:TYR:CE1	2:fh:142:GLN:CB	2.99	0.46
2:gh:43:ALA:HB3	2:gh:48:PHE:CD1	2.50	0.46
2:ih:43:ALA:HB3	2:ih:48:PHE:CD1	2.50	0.46
2:ih:121:GLN:HA	2:ih:121:GLN:NE2	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jh:81:ASP:HA	2:jh:84:LYS:CE	2.37	0.46
2:lh:81:ASP:HA	2:lh:84:LYS:CE	2.37	0.46
2:mh:43:ALA:HB3	2:mh:48:PHE:CD1	2.50	0.46
2:nh:80:ALA:O	2:nh:84:LYS:HG3	2.15	0.46
2:ph:88:THR:CG2	2:ph:101:GLN:HE21	2.23	0.46
2:ph:95:LYS:O	2:ph:96:ASN:HB2	2.14	0.46
2:ph:121:GLN:HA	2:ph:121:GLN:NE2	2.29	0.46
2:ph:131:TYR:C	2:ph:133:TYR:H	2.24	0.46
2:rh:57:ARG:HG3	2:rh:113:TYR:CZ	2.49	0.46
2:th:53:MET:HB3	2:th:98:LEU:CD2	2.35	0.46
2:vh:55:TRP:NE1	2:vh:100:LEU:HB2	2.31	0.46
2:wh:88:THR:CG2	2:wh:101:GLN:HE21	2.23	0.46
2:zh:114:TYR:CE1	2:zh:142:GLN:CB	2.99	0.46
3:El:115:SER:HA	3:El:116:PRO:HD2	1.65	0.46
3:Il:79:VAL:HA	3:Il:80:PRO:HD3	1.81	0.46
3:Ml:33:THR:CG2	3:Ml:34:PRO:HD2	2.30	0.46
3:Rl:33:THR:CG2	3:Rl:34:PRO:CD	2.90	0.46
3:1l:33:THR:CG2	3:1l:34:PRO:CD	2.90	0.46
3:5l:31:SER:CB	3:5l:127:THR:OG1	2.60	0.46
3:bl:125:LYS:N	3:bl:125:LYS:CD	2.73	0.46
3:cl:60:LEU:HD23	3:cl:105:ALA:CB	2.34	0.46
3:dl:31:SER:HB3	3:dl:127:THR:HG1	1.79	0.46
3:dl:125:LYS:N	3:dl:125:LYS:CD	2.73	0.46
1:C:403:LEU:HD12	1:C:403:LEU:N	2.30	0.46
1:E:249:LEU:HD12	1:E:250:PRO:HD2	1.97	0.46
1:F:403:LEU:HD12	1:F:403:LEU:N	2.30	0.46
1:K:429:SER:HA	1:K:567:THR:HB	1.98	0.46
1:K:470:ILE:O	1:K:473:GLN:HG3	2.15	0.46
1:M:429:SER:HA	1:M:567:THR:HB	1.97	0.46
1:N:696:PRO:HD3	1:r:293:PRO:HB2	1.97	0.46
1:Q:429:SER:HA	1:Q:567:THR:HB	1.97	0.46
1:Z:403:LEU:N	1:Z:403:LEU:HD12	2.30	0.46
1:Z:695:ASN:HB2	1:Z:696:PRO:HD2	1.97	0.46
1:1:565:ILE:HD12	1:1:569:ASN:HD22	1.81	0.46
1:5:696:PRO:HD3	1:q:293:PRO:HB2	1.97	0.46
1:6:454:THR:CG2	2:6h:138:ASP:HB2	2.46	0.46
1:b:565:ILE:HD12	1:b:569:ASN:HD22	1.81	0.46
1:g:304:TRP:C	1:g:423:SER:HG	2.24	0.46
1:h:429:SER:HA	1:h:567:THR:HB	1.98	0.46
1:k:470:ILE:O	1:k:473:GLN:HG3	2.15	0.46
1:q:519:PRO:HG2	1:q:633:LEU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:249:LEU:HD12	1:v:250:PRO:HD2	1.97	0.46
1:8:695:ASN:HB2	1:8:696:PRO:HD2	1.97	0.46
2:Ah:114:TYR:CE1	2:Ah:142:GLN:CB	2.99	0.46
2:Jh:55:TRP:NE1	2:Jh:100:LEU:HB2	2.31	0.46
2:Kh:58:GLN:HG3	2:Kh:64:LEU:HD12	1.98	0.46
2:Oh:43:ALA:HB3	2:Oh:48:PHE:CD1	2.50	0.46
2:Ph:81:ASP:HA	2:Ph:84:LYS:CE	2.37	0.46
2:Qh:57:ARG:HG3	2:Qh:113:TYR:CZ	2.49	0.46
2:Sh:131:TYR:C	2:Sh:133:TYR:H	2.24	0.46
2:Th:43:ALA:HB3	2:Th:48:PHE:CD1	2.50	0.46
2:Uh:55:TRP:NE1	2:Uh:100:LEU:HB2	2.31	0.46
2:Vh:55:TRP:NE1	2:Vh:100:LEU:HB2	2.31	0.46
2:Wh:114:TYR:CE1	2:Wh:142:GLN:CB	2.99	0.46
2:Xh:55:TRP:NE1	2:Xh:100:LEU:HB2	2.31	0.46
2:Xh:88:THR:CB	2:Xh:101:GLN:NE2	2.78	0.46
2:Yh:114:TYR:CE1	2:Yh:142:GLN:CB	2.99	0.46
2:Yh:131:TYR:C	2:Yh:133:TYR:H	2.24	0.46
2:Zh:114:TYR:CE1	2:Zh:142:GLN:CB	2.99	0.46
2:2h:145:THR:O	2:2h:145:THR:OG1	2.26	0.46
2:3h:122:PHE:CE2	2:3h:133:TYR:HA	2.51	0.46
2:5h:122:PHE:CE2	2:5h:133:TYR:HA	2.51	0.46
2:ah:114:TYR:CE1	2:ah:142:GLN:CB	2.99	0.46
2:ch:114:TYR:CE1	2:ch:142:GLN:CB	2.99	0.46
2:eh:43:ALA:HB3	2:eh:48:PHE:CD1	2.50	0.46
2:fh:122:PHE:CE2	2:fh:133:TYR:HA	2.51	0.46
2:ih:55:TRP:NE1	2:ih:100:LEU:HB2	2.31	0.46
2:kh:121:GLN:NE2	2:kh:121:GLN:HA	2.30	0.46
2:lh:114:TYR:CE1	2:lh:142:GLN:CB	2.99	0.46
2:lh:131:TYR:C	2:lh:133:TYR:H	2.24	0.46
2:mh:48:PHE:O	2:mh:91:ARG:NH2	2.48	0.46
2:nh:129:ALA:HA	2:nh:130:PRO:HD3	1.80	0.46
2:oh:88:THR:CB	2:oh:101:GLN:NE2	2.78	0.46
2:oh:114:TYR:CE1	2:oh:142:GLN:CB	2.99	0.46
2:th:131:TYR:C	2:th:133:TYR:H	2.24	0.46
2:wh:53:MET:HB3	2:wh:98:LEU:CD2	2.35	0.46
2:wh:122:PHE:CE2	2:wh:133:TYR:HA	2.51	0.46
2:yh:43:ALA:HB3	2:yh:48:PHE:CD1	2.50	0.46
2:zh:131:TYR:C	2:zh:133:TYR:H	2.24	0.46
2:7h:114:TYR:CE1	2:7h:142:GLN:CB	2.99	0.46
2:7h:122:PHE:CE2	2:7h:133:TYR:HA	2.51	0.46
2:7h:131:TYR:C	2:7h:133:TYR:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:8h:58:GLN:HG3	2:8h:64:LEU:HD12	1.98	0.46
2:8h:114:TYR:CE1	2:8h:142:GLN:CB	2.99	0.46
3:Kl:31:SER:HB3	3:Kl:127:THR:HG1	1.79	0.46
3:Ml:125:LYS:N	3:Ml:125:LYS:CD	2.73	0.46
3:Nl:27:PRO:O	3:Nl:124:THR:OG1	2.22	0.46
3:Nl:31:SER:HB3	3:Nl:127:THR:HG1	1.77	0.46
3:Ol:75:ARG:HA	3:Ol:76:PRO:HD3	1.78	0.46
3:Pl:125:LYS:N	3:Pl:125:LYS:CD	2.73	0.46
3:4l:100:GLN:NE2	3:4l:100:GLN:CA	2.73	0.46
3:fl:107:TYR:HE2	3:fl:126:VAL:HG22	1.64	0.46
3:hl:100:GLN:NE2	3:hl:100:GLN:CA	2.73	0.46
3:tl:100:GLN:NE2	3:tl:100:GLN:CA	2.73	0.46
3:tl:115:SER:HA	3:tl:116:PRO:HD2	1.64	0.46
1:A:304:TRP:C	1:A:423:SER:HG	2.24	0.45
1:A:666:PHE:HE2	1:M:371:MET:HB2	1.79	0.45
1:E:519:PRO:HG2	1:E:633:LEU:O	2.16	0.45
1:E:696:PRO:HD3	1:3:293:PRO:HB2	1.97	0.45
1:J:249:LEU:HD12	1:J:250:PRO:HD2	1.97	0.45
1:O:403:LEU:HD12	1:O:403:LEU:N	2.30	0.45
1:P:519:PRO:HG2	1:P:633:LEU:O	2.16	0.45
1:Q:565:ILE:HD12	1:Q:569:ASN:HD22	1.81	0.45
1:R:249:LEU:HD12	1:R:250:PRO:HD2	1.97	0.45
1:2:695:ASN:HB2	1:2:696:PRO:HD2	1.97	0.45
1:5:501:SER:HB2	1:p:448:THR:HG23	1.99	0.45
1:b:429:SER:HA	1:b:567:THR:HB	1.97	0.45
1:b:470:ILE:O	1:b:473:GLN:HG3	2.15	0.45
1:i:565:ILE:HD12	1:i:569:ASN:HD22	1.81	0.45
1:j:304:TRP:C	1:j:423:SER:HG	2.25	0.45
1:l:565:ILE:HD12	1:l:569:ASN:HD22	1.81	0.45
1:l:695:ASN:HB2	1:l:696:PRO:HD2	1.97	0.45
1:r:249:LEU:HD12	1:r:250:PRO:HD2	1.97	0.45
1:r:429:SER:HA	1:r:567:THR:HB	1.97	0.45
1:w:565:ILE:HD12	1:w:569:ASN:HD22	1.81	0.45
1:x:429:SER:HA	1:x:567:THR:HB	1.98	0.45
2:Ah:122:PHE:CE2	2:Ah:133:TYR:HA	2.51	0.45
2:Ch:114:TYR:CE1	2:Ch:142:GLN:CB	2.99	0.45
2:Dh:131:TYR:C	2:Dh:133:TYR:H	2.24	0.45
2:Gh:55:TRP:NE1	2:Gh:100:LEU:HB2	2.31	0.45
2:Ih:114:TYR:CE1	2:Ih:142:GLN:CB	2.99	0.45
2:Lh:131:TYR:C	2:Lh:133:TYR:H	2.24	0.45
2:Oh:114:TYR:CE1	2:Oh:142:GLN:CB	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qh:55:TRP:NE1	2:Qh:100:LEU:HB2	2.31	0.45
2:Rh:58:GLN:HG3	2:Rh:64:LEU:HD12	1.98	0.45
2:Rh:121:GLN:NE2	2:Rh:121:GLN:HA	2.29	0.45
2:Sh:81:ASP:HA	2:Sh:84:LYS:CE	2.37	0.45
2:Zh:58:GLN:HG3	2:Zh:64:LEU:HD12	1.98	0.45
2:1h:122:PHE:CE2	2:1h:133:TYR:HA	2.51	0.45
2:1h:131:TYR:C	2:1h:133:TYR:H	2.24	0.45
2:4h:131:TYR:C	2:4h:133:TYR:H	2.24	0.45
2:bh:48:PHE:O	2:bh:91:ARG:NH2	2.48	0.45
2:dh:55:TRP:NE1	2:dh:100:LEU:HB2	2.31	0.45
2:hh:131:TYR:C	2:hh:133:TYR:H	2.24	0.45
2:jh:55:TRP:NE1	2:jh:100:LEU:HB2	2.31	0.45
2:jh:58:GLN:HG3	2:jh:64:LEU:HD12	1.98	0.45
2:mh:55:TRP:NE1	2:mh:100:LEU:HB2	2.31	0.45
2:rh:114:TYR:CE1	2:rh:142:GLN:CB	2.99	0.45
2:rh:128:LYS:N	2:rh:128:LYS:CD	2.73	0.45
2:xh:58:GLN:HG3	2:xh:64:LEU:HD12	1.98	0.45
2:yh:114:TYR:CE1	2:yh:142:GLN:CB	2.99	0.45
2:zh:57:ARG:HG3	2:zh:113:TYR:CZ	2.49	0.45
3:Ll:100:GLN:NE2	3:Ll:100:GLN:CA	2.73	0.45
3:Ol:107:TYR:HE2	3:Ol:126:VAL:HG22	1.64	0.45
1:A:519:PRO:HG2	1:A:633:LEU:O	2.16	0.45
1:K:432:ARG:HA	1:K:434:MET:HE3	1.99	0.45
1:Q:249:LEU:HD12	1:Q:250:PRO:HD2	1.97	0.45
1:Q:293:PRO:HB2	1:c:696:PRO:HD3	1.97	0.45
1:R:403:LEU:HD12	1:R:403:LEU:N	2.30	0.45
1:R:470:ILE:O	1:R:473:GLN:HG3	2.15	0.45
1:T:293:PRO:HB2	1:W:696:PRO:HD3	1.97	0.45
1:T:565:ILE:HD12	1:T:569:ASN:HD22	1.81	0.45
1:W:432:ARG:HA	1:W:434:MET:HE3	1.99	0.45
1:W:695:ASN:HB2	1:W:696:PRO:HD2	1.97	0.45
1:X:565:ILE:HD12	1:X:569:ASN:HD22	1.81	0.45
1:X:695:ASN:HB2	1:X:696:PRO:HD2	1.97	0.45
1:Y:432:ARG:HA	1:Y:434:MET:HE3	1.99	0.45
1:4:429:SER:HA	1:4:567:THR:HB	1.98	0.45
1:d:519:PRO:HG2	1:d:633:LEU:O	2.16	0.45
1:e:565:ILE:HD12	1:e:569:ASN:HD22	1.81	0.45
1:g:293:PRO:HB2	1:z:696:PRO:HD3	1.97	0.45
1:g:565:ILE:HD12	1:g:569:ASN:HD22	1.81	0.45
1:k:249:LEU:HD12	1:k:250:PRO:HD2	1.97	0.45
1:k:450:THR:HG1	1:k:451:PRO:HD2	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:403:LEU:HD12	1:s:403:LEU:N	2.30	0.45
1:t:304:TRP:C	1:t:423:SER:HG	2.25	0.45
1:v:519:PRO:HG2	1:v:633:LEU:O	2.16	0.45
1:x:470:ILE:O	1:x:473:GLN:HG3	2.15	0.45
1:z:432:ARG:HA	1:z:434:MET:HE3	1.99	0.45
1:7:432:ARG:HA	1:7:434:MET:HE3	1.99	0.45
2:Ah:121:GLN:HA	2:Ah:121:GLN:NE2	2.29	0.45
2:Bh:122:PHE:CE2	2:Bh:133:TYR:HA	2.51	0.45
2:Ch:88:THR:CB	2:Ch:101:GLN:NE2	2.78	0.45
2:Hh:114:TYR:CE1	2:Hh:142:GLN:CB	2.99	0.45
2:Jh:131:TYR:C	2:Jh:133:TYR:H	2.24	0.45
2:Jh:145:THR:O	2:Jh:145:THR:OG1	2.26	0.45
2:Oh:131:TYR:C	2:Oh:133:TYR:H	2.24	0.45
2:Ph:55:TRP:NE1	2:Ph:100:LEU:HB2	2.31	0.45
2:Th:122:PHE:CE2	2:Th:133:TYR:HA	2.51	0.45
2:Uh:48:PHE:O	2:Uh:91:ARG:NH2	2.48	0.45
2:Vh:58:GLN:HG3	2:Vh:64:LEU:HD12	1.98	0.45
2:2h:114:TYR:CE1	2:2h:142:GLN:CB	2.99	0.45
2:4h:48:PHE:O	2:4h:91:ARG:NH2	2.48	0.45
2:6h:114:TYR:CE1	2:6h:142:GLN:CB	2.99	0.45
2:dh:31:VAL:HG11	2:dh:105:LEU:HD22	1.97	0.45
2:eh:131:TYR:C	2:eh:133:TYR:H	2.24	0.45
2:fh:131:TYR:C	2:fh:133:TYR:H	2.24	0.45
2:hh:48:PHE:O	2:hh:91:ARG:NH2	2.48	0.45
2:ih:88:THR:CB	2:ih:101:GLN:NE2	2.78	0.45
2:kh:58:GLN:HG3	2:kh:64:LEU:HD12	1.98	0.45
2:lh:121:GLN:HA	2:lh:121:GLN:NE2	2.30	0.45
2:oh:57:ARG:HG3	2:oh:113:TYR:CZ	2.49	0.45
2:ph:72:TYR:CA	2:ph:91:ARG:NH1	2.73	0.45
2:ph:122:PHE:CE2	2:ph:133:TYR:HA	2.51	0.45
2:qh:55:TRP:NE1	2:qh:100:LEU:HB2	2.31	0.45
2:rh:55:TRP:NE1	2:rh:100:LEU:HB2	2.31	0.45
2:vh:72:TYR:CA	2:vh:91:ARG:NH1	2.73	0.45
2:vh:131:TYR:C	2:vh:133:TYR:H	2.24	0.45
2:wh:131:TYR:C	2:wh:133:TYR:H	2.24	0.45
3:Yl:75:ARG:HA	3:Yl:76:PRO:HD3	1.78	0.45
3:3l:31:SER:CB	3:3l:127:THR:OG1	2.60	0.45
3:kl:33:THR:CG2	3:kl:34:PRO:CD	2.90	0.45
3:nl:31:SER:HB3	3:nl:127:THR:HG1	1.80	0.45
3:nl:115:SER:HA	3:nl:116:PRO:HD2	1.64	0.45
3:nl:125:LYS:N	3:nl:125:LYS:CD	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:wl:33:THR:CG2	3:wl:34:PRO:CD	2.90	0.45
1:A:429:SER:HA	1:A:567:THR:HB	1.98	0.45
1:B:432:ARG:HA	1:B:434:MET:HE3	1.99	0.45
1:D:565:ILE:HD12	1:D:569:ASN:HD22	1.81	0.45
1:F:501:SER:HB2	1:1:448:THR:HG23	1.98	0.45
1:F:519:PRO:HG2	1:F:633:LEU:O	2.16	0.45
1:G:432:ARG:HA	1:G:434:MET:HE3	1.99	0.45
1:G:519:PRO:HG2	1:G:633:LEU:O	2.16	0.45
1:J:519:PRO:HG2	1:J:633:LEU:O	2.16	0.45
1:M:293:PRO:HB2	1:4:696:PRO:HD3	1.96	0.45
1:M:470:ILE:O	1:M:473:GLN:HG3	2.15	0.45
1:O:224:SER:H	1:3:407:ASN:HD21	1.65	0.45
1:S:304:TRP:C	1:S:423:SER:HG	2.25	0.45
1:5:403:LEU:HD12	1:5:403:LEU:N	2.30	0.45
1:b:371:MET:HB2	1:p:666:PHE:HE2	1.80	0.45
1:i:432:ARG:HA	1:i:434:MET:HE3	1.99	0.45
1:i:695:ASN:HB2	1:i:696:PRO:HD2	1.97	0.45
1:k:403:LEU:HD12	1:k:403:LEU:N	2.30	0.45
1:m:565:ILE:HD12	1:m:569:ASN:HD22	1.81	0.45
1:n:432:ARG:HA	1:n:434:MET:HE3	1.99	0.45
1:p:519:PRO:HG2	1:p:633:LEU:O	2.16	0.45
1:u:432:ARG:HA	1:u:434:MET:HE3	1.99	0.45
1:x:432:ARG:HA	1:x:434:MET:HE3	1.99	0.45
1:z:695:ASN:HB2	1:z:696:PRO:HD2	1.97	0.45
1:7:429:SER:HA	1:7:567:THR:HB	1.98	0.45
2:Ah:48:PHE:O	2:Ah:91:ARG:NH2	2.48	0.45
2:Gh:88:THR:HG22	2:Gh:101:GLN:HE22	1.38	0.45
2:Hh:31:VAL:HG11	2:Hh:105:LEU:HD22	1.97	0.45
2:Ih:55:TRP:NE1	2:Ih:100:LEU:HB2	2.31	0.45
2:Jh:48:PHE:O	2:Jh:91:ARG:NH2	2.48	0.45
2:Lh:52:GLY:O	2:Lh:118:ALA:N	2.25	0.45
2:Mh:48:PHE:O	2:Mh:91:ARG:NH2	2.48	0.45
2:Nh:58:GLN:HG3	2:Nh:64:LEU:HD12	1.98	0.45
2:Ph:31:VAL:HG11	2:Ph:105:LEU:HD22	1.97	0.45
2:Ph:58:GLN:HG3	2:Ph:64:LEU:HD12	1.98	0.45
2:Qh:114:TYR:CE1	2:Qh:142:GLN:CB	2.99	0.45
2:Wh:48:PHE:O	2:Wh:91:ARG:NH2	2.48	0.45
2:Zh:131:TYR:C	2:Zh:133:TYR:H	2.24	0.45
2:4h:114:TYR:CE1	2:4h:142:GLN:CB	2.99	0.45
2:ah:88:THR:CB	2:ah:101:GLN:NE2	2.78	0.45
2:ch:58:GLN:HG3	2:ch:64:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gh:114:TYR:CE1	2:gh:142:GLN:CB	2.99	0.45
2:gh:122:PHE:CE2	2:gh:133:TYR:HA	2.51	0.45
2:nh:55:TRP:NE1	2:nh:100:LEU:HB2	2.31	0.45
2:oh:55:TRP:NE1	2:oh:100:LEU:HB2	2.31	0.45
2:ph:48:PHE:O	2:ph:91:ARG:NH2	2.48	0.45
2:sh:122:PHE:CE2	2:sh:133:TYR:HA	2.51	0.45
2:th:52:GLY:O	2:th:118:ALA:N	2.25	0.45
2:uh:53:MET:HB3	2:uh:98:LEU:CD2	2.35	0.45
2:uh:122:PHE:CE2	2:uh:133:TYR:HA	2.51	0.45
2:vh:114:TYR:CE1	2:vh:142:GLN:CB	2.99	0.45
2:yh:31:VAL:HG11	2:yh:105:LEU:HD22	1.97	0.45
2:zh:88:THR:CB	2:zh:101:GLN:NE2	2.78	0.45
2:8h:55:TRP:NE1	2:8h:100:LEU:HB2	2.31	0.45
3:Fl:33:THR:CG2	3:Fl:34:PRO:CD	2.90	0.45
3:Hl:31:SER:HB3	3:Hl:127:THR:HG1	1.80	0.45
3:1l:104:GLU:HA	3:1l:126:VAL:HB	1.99	0.45
3:kl:115:SER:HA	3:kl:116:PRO:HD2	1.64	0.45
3:ml:60:LEU:HD23	3:ml:105:ALA:CB	2.34	0.45
3:wl:104:GLU:HA	3:wl:126:VAL:HB	1.99	0.45
3:7l:75:ARG:HA	3:7l:76:PRO:HD3	1.78	0.45
1:A:224:SER:H	1:V:407:ASN:HD21	1.64	0.45
1:G:565:ILE:HD12	1:G:569:ASN:HD22	1.81	0.45
1:L:432:ARG:HA	1:L:434:MET:HE3	1.99	0.45
1:L:519:PRO:HG2	1:L:633:LEU:O	2.16	0.45
1:L:666:PHE:HE2	1:z:371:MET:HB2	1.80	0.45
1:M:403:LEU:HD12	1:M:403:LEU:N	2.30	0.45
1:V:432:ARG:HA	1:V:434:MET:HE3	1.99	0.45
1:X:432:ARG:HA	1:X:434:MET:HE3	1.99	0.45
1:Y:429:SER:HA	1:Y:567:THR:HB	1.98	0.45
1:3:403:LEU:HD12	1:3:403:LEU:N	2.30	0.45
1:j:432:ARG:HA	1:j:434:MET:HE3	1.99	0.45
1:n:519:PRO:HG2	1:n:633:LEU:O	2.16	0.45
1:n:565:ILE:HD12	1:n:569:ASN:HD22	1.81	0.45
1:p:432:ARG:HA	1:p:434:MET:HE3	1.99	0.45
1:s:519:PRO:HG2	1:s:633:LEU:O	2.16	0.45
1:t:432:ARG:HA	1:t:434:MET:HE3	1.99	0.45
1:7:519:PRO:HG2	1:7:633:LEU:O	2.16	0.45
2:Eh:55:TRP:NE1	2:Eh:100:LEU:HB2	2.31	0.45
2:Fh:122:PHE:CE2	2:Fh:133:TYR:HA	2.51	0.45
2:Gh:48:PHE:O	2:Gh:91:ARG:NH2	2.48	0.45
2:Ih:122:PHE:CE2	2:Ih:133:TYR:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Jh:114:TYR:CE1	2:Jh:142:GLN:CB	2.99	0.45
2:Nh:48:PHE:O	2:Nh:91:ARG:NH2	2.48	0.45
2:Sh:121:GLN:HA	2:Sh:121:GLN:NE2	2.30	0.45
2:Sh:122:PHE:CE2	2:Sh:133:TYR:HA	2.51	0.45
2:Wh:88:THR:CB	2:Wh:101:GLN:NE2	2.78	0.45
2:Zh:55:TRP:NE1	2:Zh:100:LEU:HB2	2.31	0.45
2:3h:72:TYR:CA	2:3h:91:ARG:NH1	2.73	0.45
2:6h:131:TYR:C	2:6h:133:TYR:H	2.24	0.45
2:bh:131:TYR:C	2:bh:133:TYR:H	2.24	0.45
2:ch:48:PHE:O	2:ch:91:ARG:NH2	2.48	0.45
2:dh:58:GLN:HG3	2:dh:64:LEU:HD12	1.98	0.45
2:hh:114:TYR:CE1	2:hh:142:GLN:CB	2.99	0.45
2:kh:131:TYR:C	2:kh:133:TYR:H	2.24	0.45
2:lh:122:PHE:CE2	2:lh:133:TYR:HA	2.51	0.45
2:mh:145:THR:O	2:mh:145:THR:OG1	2.26	0.45
2:oh:122:PHE:CE2	2:oh:133:TYR:HA	2.51	0.45
2:vh:122:PHE:CE2	2:vh:133:TYR:HA	2.51	0.45
2:wh:58:GLN:HG3	2:wh:64:LEU:HD12	1.98	0.45
2:xh:57:ARG:HG3	2:xh:113:TYR:CZ	2.49	0.45
2:8h:131:TYR:C	2:8h:133:TYR:H	2.24	0.45
3:Nl:60:LEU:HD23	3:Nl:105:ALA:CB	2.34	0.45
3:Ql:99:LEU:HD12	3:Ql:99:LEU:HA	1.78	0.45
3:5l:115:SER:HA	3:5l:116:PRO:HD2	1.65	0.45
3:bl:33:THR:CG2	3:bl:34:PRO:HD2	2.30	0.45
3:dl:33:THR:CG2	3:dl:34:PRO:HD2	2.30	0.45
3:ql:115:SER:HA	3:ql:116:PRO:HD2	1.65	0.45
3:ul:99:LEU:HD12	3:ul:99:LEU:HA	1.78	0.45
3:vl:99:LEU:HD12	3:vl:99:LEU:HA	1.78	0.45
3:vl:104:GLU:HA	3:vl:126:VAL:HB	1.99	0.45
3:yl:115:SER:HA	3:yl:116:PRO:HD2	1.64	0.45
1:D:519:PRO:HG2	1:D:633:LEU:O	2.16	0.45
1:I:519:PRO:HG2	1:I:633:LEU:O	2.16	0.45
1:L:565:ILE:HD12	1:L:569:ASN:HD22	1.81	0.45
1:T:304:TRP:C	1:T:423:SER:HG	2.24	0.45
1:U:565:ILE:HD12	1:U:569:ASN:HD22	1.81	0.45
1:Y:519:PRO:HG2	1:Y:633:LEU:O	2.16	0.45
1:Z:432:ARG:HA	1:Z:434:MET:HE3	1.99	0.45
1:4:432:ARG:HA	1:4:434:MET:HE3	1.99	0.45
1:5:519:PRO:HG2	1:5:633:LEU:O	2.16	0.45
1:b:403:LEU:HD12	1:b:403:LEU:N	2.30	0.45
1:h:432:ARG:HA	1:h:434:MET:HE3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:432:ARG:HA	1:m:434:MET:HE3	1.99	0.45
1:o:432:ARG:HA	1:o:434:MET:HE3	1.99	0.45
1:o:519:PRO:HG2	1:o:633:LEU:O	2.16	0.45
1:p:429:SER:HA	1:p:567:THR:HB	1.98	0.45
1:t:519:PRO:HG2	1:t:633:LEU:O	2.16	0.45
1:w:432:ARG:HA	1:w:434:MET:HE3	1.99	0.45
1:8:432:ARG:HA	1:8:434:MET:HE3	1.99	0.45
2:Ah:72:TYR:CA	2:Ah:91:ARG:NH1	2.73	0.45
2:Ah:88:THR:CG2	2:Ah:101:GLN:HE21	2.23	0.45
2:Dh:55:TRP:NE1	2:Dh:100:LEU:HB2	2.31	0.45
2:Ih:57:ARG:HG3	2:Ih:113:TYR:CZ	2.49	0.45
2:Jh:72:TYR:CA	2:Jh:91:ARG:NH1	2.73	0.45
2:Jh:122:PHE:CE2	2:Jh:133:TYR:HA	2.51	0.45
2:Kh:114:TYR:CE1	2:Kh:142:GLN:CB	2.99	0.45
2:Th:57:ARG:HG3	2:Th:113:TYR:CZ	2.49	0.45
2:Th:114:TYR:CE1	2:Th:142:GLN:CB	2.99	0.45
2:Xh:114:TYR:CE1	2:Xh:142:GLN:CB	2.99	0.45
2:Zh:80:ALA:O	2:Zh:84:LYS:HG3	2.15	0.45
2:1h:58:GLN:HG3	2:1h:64:LEU:HD12	1.98	0.45
2:2h:131:TYR:C	2:2h:133:TYR:H	2.24	0.45
2:rh:129:ALA:HA	2:rh:130:PRO:HD3	1.80	0.45
2:vh:48:PHE:O	2:vh:91:ARG:NH2	2.48	0.45
2:vh:81:ASP:HA	2:vh:84:LYS:CE	2.37	0.45
2:zh:48:PHE:O	2:zh:91:ARG:NH2	2.48	0.45
3:Gl:125:LYS:N	3:Gl:125:LYS:CD	2.73	0.45
3:Jl:104:GLU:HA	3:Jl:126:VAL:HB	1.99	0.45
3:2l:104:GLU:HA	3:2l:126:VAL:HB	1.99	0.45
3:6l:104:GLU:HA	3:6l:126:VAL:HB	1.99	0.45
3:ol:100:GLN:NE2	3:ol:100:GLN:CA	2.73	0.45
3:zl:104:GLU:HA	3:zl:126:VAL:HB	1.99	0.45
1:A:432:ARG:HA	1:A:434:MET:HE3	1.99	0.45
1:D:404:ARG:H	1:D:407:ASN:ND2	2.12	0.45
1:D:448:THR:C	1:D:459:ARG:O	2.60	0.45
1:E:432:ARG:HA	1:E:434:MET:HE3	1.99	0.45
1:F:448:THR:C	1:F:459:ARG:O	2.60	0.45
1:G:448:THR:C	1:G:459:ARG:O	2.60	0.45
1:H:565:ILE:HD12	1:H:569:ASN:HD22	1.81	0.45
1:I:432:ARG:HA	1:I:434:MET:HE3	1.99	0.45
1:N:448:THR:C	1:N:459:ARG:O	2.60	0.45
1:O:448:THR:C	1:O:459:ARG:O	2.60	0.45
1:P:444:TYR:OH	1:P:469:ASP:OD2	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:448:THR:C	1:P:459:ARG:O	2.60	0.45
1:U:432:ARG:HA	1:U:434:MET:HE3	1.99	0.45
1:W:371:MET:HB2	1:t:666:PHE:HE2	1.80	0.45
1:Y:304:TRP:C	1:Y:423:SER:HG	2.24	0.45
1:1:432:ARG:HA	1:1:434:MET:HE3	1.99	0.45
1:2:565:ILE:HD12	1:2:569:ASN:HD22	1.81	0.45
1:5:407:ASN:HD21	1:f:224:SER:H	1.65	0.45
1:a:432:ARG:HA	1:a:434:MET:HE3	1.99	0.45
1:a:519:PRO:HG2	1:a:633:LEU:O	2.16	0.45
1:b:293:PRO:HB2	1:h:696:PRO:HD3	1.97	0.45
1:c:448:THR:C	1:c:459:ARG:O	2.60	0.45
1:d:448:THR:C	1:d:459:ARG:O	2.60	0.45
1:e:448:THR:C	1:e:459:ARG:O	2.60	0.45
1:e:519:PRO:HG2	1:e:633:LEU:O	2.16	0.45
1:f:448:THR:C	1:f:459:ARG:O	2.60	0.45
1:n:448:THR:C	1:n:459:ARG:O	2.60	0.45
1:s:448:THR:C	1:s:459:ARG:O	2.60	0.45
1:u:519:PRO:HG2	1:u:633:LEU:O	2.16	0.45
1:y:565:ILE:HD12	1:y:569:ASN:HD22	1.81	0.45
2:Gh:31:VAL:HG11	2:Gh:105:LEU:HD22	1.97	0.45
2:Gh:131:TYR:C	2:Gh:133:TYR:H	2.24	0.45
2:Mh:131:TYR:C	2:Mh:133:TYR:H	2.24	0.45
2:Ph:114:TYR:CE1	2:Ph:142:GLN:CB	2.99	0.45
2:Qh:52:GLY:O	2:Qh:118:ALA:N	2.25	0.45
2:Rh:122:PHE:CE2	2:Rh:133:TYR:HA	2.51	0.45
2:Rh:131:TYR:C	2:Rh:133:TYR:H	2.24	0.45
2:Uh:145:THR:O	2:Uh:145:THR:OG1	2.26	0.45
2:Xh:131:TYR:C	2:Xh:133:TYR:H	2.24	0.45
2:2h:122:PHE:CE2	2:2h:133:TYR:HA	2.51	0.45
2:4h:55:TRP:NE1	2:4h:100:LEU:HB2	2.31	0.45
2:6h:122:PHE:CE2	2:6h:133:TYR:HA	2.51	0.45
2:ah:58:GLN:HG3	2:ah:64:LEU:HD12	1.98	0.45
2:dh:114:TYR:CE1	2:dh:142:GLN:CB	2.99	0.45
2:eh:55:TRP:NE1	2:eh:100:LEU:HB2	2.31	0.45
2:gh:57:ARG:HG3	2:gh:113:TYR:CZ	2.49	0.45
2:ih:114:TYR:CE1	2:ih:142:GLN:CB	2.99	0.45
2:ih:131:TYR:C	2:ih:133:TYR:H	2.24	0.45
2:nh:48:PHE:O	2:nh:91:ARG:NH2	2.48	0.45
2:nh:131:TYR:C	2:nh:133:TYR:H	2.24	0.45
2:qh:122:PHE:CE2	2:qh:133:TYR:HA	2.51	0.45
2:sh:48:PHE:O	2:sh:91:ARG:NH2	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:xh:114:TYR:CE1	2:xh:142:GLN:CB	2.99	0.45
3:Bl:104:GLU:HA	3:Bl:126:VAL:HB	1.99	0.45
3:Fl:104:GLU:HA	3:Fl:126:VAL:HB	1.99	0.45
3:Jl:33:THR:CG2	3:Jl:34:PRO:CD	2.90	0.45
3:Kl:104:GLU:HA	3:Kl:126:VAL:HB	1.99	0.45
3:Ol:104:GLU:HA	3:Ol:126:VAL:HB	1.99	0.45
3:Wl:104:GLU:HA	3:Wl:126:VAL:HB	1.99	0.45
3:3l:79:VAL:HA	3:3l:80:PRO:HD3	1.81	0.45
3:fl:75:ARG:HA	3:fl:76:PRO:HD3	1.78	0.45
3:sl:33:THR:CG2	3:sl:34:PRO:CD	2.90	0.45
3:sl:104:GLU:HA	3:sl:126:VAL:HB	1.99	0.45
3:xl:60:LEU:HD23	3:xl:105:ALA:CB	2.34	0.45
3:xl:104:GLU:HA	3:xl:126:VAL:HB	1.99	0.45
3:zl:27:PRO:O	3:zl:124:THR:OG1	2.22	0.45
1:A:501:SER:HB2	1:4:448:THR:HG23	1.98	0.45
1:B:448:THR:C	1:B:459:ARG:O	2.60	0.45
1:B:519:PRO:HG2	1:B:633:LEU:O	2.16	0.45
1:C:432:ARG:HA	1:C:434:MET:HE3	1.99	0.45
1:D:432:ARG:HA	1:D:434:MET:HE3	1.99	0.45
1:E:407:ASN:HD21	1:L:224:SER:H	1.65	0.45
1:F:429:SER:HA	1:F:567:THR:HB	1.98	0.45
1:K:448:THR:C	1:K:459:ARG:O	2.60	0.45
1:L:304:TRP:C	1:L:423:SER:HG	2.25	0.45
1:L:448:THR:C	1:L:459:ARG:O	2.60	0.45
1:M:448:THR:C	1:M:459:ARG:O	2.60	0.45
1:3:519:PRO:HG2	1:3:633:LEU:O	2.16	0.45
1:e:432:ARG:HA	1:e:434:MET:HE3	1.99	0.45
1:j:407:ASN:HD21	1:p:224:SER:H	1.64	0.45
1:q:432:ARG:HA	1:q:434:MET:HE3	1.99	0.45
1:s:429:SER:HA	1:s:567:THR:HB	1.98	0.45
1:t:448:THR:C	1:t:459:ARG:O	2.60	0.45
1:t:565:ILE:HD12	1:t:569:ASN:HD22	1.81	0.45
1:u:448:THR:C	1:u:459:ARG:O	2.60	0.45
1:v:448:THR:C	1:v:459:ARG:O	2.60	0.45
1:x:448:THR:C	1:x:459:ARG:O	2.60	0.45
2:Bh:53:MET:HB3	2:Bh:98:LEU:CD2	2.35	0.45
2:Bh:114:TYR:CE1	2:Bh:142:GLN:CB	2.99	0.45
2:Ch:58:GLN:HG3	2:Ch:64:LEU:HD12	1.98	0.45
2:Dh:101:GLN:HE21	2:Dh:101:GLN:HB2	1.62	0.45
2:Eh:131:TYR:C	2:Eh:133:TYR:H	2.24	0.45
2:Fh:48:PHE:O	2:Fh:91:ARG:NH2	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Jh:58:GLN:HG3	2:Jh:64:LEU:HD12	1.98	0.45
2:Jh:81:ASP:HA	2:Jh:84:LYS:CE	2.37	0.45
2:Kh:57:ARG:HG3	2:Kh:113:TYR:CZ	2.49	0.45
2:Lh:55:TRP:NE1	2:Lh:100:LEU:HB2	2.31	0.45
2:Mh:121:GLN:HA	2:Mh:121:GLN:NE2	2.29	0.45
2:Nh:55:TRP:NE1	2:Nh:100:LEU:HB2	2.31	0.45
2:Ph:131:TYR:C	2:Ph:133:TYR:H	2.24	0.45
2:Qh:131:TYR:C	2:Qh:133:TYR:H	2.24	0.45
2:Th:131:TYR:C	2:Th:133:TYR:H	2.24	0.45
2:3h:114:TYR:CE1	2:3h:142:GLN:CB	2.99	0.45
2:5h:114:TYR:CE1	2:5h:142:GLN:CB	2.99	0.45
2:dh:131:TYR:C	2:dh:133:TYR:H	2.24	0.45
2:gh:131:TYR:C	2:gh:133:TYR:H	2.24	0.45
2:lh:31:VAL:HG11	2:lh:105:LEU:HD22	1.97	0.45
2:sh:53:MET:HB3	2:sh:98:LEU:CD2	2.35	0.45
2:th:55:TRP:NE1	2:th:100:LEU:HB2	2.31	0.45
2:th:122:PHE:CE2	2:th:133:TYR:HA	2.51	0.45
2:uh:114:TYR:CE1	2:uh:142:GLN:CB	2.99	0.45
2:8h:80:ALA:O	2:8h:84:LYS:HG3	2.15	0.45
3:Gl:31:SER:HB3	3:Gl:127:THR:HG1	1.81	0.45
3:Ql:104:GLU:HA	3:Ql:126:VAL:HB	1.99	0.45
3:Sl:104:GLU:HA	3:Sl:126:VAL:HB	1.99	0.45
3:3l:115:SER:HA	3:3l:116:PRO:HD2	1.65	0.45
3:al:104:GLU:HA	3:al:126:VAL:HB	1.99	0.45
3:bl:60:LEU:HD23	3:bl:105:ALA:CB	2.34	0.45
3:el:104:GLU:HA	3:el:126:VAL:HB	1.99	0.45
3:fl:104:GLU:HA	3:fl:126:VAL:HB	1.99	0.45
3:ll:104:GLU:HA	3:ll:126:VAL:HB	1.99	0.45
3:pl:115:SER:HA	3:pl:116:PRO:HD2	1.65	0.45
3:rl:104:GLU:HA	3:rl:126:VAL:HB	1.99	0.45
1:A:448:THR:C	1:A:459:ARG:O	2.60	0.45
1:C:519:PRO:HG2	1:C:633:LEU:O	2.16	0.45
1:H:429:SER:HA	1:H:567:THR:HB	1.97	0.45
1:I:448:THR:C	1:I:459:ARG:O	2.60	0.45
1:M:519:PRO:HG2	1:M:633:LEU:O	2.16	0.45
1:P:429:SER:HA	1:P:567:THR:HB	1.97	0.45
1:U:448:THR:C	1:U:459:ARG:O	2.60	0.45
1:2:448:THR:C	1:2:459:ARG:O	2.60	0.45
1:6:565:ILE:HD12	1:6:569:ASN:HD22	1.81	0.45
1:b:448:THR:C	1:b:459:ARG:O	2.60	0.45
1:e:404:ARG:H	1:e:407:ASN:ND2	2.12	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:237:ASP:OD1	1:h:237:ASP:N	2.33	0.45
1:j:565:ILE:HD12	1:j:569:ASN:HD22	1.81	0.45
1:m:448:THR:C	1:m:459:ARG:O	2.60	0.45
1:m:519:PRO:HG2	1:m:633:LEU:O	2.16	0.45
1:o:448:THR:C	1:o:459:ARG:O	2.60	0.45
1:q:407:ASN:HD21	1:t:224:SER:H	1.65	0.45
1:q:565:ILE:HD12	1:q:569:ASN:HD22	1.81	0.45
2:Ah:55:TRP:NE1	2:Ah:100:LEU:HB2	2.31	0.45
2:Ah:101:GLN:HE21	2:Ah:101:GLN:HB2	1.62	0.45
2:Ch:122:PHE:CE2	2:Ch:133:TYR:HA	2.51	0.45
2:Eh:122:PHE:CE2	2:Eh:133:TYR:HA	2.51	0.45
2:Gh:114:TYR:CE1	2:Gh:142:GLN:CB	2.99	0.45
2:Lh:122:PHE:CE2	2:Lh:133:TYR:HA	2.51	0.45
2:Ph:129:ALA:HA	2:Ph:130:PRO:HD3	1.80	0.45
2:Vh:57:ARG:HG3	2:Vh:113:TYR:CZ	2.49	0.45
2:Vh:131:TYR:C	2:Vh:133:TYR:H	2.24	0.45
2:5h:72:TYR:CA	2:5h:91:ARG:NH1	2.73	0.45
2:6h:88:THR:CG2	2:6h:101:GLN:HE21	2.23	0.45
2:bh:58:GLN:HG3	2:bh:64:LEU:HD12	1.98	0.45
2:hh:55:TRP:NE1	2:hh:100:LEU:HB2	2.31	0.45
2:jh:131:TYR:C	2:jh:133:TYR:H	2.24	0.45
2:kh:88:THR:CG2	2:kh:101:GLN:HE21	2.23	0.45
2:kh:122:PHE:CE2	2:kh:133:TYR:HA	2.51	0.45
2:mh:88:THR:CB	2:mh:101:GLN:NE2	2.78	0.45
2:oh:131:TYR:C	2:oh:133:TYR:H	2.24	0.45
2:rh:131:TYR:C	2:rh:133:TYR:H	2.24	0.45
2:vh:58:GLN:HG3	2:vh:64:LEU:HD12	1.98	0.45
2:yh:122:PHE:CE2	2:yh:133:TYR:HA	2.51	0.45
3:Cl:104:GLU:HA	3:Cl:126:VAL:HB	1.99	0.45
3:Dl:104:GLU:HA	3:Dl:126:VAL:HB	1.99	0.45
3:Il:100:GLN:NE2	3:Il:100:GLN:CA	2.73	0.45
3:Kl:60:LEU:HD23	3:Kl:105:ALA:CB	2.34	0.45
3:Ll:115:SER:HA	3:Ll:116:PRO:HD2	1.64	0.45
3:Ml:60:LEU:HD23	3:Ml:105:ALA:CB	2.34	0.45
3:Ul:60:LEU:HD23	3:Ul:105:ALA:CB	2.34	0.45
3:ml:69:ILE:HD13	3:ml:75:ARG:HG2	1.99	0.45
3:ul:104:GLU:HA	3:ul:126:VAL:HB	1.99	0.45
1:E:565:ILE:HD12	1:E:569:ASN:HD22	1.81	0.45
1:G:448:THR:HG23	1:T:501:SER:HB2	1.99	0.45
1:J:448:THR:C	1:J:459:ARG:O	2.60	0.45
1:S:432:ARG:HA	1:S:434:MET:HE3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:448:THR:C	1:S:459:ARG:O	2.60	0.45
1:T:407:ASN:HD21	1:6:224:SER:H	1.65	0.45
1:U:519:PRO:HG2	1:U:633:LEU:O	2.16	0.45
1:b:519:PRO:HG2	1:b:633:LEU:O	2.16	0.45
1:f:302:ASN:OD1	1:p:302:ASN:OD1	2.35	0.45
1:f:519:PRO:HG2	1:f:633:LEU:O	2.16	0.45
1:l:432:ARG:HA	1:l:434:MET:HE3	1.99	0.45
1:p:448:THR:C	1:p:459:ARG:O	2.60	0.45
1:w:429:SER:HA	1:w:567:THR:HB	1.98	0.45
1:y:429:SER:HA	1:y:567:THR:HB	1.97	0.45
2:Mh:58:GLN:HG3	2:Mh:64:LEU:HD12	1.98	0.45
2:Rh:55:TRP:NE1	2:Rh:100:LEU:HB2	2.31	0.45
2:Rh:81:ASP:HA	2:Rh:84:LYS:CE	2.37	0.45
2:Sh:31:VAL:HG11	2:Sh:105:LEU:HD22	1.97	0.45
2:Uh:88:THR:CB	2:Uh:101:GLN:NE2	2.78	0.45
2:Zh:122:PHE:CE2	2:Zh:133:TYR:HA	2.51	0.45
2:2h:55:TRP:NE1	2:2h:100:LEU:HB2	2.31	0.45
2:3h:81:ASP:HA	2:3h:84:LYS:CE	2.37	0.45
2:bh:121:GLN:HA	2:bh:121:GLN:NE2	2.29	0.45
2:ch:55:TRP:NE1	2:ch:100:LEU:HB2	2.31	0.45
2:ch:131:TYR:C	2:ch:133:TYR:H	2.24	0.45
2:eh:122:PHE:CE2	2:eh:133:TYR:HA	2.51	0.45
2:kh:81:ASP:HA	2:kh:84:LYS:CE	2.37	0.45
2:nh:31:VAL:HG11	2:nh:105:LEU:HD22	1.97	0.45
2:nh:114:TYR:CE1	2:nh:142:GLN:CB	2.99	0.45
2:ph:57:ARG:HG3	2:ph:113:TYR:CZ	2.49	0.45
2:qh:131:TYR:C	2:qh:133:TYR:H	2.24	0.45
2:uh:131:TYR:C	2:uh:133:TYR:H	2.24	0.45
2:wh:55:TRP:NE1	2:wh:100:LEU:HB2	2.31	0.45
2:yh:88:THR:CG2	2:yh:101:GLN:HE21	2.23	0.45
2:zh:55:TRP:NE1	2:zh:100:LEU:HB2	2.31	0.45
2:zh:129:ALA:HA	2:zh:130:PRO:HD3	1.80	0.45
2:8h:122:PHE:CE2	2:8h:133:TYR:HA	2.51	0.45
3:Bl:31:SER:HB3	3:Bl:127:THR:HG1	1.79	0.45
3:Bl:99:LEU:HD12	3:Bl:99:LEU:HA	1.78	0.45
3:El:104:GLU:HA	3:El:126:VAL:HB	1.99	0.45
3:Jl:99:LEU:HD12	3:Jl:99:LEU:HA	1.78	0.45
3:Ml:115:SER:HA	3:Ml:116:PRO:HD2	1.65	0.45
3:Rl:115:SER:HA	3:Rl:116:PRO:HD2	1.64	0.45
3:Ul:69:ILE:HD13	3:Ul:75:ARG:HG2	1.99	0.45
3:Vl:31:SER:HB3	3:Vl:127:THR:HG1	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Wl:69:ILE:HD13	3:Wl:75:ARG:HG2	1.99	0.45
3:Zl:115:SER:HA	3:Zl:116:PRO:HD2	1.64	0.45
3:3l:104:GLU:HA	3:3l:126:VAL:HB	1.99	0.45
3:5l:104:GLU:HA	3:5l:126:VAL:HB	1.99	0.45
3:jl:99:LEU:HD12	3:jl:99:LEU:HA	1.78	0.45
3:7l:115:SER:HA	3:7l:116:PRO:HD2	1.64	0.45
1:C:224:SER:H	1:7:407:ASN:HD21	1.65	0.45
1:I:304:TRP:CD2	1:I:689:GLU:HA	2.53	0.45
1:J:565:ILE:HD12	1:J:569:ASN:HD22	1.81	0.45
1:K:407:ASN:HD21	1:3:224:SER:H	1.65	0.45
1:M:304:TRP:CD2	1:M:689:GLU:HA	2.52	0.45
1:O:432:ARG:HA	1:O:434:MET:HE3	1.99	0.45
1:O:519:PRO:HG2	1:O:633:LEU:O	2.16	0.45
1:T:448:THR:C	1:T:459:ARG:O	2.60	0.45
1:V:565:ILE:HD12	1:V:569:ASN:HD22	1.81	0.45
1:X:448:THR:C	1:X:459:ARG:O	2.60	0.45
1:1:429:SER:HA	1:1:567:THR:HB	1.97	0.45
1:3:448:THR:C	1:3:459:ARG:O	2.60	0.45
1:5:224:SER:H	1:x:407:ASN:HD21	1.65	0.45
1:5:448:THR:C	1:5:459:ARG:O	2.60	0.45
1:6:448:THR:C	1:6:459:ARG:O	2.60	0.45
1:c:444:TYR:OH	1:c:469:ASP:OD2	2.21	0.45
1:d:429:SER:HA	1:d:567:THR:HB	1.97	0.45
1:d:565:ILE:HD12	1:d:569:ASN:HD22	1.81	0.45
1:g:501:SER:HB2	1:n:448:THR:HG23	1.99	0.45
1:i:448:THR:C	1:i:459:ARG:O	2.60	0.45
1:o:304:TRP:CD2	1:o:689:GLU:HA	2.53	0.45
1:t:584:GLN:HE21	1:t:584:GLN:HB3	1.68	0.45
2:Ch:48:PHE:O	2:Ch:91:ARG:NH2	2.48	0.45
2:Dh:122:PHE:CE2	2:Dh:133:TYR:HA	2.51	0.45
2:Hh:122:PHE:CE2	2:Hh:133:TYR:HA	2.51	0.45
2:Ih:131:TYR:C	2:Ih:133:TYR:H	2.24	0.45
2:Mh:122:PHE:CE2	2:Mh:133:TYR:HA	2.51	0.45
2:Nh:131:TYR:C	2:Nh:133:TYR:H	2.24	0.45
2:Oh:57:ARG:HG3	2:Oh:113:TYR:CZ	2.49	0.45
2:Sh:57:ARG:HG3	2:Sh:113:TYR:CZ	2.49	0.45
2:Wh:55:TRP:NE1	2:Wh:100:LEU:HB2	2.31	0.45
2:2h:88:THR:CG2	2:2h:101:GLN:HE21	2.23	0.45
2:6h:55:TRP:NE1	2:6h:100:LEU:HB2	2.31	0.45
2:ah:48:PHE:O	2:ah:91:ARG:NH2	2.48	0.45
2:ah:122:PHE:CE2	2:ah:133:TYR:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bh:122:PHE:CE2	2:bh:133:TYR:HA	2.51	0.45
2:fh:57:ARG:HG3	2:fh:113:TYR:CZ	2.49	0.45
2:jh:31:VAL:HG11	2:jh:105:LEU:HD22	1.97	0.45
2:jh:57:ARG:HG3	2:jh:113:TYR:CZ	2.49	0.45
2:lh:57:ARG:HG3	2:lh:113:TYR:CZ	2.49	0.45
2:nh:72:TYR:CA	2:nh:91:ARG:NH1	2.73	0.45
2:ph:55:TRP:NE1	2:ph:100:LEU:HB2	2.31	0.45
2:7h:88:THR:CG2	2:7h:101:GLN:HE21	2.23	0.45
2:7h:145:THR:O	2:7h:145:THR:OG1	2.26	0.45
3:Wl:27:PRO:O	3:Wl:124:THR:OG1	2.22	0.45
3:Xl:104:GLU:HA	3:Xl:126:VAL:HB	1.99	0.45
3:jl:104:GLU:HA	3:jl:126:VAL:HB	1.99	0.45
3:jl:115:SER:HA	3:jl:116:PRO:HD2	1.64	0.45
3:ql:104:GLU:HA	3:ql:126:VAL:HB	1.99	0.45
3:sl:69:ILE:HD13	3:sl:75:ARG:HG2	1.99	0.45
3:zl:69:ILE:HD13	3:zl:75:ARG:HG2	1.99	0.45
1:E:304:TRP:C	1:E:423:SER:HG	2.25	0.44
1:E:448:THR:HG23	1:K:501:SER:HB2	1.99	0.44
1:H:432:ARG:HA	1:H:434:MET:HE3	1.99	0.44
1:R:429:SER:HA	1:R:567:THR:HB	1.97	0.44
1:R:432:ARG:HA	1:R:434:MET:HE3	1.99	0.44
1:X:304:TRP:CD2	1:X:689:GLU:HA	2.52	0.44
1:Y:407:ASN:HD21	1:a:224:SER:H	1.65	0.44
1:Y:448:THR:C	1:Y:459:ARG:O	2.60	0.44
1:2:224:SER:H	1:g:407:ASN:HD21	1.65	0.44
1:b:304:TRP:CD2	1:b:689:GLU:HA	2.52	0.44
1:d:444:TYR:OH	1:d:469:ASP:OD2	2.21	0.44
1:g:448:THR:C	1:g:459:ARG:O	2.60	0.44
1:i:304:TRP:CD2	1:i:689:GLU:HA	2.52	0.44
1:k:432:ARG:HA	1:k:434:MET:HE3	1.99	0.44
1:l:448:THR:C	1:l:459:ARG:O	2.60	0.44
1:q:448:THR:HG23	1:x:501:SER:HB2	1.99	0.44
1:r:448:THR:C	1:r:459:ARG:O	2.60	0.44
1:s:501:SER:HB2	1:w:448:THR:HG23	1.99	0.44
2:Ch:131:TYR:C	2:Ch:133:TYR:H	2.24	0.44
2:Hh:58:GLN:HG3	2:Hh:64:LEU:HD12	1.98	0.44
2:Ph:145:THR:O	2:Ph:145:THR:OG1	2.26	0.44
2:Vh:72:TYR:CA	2:Vh:91:ARG:NH1	2.73	0.44
2:1h:31:VAL:HG11	2:1h:105:LEU:HD22	1.97	0.44
2:1h:55:TRP:NE1	2:1h:100:LEU:HB2	2.31	0.44
2:ah:131:TYR:C	2:ah:133:TYR:H	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dh:129:ALA:HA	2:dh:130:PRO:HD3	1.80	0.44
2:eh:101:GLN:HE21	2:eh:101:GLN:HB2	1.62	0.44
2:ih:101:GLN:HE21	2:ih:101:GLN:HB2	1.62	0.44
2:jh:72:TYR:CA	2:jh:91:ARG:NH1	2.73	0.44
2:kh:55:TRP:NE1	2:kh:100:LEU:HB2	2.31	0.44
2:mh:57:ARG:HG3	2:mh:113:TYR:CZ	2.49	0.44
2:wh:31:VAL:HG11	2:wh:105:LEU:HD22	1.97	0.44
2:xh:131:TYR:C	2:xh:133:TYR:H	2.24	0.44
3:Fl:100:GLN:NE2	3:Fl:100:GLN:CA	2.73	0.44
3:Gl:115:SER:HA	3:Gl:116:PRO:HD2	1.65	0.44
3:Sl:115:SER:HA	3:Sl:116:PRO:HD2	1.64	0.44
3:Tl:104:GLU:HA	3:Tl:126:VAL:HB	1.99	0.44
3:Vl:104:GLU:HA	3:Vl:126:VAL:HB	1.99	0.44
3:bl:115:SER:HA	3:bl:116:PRO:HD2	1.64	0.44
3:hl:69:ILE:HD13	3:hl:75:ARG:HG2	1.99	0.44
3:il:104:GLU:HA	3:il:126:VAL:HB	1.99	0.44
3:ol:115:SER:HA	3:ol:116:PRO:HD2	1.65	0.44
3:rl:125:LYS:N	3:rl:125:LYS:CD	2.73	0.44
3:vl:115:SER:HA	3:vl:116:PRO:HD2	1.64	0.44
1:E:224:SER:H	1:4:407:ASN:HD21	1.65	0.44
1:L:395:LEU:HD23	1:L:647:LEU:HD23	2.00	0.44
1:P:565:ILE:HD12	1:P:569:ASN:HD22	1.81	0.44
1:Q:432:ARG:HA	1:Q:434:MET:HE3	1.99	0.44
1:Q:448:THR:C	1:Q:459:ARG:O	2.60	0.44
1:T:304:TRP:CD2	1:T:689:GLU:HA	2.53	0.44
1:4:395:LEU:HD23	1:4:647:LEU:HD23	2.00	0.44
1:4:565:ILE:HD12	1:4:569:ASN:HD22	1.81	0.44
1:c:432:ARG:HA	1:c:434:MET:HE3	1.99	0.44
1:f:432:ARG:HA	1:f:434:MET:HE3	1.99	0.44
1:g:304:TRP:CD2	1:g:689:GLU:HA	2.53	0.44
1:h:395:LEU:HD23	1:h:647:LEU:HD23	2.00	0.44
1:q:304:TRP:C	1:q:423:SER:HG	2.25	0.44
1:r:432:ARG:HA	1:r:434:MET:HE3	1.99	0.44
1:v:432:ARG:HA	1:v:434:MET:HE3	1.99	0.44
1:v:565:ILE:HD12	1:v:569:ASN:HD22	1.81	0.44
1:y:304:TRP:C	1:y:423:SER:HG	2.25	0.44
1:y:432:ARG:HA	1:y:434:MET:HE3	1.99	0.44
1:7:448:THR:C	1:7:459:ARG:O	2.60	0.44
2:Ah:64:LEU:HD21	3:Al:65:PRO:HG3	1.99	0.44
2:Bh:131:TYR:C	2:Bh:133:TYR:H	2.24	0.44
2:Fh:53:MET:HB3	2:Fh:98:LEU:CD2	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Hh:39:LEU:HG	2:Hh:102:MET:HE3	2.00	0.44
2:Kh:131:TYR:C	2:Kh:133:TYR:H	2.24	0.44
2:Rh:88:THR:CG2	2:Rh:101:GLN:HE21	2.23	0.44
2:Sh:58:GLN:HG3	2:Sh:64:LEU:HD12	1.98	0.44
2:Vh:31:VAL:HG11	2:Vh:105:LEU:HD22	1.97	0.44
2:Wh:129:ALA:HA	2:Wh:130:PRO:HD3	1.80	0.44
2:Yh:88:THR:CG2	2:Yh:101:GLN:HE21	2.23	0.44
2:lh:129:ALA:HA	2:lh:130:PRO:HD3	1.80	0.44
2:uh:58:GLN:HG3	2:uh:64:LEU:HD12	1.98	0.44
2:yh:39:LEU:HG	2:yh:102:MET:HE3	2.00	0.44
2:yh:58:GLN:HG3	2:yh:64:LEU:HD12	1.98	0.44
3:Bl:69:ILE:HD13	3:Bl:75:ARG:HG2	1.99	0.44
3:Fl:69:ILE:HD13	3:Fl:75:ARG:HG2	2.00	0.44
3:Pl:69:ILE:HD13	3:Pl:75:ARG:HG2	1.99	0.44
3:1l:69:ILE:HD13	3:1l:75:ARG:HG2	1.99	0.44
3:4l:31:SER:CB	3:4l:127:THR:OG1	2.60	0.44
3:4l:69:ILE:HD13	3:4l:75:ARG:HG2	1.99	0.44
3:5l:79:VAL:HA	3:5l:80:PRO:HD3	1.81	0.44
3:cl:99:LEU:HD12	3:cl:99:LEU:HA	1.78	0.44
3:dl:69:ILE:HD13	3:dl:75:ARG:HG2	2.00	0.44
3:gl:104:GLU:HA	3:gl:126:VAL:HB	1.99	0.44
3:hl:31:SER:CB	3:hl:127:THR:OG1	2.60	0.44
3:ql:69:ILE:HD13	3:ql:75:ARG:HG2	1.99	0.44
3:ql:100:GLN:HE21	3:ql:100:GLN:CA	2.14	0.44
3:sl:31:SER:HB3	3:sl:127:THR:HG1	1.77	0.44
3:sl:100:GLN:NE2	3:sl:100:GLN:CA	2.73	0.44
3:ul:31:SER:HB3	3:ul:127:THR:HG1	1.79	0.44
3:ul:69:ILE:HD13	3:ul:75:ARG:HG2	1.99	0.44
3:yl:104:GLU:HA	3:yl:126:VAL:HB	1.99	0.44
1:A:404:ARG:H	1:A:407:ASN:ND2	2.12	0.44
1:D:224:SER:H	1:m:407:ASN:HD21	1.66	0.44
1:H:448:THR:C	1:H:459:ARG:O	2.60	0.44
1:I:448:THR:HG23	1:v:501:SER:HB2	2.00	0.44
1:J:432:ARG:HA	1:J:434:MET:HE3	1.99	0.44
1:J:501:SER:HB2	1:o:448:THR:HG23	2.00	0.44
1:M:404:ARG:H	1:M:407:ASN:ND2	2.12	0.44
1:M:407:ASN:HD21	1:l:224:SER:H	1.65	0.44
1:N:395:LEU:HD23	1:N:647:LEU:HD23	2.00	0.44
1:N:432:ARG:HA	1:N:434:MET:HE3	1.99	0.44
1:N:444:TYR:OH	1:N:469:ASP:OD2	2.21	0.44
1:Q:407:ASN:HD21	1:h:224:SER:H	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:448:THR:HG23	1:l:501:SER:HB2	2.00	0.44
1:R:489:SER:N	1:R:495:ASN:HD21	1.92	0.44
1:S:501:SER:HB2	1:r:448:THR:HG23	2.00	0.44
1:U:304:TRP:CD2	1:U:689:GLU:HA	2.53	0.44
1:V:304:TRP:CD2	1:V:689:GLU:HA	2.53	0.44
1:V:395:LEU:HD23	1:V:647:LEU:HD23	2.00	0.44
1:W:304:TRP:CD2	1:W:689:GLU:HA	2.53	0.44
1:X:395:LEU:HD23	1:X:647:LEU:HD23	2.00	0.44
1:X:404:ARG:H	1:X:407:ASN:ND2	2.12	0.44
1:Z:448:THR:C	1:Z:459:ARG:O	2.60	0.44
1:2:304:TRP:CD2	1:2:689:GLU:HA	2.53	0.44
1:2:407:ASN:HD21	1:8:224:SER:H	1.65	0.44
1:3:448:THR:HG23	1:4:501:SER:HB2	1.99	0.44
1:4:224:SER:H	1:r:407:ASN:HD21	1.65	0.44
1:4:237:ASP:OD1	1:4:237:ASP:N	2.33	0.44
1:4:304:TRP:CD2	1:4:689:GLU:HA	2.53	0.44
1:6:304:TRP:CD2	1:6:689:GLU:HA	2.53	0.44
1:d:304:TRP:CD2	1:d:689:GLU:HA	2.53	0.44
1:d:432:ARG:HA	1:d:434:MET:HE3	1.99	0.44
1:e:304:TRP:CD2	1:e:689:GLU:HA	2.53	0.44
1:h:407:ASN:HD21	1:q:224:SER:H	1.65	0.44
1:i:404:ARG:H	1:i:407:ASN:ND2	2.12	0.44
1:j:395:LEU:HD23	1:j:647:LEU:HD23	2.00	0.44
1:k:429:SER:HA	1:k:567:THR:HB	1.97	0.44
1:k:489:SER:N	1:k:495:ASN:HD21	1.92	0.44
1:m:304:TRP:CD2	1:m:689:GLU:HA	2.53	0.44
1:n:304:TRP:CD2	1:n:689:GLU:HA	2.53	0.44
1:t:395:LEU:HD23	1:t:647:LEU:HD23	2.00	0.44
1:8:304:TRP:CD2	1:8:689:GLU:HA	2.53	0.44
2:Ah:57:ARG:HG3	2:Ah:113:TYR:CZ	2.49	0.44
2:Ah:88:THR:CB	2:Ah:101:GLN:NE2	2.78	0.44
2:Fh:131:TYR:C	2:Fh:133:TYR:H	2.24	0.44
2:Hh:88:THR:CG2	2:Hh:101:GLN:HE21	2.23	0.44
2:Nh:88:THR:CB	2:Nh:101:GLN:NE2	2.78	0.44
2:Sh:129:ALA:HA	2:Sh:130:PRO:HD3	1.80	0.44
2:5h:81:ASP:HA	2:5h:84:LYS:CE	2.37	0.44
2:6h:57:ARG:HG3	2:6h:113:TYR:CZ	2.49	0.44
2:ch:88:THR:CB	2:ch:101:GLN:NE2	2.78	0.44
2:rh:52:GLY:O	2:rh:118:ALA:N	2.25	0.44
2:sh:131:TYR:C	2:sh:133:TYR:H	2.24	0.44
3:El:69:ILE:HD13	3:El:75:ARG:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ql:59:GLN:C	3:Ql:105:ALA:HB1	2.43	0.44
3:al:69:ILE:HD13	3:al:75:ARG:HG2	2.00	0.44
3:pl:59:GLN:C	3:pl:105:ALA:HB1	2.43	0.44
3:rl:100:GLN:HE21	3:rl:100:GLN:CA	2.14	0.44
3:sl:33:THR:CG2	3:sl:34:PRO:HD2	2.31	0.44
3:tl:69:ILE:HD13	3:tl:75:ARG:HG2	1.99	0.44
3:wl:69:ILE:HD13	3:wl:75:ARG:HG2	1.99	0.44
3:zl:59:GLN:C	3:zl:105:ALA:HB1	2.43	0.44
1:D:304:TRP:CD2	1:D:689:GLU:HA	2.53	0.44
1:F:302:ASN:OD1	1:Z:302:ASN:OD1	2.35	0.44
1:G:304:TRP:CD2	1:G:689:GLU:HA	2.53	0.44
1:L:501:SER:HB2	1:g:448:THR:HG23	2.00	0.44
1:P:304:TRP:CD2	1:P:689:GLU:HA	2.53	0.44
1:P:432:ARG:HA	1:P:434:MET:HE3	1.99	0.44
1:P:488:VAL:HG12	1:W:460:LEU:HD21	2.00	0.44
1:S:224:SER:H	1:b:407:ASN:HD21	1.65	0.44
1:U:395:LEU:HD23	1:U:647:LEU:HD23	2.00	0.44
1:U:407:ASN:HD21	1:e:224:SER:H	1.66	0.44
1:V:448:THR:C	1:V:459:ARG:O	2.60	0.44
1:Y:304:TRP:CD2	1:Y:689:GLU:HA	2.53	0.44
1:Z:304:TRP:CD2	1:Z:689:GLU:HA	2.53	0.44
1:1:448:THR:C	1:1:459:ARG:O	2.60	0.44
1:2:395:LEU:HD23	1:2:647:LEU:HD23	2.00	0.44
1:6:395:LEU:HD23	1:6:647:LEU:HD23	2.00	0.44
1:c:395:LEU:HD23	1:c:647:LEU:HD23	2.00	0.44
1:h:304:TRP:CD2	1:h:689:GLU:HA	2.53	0.44
1:i:395:LEU:HD23	1:i:647:LEU:HD23	2.00	0.44
1:j:304:TRP:CD2	1:j:689:GLU:HA	2.53	0.44
1:j:448:THR:C	1:j:459:ARG:O	2.60	0.44
1:m:395:LEU:HD23	1:m:647:LEU:HD23	2.00	0.44
1:q:448:THR:C	1:q:459:ARG:O	2.60	0.44
1:z:304:TRP:CD2	1:z:689:GLU:HA	2.53	0.44
1:7:304:TRP:CD2	1:7:689:GLU:HA	2.53	0.44
1:8:448:THR:C	1:8:459:ARG:O	2.60	0.44
2:Ah:39:LEU:HG	2:Ah:102:MET:HE3	2.00	0.44
2:Gh:72:TYR:CA	2:Gh:91:ARG:NH1	2.73	0.44
2:Jh:57:ARG:HG3	2:Jh:113:TYR:CZ	2.49	0.44
2:Kh:88:THR:CB	2:Kh:101:GLN:HE21	2.31	0.44
2:Lh:88:THR:CB	2:Lh:101:GLN:NE2	2.78	0.44
2:Ph:88:THR:CB	2:Ph:101:GLN:HE21	2.31	0.44
2:Uh:57:ARG:HG3	2:Uh:113:TYR:CZ	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zh:39:LEU:HG	2:Zh:102:MET:HE3	2.00	0.44
2:1h:39:LEU:HG	2:1h:102:MET:HE3	2.00	0.44
2:2h:57:ARG:HG3	2:2h:113:TYR:CZ	2.49	0.44
2:3h:131:TYR:C	2:3h:133:TYR:H	2.24	0.44
2:5h:131:TYR:C	2:5h:133:TYR:H	2.24	0.44
2:lh:58:GLN:HG3	2:lh:64:LEU:HD12	1.98	0.44
2:mh:129:ALA:HA	2:mh:130:PRO:HD3	1.80	0.44
2:ph:88:THR:CB	2:ph:101:GLN:NE2	2.78	0.44
2:rh:101:GLN:HE21	2:rh:101:GLN:HB2	1.62	0.44
2:th:72:TYR:CA	2:th:91:ARG:NH1	2.73	0.44
2:xh:88:THR:CB	2:xh:101:GLN:HE21	2.31	0.44
2:yh:81:ASP:HA	2:yh:84:LYS:CE	2.37	0.44
2:8h:39:LEU:HG	2:8h:102:MET:HE3	2.00	0.44
3:Al:31:SER:CB	3:Al:127:THR:OG1	2.60	0.44
3:Al:59:GLN:C	3:Al:105:ALA:HB1	2.43	0.44
3:Cl:69:ILE:HD13	3:Cl:75:ARG:HG2	2.00	0.44
3:Hl:104:GLU:HA	3:Hl:126:VAL:HB	1.99	0.44
3:Vl:99:LEU:HD12	3:Vl:99:LEU:HA	1.78	0.44
3:Vl:106:ASP:OD1	3:Vl:107:TYR:N	2.51	0.44
3:Wl:59:GLN:C	3:Wl:105:ALA:HB1	2.43	0.44
3:Yl:115:SER:HA	3:Yl:116:PRO:HD2	1.64	0.44
3:3l:59:GLN:C	3:3l:105:ALA:HB1	2.43	0.44
3:5l:59:GLN:C	3:5l:105:ALA:HB1	2.43	0.44
3:el:106:ASP:OD1	3:el:107:TYR:N	2.51	0.44
3:jl:31:SER:HB3	3:jl:127:THR:HG1	1.80	0.44
3:rl:59:GLN:C	3:rl:105:ALA:HB1	2.43	0.44
3:vl:69:ILE:HD13	3:vl:75:ARG:HG2	1.99	0.44
3:7l:33:THR:CG2	3:7l:34:PRO:HD2	2.30	0.44
3:8l:115:SER:HA	3:8l:116:PRO:HD2	1.64	0.44
1:B:501:SER:HB2	1:V:448:THR:HG23	2.00	0.44
1:G:407:ASN:HD21	1:U:224:SER:H	1.65	0.44
1:L:584:GLN:HE21	1:L:584:GLN:HB3	1.68	0.44
1:R:304:TRP:CD2	1:R:689:GLU:HA	2.52	0.44
1:S:304:TRP:CD2	1:S:689:GLU:HA	2.53	0.44
1:T:448:THR:HG23	1:t:501:SER:HB2	2.00	0.44
1:W:395:LEU:HD23	1:W:647:LEU:HD23	2.00	0.44
1:2:501:SER:HB2	1:s:448:THR:HG23	1.99	0.44
1:a:448:THR:HG23	1:k:501:SER:HB2	2.00	0.44
1:b:404:ARG:H	1:b:407:ASN:ND2	2.12	0.44
1:d:488:VAL:HG12	1:z:460:LEU:HD21	2.00	0.44
1:e:448:THR:HG23	1:y:501:SER:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:304:TRP:CD2	1:f:689:GLU:HA	2.53	0.44
1:h:565:ILE:HD12	1:h:569:ASN:HD22	1.81	0.44
1:l:304:TRP:CD2	1:l:689:GLU:HA	2.53	0.44
1:m:304:TRP:C	1:m:423:SER:HG	2.25	0.44
1:r:304:TRP:CD2	1:r:689:GLU:HA	2.53	0.44
1:s:302:ASN:OD1	1:8:302:ASN:OD1	2.35	0.44
1:w:237:ASP:OD1	1:w:237:ASP:N	2.34	0.44
1:w:519:PRO:HG2	1:w:633:LEU:O	2.16	0.44
1:y:448:THR:C	1:y:459:ARG:O	2.60	0.44
1:z:395:LEU:HD23	1:z:647:LEU:HD23	2.00	0.44
2:Bh:58:GLN:HG3	2:Bh:64:LEU:HD12	1.98	0.44
2:Gh:39:LEU:HG	2:Gh:102:MET:HE3	2.00	0.44
2:Gh:88:THR:CB	2:Gh:101:GLN:HE21	2.31	0.44
2:Ih:88:THR:CB	2:Ih:101:GLN:HE21	2.31	0.44
2:Yh:39:LEU:HG	2:Yh:102:MET:HE3	2.00	0.44
2:6h:72:TYR:CA	2:6h:91:ARG:NH1	2.73	0.44
2:6h:88:THR:CB	2:6h:101:GLN:NE2	2.78	0.44
2:dh:88:THR:CB	2:dh:101:GLN:HE21	2.31	0.44
2:eh:39:LEU:HG	2:eh:102:MET:HE3	2.00	0.44
2:mh:131:TYR:C	2:mh:133:TYR:H	2.24	0.44
2:nh:88:THR:CB	2:nh:101:GLN:HE21	2.31	0.44
2:oh:88:THR:CB	2:oh:101:GLN:HE21	2.31	0.44
2:ph:39:LEU:HG	2:ph:102:MET:HE3	2.00	0.44
2:sh:58:GLN:HG3	2:sh:64:LEU:HD12	1.98	0.44
2:th:88:THR:CG2	2:th:101:GLN:HE21	2.23	0.44
2:vh:57:ARG:HG3	2:vh:113:TYR:CZ	2.49	0.44
2:wh:39:LEU:HG	2:wh:102:MET:HE3	2.00	0.44
3:Al:69:ILE:HD13	3:Al:75:ARG:HG2	1.99	0.44
3:Al:115:SER:HA	3:Al:116:PRO:HD2	1.64	0.44
3:Dl:69:ILE:HD13	3:Dl:75:ARG:HG2	1.99	0.44
3:Dl:106:ASP:OD1	3:Dl:107:TYR:N	2.51	0.44
3:Il:115:SER:HA	3:Il:116:PRO:HD2	1.65	0.44
3:Jl:69:ILE:HD13	3:Jl:75:ARG:HG2	1.99	0.44
3:Jl:115:SER:HA	3:Jl:116:PRO:HD2	1.64	0.44
3:Ll:69:ILE:HD13	3:Ll:75:ARG:HG2	2.00	0.44
3:Ll:104:GLU:HA	3:Ll:126:VAL:HB	1.99	0.44
3:Nl:31:SER:CB	3:Nl:127:THR:OG1	2.60	0.44
3:Ql:125:LYS:N	3:Ql:125:LYS:CD	2.73	0.44
3:Tl:106:ASP:OD1	3:Tl:107:TYR:N	2.51	0.44
3:Ul:104:GLU:HA	3:Ul:126:VAL:HB	1.99	0.44
3:Ul:106:ASP:OD1	3:Ul:107:TYR:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4l:104:GLU:HA	3:4l:126:VAL:HB	1.99	0.44
3:4l:106:ASP:OD1	3:4l:107:TYR:N	2.51	0.44
3:el:69:ILE:HD13	3:el:75:ARG:HG2	1.99	0.44
3:gl:106:ASP:OD1	3:gl:107:TYR:N	2.51	0.44
3:hl:104:GLU:HA	3:hl:126:VAL:HB	1.99	0.44
3:hl:106:ASP:OD1	3:hl:107:TYR:N	2.51	0.44
3:jl:69:ILE:HD13	3:jl:75:ARG:HG2	1.99	0.44
3:jl:106:ASP:OD1	3:jl:107:TYR:N	2.51	0.44
3:kl:69:ILE:HD13	3:kl:75:ARG:HG2	1.99	0.44
3:ol:31:SER:CB	3:ol:127:THR:OG1	2.60	0.44
3:pl:69:ILE:HD13	3:pl:75:ARG:HG2	1.99	0.44
3:pl:106:ASP:OD1	3:pl:107:TYR:N	2.51	0.44
1:C:448:THR:C	1:C:459:ARG:O	2.60	0.44
1:C:448:THR:HG23	1:R:501:SER:HB2	2.00	0.44
1:D:448:THR:HG23	1:H:501:SER:HB2	2.00	0.44
1:G:696:PRO:HD3	1:6:293:PRO:HB2	1.99	0.44
1:M:584:GLN:HE21	1:M:584:GLN:HB3	1.68	0.44
1:O:304:TRP:CD2	1:O:689:GLU:HA	2.53	0.44
1:Q:304:TRP:CD2	1:Q:689:GLU:HA	2.53	0.44
1:1:395:LEU:HD23	1:1:647:LEU:HD23	2.00	0.44
1:1:501:SER:HB2	1:6:448:THR:HG23	1.98	0.44
1:1:519:PRO:HG2	1:1:633:LEU:O	2.16	0.44
1:3:304:TRP:CD2	1:3:689:GLU:HA	2.52	0.44
1:a:448:THR:C	1:a:459:ARG:O	2.60	0.44
1:j:448:THR:HG23	1:u:501:SER:HB2	2.00	0.44
1:k:304:TRP:CD2	1:k:689:GLU:HA	2.52	0.44
1:p:404:ARG:H	1:p:407:ASN:ND2	2.12	0.44
1:q:395:LEU:HD23	1:q:647:LEU:HD23	2.00	0.44
1:w:395:LEU:HD23	1:w:647:LEU:HD23	2.00	0.44
2:Ch:39:LEU:HG	2:Ch:102:MET:HE3	2.00	0.44
2:Dh:39:LEU:HG	2:Dh:102:MET:HE3	2.00	0.44
2:Fh:39:LEU:HG	2:Fh:102:MET:HE3	2.00	0.44
2:Hh:101:GLN:HE21	2:Hh:101:GLN:HB2	1.62	0.44
2:Hh:131:TYR:C	2:Hh:133:TYR:H	2.24	0.44
2:Lh:39:LEU:CD1	2:Lh:102:MET:CE	2.96	0.44
2:Lh:72:TYR:CA	2:Lh:91:ARG:NH1	2.73	0.44
2:Ph:39:LEU:CD1	2:Ph:102:MET:CE	2.96	0.44
2:Uh:131:TYR:C	2:Uh:133:TYR:H	2.24	0.44
2:Vh:39:LEU:HG	2:Vh:102:MET:HE3	2.00	0.44
2:Yh:129:ALA:HA	2:Yh:130:PRO:HD3	1.80	0.44
2:1h:88:THR:CB	2:1h:101:GLN:HE21	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ah:39:LEU:HG	2:ah:102:MET:HE3	2.00	0.44
2:jh:39:LEU:HG	2:jh:102:MET:HE3	2.00	0.44
2:kh:48:PHE:O	2:kh:91:ARG:NH2	2.48	0.44
2:kh:57:ARG:HG3	2:kh:113:TYR:CZ	2.49	0.44
2:nh:39:LEU:HG	2:nh:102:MET:HE3	2.00	0.44
2:oh:48:PHE:O	2:oh:91:ARG:NH2	2.48	0.44
2:th:39:LEU:CD1	2:th:102:MET:CE	2.96	0.44
2:wh:88:THR:CB	2:wh:101:GLN:HE21	2.31	0.44
2:7h:39:LEU:HG	2:7h:102:MET:HE3	2.00	0.44
2:7h:72:TYR:CA	2:7h:91:ARG:NH1	2.73	0.44
3:Gl:69:ILE:HD13	3:Gl:75:ARG:HG2	1.99	0.44
3:Il:31:SER:CB	3:Il:127:THR:OG1	2.60	0.44
3:Il:106:ASP:OD1	3:Il:107:TYR:N	2.51	0.44
3:Jl:107:TYR:CE2	3:Jl:126:VAL:HG22	2.46	0.44
3:Kl:115:SER:HA	3:Kl:116:PRO:HD2	1.64	0.44
3:Ol:69:ILE:HD13	3:Ol:75:ARG:HG2	1.99	0.44
3:Rl:60:LEU:HD23	3:Rl:105:ALA:CB	2.34	0.44
3:Rl:69:ILE:HD13	3:Rl:75:ARG:HG2	1.99	0.44
3:Rl:104:GLU:HA	3:Rl:126:VAL:HB	1.99	0.44
3:Yl:106:ASP:OD1	3:Yl:107:TYR:N	2.51	0.44
3:3l:106:ASP:OD1	3:3l:107:TYR:N	2.51	0.44
3:5l:106:ASP:OD1	3:5l:107:TYR:N	2.51	0.44
3:fl:69:ILE:HD13	3:fl:75:ARG:HG2	1.99	0.44
3:kl:104:GLU:HA	3:kl:126:VAL:HB	1.99	0.44
3:ll:99:LEU:HD12	3:ll:99:LEU:HA	1.78	0.44
3:ml:104:GLU:HA	3:ml:126:VAL:HB	1.99	0.44
3:ml:106:ASP:OD1	3:ml:107:TYR:N	2.51	0.44
3:ol:106:ASP:OD1	3:ol:107:TYR:N	2.51	0.44
3:pl:31:SER:CB	3:pl:127:THR:OG1	2.60	0.44
3:tl:104:GLU:HA	3:tl:126:VAL:HB	1.99	0.44
3:xl:59:GLN:C	3:xl:105:ALA:HB1	2.43	0.44
3:7l:106:ASP:OD1	3:7l:107:TYR:N	2.51	0.44
1:B:448:THR:HG23	1:O:501:SER:HB2	2.00	0.44
1:C:304:TRP:CD2	1:C:689:GLU:HA	2.53	0.44
1:D:395:LEU:HD23	1:D:647:LEU:HD23	2.00	0.44
1:D:488:VAL:HG12	1:7:460:LEU:HD21	1.99	0.44
1:E:304:TRP:CD2	1:E:689:GLU:HA	2.53	0.44
1:E:395:LEU:HD23	1:E:647:LEU:HD23	2.00	0.44
1:E:448:THR:C	1:E:459:ARG:O	2.60	0.44
1:H:448:THR:HG23	1:7:501:SER:HB2	2.00	0.44
1:K:395:LEU:HD23	1:K:647:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:501:SER:HB2	1:b:448:THR:HG23	2.00	0.44
1:Y:501:SER:HB2	1:y:448:THR:HG23	2.00	0.44
1:5:448:THR:HG23	1:h:501:SER:HB2	2.00	0.44
1:a:304:TRP:CD2	1:a:689:GLU:HA	2.53	0.44
1:b:224:SER:H	1:p:407:ASN:HD21	1.66	0.44
1:k:448:THR:C	1:k:459:ARG:O	2.60	0.44
1:m:224:SER:H	1:n:407:ASN:HD21	1.65	0.44
1:q:304:TRP:CD2	1:q:689:GLU:HA	2.53	0.44
1:w:448:THR:C	1:w:459:ARG:O	2.60	0.44
1:x:224:SER:H	1:y:407:ASN:HD21	1.65	0.44
1:x:395:LEU:HD23	1:x:647:LEU:HD23	2.00	0.44
2:Fh:58:GLN:HG3	2:Fh:64:LEU:HD12	1.98	0.44
2:Hh:100:LEU:HD21	2:Hh:113:TYR:CE1	2.53	0.44
2:Lh:39:LEU:HG	2:Lh:102:MET:HE3	2.00	0.44
2:Rh:39:LEU:CD1	2:Rh:102:MET:CE	2.96	0.44
2:Rh:48:PHE:O	2:Rh:91:ARG:NH2	2.48	0.44
2:Xh:39:LEU:CD1	2:Xh:102:MET:CE	2.96	0.44
2:Xh:101:GLN:HE21	2:Xh:101:GLN:HB2	1.62	0.44
2:2h:39:LEU:CD1	2:2h:102:MET:CE	2.96	0.44
2:2h:88:THR:CB	2:2h:101:GLN:NE2	2.78	0.44
2:6h:39:LEU:CD1	2:6h:102:MET:CE	2.96	0.44
2:dh:39:LEU:CD1	2:dh:102:MET:CE	2.96	0.44
2:ih:39:LEU:CD1	2:ih:102:MET:CE	2.96	0.44
2:qh:39:LEU:CD1	2:qh:102:MET:CE	2.96	0.44
2:sh:39:LEU:HG	2:sh:102:MET:HE3	2.00	0.44
2:th:39:LEU:HG	2:th:102:MET:HE3	2.00	0.44
2:th:88:THR:CB	2:th:101:GLN:NE2	2.78	0.44
2:yh:100:LEU:HD21	2:yh:113:TYR:CE1	2.53	0.44
3:Al:60:LEU:HD23	3:Al:105:ALA:CB	2.34	0.44
3:Al:106:ASP:OD1	3:Al:107:TYR:N	2.51	0.44
3:Dl:59:GLN:C	3:Dl:105:ALA:HB1	2.43	0.44
3:El:59:GLN:C	3:El:105:ALA:HB1	2.43	0.44
3:Hl:69:ILE:HD13	3:Hl:75:ARG:HG2	1.99	0.44
3:Kl:59:GLN:C	3:Kl:105:ALA:HB1	2.43	0.44
3:Nl:107:TYR:CD2	3:Nl:126:VAL:HG23	2.53	0.44
3:Tl:59:GLN:C	3:Tl:105:ALA:HB1	2.43	0.44
3:Vl:69:ILE:HD13	3:Vl:75:ARG:HG2	2.00	0.44
3:Wl:106:ASP:OD1	3:Wl:107:TYR:N	2.51	0.44
3:4l:59:GLN:C	3:4l:105:ALA:HB1	2.43	0.44
3:6l:59:GLN:C	3:6l:105:ALA:HB1	2.43	0.44
3:bl:31:SER:HB3	3:bl:127:THR:HG1	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:el:27:PRO:O	3:el:124:THR:OG1	2.22	0.44
3:el:59:GLN:C	3:el:105:ALA:HB1	2.43	0.44
3:gl:59:GLN:C	3:gl:105:ALA:HB1	2.43	0.44
3:hl:59:GLN:C	3:hl:105:ALA:HB1	2.43	0.44
3:tl:107:TYR:CD2	3:tl:126:VAL:HG23	2.53	0.44
3:ul:106:ASP:OD1	3:ul:107:TYR:N	2.51	0.44
3:xl:69:ILE:HD13	3:xl:75:ARG:HG2	1.99	0.44
3:yl:69:ILE:HD13	3:yl:75:ARG:HG2	1.99	0.44
3:yl:107:TYR:CD2	3:yl:126:VAL:HG23	2.53	0.44
3:zl:106:ASP:OD1	3:zl:107:TYR:N	2.51	0.44
3:7l:104:GLU:HA	3:7l:126:VAL:HB	1.99	0.44
1:E:302:ASN:OD1	1:3:302:ASN:OD1	2.36	0.44
1:G:224:SER:H	1:1:407:ASN:HD21	1.65	0.44
1:G:302:ASN:OD1	1:6:302:ASN:OD1	2.35	0.44
1:H:304:TRP:C	1:H:423:SER:HG	2.25	0.44
1:H:395:LEU:HD23	1:H:647:LEU:HD23	2.00	0.44
1:H:407:ASN:HD21	1:K:224:SER:H	1.65	0.44
1:M:448:THR:HG23	1:r:501:SER:HB2	2.00	0.44
1:N:224:SER:H	1:S:407:ASN:HD21	1.65	0.44
1:R:448:THR:HG23	1:Z:501:SER:HB2	2.00	0.44
1:T:432:ARG:HA	1:T:434:MET:HE3	1.99	0.44
1:W:448:THR:C	1:W:459:ARG:O	2.60	0.44
1:Y:460:LEU:HD21	1:e:488:VAL:HG12	1.99	0.44
1:2:432:ARG:HA	1:2:434:MET:HE3	1.99	0.44
1:4:448:THR:C	1:4:459:ARG:O	2.60	0.44
1:5:304:TRP:CD2	1:5:689:GLU:HA	2.53	0.44
1:6:432:ARG:HA	1:6:434:MET:HE3	1.99	0.44
1:c:224:SER:H	1:l:407:ASN:HD21	1.65	0.44
1:e:395:LEU:HD23	1:e:647:LEU:HD23	2.00	0.44
1:e:407:ASN:HD21	1:o:224:SER:H	1.65	0.44
1:f:501:SER:HB2	1:u:448:THR:HG23	2.00	0.44
1:g:432:ARG:HA	1:g:434:MET:HE3	1.99	0.44
1:h:448:THR:HG23	1:p:501:SER:HB2	1.99	0.44
1:i:302:ASN:OD1	1:w:302:ASN:OD1	2.36	0.44
1:k:434:MET:H	1:k:434:MET:HG2	1.69	0.44
1:o:584:GLN:HE21	1:o:584:GLN:HB3	1.68	0.44
1:s:432:ARG:HA	1:s:434:MET:HE3	1.99	0.44
1:z:448:THR:C	1:z:459:ARG:O	2.60	0.44
2:Eh:39:LEU:CD1	2:Eh:102:MET:CE	2.96	0.44
2:Hh:57:ARG:HG3	2:Hh:113:TYR:CZ	2.49	0.44
2:Ih:48:PHE:O	2:Ih:91:ARG:NH2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ih:129:ALA:HA	2:Ih:130:PRO:HD3	1.80	0.44
2:Kh:72:TYR:CA	2:Kh:91:ARG:NH1	2.73	0.44
2:Lh:100:LEU:HD21	2:Lh:113:TYR:CE1	2.53	0.44
2:Rh:88:THR:CB	2:Rh:101:GLN:NE2	2.78	0.44
2:Th:100:LEU:HD21	2:Th:113:TYR:CE1	2.53	0.44
2:Uh:88:THR:CB	2:Uh:101:GLN:HE21	2.31	0.44
2:Yh:39:LEU:CD1	2:Yh:102:MET:CE	2.96	0.44
2:Zh:39:LEU:CD1	2:Zh:102:MET:CE	2.96	0.44
2:ch:88:THR:CB	2:ch:101:GLN:HE21	2.31	0.44
2:eh:88:THR:CB	2:eh:101:GLN:HE21	2.31	0.44
2:gh:100:LEU:HD21	2:gh:113:TYR:CE1	2.53	0.44
2:kh:39:LEU:CD1	2:kh:102:MET:CE	2.96	0.44
2:kh:88:THR:CB	2:kh:101:GLN:NE2	2.78	0.44
2:th:100:LEU:HD21	2:th:113:TYR:CE1	2.53	0.44
2:uh:100:LEU:HD21	2:uh:113:TYR:CE1	2.53	0.44
2:yh:57:ARG:HG3	2:yh:113:TYR:CZ	2.49	0.44
2:yh:131:TYR:C	2:yh:133:TYR:H	2.24	0.44
2:7h:101:GLN:HE21	2:7h:101:GLN:HB2	1.62	0.44
2:8h:39:LEU:CD1	2:8h:102:MET:CE	2.96	0.44
3:Bl:106:ASP:OD1	3:Bl:107:TYR:N	2.51	0.44
3:Cl:106:ASP:OD1	3:Cl:107:TYR:N	2.51	0.44
3:Hl:107:TYR:CD2	3:Hl:126:VAL:HG23	2.53	0.44
3:Jl:59:GLN:C	3:Jl:105:ALA:HB1	2.43	0.44
3:Nl:99:LEU:HD12	3:Nl:99:LEU:HA	1.78	0.44
3:Pl:31:SER:CB	3:Pl:127:THR:OG1	2.60	0.44
3:Pl:106:ASP:OD1	3:Pl:107:TYR:N	2.51	0.44
3:Ql:69:ILE:HD13	3:Ql:75:ARG:HG2	1.99	0.44
3:Vl:115:SER:HA	3:Vl:116:PRO:HD2	1.65	0.44
3:Zl:104:GLU:HA	3:Zl:126:VAL:HB	1.99	0.44
3:2l:59:GLN:C	3:2l:105:ALA:HB1	2.43	0.44
3:cl:31:SER:CB	3:cl:127:THR:OG1	2.60	0.44
3:cl:107:TYR:CD2	3:cl:126:VAL:HG23	2.53	0.44
3:il:69:ILE:HD13	3:il:75:ARG:HG2	1.99	0.44
3:nl:69:ILE:HD13	3:nl:75:ARG:HG2	2.00	0.44
3:ol:107:TYR:CD2	3:ol:126:VAL:HG23	2.53	0.44
3:pl:60:LEU:HD23	3:pl:105:ALA:CB	2.34	0.44
3:pl:104:GLU:HA	3:pl:126:VAL:HB	1.99	0.44
3:ql:59:GLN:C	3:ql:105:ALA:HB1	2.43	0.44
3:8l:104:GLU:HA	3:8l:126:VAL:HB	1.99	0.44
1:D:407:ASN:HD21	1:I:224:SER:H	1.65	0.44
1:F:304:TRP:CD2	1:F:689:GLU:HA	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:432:ARG:HA	1:F:434:MET:HE3	1.99	0.44
1:J:304:TRP:C	1:J:423:SER:HG	2.26	0.44
1:L:407:ASN:HD21	1:z:224:SER:H	1.66	0.44
1:N:302:ASN:OD1	1:r:302:ASN:OD1	2.36	0.44
1:O:407:ASN:HD21	1:R:224:SER:H	1.65	0.44
1:Q:302:ASN:OD1	1:c:302:ASN:OD1	2.36	0.44
1:R:444:TYR:OH	1:R:469:ASP:OD2	2.21	0.44
1:R:448:THR:C	1:R:459:ARG:O	2.60	0.44
1:W:224:SER:H	1:t:407:ASN:HD21	1.66	0.44
1:X:302:ASN:OD1	1:1:302:ASN:OD1	2.36	0.44
1:5:302:ASN:OD1	1:q:302:ASN:OD1	2.36	0.44
1:5:395:LEU:HD23	1:5:647:LEU:HD23	2.00	0.44
1:b:432:ARG:HA	1:b:434:MET:HE3	1.99	0.44
1:h:448:THR:C	1:h:459:ARG:O	2.60	0.44
1:l:444:TYR:OH	1:l:469:ASP:OD2	2.21	0.44
1:m:444:TYR:OH	1:m:469:ASP:OD2	2.21	0.44
1:o:395:LEU:HD23	1:o:647:LEU:HD23	2.00	0.44
1:s:304:TRP:CD2	1:s:689:GLU:HA	2.53	0.44
1:v:304:TRP:C	1:v:423:SER:HG	2.26	0.44
1:y:395:LEU:HD23	1:y:647:LEU:HD23	2.00	0.44
2:Bh:100:LEU:HD21	2:Bh:113:TYR:CE1	2.53	0.44
2:Dh:88:THR:CB	2:Dh:101:GLN:HE21	2.31	0.44
2:Ih:100:LEU:HD21	2:Ih:113:TYR:CE1	2.53	0.44
2:Jh:88:THR:CB	2:Jh:101:GLN:HE21	2.31	0.44
2:Ph:57:ARG:HG3	2:Ph:113:TYR:CZ	2.49	0.44
2:Qh:100:LEU:HD21	2:Qh:113:TYR:CE1	2.53	0.44
2:Rh:57:ARG:HG3	2:Rh:113:TYR:CZ	2.49	0.44
2:Rh:64:LEU:HD21	3:Rl:65:PRO:CG	2.48	0.44
2:Rh:100:LEU:HD21	2:Rh:113:TYR:CE1	2.53	0.44
2:Wh:39:LEU:CD1	2:Wh:102:MET:CE	2.96	0.44
2:Xh:88:THR:CB	2:Xh:101:GLN:HE21	2.31	0.44
2:Yh:48:PHE:O	2:Yh:91:ARG:NH2	2.48	0.44
2:Yh:72:TYR:CA	2:Yh:91:ARG:NH1	2.73	0.44
2:2h:72:TYR:CA	2:2h:91:ARG:NH1	2.73	0.44
2:3h:39:LEU:CD1	2:3h:102:MET:CE	2.96	0.44
2:4h:128:LYS:N	2:4h:128:LYS:CD	2.73	0.44
2:5h:39:LEU:CD1	2:5h:102:MET:CE	2.96	0.44
2:ah:100:LEU:HD21	2:ah:113:TYR:CE1	2.53	0.44
2:bh:88:THR:CG2	2:bh:101:GLN:HE21	2.23	0.44
2:dh:57:ARG:HG3	2:dh:113:TYR:CZ	2.49	0.44
2:kh:64:LEU:HD21	3:kl:65:PRO:CG	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mh:88:THR:CB	2:mh:101:GLN:HE21	2.31	0.44
2:nh:100:LEU:HD21	2:nh:113:TYR:CE1	2.53	0.44
2:oh:100:LEU:HD21	2:oh:113:TYR:CE1	2.53	0.44
2:rh:100:LEU:HD21	2:rh:113:TYR:CE1	2.53	0.44
2:th:57:ARG:HG3	2:th:113:TYR:CZ	2.49	0.44
2:vh:88:THR:CB	2:vh:101:GLN:HE21	2.31	0.44
2:xh:72:TYR:CA	2:xh:91:ARG:NH1	2.73	0.44
2:zh:39:LEU:CD1	2:zh:102:MET:CE	2.96	0.44
2:7h:39:LEU:CD1	2:7h:102:MET:CE	2.96	0.44
2:7h:48:PHE:O	2:7h:91:ARG:NH2	2.48	0.44
3:Gl:27:PRO:O	3:Gl:124:THR:OG1	2.22	0.44
3:Gl:104:GLU:HA	3:Gl:126:VAL:HB	1.99	0.44
3:Il:104:GLU:HA	3:Il:126:VAL:HB	1.99	0.44
3:Il:107:TYR:CD2	3:Il:126:VAL:HG23	2.53	0.44
3:Kl:69:ILE:HD13	3:Kl:75:ARG:HG2	1.99	0.44
3:Kl:107:TYR:CD2	3:Kl:126:VAL:HG23	2.53	0.44
3:Ll:107:TYR:CD2	3:Ll:126:VAL:HG23	2.53	0.44
3:Ol:106:ASP:OD1	3:Ol:107:TYR:N	2.51	0.44
3:Pl:104:GLU:HA	3:Pl:126:VAL:HB	1.99	0.44
3:Sl:69:ILE:HD13	3:Sl:75:ARG:HG2	1.99	0.44
3:Sl:99:LEU:HD12	3:Sl:99:LEU:HA	1.78	0.44
3:Ul:115:SER:HA	3:Ul:116:PRO:HD2	1.64	0.44
3:Xl:69:ILE:HD13	3:Xl:75:ARG:HG2	1.99	0.44
3:Yl:104:GLU:HA	3:Yl:126:VAL:HB	1.99	0.44
3:al:106:ASP:OD1	3:al:107:TYR:N	2.51	0.44
3:dl:104:GLU:HA	3:dl:126:VAL:HB	1.99	0.44
3:dl:106:ASP:OD1	3:dl:107:TYR:N	2.51	0.44
3:fl:106:ASP:OD1	3:fl:107:TYR:N	2.51	0.44
3:ml:59:GLN:C	3:ml:105:ALA:HB1	2.43	0.44
3:ol:104:GLU:HA	3:ol:126:VAL:HB	1.99	0.44
3:rl:69:ILE:HD13	3:rl:75:ARG:HG2	2.00	0.44
3:rl:107:TYR:CD2	3:rl:126:VAL:HG23	2.53	0.44
3:vl:59:GLN:C	3:vl:105:ALA:HB1	2.43	0.44
3:vl:107:TYR:CE2	3:vl:126:VAL:HG22	2.46	0.44
3:xl:106:ASP:OD1	3:xl:107:TYR:N	2.51	0.44
3:xl:107:TYR:CD2	3:xl:126:VAL:HG23	2.53	0.44
3:8l:107:TYR:CD2	3:8l:126:VAL:HG23	2.53	0.44
1:H:224:SER:H	1:R:407:ASN:HD21	1.66	0.43
1:I:395:LEU:HD23	1:I:647:LEU:HD23	2.00	0.43
1:J:460:LEU:HD21	1:X:488:VAL:HG12	1.99	0.43
1:L:302:ASN:OD1	1:m:302:ASN:OD1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:304:TRP:CD2	1:L:689:GLU:HA	2.53	0.43
1:M:304:TRP:C	1:M:423:SER:HG	2.26	0.43
1:T:395:LEU:HD23	1:T:647:LEU:HD23	2.00	0.43
1:U:302:ASN:OD1	1:t:302:ASN:OD1	2.36	0.43
1:U:444:TYR:OH	1:U:469:ASP:OD2	2.21	0.43
1:W:434:MET:H	1:W:434:MET:HG2	1.69	0.43
1:1:237:ASP:OD1	1:1:237:ASP:N	2.34	0.43
1:3:395:LEU:HD23	1:3:647:LEU:HD23	2.00	0.43
1:b:302:ASN:OD1	1:h:302:ASN:OD1	2.36	0.43
1:f:407:ASN:HD21	1:k:224:SER:H	1.65	0.43
1:i:304:TRP:C	1:i:423:SER:HG	2.26	0.43
1:k:407:ASN:HD21	1:y:224:SER:H	1.66	0.43
1:k:448:THR:HG23	1:8:501:SER:HB2	2.00	0.43
1:t:304:TRP:CD2	1:t:689:GLU:HA	2.53	0.43
1:u:224:SER:H	1:8:407:ASN:HD21	1.65	0.43
2:Ah:88:THR:CB	2:Ah:101:GLN:HE21	2.31	0.43
2:Bh:121:GLN:HG3	2:Bh:135:TYR:CD2	2.54	0.43
2:Ch:100:LEU:HD21	2:Ch:113:TYR:CE1	2.53	0.43
2:Eh:48:PHE:O	2:Eh:91:ARG:NH2	2.48	0.43
2:Gh:100:LEU:HD21	2:Gh:113:TYR:CE1	2.53	0.43
2:Hh:21:VAL:HG11	2:Hh:139:VAL:HG21	2.00	0.43
2:Jh:39:LEU:CD1	2:Jh:102:MET:CE	2.96	0.43
2:Lh:77:LYS:HE2	2:Lh:77:LYS:HB2	1.92	0.43
2:Lh:88:THR:CG2	2:Lh:101:GLN:HE21	2.23	0.43
2:Nh:88:THR:CB	2:Nh:101:GLN:HE21	2.31	0.43
2:Oh:21:VAL:HG11	2:Oh:139:VAL:HG21	2.00	0.43
2:Oh:100:LEU:HD21	2:Oh:113:TYR:CE1	2.53	0.43
2:Qh:101:GLN:HE21	2:Qh:101:GLN:HB2	1.62	0.43
2:Rh:88:THR:CB	2:Rh:101:GLN:HE21	2.31	0.43
2:Sh:39:LEU:CD1	2:Sh:102:MET:CE	2.96	0.43
2:Sh:64:LEU:HD21	3:Sl:65:PRO:CG	2.48	0.43
2:Yh:64:LEU:HD21	3:Yl:65:PRO:CG	2.48	0.43
2:Yh:128:LYS:N	2:Yh:128:LYS:CD	2.73	0.43
2:Zh:145:THR:O	2:Zh:145:THR:OG1	2.26	0.43
2:3h:129:ALA:HA	2:3h:130:PRO:HD3	1.80	0.43
2:fh:21:VAL:HG11	2:fh:139:VAL:HG21	2.00	0.43
2:fh:100:LEU:HD21	2:fh:113:TYR:CE1	2.53	0.43
2:ih:88:THR:CB	2:ih:101:GLN:HE21	2.31	0.43
2:kh:88:THR:CB	2:kh:101:GLN:HE21	2.31	0.43
2:kh:100:LEU:HD21	2:kh:113:TYR:CE1	2.53	0.43
2:lh:64:LEU:HD21	3:ll:65:PRO:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ph:39:LEU:CD1	2:ph:102:MET:CE	2.96	0.43
2:vh:39:LEU:CD1	2:vh:102:MET:CE	2.96	0.43
2:yh:21:VAL:HG11	2:yh:139:VAL:HG21	2.00	0.43
2:yh:64:LEU:HD21	3:yl:65:PRO:CG	2.49	0.43
2:7h:64:LEU:HD21	3:7l:65:PRO:CG	2.48	0.43
3:Bl:59:GLN:C	3:Bl:105:ALA:HB1	2.43	0.43
3:Fl:106:ASP:OD1	3:Fl:107:TYR:N	2.51	0.43
3:Hl:59:GLN:C	3:Hl:105:ALA:HB1	2.43	0.43
3:Kl:106:ASP:OD1	3:Kl:107:TYR:N	2.51	0.43
3:Ml:31:SER:HB3	3:Ml:127:THR:HG1	1.83	0.43
3:Ml:59:GLN:C	3:Ml:105:ALA:HB1	2.43	0.43
3:Nl:106:ASP:OD1	3:Nl:107:TYR:N	2.51	0.43
3:Ql:107:TYR:CD2	3:Ql:126:VAL:HG23	2.53	0.43
3:Ul:59:GLN:C	3:Ul:105:ALA:HB1	2.43	0.43
3:Vl:100:GLN:NE2	3:Vl:100:GLN:CA	2.73	0.43
3:Yl:33:THR:CG2	3:Yl:34:PRO:HD2	2.30	0.43
3:Zl:69:ILE:HD13	3:Zl:75:ARG:HG2	1.99	0.43
3:Zl:107:TYR:CD2	3:Zl:126:VAL:HG23	2.53	0.43
3:al:59:GLN:C	3:al:105:ALA:HB1	2.43	0.43
3:cl:31:SER:HB3	3:cl:127:THR:HG1	1.80	0.43
3:cl:106:ASP:OD1	3:cl:107:TYR:N	2.51	0.43
3:el:99:LEU:HD12	3:el:99:LEU:HA	1.78	0.43
3:jl:100:GLN:NE2	3:jl:100:GLN:CA	2.73	0.43
3:ll:115:SER:HA	3:ll:116:PRO:HD2	1.64	0.43
3:nl:104:GLU:HA	3:nl:126:VAL:HB	1.99	0.43
3:ql:107:TYR:CD2	3:ql:126:VAL:HG23	2.53	0.43
3:rl:106:ASP:OD1	3:rl:107:TYR:N	2.51	0.43
3:sl:106:ASP:OD1	3:sl:107:TYR:N	2.51	0.43
3:tl:106:ASP:OD1	3:tl:107:TYR:N	2.51	0.43
3:yl:31:SER:CB	3:yl:127:THR:OG1	2.60	0.43
3:7l:107:TYR:CD2	3:7l:126:VAL:HG23	2.53	0.43
3:8l:31:SER:CB	3:8l:127:THR:OG1	2.60	0.43
3:8l:69:ILE:HD13	3:8l:75:ARG:HG2	1.99	0.43
1:B:224:SER:H	1:Z:407:ASN:HD21	1.65	0.43
1:B:304:TRP:CD2	1:B:689:GLU:HA	2.52	0.43
1:F:395:LEU:HD23	1:F:647:LEU:HD23	2.00	0.43
1:G:296:TRP:CZ2	1:G:728:THR:CG2	3.02	0.43
1:J:302:ASN:OD1	1:v:302:ASN:OD1	2.36	0.43
1:M:302:ASN:OD1	1:4:302:ASN:OD1	2.36	0.43
1:M:432:ARG:HA	1:M:434:MET:HE3	1.99	0.43
1:N:448:THR:HG23	1:z:501:SER:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:296:TRP:CZ2	1:W:728:THR:CG2	3.02	0.43
1:W:501:SER:HB2	1:c:448:THR:HG23	2.00	0.43
1:3:432:ARG:HA	1:3:434:MET:HE3	1.99	0.43
1:5:432:ARG:HA	1:5:434:MET:HE3	1.99	0.43
1:g:395:LEU:HD23	1:g:647:LEU:HD23	2.00	0.43
1:n:296:TRP:CZ2	1:n:728:THR:CG2	3.02	0.43
1:p:304:TRP:CD2	1:p:689:GLU:HA	2.53	0.43
1:u:304:TRP:CD2	1:u:689:GLU:HA	2.52	0.43
1:z:296:TRP:CZ2	1:z:728:THR:CG2	3.02	0.43
1:z:434:MET:H	1:z:434:MET:HG2	1.69	0.43
2:Ah:39:LEU:CD1	2:Ah:102:MET:CE	2.96	0.43
2:Bh:39:LEU:CD1	2:Bh:102:MET:CE	2.96	0.43
2:Ch:88:THR:CB	2:Ch:101:GLN:HE21	2.31	0.43
2:Hh:64:LEU:HD21	3:Hl:65:PRO:CG	2.49	0.43
2:Hh:88:THR:CB	2:Hh:101:GLN:HE21	2.31	0.43
2:Mh:88:THR:CB	2:Mh:101:GLN:HE21	2.31	0.43
2:Oh:88:THR:CB	2:Oh:101:GLN:HE21	2.31	0.43
2:Th:64:LEU:HD21	3:Tl:65:PRO:CG	2.48	0.43
2:Th:88:THR:CB	2:Th:101:GLN:HE21	2.31	0.43
2:Vh:121:GLN:HG3	2:Vh:135:TYR:CD2	2.54	0.43
2:Xh:64:LEU:HD21	3:Xl:65:PRO:CG	2.49	0.43
2:Xh:100:LEU:HD21	2:Xh:113:TYR:CE1	2.53	0.43
2:Yh:101:GLN:HE21	2:Yh:101:GLN:HB2	1.62	0.43
2:Zh:88:THR:CB	2:Zh:101:GLN:HE21	2.31	0.43
2:2h:64:LEU:HD21	3:2l:65:PRO:CG	2.49	0.43
2:2h:88:THR:CB	2:2h:101:GLN:HE21	2.31	0.43
2:6h:64:LEU:HD21	3:6l:65:PRO:CG	2.49	0.43
2:6h:88:THR:CB	2:6h:101:GLN:HE21	2.31	0.43
2:gh:64:LEU:HD21	3:gl:65:PRO:CG	2.48	0.43
2:gh:88:THR:CG2	2:gh:101:GLN:HE21	2.23	0.43
2:gh:88:THR:CB	2:gh:101:GLN:HE21	2.31	0.43
2:hh:39:LEU:HG	2:hh:102:MET:HE3	2.00	0.43
2:hh:100:LEU:HD21	2:hh:113:TYR:CE1	2.53	0.43
2:ih:64:LEU:HD21	3:il:65:PRO:CG	2.49	0.43
2:jh:121:GLN:HG3	2:jh:135:TYR:CD2	2.54	0.43
2:lh:39:LEU:CD1	2:lh:102:MET:CE	2.96	0.43
2:lh:100:LEU:HD21	2:lh:113:TYR:CE1	2.53	0.43
2:uh:39:LEU:CD1	2:uh:102:MET:CE	2.96	0.43
2:uh:88:THR:CB	2:uh:101:GLN:HE21	2.31	0.43
2:7h:129:ALA:HA	2:7h:130:PRO:HD3	1.80	0.43
2:8h:121:GLN:HG3	2:8h:135:TYR:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Al:104:GLU:HA	3:Al:126:VAL:HB	1.99	0.43
3:Cl:59:GLN:C	3:Cl:105:ALA:HB1	2.43	0.43
3:Dl:27:PRO:O	3:Dl:124:THR:OG1	2.22	0.43
3:El:107:TYR:CD2	3:El:126:VAL:HG23	2.53	0.43
3:Gl:106:ASP:OD1	3:Gl:107:TYR:N	2.51	0.43
3:Jl:106:ASP:OD1	3:Jl:107:TYR:N	2.51	0.43
3:Ll:106:ASP:OD1	3:Ll:107:TYR:N	2.51	0.43
3:Ml:107:TYR:CD2	3:Ml:126:VAL:HG23	2.53	0.43
3:Rl:59:GLN:C	3:Rl:105:ALA:HB1	2.43	0.43
3:Tl:99:LEU:HD12	3:Tl:99:LEU:HA	1.78	0.43
3:Yl:107:TYR:CD2	3:Yl:126:VAL:HG23	2.53	0.43
3:Zl:31:SER:HB3	3:Zl:127:THR:HG1	1.80	0.43
3:1l:79:VAL:HA	3:1l:80:PRO:HD3	1.81	0.43
3:jl:27:PRO:O	3:jl:124:THR:OG1	2.22	0.43
3:kl:60:LEU:HD23	3:kl:105:ALA:CB	2.34	0.43
3:kl:107:TYR:HE2	3:kl:126:VAL:HG22	1.64	0.43
3:ll:69:ILE:HD13	3:ll:75:ARG:HG2	1.99	0.43
3:nl:106:ASP:OD1	3:nl:107:TYR:N	2.51	0.43
3:ul:59:GLN:C	3:ul:105:ALA:HB1	2.43	0.43
3:wl:59:GLN:C	3:wl:105:ALA:HB1	2.43	0.43
3:yl:59:GLN:C	3:yl:105:ALA:HB1	2.43	0.43
3:7l:69:ILE:HD13	3:7l:75:ARG:HG2	1.99	0.43
1:A:304:TRP:CD2	1:A:689:GLU:HA	2.53	0.43
1:B:296:TRP:CZ2	1:B:728:THR:CG2	3.02	0.43
1:I:302:ASN:OD1	1:7:302:ASN:OD1	2.36	0.43
1:N:587:ASN:HB3	3:Nl:87:ARG:HH12	1.83	0.43
1:P:395:LEU:HD23	1:P:647:LEU:HD23	2.00	0.43
1:P:460:LEU:HD21	1:c:488:VAL:HG12	1.99	0.43
1:S:587:ASN:HB3	3:Sl:87:ARG:HH12	1.83	0.43
1:Y:302:ASN:OD1	1:o:302:ASN:OD1	2.36	0.43
1:1:304:TRP:CD2	1:1:689:GLU:HA	2.52	0.43
1:e:304:TRP:C	1:e:423:SER:HG	2.26	0.43
1:i:488:VAL:HG12	1:v:460:LEU:HD21	1.99	0.43
1:i:501:SER:HB2	1:v:448:THR:HG23	2.00	0.43
1:q:587:ASN:HB3	3:ql:87:ARG:HH12	1.83	0.43
1:u:296:TRP:CZ2	1:u:728:THR:CG2	3.02	0.43
1:u:395:LEU:HD23	1:u:647:LEU:HD23	2.00	0.43
1:w:304:TRP:CD2	1:w:689:GLU:HA	2.53	0.43
2:Bh:88:THR:CB	2:Bh:101:GLN:HE21	2.31	0.43
2:Dh:100:LEU:HD21	2:Dh:113:TYR:CE1	2.53	0.43
2:Fh:21:VAL:HG11	2:Fh:139:VAL:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Jh:100:LEU:HD21	2:Jh:113:TYR:CE1	2.53	0.43
2:Lh:57:ARG:HG3	2:Lh:113:TYR:CZ	2.49	0.43
2:Lh:121:GLN:HG3	2:Lh:135:TYR:CD2	2.54	0.43
2:Oh:121:GLN:HG3	2:Oh:135:TYR:CD2	2.54	0.43
2:Qh:88:THR:CB	2:Qh:101:GLN:HE21	2.31	0.43
2:Sh:39:LEU:HG	2:Sh:102:MET:HE3	2.00	0.43
2:Sh:100:LEU:HD21	2:Sh:113:TYR:CE1	2.53	0.43
2:Vh:100:LEU:HD21	2:Vh:113:TYR:CE1	2.53	0.43
2:Yh:100:LEU:HD21	2:Yh:113:TYR:CE1	2.53	0.43
2:Yh:121:GLN:HG3	2:Yh:135:TYR:CD2	2.54	0.43
2:Zh:121:GLN:HG3	2:Zh:135:TYR:CD2	2.54	0.43
2:2h:21:VAL:HG11	2:2h:139:VAL:HG21	2.01	0.43
2:4h:39:LEU:HG	2:4h:102:MET:HE3	2.00	0.43
2:4h:100:LEU:HD21	2:4h:113:TYR:CE1	2.53	0.43
2:6h:21:VAL:HG11	2:6h:139:VAL:HG21	2.01	0.43
2:ah:88:THR:CB	2:ah:101:GLN:HE21	2.31	0.43
2:bh:88:THR:CB	2:bh:101:GLN:HE21	2.31	0.43
2:fh:88:THR:CB	2:fh:101:GLN:HE21	2.31	0.43
2:ih:100:LEU:HD21	2:ih:113:TYR:CE1	2.53	0.43
2:kh:21:VAL:HG11	2:kh:139:VAL:HG21	2.01	0.43
2:nh:39:LEU:CD1	2:nh:102:MET:CE	2.96	0.43
2:nh:88:THR:CB	2:nh:101:GLN:NE2	2.78	0.43
2:oh:21:VAL:HG11	2:oh:139:VAL:HG21	2.01	0.43
2:ph:64:LEU:HD21	3:pl:65:PRO:CG	2.48	0.43
2:ph:88:THR:CB	2:ph:101:GLN:HE21	2.31	0.43
2:qh:88:THR:CB	2:qh:101:GLN:HE21	2.31	0.43
2:rh:64:LEU:HD21	3:rl:65:PRO:CG	2.48	0.43
2:sh:21:VAL:HG11	2:sh:139:VAL:HG21	2.01	0.43
2:th:121:GLN:HG3	2:th:135:TYR:CD2	2.54	0.43
2:uh:21:VAL:HG11	2:uh:139:VAL:HG21	2.01	0.43
2:vh:100:LEU:HD21	2:vh:113:TYR:CE1	2.53	0.43
2:yh:88:THR:CB	2:yh:101:GLN:HE21	2.31	0.43
2:7h:100:LEU:HD21	2:7h:113:TYR:CE1	2.53	0.43
2:7h:121:GLN:HG3	2:7h:135:TYR:CD2	2.54	0.43
2:7h:128:LYS:N	2:7h:128:LYS:CD	2.73	0.43
2:8h:88:THR:CB	2:8h:101:GLN:HE21	2.31	0.43
3:Hl:106:ASP:OD1	3:Hl:107:TYR:N	2.51	0.43
3:Ql:106:ASP:OD1	3:Ql:107:TYR:N	2.51	0.43
3:Vl:27:PRO:O	3:Vl:124:THR:OG1	2.22	0.43
3:Xl:59:GLN:C	3:Xl:105:ALA:HB1	2.43	0.43
3:Yl:69:ILE:HD13	3:Yl:75:ARG:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1l:59:GLN:C	3:1l:105:ALA:HB1	2.43	0.43
3:bl:59:GLN:C	3:bl:105:ALA:HB1	2.43	0.43
3:bl:107:TYR:CD2	3:bl:126:VAL:HG23	2.53	0.43
3:cl:59:GLN:C	3:cl:105:ALA:HB1	2.43	0.43
3:il:59:GLN:C	3:il:105:ALA:HB1	2.43	0.43
3:il:106:ASP:OD1	3:il:107:TYR:N	2.51	0.43
3:ml:115:SER:HA	3:ml:116:PRO:HD2	1.64	0.43
3:nl:59:GLN:C	3:nl:105:ALA:HB1	2.43	0.43
3:vl:106:ASP:OD1	3:vl:107:TYR:N	2.51	0.43
1:B:395:LEU:HD23	1:B:647:LEU:HD23	2.00	0.43
1:B:488:VAL:HG12	1:V:460:LEU:HD21	1.99	0.43
1:C:302:ASN:OD1	1:H:302:ASN:OD1	2.36	0.43
1:I:296:TRP:CZ2	1:I:728:THR:CG2	3.02	0.43
1:K:304:TRP:CD2	1:K:689:GLU:HA	2.53	0.43
1:N:304:TRP:CD2	1:N:689:GLU:HA	2.53	0.43
1:P:296:TRP:CZ2	1:P:728:THR:CG2	3.02	0.43
1:c:304:TRP:CD2	1:c:689:GLU:HA	2.53	0.43
1:d:296:TRP:CZ2	1:d:728:THR:CG2	3.02	0.43
1:h:460:LEU:HD21	1:p:488:VAL:HG12	1.99	0.43
1:o:296:TRP:CZ2	1:o:728:THR:CG2	3.02	0.43
1:q:296:TRP:CZ2	1:q:728:THR:CG2	3.02	0.43
1:s:395:LEU:HD23	1:s:647:LEU:HD23	2.00	0.43
1:x:304:TRP:CD2	1:x:689:GLU:HA	2.53	0.43
1:y:296:TRP:CZ2	1:y:728:THR:CG2	3.02	0.43
2:Bh:21:VAL:HG11	2:Bh:139:VAL:HG21	2.01	0.43
2:Bh:64:LEU:HD21	3:Bl:65:PRO:CG	2.48	0.43
2:Fh:64:LEU:HD21	3:Fl:65:PRO:CG	2.49	0.43
2:Fh:121:GLN:HG3	2:Fh:135:TYR:CD2	2.54	0.43
2:Gh:39:LEU:CD1	2:Gh:102:MET:CE	2.96	0.43
2:Ih:21:VAL:HG11	2:Ih:139:VAL:HG21	2.01	0.43
2:Ih:64:LEU:HD21	3:Il:65:PRO:CG	2.48	0.43
2:Jh:21:VAL:HG11	2:Jh:139:VAL:HG21	2.01	0.43
2:Lh:64:LEU:HD21	3:Ll:65:PRO:CG	2.48	0.43
2:Oh:39:LEU:CD1	2:Oh:102:MET:CE	2.96	0.43
2:Ph:121:GLN:HG3	2:Ph:135:TYR:CD2	2.54	0.43
2:Qh:64:LEU:HD21	3:Ql:65:PRO:CG	2.48	0.43
2:Rh:21:VAL:HG11	2:Rh:139:VAL:HG21	2.01	0.43
2:Wh:64:LEU:HD21	3:Wl:65:PRO:CG	2.48	0.43
2:Zh:21:VAL:HG11	2:Zh:139:VAL:HG21	2.00	0.43
2:Zh:100:LEU:HD21	2:Zh:113:TYR:CE1	2.53	0.43
2:Zh:129:ALA:HA	2:Zh:130:PRO:HD3	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1h:121:GLN:HG3	2:1h:135:TYR:CD2	2.54	0.43
2:5h:129:ALA:HA	2:5h:130:PRO:HD3	1.80	0.43
2:dh:121:GLN:HG3	2:dh:135:TYR:CD2	2.54	0.43
2:eh:100:LEU:HD21	2:eh:113:TYR:CE1	2.53	0.43
2:fh:121:GLN:HG3	2:fh:135:TYR:CD2	2.54	0.43
2:jh:100:LEU:HD21	2:jh:113:TYR:CE1	2.53	0.43
2:lh:39:LEU:HG	2:lh:102:MET:HE3	2.00	0.43
2:qh:48:PHE:O	2:qh:91:ARG:NH2	2.48	0.43
2:sh:39:LEU:CD1	2:sh:102:MET:CE	2.96	0.43
2:sh:64:LEU:HD21	3:sl:65:PRO:CG	2.49	0.43
2:th:64:LEU:HD21	3:tl:65:PRO:CG	2.48	0.43
2:uh:64:LEU:HD21	3:ul:65:PRO:CG	2.48	0.43
2:vh:21:VAL:HG11	2:vh:139:VAL:HG21	2.01	0.43
2:wh:121:GLN:HG3	2:wh:135:TYR:CD2	2.54	0.43
2:xh:64:LEU:HD21	3:xl:65:PRO:CG	2.48	0.43
2:xh:100:LEU:HD21	2:xh:113:TYR:CE1	2.53	0.43
2:zh:39:LEU:HG	2:zh:102:MET:HE3	2.00	0.43
2:zh:64:LEU:HD21	3:zl:65:PRO:CG	2.48	0.43
2:8h:21:VAL:HG11	2:8h:139:VAL:HG21	2.00	0.43
2:8h:145:THR:O	2:8h:145:THR:OG1	2.26	0.43
3:El:31:SER:CB	3:El:127:THR:OG1	2.60	0.43
3:Gl:107:TYR:CD2	3:Gl:126:VAL:HG23	2.53	0.43
3:Hl:31:SER:CB	3:Hl:127:THR:OG1	2.60	0.43
3:Jl:31:SER:CB	3:Jl:127:THR:OG1	2.61	0.43
3:Ml:106:ASP:OD1	3:Ml:107:TYR:N	2.51	0.43
3:Rl:107:TYR:HE2	3:Rl:126:VAL:HG22	1.64	0.43
3:Xl:106:ASP:OD1	3:Xl:107:TYR:N	2.51	0.43
3:al:79:VAL:HA	3:al:80:PRO:HD3	1.81	0.43
3:nl:107:TYR:CD2	3:nl:126:VAL:HG23	2.53	0.43
3:wl:75:ARG:HA	3:wl:76:PRO:HD3	1.78	0.43
3:xl:115:SER:HA	3:xl:116:PRO:HD2	1.64	0.43
3:yl:106:ASP:OD1	3:yl:107:TYR:N	2.51	0.43
3:8l:106:ASP:OD1	3:8l:107:TYR:N	2.51	0.43
1:E:296:TRP:CZ2	1:E:728:THR:CG2	3.02	0.43
1:F:448:THR:HG23	1:6:501:SER:HB2	1.99	0.43
1:H:296:TRP:CZ2	1:H:728:THR:CG2	3.02	0.43
1:I:407:ASN:HD21	1:w:224:SER:H	1.65	0.43
1:J:296:TRP:CZ2	1:J:728:THR:CG2	3.02	0.43
1:J:448:THR:HG23	1:X:501:SER:HB2	2.00	0.43
1:K:448:THR:HG23	1:m:501:SER:HB2	2.00	0.43
1:N:488:VAL:HG12	1:d:460:LEU:HD21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:302:ASN:OD1	1:V:302:ASN:OD1	2.36	0.43
1:S:444:TYR:OH	1:S:469:ASP:OD2	2.21	0.43
1:U:501:SER:HB2	1:x:448:THR:HG23	2.00	0.43
1:V:304:TRP:C	1:V:423:SER:HG	2.27	0.43
1:2:302:ASN:OD1	1:n:302:ASN:OD1	2.36	0.43
1:a:302:ASN:OD1	1:y:302:ASN:OD1	2.36	0.43
1:c:587:ASN:HB3	3:cl:87:ARG:HH12	1.83	0.43
1:d:395:LEU:HD23	1:d:647:LEU:HD23	2.00	0.43
1:d:501:SER:HB2	1:z:448:THR:HG23	2.00	0.43
1:j:296:TRP:CZ2	1:j:728:THR:CG2	3.02	0.43
1:n:224:SER:H	1:w:407:ASN:HD21	1.65	0.43
1:p:296:TRP:CZ2	1:p:728:THR:CG2	3.02	0.43
1:v:296:TRP:CZ2	1:v:728:THR:CG2	3.02	0.43
2:Ah:21:VAL:HG11	2:Ah:139:VAL:HG21	2.01	0.43
2:Ah:100:LEU:HD21	2:Ah:113:TYR:CE1	2.53	0.43
2:Ch:39:LEU:CD1	2:Ch:102:MET:CE	2.96	0.43
2:Eh:64:LEU:HD21	3:El:65:PRO:CG	2.49	0.43
2:Eh:88:THR:CB	2:Eh:101:GLN:HE21	2.31	0.43
2:Fh:39:LEU:CD1	2:Fh:102:MET:CE	2.96	0.43
2:Ih:39:LEU:CD1	2:Ih:102:MET:CE	2.96	0.43
2:Kh:39:LEU:CD1	2:Kh:102:MET:CE	2.96	0.43
2:Kh:64:LEU:HD21	3:Kl:65:PRO:CG	2.48	0.43
2:Kh:100:LEU:HD21	2:Kh:113:TYR:CE1	2.53	0.43
2:Mh:88:THR:CG2	2:Mh:101:GLN:HE21	2.23	0.43
2:Nh:39:LEU:CD1	2:Nh:102:MET:CE	2.96	0.43
2:Wh:39:LEU:HG	2:Wh:102:MET:HE3	2.00	0.43
2:1h:100:LEU:HD21	2:1h:113:TYR:CE1	2.53	0.43
2:4h:39:LEU:CD1	2:4h:102:MET:CE	2.96	0.43
2:4h:64:LEU:HD21	3:4l:65:PRO:CG	2.49	0.43
2:ah:21:VAL:HG11	2:ah:139:VAL:HG21	2.01	0.43
2:ah:64:LEU:HD21	3:al:65:PRO:CG	2.48	0.43
2:bh:39:LEU:CD1	2:bh:102:MET:CE	2.96	0.43
2:ch:39:LEU:CD1	2:ch:102:MET:CE	2.96	0.43
2:dh:100:LEU:HD21	2:dh:113:TYR:CE1	2.53	0.43
2:fh:39:LEU:CD1	2:fh:102:MET:CE	2.96	0.43
2:hh:39:LEU:CD1	2:hh:102:MET:CE	2.96	0.43
2:hh:64:LEU:HD21	3:hl:65:PRO:CG	2.49	0.43
2:kh:121:GLN:HG3	2:kh:135:TYR:CD2	2.54	0.43
2:oh:39:LEU:HG	2:oh:102:MET:HE3	2.00	0.43
2:oh:39:LEU:CD1	2:oh:102:MET:CE	2.96	0.43
2:oh:64:LEU:HD21	3:ol:65:PRO:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ph:21:VAL:HG11	2:ph:139:VAL:HG21	2.01	0.43
2:ph:100:LEU:HD21	2:ph:113:TYR:CE1	2.53	0.43
2:qh:39:LEU:HG	2:qh:102:MET:HE3	2.00	0.43
2:sh:121:GLN:HG3	2:sh:135:TYR:CD2	2.54	0.43
2:uh:39:LEU:HG	2:uh:102:MET:HE3	2.00	0.43
2:xh:39:LEU:CD1	2:xh:102:MET:CE	2.96	0.43
2:7h:21:VAL:HG11	2:7h:139:VAL:HG21	2.00	0.43
2:8h:100:LEU:HD21	2:8h:113:TYR:CE1	2.53	0.43
3:Cl:79:VAL:HA	3:Cl:80:PRO:HD3	1.81	0.43
3:Fl:59:GLN:C	3:Fl:105:ALA:HB1	2.43	0.43
3:Ml:69:ILE:HD13	3:Ml:75:ARG:HG2	1.99	0.43
3:Nl:59:GLN:C	3:Nl:105:ALA:HB1	2.43	0.43
3:Rl:106:ASP:OD1	3:Rl:107:TYR:N	2.51	0.43
3:Zl:31:SER:CB	3:Zl:127:THR:OG1	2.60	0.43
3:Zl:59:GLN:C	3:Zl:105:ALA:HB1	2.43	0.43
3:Zl:106:ASP:OD1	3:Zl:107:TYR:N	2.51	0.43
3:3l:69:ILE:HD13	3:3l:75:ARG:HG2	2.00	0.43
3:bl:104:GLU:HA	3:bl:126:VAL:HB	1.99	0.43
3:bl:106:ASP:OD1	3:bl:107:TYR:N	2.51	0.43
3:fl:31:SER:CB	3:fl:127:THR:OG1	2.60	0.43
3:gl:69:ILE:HD13	3:gl:75:ARG:HG2	1.99	0.43
3:kl:59:GLN:C	3:kl:105:ALA:HB1	2.43	0.43
3:ql:31:SER:CB	3:ql:127:THR:OG1	2.60	0.43
3:xl:31:SER:CB	3:xl:127:THR:OG1	2.60	0.43
3:zl:107:TYR:CD2	3:zl:126:VAL:HG23	2.53	0.43
3:8l:59:GLN:C	3:8l:105:ALA:HB1	2.43	0.43
1:D:302:ASN:OD1	1:K:302:ASN:OD1	2.36	0.43
1:D:304:TRP:C	1:D:423:SER:HG	2.27	0.43
1:E:501:SER:HB2	1:m:448:THR:HG23	2.00	0.43
1:F:587:ASN:HB3	3:Fl:87:ARG:HH12	1.83	0.43
1:I:584:GLN:HE21	1:I:584:GLN:HB3	1.68	0.43
1:J:224:SER:H	1:i:407:ASN:HD21	1.65	0.43
1:P:501:SER:HB2	1:W:448:THR:HG23	2.00	0.43
1:S:404:ARG:H	1:S:407:ASN:ND2	2.12	0.43
1:U:448:THR:HG23	1:q:501:SER:HB2	2.00	0.43
1:V:224:SER:H	1:c:407:ASN:HD21	1.65	0.43
1:V:296:TRP:CZ2	1:V:728:THR:CG2	3.02	0.43
1:X:407:ASN:HD21	1:v:224:SER:H	1.65	0.43
1:d:224:SER:H	1:u:407:ASN:HD21	1.66	0.43
1:d:302:ASN:OD1	1:j:302:ASN:OD1	2.36	0.43
1:e:302:ASN:OD1	1:x:302:ASN:OD1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:460:LEU:HD21	1:u:488:VAL:HG12	1.99	0.43
1:k:304:TRP:C	1:k:423:SER:HG	2.26	0.43
1:x:296:TRP:CZ2	1:x:728:THR:CG2	3.02	0.43
1:8:296:TRP:CZ2	1:8:728:THR:CG2	3.02	0.43
1:8:587:ASN:HB3	3:8l:87:ARG:HH12	1.83	0.43
2:Ah:129:ALA:HA	2:Ah:130:PRO:HD3	1.80	0.43
2:Bh:39:LEU:HG	2:Bh:102:MET:HE3	2.00	0.43
2:Ch:21:VAL:HG11	2:Ch:139:VAL:HG21	2.01	0.43
2:Eh:39:LEU:HG	2:Eh:102:MET:HE3	2.00	0.43
2:Hh:121:GLN:HG3	2:Hh:135:TYR:CD2	2.54	0.43
2:Jh:121:GLN:HG3	2:Jh:135:TYR:CD2	2.54	0.43
2:Mh:39:LEU:HG	2:Mh:102:MET:HE3	2.00	0.43
2:Nh:100:LEU:HD21	2:Nh:113:TYR:CE1	2.53	0.43
2:Nh:129:ALA:HA	2:Nh:130:PRO:HD3	1.79	0.43
2:Ph:100:LEU:HD21	2:Ph:113:TYR:CE1	2.53	0.43
2:Rh:121:GLN:HG3	2:Rh:135:TYR:CD2	2.54	0.43
2:Sh:21:VAL:HG11	2:Sh:139:VAL:HG21	2.01	0.43
2:Sh:121:GLN:HG3	2:Sh:135:TYR:CD2	2.54	0.43
2:Uh:39:LEU:HG	2:Uh:102:MET:HE3	2.00	0.43
2:Uh:121:GLN:HG3	2:Uh:135:TYR:CD2	2.54	0.43
2:Xh:39:LEU:HG	2:Xh:102:MET:HE3	2.00	0.43
2:Yh:21:VAL:HG11	2:Yh:139:VAL:HG21	2.00	0.43
2:3h:64:LEU:HD21	3:3l:65:PRO:CG	2.49	0.43
2:4h:88:THR:CB	2:4h:101:GLN:HE21	2.31	0.43
2:5h:64:LEU:HD21	3:5l:65:PRO:CG	2.49	0.43
2:ah:39:LEU:CD1	2:ah:102:MET:CE	2.96	0.43
2:bh:39:LEU:HG	2:bh:102:MET:HE3	2.00	0.43
2:ch:100:LEU:HD21	2:ch:113:TYR:CE1	2.53	0.43
2:ch:101:GLN:HE21	2:ch:101:GLN:HB2	1.62	0.43
2:hh:88:THR:CB	2:hh:101:GLN:HE21	2.31	0.43
2:ih:121:GLN:HG3	2:ih:135:TYR:CD2	2.54	0.43
2:lh:21:VAL:HG11	2:lh:139:VAL:HG21	2.01	0.43
2:lh:121:GLN:HG3	2:lh:135:TYR:CD2	2.54	0.43
2:mh:39:LEU:HG	2:mh:102:MET:HE3	2.00	0.43
2:mh:39:LEU:CD1	2:mh:102:MET:CE	2.96	0.43
2:oh:129:ALA:HA	2:oh:130:PRO:HD3	1.80	0.43
2:qh:64:LEU:HD21	3:ql:65:PRO:CG	2.49	0.43
2:rh:39:LEU:CD1	2:rh:102:MET:CE	2.96	0.43
2:rh:121:GLN:HG3	2:rh:135:TYR:CD2	2.54	0.43
2:th:145:THR:O	2:th:145:THR:OG1	2.26	0.43
2:uh:121:GLN:HG3	2:uh:135:TYR:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:wh:100:LEU:HD21	2:wh:113:TYR:CE1	2.53	0.43
2:xh:39:LEU:HG	2:xh:102:MET:HE3	2.00	0.43
2:7h:88:THR:CB	2:7h:101:GLN:HE21	2.31	0.43
2:8h:129:ALA:HA	2:8h:130:PRO:HD3	1.80	0.43
3:Bl:79:VAL:HA	3:Bl:80:PRO:HD3	1.81	0.43
3:Dl:99:LEU:HD12	3:Dl:99:LEU:HA	1.78	0.43
3:Dl:125:LYS:HD2	3:Dl:125:LYS:H	1.83	0.43
3:Kl:75:ARG:HA	3:Kl:76:PRO:HD3	1.78	0.43
3:Ll:33:THR:CG2	3:Ll:34:PRO:CD	2.90	0.43
3:Ml:104:GLU:HA	3:Ml:126:VAL:HB	1.99	0.43
3:Ol:125:LYS:N	3:Ol:125:LYS:CD	2.73	0.43
3:Sl:106:ASP:OD1	3:Sl:107:TYR:N	2.51	0.43
3:Ul:33:THR:CG2	3:Ul:34:PRO:CD	2.90	0.43
3:6l:106:ASP:OD1	3:6l:107:TYR:N	2.51	0.43
3:bl:69:ILE:HD13	3:bl:75:ARG:HG2	1.99	0.43
3:kl:100:GLN:NE2	3:kl:100:GLN:CA	2.73	0.43
3:kl:106:ASP:OD1	3:kl:107:TYR:N	2.51	0.43
3:ll:59:GLN:C	3:ll:105:ALA:HB1	2.43	0.43
3:tl:59:GLN:C	3:tl:105:ALA:HB1	2.43	0.43
3:vl:31:SER:CB	3:vl:127:THR:OG1	2.61	0.43
3:yl:107:TYR:CE2	3:yl:126:VAL:HG22	2.46	0.43
1:A:296:TRP:CZ2	1:A:728:THR:CG2	3.02	0.43
1:K:296:TRP:CZ2	1:K:728:THR:CG2	3.02	0.43
1:N:407:ASN:HD21	1:j:224:SER:H	1.65	0.43
1:R:304:TRP:C	1:R:423:SER:HG	2.26	0.43
1:S:302:ASN:OD1	1:l:302:ASN:OD1	2.36	0.43
1:X:304:TRP:C	1:X:423:SER:HG	2.26	0.43
1:Y:296:TRP:CZ2	1:Y:728:THR:CG2	3.02	0.43
1:Z:296:TRP:CZ2	1:Z:728:THR:CG2	3.02	0.43
1:Z:587:ASN:HB3	3:Zl:87:ARG:HH12	1.83	0.43
1:1:365:PHE:HA	1:1:366:PRO:HD3	1.93	0.43
1:a:407:ASN:HD21	1:s:224:SER:H	1.64	0.43
1:a:501:SER:HB2	1:8:448:THR:HG23	2.00	0.43
1:c:296:TRP:CZ2	1:c:728:THR:CG2	3.02	0.43
1:g:404:ARG:H	1:g:407:ASN:ND2	2.12	0.43
1:t:237:ASP:OD1	1:t:237:ASP:N	2.34	0.43
1:v:395:LEU:HD23	1:v:647:LEU:HD23	2.00	0.43
1:7:296:TRP:CZ2	1:7:728:THR:CG2	3.02	0.43
1:7:395:LEU:HD23	1:7:647:LEU:HD23	2.00	0.43
1:8:395:LEU:HD23	1:8:647:LEU:HD23	2.00	0.43
2:Ch:64:LEU:HD21	3:Cl:65:PRO:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Dh:95:LYS:HD3	2:Dh:99:TYR:OH	2.19	0.43
2:Ih:39:LEU:HG	2:Ih:102:MET:HE3	2.00	0.43
2:Kh:39:LEU:HG	2:Kh:102:MET:HE3	2.00	0.43
2:Mh:39:LEU:CD1	2:Mh:102:MET:CE	2.96	0.43
2:Qh:39:LEU:CD1	2:Qh:102:MET:CE	2.96	0.43
2:Qh:121:GLN:HG3	2:Qh:135:TYR:CD2	2.54	0.43
2:Th:88:THR:CG2	2:Th:101:GLN:HE21	2.23	0.43
2:Uh:39:LEU:CD1	2:Uh:102:MET:CE	2.96	0.43
2:Uh:95:LYS:HD3	2:Uh:99:TYR:OH	2.19	0.43
2:Wh:95:LYS:HD3	2:Wh:99:TYR:OH	2.19	0.43
2:Xh:121:GLN:HG3	2:Xh:135:TYR:CD2	2.54	0.43
2:2h:121:GLN:HG3	2:2h:135:TYR:CD2	2.54	0.43
2:3h:95:LYS:HD3	2:3h:99:TYR:OH	2.19	0.43
2:4h:95:LYS:HD3	2:4h:99:TYR:OH	2.19	0.43
2:4h:101:GLN:HE21	2:4h:101:GLN:HB2	1.62	0.43
2:5h:95:LYS:HD3	2:5h:99:TYR:OH	2.19	0.43
2:5h:121:GLN:HG3	2:5h:135:TYR:CD2	2.54	0.43
2:ih:72:TYR:CA	2:ih:91:ARG:NH1	2.73	0.43
2:kh:39:LEU:HG	2:kh:102:MET:HE3	2.00	0.43
2:mh:95:LYS:HD3	2:mh:99:TYR:OH	2.19	0.43
2:mh:121:GLN:HG3	2:mh:135:TYR:CD2	2.54	0.43
2:rh:88:THR:CB	2:rh:101:GLN:HE21	2.31	0.43
2:vh:121:GLN:HG3	2:vh:135:TYR:CD2	2.54	0.43
2:xh:121:GLN:HG3	2:xh:135:TYR:CD2	2.54	0.43
2:yh:121:GLN:HG3	2:yh:135:TYR:CD2	2.54	0.43
2:zh:95:LYS:HD3	2:zh:99:TYR:OH	2.19	0.43
2:8h:64:LEU:HD21	3:8l:65:PRO:CG	2.49	0.43
3:Gl:60:LEU:HD23	3:Gl:105:ALA:CB	2.34	0.43
3:Kl:79:VAL:HA	3:Kl:80:PRO:HD3	1.80	0.43
3:Nl:104:GLU:HA	3:Nl:126:VAL:HB	1.99	0.43
3:Ol:59:GLN:C	3:Ol:105:ALA:HB1	2.43	0.43
3:Rl:107:TYR:CD2	3:Rl:126:VAL:HG23	2.53	0.43
3:Tl:69:ILE:HD13	3:Tl:75:ARG:HG2	1.99	0.43
3:Wl:107:TYR:CD2	3:Wl:126:VAL:HG23	2.53	0.43
3:Yl:59:GLN:C	3:Yl:105:ALA:HB1	2.43	0.43
3:1l:75:ARG:HA	3:1l:76:PRO:HD3	1.78	0.43
3:5l:69:ILE:HD13	3:5l:75:ARG:HG2	2.00	0.43
3:cl:104:GLU:HA	3:cl:126:VAL:HB	1.99	0.43
3:fl:125:LYS:N	3:fl:125:LYS:CD	2.73	0.43
3:gl:99:LEU:HD12	3:gl:99:LEU:HA	1.78	0.43
3:kl:107:TYR:CD2	3:kl:126:VAL:HG23	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ll:106:ASP:OD1	3:ll:107:TYR:N	2.51	0.43
3:ll:107:TYR:CD2	3:ll:126:VAL:HG23	2.53	0.43
3:ml:33:THR:CG2	3:ml:34:PRO:CD	2.90	0.43
3:sl:59:GLN:C	3:sl:105:ALA:HB1	2.43	0.43
3:ul:79:VAL:HA	3:ul:80:PRO:HD3	1.81	0.43
3:wl:79:VAL:HA	3:wl:80:PRO:HD3	1.81	0.43
3:wl:106:ASP:OD1	3:wl:107:TYR:N	2.51	0.43
3:zl:99:LEU:HD12	3:zl:99:LEU:HA	1.78	0.43
1:B:407:ASN:HD21	1:P:224:SER:H	1.66	0.43
1:J:304:TRP:CD2	1:J:689:GLU:HA	2.53	0.43
1:N:296:TRP:CZ2	1:N:728:THR:CG2	3.02	0.43
1:N:365:PHE:HA	1:N:366:PRO:HD3	1.93	0.43
1:Y:395:LEU:HD23	1:Y:647:LEU:HD23	2.00	0.43
1:2:448:THR:HG23	1:w:501:SER:HB2	2.00	0.43
1:b:304:TRP:C	1:b:423:SER:HG	2.27	0.43
1:l:404:ARG:H	1:l:407:ASN:ND2	2.12	0.43
1:y:304:TRP:CD2	1:y:689:GLU:HA	2.53	0.43
2:Hh:39:LEU:CD1	2:Hh:102:MET:CE	2.96	0.43
2:Kh:39:LEU:CD1	2:Kh:102:MET:HE2	2.49	0.43
2:Kh:121:GLN:HG3	2:Kh:135:TYR:CD2	2.54	0.43
2:Qh:39:LEU:HG	2:Qh:102:MET:HE3	2.00	0.43
2:Rh:39:LEU:HG	2:Rh:102:MET:HE3	2.00	0.43
2:Rh:95:LYS:HD3	2:Rh:99:TYR:OH	2.19	0.43
2:Vh:39:LEU:CD1	2:Vh:102:MET:HE2	2.49	0.43
2:Wh:100:LEU:HD21	2:Wh:113:TYR:CE1	2.53	0.43
2:Yh:88:THR:CB	2:Yh:101:GLN:HE21	2.31	0.43
2:2h:39:LEU:HG	2:2h:102:MET:HE3	2.00	0.43
2:3h:121:GLN:HG3	2:3h:135:TYR:CD2	2.54	0.43
2:6h:121:GLN:HG3	2:6h:135:TYR:CD2	2.54	0.43
2:ah:39:LEU:CD1	2:ah:102:MET:HE2	2.49	0.43
2:eh:95:LYS:HD3	2:eh:99:TYR:OH	2.19	0.43
2:hh:95:LYS:HD3	2:hh:99:TYR:OH	2.19	0.43
2:ih:39:LEU:HG	2:ih:102:MET:HE3	2.00	0.43
2:jh:39:LEU:CD1	2:jh:102:MET:HE2	2.49	0.43
2:kh:95:LYS:HD3	2:kh:99:TYR:OH	2.19	0.43
2:mh:100:LEU:HD21	2:mh:113:TYR:CE1	2.53	0.43
2:th:88:THR:CB	2:th:101:GLN:HE21	2.31	0.43
2:vh:39:LEU:HG	2:vh:102:MET:HE3	2.00	0.43
2:xh:39:LEU:CD1	2:xh:102:MET:HE2	2.49	0.43
2:yh:39:LEU:CD1	2:yh:102:MET:CE	2.96	0.43
2:zh:100:LEU:HD21	2:zh:113:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:El:106:ASP:OD1	3:El:107:TYR:N	2.51	0.43
3:Hl:107:TYR:CE2	3:Hl:126:VAL:HG22	2.46	0.43
3:Ll:59:GLN:C	3:Ll:105:ALA:HB1	2.43	0.43
3:Sl:59:GLN:C	3:Sl:105:ALA:HB1	2.43	0.43
3:Sl:107:TYR:CD2	3:Sl:126:VAL:HG23	2.53	0.43
3:Wl:107:TYR:CE2	3:Wl:126:VAL:HG22	2.46	0.43
3:1l:106:ASP:OD1	3:1l:107:TYR:N	2.51	0.43
3:2l:106:ASP:OD1	3:2l:107:TYR:N	2.51	0.43
3:el:125:LYS:HD2	3:el:125:LYS:H	1.83	0.43
3:hl:79:VAL:HA	3:hl:80:PRO:HD3	1.81	0.43
3:nl:60:LEU:HD23	3:nl:105:ALA:CB	2.34	0.43
3:tl:33:THR:CG2	3:tl:34:PRO:CD	2.90	0.43
3:vl:107:TYR:CD2	3:vl:126:VAL:HG23	2.53	0.43
3:7l:59:GLN:C	3:7l:105:ALA:HB1	2.43	0.43
3:8l:31:SER:HB3	3:8l:127:THR:HG1	1.81	0.43
1:B:302:ASN:OD1	1:R:302:ASN:OD1	2.36	0.43
1:C:395:LEU:HD23	1:C:647:LEU:HD23	2.00	0.43
1:C:407:ASN:HD21	1:F:224:SER:H	1.64	0.43
1:D:484:ARG:HD3	1:7:580:SER:O	2.19	0.43
1:D:584:GLN:HE21	1:D:584:GLN:HB3	1.68	0.43
1:E:449:ASN:HA	1:E:459:ARG:H	1.84	0.43
1:H:304:TRP:CD2	1:H:689:GLU:HA	2.53	0.43
1:J:395:LEU:HD23	1:J:647:LEU:HD23	2.00	0.43
1:L:296:TRP:CZ2	1:L:728:THR:CG2	3.02	0.43
1:T:296:TRP:CZ2	1:T:728:THR:CG2	3.02	0.43
1:X:296:TRP:CZ2	1:X:728:THR:CG2	3.02	0.43
1:1:296:TRP:CZ2	1:1:728:THR:CG2	3.02	0.43
1:a:395:LEU:HD23	1:a:647:LEU:HD23	2.00	0.43
1:g:296:TRP:CZ2	1:g:728:THR:CG2	3.02	0.43
1:i:224:SER:H	1:s:407:ASN:HD21	1.66	0.43
1:i:296:TRP:CZ2	1:i:728:THR:CG2	3.02	0.43
1:k:302:ASN:OD1	1:u:302:ASN:OD1	2.36	0.43
1:t:296:TRP:CZ2	1:t:728:THR:CG2	3.02	0.43
1:w:296:TRP:CZ2	1:w:728:THR:CG2	3.02	0.43
2:Bh:39:LEU:CD1	2:Bh:102:MET:HE2	2.49	0.43
2:Ch:39:LEU:CD1	2:Ch:102:MET:HE2	2.49	0.43
2:Eh:121:GLN:HG3	2:Eh:135:TYR:CD2	2.54	0.43
2:Jh:39:LEU:HG	2:Jh:102:MET:HE3	2.00	0.43
2:Lh:88:THR:CB	2:Lh:101:GLN:HE21	2.31	0.43
2:Th:39:LEU:CD1	2:Th:102:MET:CE	2.96	0.43
2:Th:121:GLN:HG3	2:Th:135:TYR:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Uh:100:LEU:HD21	2:Uh:113:TYR:CE1	2.53	0.43
2:Wh:21:VAL:HG11	2:Wh:139:VAL:HG21	2.00	0.43
2:Wh:39:LEU:CD1	2:Wh:102:MET:HE2	2.49	0.43
2:Xh:72:TYR:CA	2:Xh:91:ARG:NH1	2.73	0.43
2:Zh:64:LEU:HD21	3:Zl:65:PRO:CG	2.49	0.43
2:1h:39:LEU:CD1	2:1h:102:MET:CE	2.96	0.43
2:2h:95:LYS:HD3	2:2h:99:TYR:OH	2.19	0.43
2:6h:39:LEU:HG	2:6h:102:MET:HE3	2.00	0.43
2:6h:95:LYS:HD3	2:6h:99:TYR:OH	2.19	0.43
2:6h:100:LEU:HD21	2:6h:113:TYR:CE1	2.53	0.43
2:bh:64:LEU:HD21	3:bl:65:PRO:CG	2.49	0.43
2:ch:121:GLN:HG3	2:ch:135:TYR:CD2	2.54	0.43
2:eh:64:LEU:HD21	3:el:65:PRO:CG	2.48	0.43
2:uh:39:LEU:CD1	2:uh:102:MET:HE2	2.49	0.43
2:xh:21:VAL:HG11	2:xh:139:VAL:HG21	2.01	0.43
2:zh:21:VAL:HG11	2:zh:139:VAL:HG21	2.01	0.43
2:zh:39:LEU:CD1	2:zh:102:MET:HE2	2.49	0.43
3:Il:69:ILE:HD13	3:Il:75:ARG:HG2	1.99	0.43
3:Jl:107:TYR:CD2	3:Jl:126:VAL:HG23	2.53	0.43
3:Kl:31:SER:CB	3:Kl:127:THR:OG1	2.61	0.43
3:Ol:31:SER:CB	3:Ol:127:THR:OG1	2.60	0.43
3:Tl:107:TYR:CD2	3:Tl:126:VAL:HG23	2.53	0.43
3:4l:79:VAL:HA	3:4l:80:PRO:HD3	1.81	0.43
3:6l:125:LYS:HD2	3:6l:125:LYS:H	1.83	0.43
3:el:75:ARG:HA	3:el:76:PRO:HD3	1.78	0.43
3:fl:59:GLN:C	3:fl:105:ALA:HB1	2.43	0.43
3:gl:107:TYR:CD2	3:gl:126:VAL:HG23	2.53	0.43
3:ol:69:ILE:HD13	3:ol:75:ARG:HG2	1.99	0.43
3:pl:107:TYR:CD2	3:pl:126:VAL:HG23	2.53	0.43
3:ql:106:ASP:OD1	3:ql:107:TYR:N	2.51	0.43
1:A:488:VAL:HG12	1:4:460:LEU:HD21	2.01	0.43
1:C:501:SER:HB2	1:Z:448:THR:HG23	2.00	0.43
1:D:371:MET:SD	1:m:661:PHE:HA	2.59	0.43
1:E:269:ASP:O	1:m:432:ARG:NH2	2.50	0.43
1:F:296:TRP:CZ2	1:F:728:THR:CG2	3.02	0.43
1:F:407:ASN:HD21	1:X:224:SER:H	1.66	0.43
1:F:449:ASN:HA	1:F:459:ARG:H	1.84	0.43
1:G:484:ARG:HD3	1:t:580:SER:O	2.19	0.43
1:I:587:ASN:HB3	3:Il:87:ARG:HH12	1.83	0.43
1:J:407:ASN:HD21	1:Y:224:SER:H	1.65	0.43
1:J:449:ASN:HA	1:J:459:ARG:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:587:ASN:HB3	3:Kl:87:ARG:HH12	1.83	0.43
1:L:580:SER:O	1:n:484:ARG:HD3	2.19	0.43
1:M:395:LEU:HD23	1:M:647:LEU:HD23	2.00	0.43
1:O:395:LEU:HD23	1:O:647:LEU:HD23	2.00	0.43
1:R:587:ASN:HB3	3:Rl:87:ARG:HH12	1.83	0.43
1:T:404:ARG:H	1:T:407:ASN:ND2	2.12	0.43
1:U:432:ARG:NH2	1:q:269:ASP:O	2.50	0.43
1:W:449:ASN:HA	1:W:459:ARG:H	1.84	0.43
1:Y:580:SER:O	1:e:484:ARG:HD3	2.19	0.43
1:Z:395:LEU:HD23	1:Z:647:LEU:HD23	2.00	0.43
1:1:584:GLN:HE21	1:1:584:GLN:HB3	1.68	0.43
1:4:587:ASN:HB3	3:4l:87:ARG:HH12	1.83	0.43
1:a:296:TRP:CZ2	1:a:728:THR:CG2	3.02	0.43
1:b:395:LEU:HD23	1:b:647:LEU:HD23	2.00	0.43
1:b:449:ASN:HA	1:b:459:ARG:H	1.84	0.43
1:e:584:GLN:HE21	1:e:584:GLN:HB3	1.68	0.43
1:f:395:LEU:HD23	1:f:647:LEU:HD23	2.00	0.43
1:h:587:ASN:HB3	3:hl:87:ARG:HH12	1.83	0.43
1:n:584:GLN:HE21	1:n:584:GLN:HB3	1.68	0.43
1:p:587:ASN:HB3	3:pl:87:ARG:HH12	1.83	0.43
1:q:449:ASN:HA	1:q:459:ARG:H	1.84	0.43
1:s:296:TRP:CZ2	1:s:728:THR:CG2	3.02	0.43
1:v:304:TRP:CD2	1:v:689:GLU:HA	2.53	0.43
1:v:449:ASN:HA	1:v:459:ARG:H	1.84	0.43
1:z:449:ASN:HA	1:z:459:ARG:H	1.84	0.43
2:Ah:121:GLN:HG3	2:Ah:135:TYR:CD2	2.54	0.43
2:Dh:64:LEU:HD21	3:Dl:65:PRO:CG	2.48	0.43
2:Eh:39:LEU:CD1	2:Eh:102:MET:HE2	2.49	0.43
2:Fh:100:LEU:HD21	2:Fh:113:TYR:CE1	2.53	0.43
2:Kh:21:VAL:HG11	2:Kh:139:VAL:HG21	2.01	0.43
2:Lh:39:LEU:CD1	2:Lh:102:MET:HE2	2.49	0.43
2:Mh:64:LEU:HD21	3:Ml:65:PRO:CG	2.49	0.43
2:Mh:95:LYS:HD3	2:Mh:99:TYR:OH	2.19	0.43
2:Nh:39:LEU:HG	2:Nh:102:MET:HE3	2.00	0.43
2:Nh:101:GLN:HE21	2:Nh:101:GLN:HB2	1.62	0.43
2:Nh:121:GLN:HG3	2:Nh:135:TYR:CD2	2.54	0.43
2:Oh:64:LEU:HD21	3:Ol:65:PRO:CG	2.49	0.43
2:Ph:21:VAL:HG11	2:Ph:139:VAL:HG21	2.00	0.43
2:Sh:88:THR:CB	2:Sh:101:GLN:HE21	2.31	0.43
2:Zh:39:LEU:CD1	2:Zh:102:MET:HE2	2.49	0.43
2:5h:100:LEU:HD21	2:5h:113:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bh:95:LYS:HD3	2:bh:99:TYR:OH	2.19	0.43
2:ch:39:LEU:HG	2:ch:102:MET:HE3	2.00	0.43
2:ch:64:LEU:HD21	3:cl:65:PRO:CG	2.48	0.43
2:ch:129:ALA:HA	2:ch:130:PRO:HD3	1.80	0.43
2:dh:21:VAL:HG11	2:dh:139:VAL:HG21	2.00	0.43
2:fh:64:LEU:HD21	3:fl:65:PRO:CG	2.48	0.43
2:gh:39:LEU:CD1	2:gh:102:MET:CE	2.96	0.43
2:gh:121:GLN:HG3	2:gh:135:TYR:CD2	2.54	0.43
2:qh:100:LEU:HD21	2:qh:113:TYR:CE1	2.53	0.43
2:qh:121:GLN:HG3	2:qh:135:TYR:CD2	2.54	0.43
2:rh:39:LEU:HG	2:rh:102:MET:HE3	2.00	0.43
2:sh:100:LEU:HD21	2:sh:113:TYR:CE1	2.53	0.43
2:th:95:LYS:HD3	2:th:99:TYR:OH	2.19	0.43
2:wh:39:LEU:CD1	2:wh:102:MET:CE	2.96	0.43
2:wh:128:LYS:N	2:wh:128:LYS:CD	2.73	0.43
2:8h:39:LEU:CD1	2:8h:102:MET:HE2	2.49	0.43
3:Al:75:ARG:HA	3:Al:76:PRO:HD3	1.78	0.43
3:Ml:99:LEU:HD12	3:Ml:99:LEU:HA	1.78	0.43
3:Nl:69:ILE:HD13	3:Nl:75:ARG:HG2	1.99	0.43
3:Xl:60:LEU:HD23	3:Xl:105:ALA:CB	2.34	0.43
3:2l:125:LYS:HD2	3:2l:125:LYS:H	1.83	0.43
3:dl:79:VAL:HA	3:dl:80:PRO:HD3	1.80	0.43
3:nl:107:TYR:HE2	3:nl:126:VAL:HG22	1.64	0.43
3:vl:31:SER:HB3	3:vl:127:THR:HG1	1.79	0.43
3:xl:79:VAL:HA	3:xl:80:PRO:HD3	1.81	0.43
1:A:449:ASN:HA	1:A:459:ARG:H	1.84	0.42
1:C:296:TRP:CZ2	1:C:728:THR:CG2	3.02	0.42
1:D:296:TRP:CZ2	1:D:728:THR:CG2	3.02	0.42
1:G:395:LEU:HD23	1:G:647:LEU:HD23	2.00	0.42
1:H:580:SER:O	1:7:484:ARG:HD3	2.19	0.42
1:M:449:ASN:HA	1:M:459:ARG:H	1.84	0.42
1:M:488:VAL:HG12	1:S:460:LEU:HD21	1.99	0.42
1:O:296:TRP:CZ2	1:O:728:THR:CG2	3.02	0.42
1:P:484:ARG:HD3	1:W:580:SER:O	2.19	0.42
1:R:296:TRP:CZ2	1:R:728:THR:CG2	3.02	0.42
1:T:302:ASN:OD1	1:W:302:ASN:OD1	2.36	0.42
1:U:404:ARG:H	1:U:407:ASN:ND2	2.12	0.42
1:U:661:PHE:HA	1:e:371:MET:SD	2.59	0.42
1:X:448:THR:HG23	1:o:501:SER:HB2	2.00	0.42
1:Y:484:ARG:HD3	1:y:580:SER:O	2.19	0.42
1:4:296:TRP:CZ2	1:4:728:THR:CG2	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:365:PHE:HA	1:c:366:PRO:HD3	1.93	0.42
1:e:296:TRP:CZ2	1:e:728:THR:CG2	3.02	0.42
1:g:302:ASN:OD1	1:z:302:ASN:OD1	2.36	0.42
1:k:296:TRP:CZ2	1:k:728:THR:CG2	3.02	0.42
1:l:395:LEU:HD23	1:l:647:LEU:HD23	2.00	0.42
1:n:395:LEU:HD23	1:n:647:LEU:HD23	2.00	0.42
1:p:449:ASN:HA	1:p:459:ARG:H	1.84	0.42
1:r:224:SER:H	1:z:407:ASN:HD21	1.65	0.42
1:s:449:ASN:HA	1:s:459:ARG:H	1.84	0.42
1:v:407:ASN:HD21	1:7:224:SER:H	1.65	0.42
2:Ah:39:LEU:CD1	2:Ah:102:MET:HE2	2.49	0.42
2:Bh:50:SER:O	2:Bh:51:TYR:CD2	2.72	0.42
2:Eh:100:LEU:HD21	2:Eh:113:TYR:CE1	2.53	0.42
2:Gh:95:LYS:HD3	2:Gh:99:TYR:OH	2.19	0.42
2:Hh:95:LYS:HD3	2:Hh:99:TYR:OH	2.19	0.42
2:Ih:39:LEU:CD1	2:Ih:102:MET:HE2	2.49	0.42
2:Ih:50:SER:O	2:Ih:51:TYR:CD2	2.72	0.42
2:Lh:95:LYS:HD3	2:Lh:99:TYR:OH	2.19	0.42
2:Nh:95:LYS:HD3	2:Nh:99:TYR:OH	2.19	0.42
2:Qh:21:VAL:HG11	2:Qh:139:VAL:HG21	2.01	0.42
2:Th:21:VAL:HG11	2:Th:139:VAL:HG21	2.01	0.42
2:Uh:64:LEU:HD21	3:Ul:65:PRO:CG	2.48	0.42
2:Vh:50:SER:O	2:Vh:51:TYR:CD2	2.72	0.42
2:2h:100:LEU:HD21	2:2h:113:TYR:CE1	2.53	0.42
2:3h:21:VAL:HG11	2:3h:139:VAL:HG21	2.01	0.42
2:gh:21:VAL:HG11	2:gh:139:VAL:HG21	2.01	0.42
2:nh:95:LYS:HD3	2:nh:99:TYR:OH	2.19	0.42
2:oh:50:SER:O	2:oh:51:TYR:CD2	2.72	0.42
2:ph:39:LEU:CD1	2:ph:102:MET:HE2	2.49	0.42
2:ph:121:GLN:HG3	2:ph:135:TYR:CD2	2.54	0.42
2:qh:39:LEU:CD1	2:qh:102:MET:HE2	2.49	0.42
2:rh:21:VAL:HG11	2:rh:139:VAL:HG21	2.01	0.42
2:rh:95:LYS:HD3	2:rh:99:TYR:OH	2.19	0.42
2:th:39:LEU:CD1	2:th:102:MET:HE2	2.49	0.42
2:uh:50:SER:O	2:uh:51:TYR:CD2	2.72	0.42
2:vh:39:LEU:CD1	2:vh:102:MET:HE2	2.49	0.42
2:xh:88:THR:CG2	2:xh:101:GLN:HE21	2.23	0.42
2:yh:48:PHE:O	2:yh:91:ARG:NH2	2.48	0.42
3:El:75:ARG:HA	3:El:76:PRO:HD3	1.78	0.42
3:Kl:109:CYS:O	3:Kl:121:GLY:N	2.53	0.42
3:Vl:59:GLN:C	3:Vl:105:ALA:HB1	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6l:27:PRO:O	3:6l:124:THR:OG1	2.22	0.42
3:ol:125:LYS:N	3:ol:125:LYS:CD	2.73	0.42
3:pl:79:VAL:HA	3:pl:80:PRO:HD3	1.80	0.42
3:ql:75:ARG:HA	3:ql:76:PRO:HD3	1.78	0.42
1:A:697:GLU:HG3	1:O:294:ARG:NE	2.33	0.42
1:B:404:ARG:H	1:B:407:ASN:ND2	2.12	0.42
1:D:580:SER:O	1:H:484:ARG:HD3	2.19	0.42
1:L:661:PHE:HA	1:z:371:MET:SD	2.59	0.42
1:M:365:PHE:HA	1:M:366:PRO:HD3	1.93	0.42
1:M:460:LEU:HD21	1:r:488:VAL:HG12	1.99	0.42
1:P:407:ASN:HD21	1:T:224:SER:H	1.65	0.42
1:Q:296:TRP:CZ2	1:Q:728:THR:CG2	3.02	0.42
1:S:395:LEU:HD23	1:S:647:LEU:HD23	2.00	0.42
1:W:371:MET:SD	1:t:661:PHE:HA	2.59	0.42
1:5:296:TRP:CZ2	1:5:728:THR:CG2	3.02	0.42
1:5:432:ARG:NH2	1:h:269:ASP:O	2.51	0.42
1:b:488:VAL:HG12	1:l:460:LEU:HD21	1.99	0.42
1:d:407:ASN:HD21	1:g:224:SER:H	1.65	0.42
1:d:484:ARG:HD3	1:z:580:SER:O	2.19	0.42
1:d:587:ASN:HB3	3:dl:87:ARG:HH12	1.83	0.42
1:e:580:SER:O	1:y:484:ARG:HD3	2.19	0.42
1:f:296:TRP:CZ2	1:f:728:THR:CG2	3.02	0.42
1:f:448:THR:HG23	1:j:501:SER:HB2	2.00	0.42
1:h:296:TRP:CZ2	1:h:728:THR:CG2	3.02	0.42
1:k:587:ASN:HB3	3:kl:87:ARG:HH12	1.83	0.42
1:o:587:ASN:HB3	3:ol:87:ARG:HH12	1.83	0.42
1:r:296:TRP:CZ2	1:r:728:THR:CG2	3.02	0.42
1:r:444:TYR:OH	1:r:469:ASP:OD2	2.21	0.42
1:x:587:ASN:HB3	3:xl:87:ARG:HH12	1.83	0.42
2:Fh:88:THR:CB	2:Fh:101:GLN:HE21	2.31	0.42
2:Gh:39:LEU:CD1	2:Gh:102:MET:HE2	2.49	0.42
2:Gh:121:GLN:HG3	2:Gh:135:TYR:CD2	2.54	0.42
2:Hh:50:SER:O	2:Hh:51:TYR:CD2	2.72	0.42
2:Jh:39:LEU:CD1	2:Jh:102:MET:HE2	2.49	0.42
2:Mh:39:LEU:HD12	2:Mh:102:MET:HE2	2.02	0.42
2:Nh:64:LEU:HD21	3:Nl:65:PRO:CG	2.49	0.42
2:Qh:95:LYS:HD3	2:Qh:99:TYR:OH	2.19	0.42
2:Rh:39:LEU:CD1	2:Rh:102:MET:HE2	2.49	0.42
2:Sh:95:LYS:HD3	2:Sh:99:TYR:OH	2.19	0.42
2:Th:39:LEU:HD12	2:Th:102:MET:HE2	2.02	0.42
2:Th:50:SER:O	2:Th:51:TYR:CD2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Uh:53:MET:HB3	2:Uh:98:LEU:CD2	2.35	0.42
2:Xh:50:SER:O	2:Xh:51:TYR:CD2	2.72	0.42
2:1h:48:PHE:O	2:1h:91:ARG:NH2	2.48	0.42
2:1h:64:LEU:HD21	3:1l:65:PRO:CG	2.49	0.42
2:2h:50:SER:O	2:2h:51:TYR:CD2	2.72	0.42
2:3h:88:THR:CB	2:3h:101:GLN:HE21	2.31	0.42
2:3h:100:LEU:HD21	2:3h:113:TYR:CE1	2.53	0.42
2:6h:50:SER:O	2:6h:51:TYR:CD2	2.72	0.42
2:bh:39:LEU:HD12	2:bh:102:MET:HE2	2.02	0.42
2:bh:100:LEU:HD21	2:bh:113:TYR:CE1	2.53	0.42
2:ch:95:LYS:HD3	2:ch:99:TYR:OH	2.19	0.42
2:gh:39:LEU:HD12	2:gh:102:MET:HE2	2.02	0.42
2:gh:48:PHE:O	2:gh:91:ARG:NH2	2.48	0.42
2:gh:50:SER:O	2:gh:51:TYR:CD2	2.72	0.42
2:ih:50:SER:O	2:ih:51:TYR:CD2	2.72	0.42
2:jh:39:LEU:CD1	2:jh:102:MET:CE	2.96	0.42
2:jh:50:SER:O	2:jh:51:TYR:CD2	2.73	0.42
2:jh:95:LYS:HD3	2:jh:99:TYR:OH	2.19	0.42
2:kh:39:LEU:CD1	2:kh:102:MET:HE2	2.49	0.42
2:lh:95:LYS:HD3	2:lh:99:TYR:OH	2.19	0.42
2:mh:64:LEU:HD21	3:ml:65:PRO:CG	2.48	0.42
2:oh:39:LEU:CD1	2:oh:102:MET:HE2	2.49	0.42
2:oh:121:GLN:HG3	2:oh:135:TYR:CD2	2.54	0.42
2:ph:129:ALA:HA	2:ph:130:PRO:HD3	1.80	0.42
2:wh:21:VAL:HG11	2:wh:139:VAL:HG21	2.01	0.42
2:wh:39:LEU:CD1	2:wh:102:MET:HE2	2.49	0.42
2:wh:95:LYS:HD3	2:wh:99:TYR:OH	2.19	0.42
2:yh:50:SER:O	2:yh:51:TYR:CD2	2.72	0.42
2:yh:95:LYS:HD3	2:yh:99:TYR:OH	2.19	0.42
3:Pl:59:GLN:C	3:Pl:105:ALA:HB1	2.43	0.42
3:Tl:60:LEU:HD23	3:Tl:105:ALA:CB	2.34	0.42
3:Wl:109:CYS:O	3:Wl:121:GLY:N	2.53	0.42
3:Xl:75:ARG:HA	3:Xl:76:PRO:HD3	1.78	0.42
3:3l:107:TYR:CD2	3:3l:126:VAL:HG23	2.53	0.42
3:5l:107:TYR:CD2	3:5l:126:VAL:HG23	2.53	0.42
3:cl:109:CYS:O	3:cl:121:GLY:N	2.53	0.42
3:hl:33:THR:CG2	3:hl:34:PRO:HD2	2.31	0.42
3:il:31:SER:CB	3:il:127:THR:OG1	2.60	0.42
3:pl:109:CYS:O	3:pl:121:GLY:N	2.53	0.42
3:xl:75:ARG:HA	3:xl:76:PRO:HD3	1.78	0.42
3:xl:109:CYS:O	3:xl:121:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:zl:107:TYR:CE2	3:zl:126:VAL:HG22	2.46	0.42
3:zl:109:CYS:O	3:zl:121:GLY:N	2.53	0.42
1:B:432:ARG:NH2	1:O:269:ASP:O	2.50	0.42
1:B:449:ASN:HA	1:B:459:ARG:H	1.84	0.42
1:D:460:LEU:HD21	1:H:488:VAL:HG12	2.00	0.42
1:G:294:ARG:NE	1:6:697:GLU:HG3	2.35	0.42
1:G:449:ASN:HA	1:G:459:ARG:H	1.84	0.42
1:I:501:SER:HB2	1:i:448:THR:HG23	2.00	0.42
1:I:580:SER:O	1:v:484:ARG:HD3	2.20	0.42
1:K:449:ASN:HA	1:K:459:ARG:H	1.84	0.42
1:K:580:SER:O	1:m:484:ARG:HD3	2.20	0.42
1:L:237:ASP:OD1	1:L:237:ASP:N	2.34	0.42
1:N:404:ARG:H	1:N:407:ASN:ND2	2.12	0.42
1:P:448:THR:HG23	1:c:501:SER:HB2	2.00	0.42
1:P:587:ASN:HB3	3:Pl:87:ARG:HH12	1.83	0.42
1:Q:224:SER:H	1:W:407:ASN:HD21	1.65	0.42
1:Q:395:LEU:HD23	1:Q:647:LEU:HD23	2.00	0.42
1:Q:488:VAL:HG12	1:b:460:LEU:HD21	1.99	0.42
1:U:296:TRP:CZ2	1:U:728:THR:CG2	3.02	0.42
1:U:449:ASN:HA	1:U:459:ARG:H	1.84	0.42
1:U:484:ARG:HD3	1:x:580:SER:O	2.20	0.42
1:1:224:SER:H	1:o:407:ASN:HD21	1.66	0.42
1:2:449:ASN:HA	1:2:459:ARG:H	1.84	0.42
1:3:296:TRP:CZ2	1:3:728:THR:CG2	3.02	0.42
1:6:449:ASN:HA	1:6:459:ARG:H	1.84	0.42
1:b:501:SER:HB2	1:l:448:THR:HG23	2.00	0.42
1:f:269:ASP:O	1:u:432:ARG:NH2	2.50	0.42
1:m:296:TRP:CZ2	1:m:728:THR:CG2	3.02	0.42
1:m:404:ARG:H	1:m:407:ASN:ND2	2.12	0.42
1:s:584:GLN:HE21	1:s:584:GLN:HB3	1.68	0.42
1:u:449:ASN:HA	1:u:459:ARG:H	1.84	0.42
1:w:449:ASN:HA	1:w:459:ARG:H	1.84	0.42
1:x:449:ASN:HA	1:x:459:ARG:H	1.84	0.42
2:Ch:50:SER:O	2:Ch:51:TYR:CD2	2.72	0.42
2:Dh:39:LEU:CD1	2:Dh:102:MET:CE	2.96	0.42
2:Dh:39:LEU:CD1	2:Dh:102:MET:HE2	2.49	0.42
2:Gh:21:VAL:HG11	2:Gh:139:VAL:HG21	2.01	0.42
2:Hh:39:LEU:HD12	2:Hh:102:MET:HE2	2.02	0.42
2:Jh:50:SER:O	2:Jh:51:TYR:CD2	2.72	0.42
2:Jh:64:LEU:HD21	3:Jl:65:PRO:CG	2.48	0.42
2:Kh:95:LYS:HD3	2:Kh:99:TYR:OH	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Mh:21:VAL:HG11	2:Mh:139:VAL:HG21	2.00	0.42
2:Mh:100:LEU:HD21	2:Mh:113:TYR:CE1	2.53	0.42
2:Oh:50:SER:O	2:Oh:51:TYR:CD2	2.72	0.42
2:Uh:50:SER:O	2:Uh:51:TYR:CD2	2.72	0.42
2:Vh:39:LEU:CD1	2:Vh:102:MET:CE	2.96	0.42
2:Vh:64:LEU:HD21	3:Vl:65:PRO:CG	2.48	0.42
2:Vh:88:THR:CB	2:Vh:101:GLN:HE21	2.31	0.42
2:Zh:50:SER:O	2:Zh:51:TYR:CD2	2.72	0.42
2:1h:39:LEU:CD1	2:1h:102:MET:HE2	2.49	0.42
2:1h:95:LYS:HD3	2:1h:99:TYR:OH	2.19	0.42
2:1h:128:LYS:N	2:1h:128:LYS:CD	2.73	0.42
2:4h:88:THR:CG2	2:4h:101:GLN:HE21	2.23	0.42
2:5h:21:VAL:HG11	2:5h:139:VAL:HG21	2.01	0.42
2:5h:88:THR:CB	2:5h:101:GLN:HE21	2.31	0.42
2:bh:21:VAL:HG11	2:bh:139:VAL:HG21	2.00	0.42
2:bh:39:LEU:CD1	2:bh:102:MET:HE2	2.49	0.42
2:eh:21:VAL:HG11	2:eh:139:VAL:HG21	2.00	0.42
2:eh:39:LEU:CD1	2:eh:102:MET:CE	2.96	0.42
2:eh:39:LEU:CD1	2:eh:102:MET:HE2	2.49	0.42
2:fh:95:LYS:HD3	2:fh:99:TYR:OH	2.19	0.42
2:hh:72:TYR:CA	2:hh:91:ARG:NH1	2.73	0.42
2:ih:21:VAL:HG11	2:ih:139:VAL:HG21	2.00	0.42
2:jh:64:LEU:HD21	3:jl:65:PRO:CG	2.49	0.42
2:kh:39:LEU:HD12	2:kh:102:MET:HE2	2.01	0.42
2:mh:50:SER:O	2:mh:51:TYR:CD2	2.72	0.42
2:mh:53:MET:HB3	2:mh:98:LEU:CD2	2.35	0.42
2:nh:21:VAL:HG11	2:nh:139:VAL:HG21	2.00	0.42
2:nh:39:LEU:HD12	2:nh:102:MET:HE2	2.01	0.42
2:nh:39:LEU:CD1	2:nh:102:MET:HE2	2.49	0.42
2:nh:121:GLN:HG3	2:nh:135:TYR:CD2	2.54	0.42
2:qh:72:TYR:CA	2:qh:91:ARG:NH1	2.73	0.42
2:rh:50:SER:O	2:rh:51:TYR:CD2	2.72	0.42
2:rh:72:TYR:CA	2:rh:91:ARG:NH1	2.73	0.42
2:sh:88:THR:CB	2:sh:101:GLN:HE21	2.31	0.42
2:vh:50:SER:O	2:vh:51:TYR:CD2	2.72	0.42
2:wh:48:PHE:O	2:wh:91:ARG:NH2	2.48	0.42
2:wh:64:LEU:HD21	3:wl:65:PRO:CG	2.49	0.42
2:xh:95:LYS:HD3	2:xh:99:TYR:OH	2.19	0.42
2:yh:39:LEU:HD12	2:yh:102:MET:HE2	2.02	0.42
2:zh:121:GLN:HG3	2:zh:135:TYR:CD2	2.54	0.42
2:8h:50:SER:O	2:8h:51:TYR:CD2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Al:107:TYR:CD2	3:Al:126:VAL:HG23	2.53	0.42
3:El:109:CYS:O	3:El:121:GLY:N	2.53	0.42
3:Gl:31:SER:CB	3:Gl:127:THR:OG1	2.60	0.42
3:Nl:109:CYS:O	3:Nl:121:GLY:N	2.53	0.42
3:Pl:99:LEU:HD12	3:Pl:99:LEU:HA	1.78	0.42
3:Yl:109:CYS:O	3:Yl:121:GLY:N	2.53	0.42
3:cl:69:ILE:HD13	3:cl:75:ARG:HG2	1.99	0.42
3:gl:115:SER:HA	3:gl:116:PRO:HD2	1.64	0.42
3:jl:59:GLN:C	3:jl:105:ALA:HB1	2.43	0.42
3:kl:109:CYS:O	3:kl:121:GLY:N	2.53	0.42
3:nl:109:CYS:O	3:nl:121:GLY:N	2.53	0.42
3:pl:75:ARG:HA	3:pl:76:PRO:HD3	1.78	0.42
3:ql:109:CYS:O	3:ql:121:GLY:N	2.53	0.42
3:tl:125:LYS:N	3:tl:125:LYS:CD	2.73	0.42
3:yl:109:CYS:O	3:yl:121:GLY:N	2.53	0.42
3:7l:109:CYS:O	3:7l:121:GLY:N	2.53	0.42
1:B:371:MET:SD	1:Z:661:PHE:HA	2.59	0.42
1:C:371:MET:SD	1:7:661:PHE:HA	2.60	0.42
1:E:434:MET:H	1:E:434:MET:HG2	1.68	0.42
1:E:661:PHE:HA	1:L:371:MET:SD	2.60	0.42
1:H:449:ASN:HA	1:H:459:ARG:H	1.84	0.42
1:J:371:MET:SD	1:i:661:PHE:HA	2.60	0.42
1:J:484:ARG:HD3	1:o:580:SER:O	2.20	0.42
1:M:580:SER:O	1:r:484:ARG:HD3	2.20	0.42
1:N:501:SER:HB2	1:d:448:THR:HG23	2.00	0.42
1:O:448:THR:HG23	1:V:501:SER:HB2	2.00	0.42
1:R:449:ASN:HA	1:R:459:ARG:H	1.84	0.42
1:X:661:PHE:HA	1:v:371:MET:SD	2.60	0.42
1:Y:661:PHE:HA	1:a:371:MET:SD	2.60	0.42
1:1:484:ARG:HD3	1:6:580:SER:O	2.19	0.42
1:5:371:MET:SD	1:x:661:PHE:HA	2.60	0.42
1:b:371:MET:SD	1:p:661:PHE:HA	2.59	0.42
1:k:395:LEU:HD23	1:k:647:LEU:HD23	2.00	0.42
1:l:296:TRP:CZ2	1:l:728:THR:CG2	3.02	0.42
1:m:449:ASN:HA	1:m:459:ARG:H	1.84	0.42
1:n:449:ASN:HA	1:n:459:ARG:H	1.84	0.42
1:q:661:PHE:HA	1:t:371:MET:SD	2.60	0.42
1:r:395:LEU:HD23	1:r:647:LEU:HD23	2.00	0.42
1:u:404:ARG:H	1:u:407:ASN:ND2	2.12	0.42
1:y:449:ASN:HA	1:y:459:ARG:H	1.84	0.42
1:7:449:ASN:HA	1:7:459:ARG:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ah:39:LEU:HD12	2:Ah:102:MET:HE2	2.02	0.42
2:Gh:39:LEU:HD12	2:Gh:102:MET:HE2	2.02	0.42
2:Hh:39:LEU:CD1	2:Hh:102:MET:HE2	2.49	0.42
2:Ih:39:LEU:HD12	2:Ih:102:MET:HE2	2.02	0.42
2:Ih:121:GLN:HG3	2:Ih:135:TYR:CD2	2.54	0.42
2:Mh:39:LEU:CD1	2:Mh:102:MET:HE2	2.49	0.42
2:Oh:39:LEU:HD12	2:Oh:102:MET:HE2	2.02	0.42
2:Ph:39:LEU:HD12	2:Ph:102:MET:HE2	2.02	0.42
2:Ph:39:LEU:CD1	2:Ph:102:MET:HE2	2.49	0.42
2:Qh:50:SER:O	2:Qh:51:TYR:CD2	2.72	0.42
2:Rh:39:LEU:HD12	2:Rh:102:MET:HE2	2.01	0.42
2:Rh:50:SER:O	2:Rh:51:TYR:CD2	2.72	0.42
2:Vh:95:LYS:HD3	2:Vh:99:TYR:OH	2.19	0.42
2:Xh:21:VAL:HG11	2:Xh:139:VAL:HG21	2.00	0.42
2:Yh:39:LEU:CD1	2:Yh:102:MET:HE2	2.49	0.42
2:1h:21:VAL:HG11	2:1h:139:VAL:HG21	2.01	0.42
2:1h:72:TYR:CA	2:1h:91:ARG:NH1	2.73	0.42
2:ah:50:SER:O	2:ah:51:TYR:CD2	2.72	0.42
2:ah:129:ALA:HA	2:ah:130:PRO:HD3	1.80	0.42
2:dh:39:LEU:CD1	2:dh:102:MET:HE2	2.49	0.42
2:dh:48:PHE:O	2:dh:91:ARG:NH2	2.48	0.42
2:fh:39:LEU:HD12	2:fh:102:MET:HE2	2.02	0.42
2:fh:50:SER:O	2:fh:51:TYR:CD2	2.73	0.42
2:hh:101:GLN:HE21	2:hh:101:GLN:HB2	1.62	0.42
2:hh:121:GLN:HG3	2:hh:135:TYR:CD2	2.54	0.42
2:kh:50:SER:O	2:kh:51:TYR:CD2	2.72	0.42
2:lh:88:THR:CB	2:lh:101:GLN:HE21	2.31	0.42
2:oh:95:LYS:HD3	2:oh:99:TYR:OH	2.19	0.42
2:ph:39:LEU:HD12	2:ph:102:MET:HE2	2.01	0.42
2:uh:39:LEU:HD12	2:uh:102:MET:HE2	2.01	0.42
2:vh:64:LEU:HD21	3:vl:65:PRO:CG	2.48	0.42
2:7h:39:LEU:CD1	2:7h:102:MET:HE2	2.49	0.42
2:8h:95:LYS:HD3	2:8h:99:TYR:OH	2.19	0.42
3:Al:109:CYS:O	3:Al:121:GLY:N	2.53	0.42
3:Dl:107:TYR:CD2	3:Dl:126:VAL:HG23	2.53	0.42
3:Gl:59:GLN:C	3:Gl:105:ALA:HB1	2.43	0.42
3:Gl:107:TYR:HE2	3:Gl:126:VAL:HG22	1.64	0.42
3:Gl:109:CYS:O	3:Gl:121:GLY:N	2.53	0.42
3:Hl:109:CYS:O	3:Hl:121:GLY:N	2.53	0.42
3:Rl:109:CYS:O	3:Rl:121:GLY:N	2.53	0.42
3:Ul:107:TYR:CD2	3:Ul:126:VAL:HG23	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ul:109:CYS:O	3:Ul:121:GLY:N	2.53	0.42
3:Wl:99:LEU:HD12	3:Wl:99:LEU:HA	1.78	0.42
3:3l:109:CYS:O	3:3l:121:GLY:N	2.53	0.42
3:4l:33:THR:CG2	3:4l:34:PRO:HD2	2.31	0.42
3:4l:75:ARG:HA	3:4l:76:PRO:HD3	1.78	0.42
3:5l:109:CYS:O	3:5l:121:GLY:N	2.53	0.42
3:bl:99:LEU:HD12	3:bl:99:LEU:HA	1.78	0.42
3:cl:100:GLN:NE2	3:cl:100:GLN:CA	2.73	0.42
3:dl:59:GLN:C	3:dl:105:ALA:HB1	2.43	0.42
3:dl:99:LEU:HD12	3:dl:99:LEU:HA	1.78	0.42
3:el:115:SER:HA	3:el:116:PRO:HD2	1.64	0.42
3:gl:60:LEU:HD23	3:gl:105:ALA:CB	2.34	0.42
3:hl:109:CYS:O	3:hl:121:GLY:N	2.53	0.42
3:il:107:TYR:CE2	3:il:126:VAL:HG22	2.46	0.42
3:ml:107:TYR:CD2	3:ml:126:VAL:HG23	2.53	0.42
3:ml:109:CYS:O	3:ml:121:GLY:N	2.53	0.42
3:nl:31:SER:CB	3:nl:127:THR:OG1	2.61	0.42
3:tl:99:LEU:HD12	3:tl:99:LEU:HA	1.78	0.42
3:ul:31:SER:CB	3:ul:127:THR:OG1	2.61	0.42
1:D:618:TRP:CZ2	1:D:643:PRO:HG2	2.55	0.42
1:D:661:PHE:HA	1:I:371:MET:SD	2.60	0.42
1:H:404:ARG:H	1:H:407:ASN:ND2	2.12	0.42
1:M:501:SER:HB2	1:S:448:THR:HG23	2.00	0.42
1:P:449:ASN:HA	1:P:459:ARG:H	1.84	0.42
1:Q:484:ARG:HD3	1:b:580:SER:O	2.20	0.42
1:R:395:LEU:HD23	1:R:647:LEU:HD23	2.00	0.42
1:S:296:TRP:CZ2	1:S:728:THR:CG2	3.02	0.42
1:Y:449:ASN:HA	1:Y:459:ARG:H	1.84	0.42
1:1:449:ASN:HA	1:1:459:ARG:H	1.84	0.42
1:2:661:PHE:HA	1:8:371:MET:SD	2.60	0.42
1:b:296:TRP:CZ2	1:b:728:THR:CG2	3.02	0.42
1:e:460:LEU:HD21	1:y:488:VAL:HG12	2.00	0.42
1:e:618:TRP:CZ2	1:e:643:PRO:HG2	2.55	0.42
1:k:580:SER:O	1:8:484:ARG:HD3	2.19	0.42
1:r:371:MET:SD	1:z:661:PHE:HA	2.60	0.42
2:Bh:39:LEU:HD12	2:Bh:102:MET:HE2	2.01	0.42
2:Dh:21:VAL:HG11	2:Dh:139:VAL:HG21	2.00	0.42
2:Dh:77:LYS:HE2	2:Dh:77:LYS:HB2	1.92	0.42
2:Ih:95:LYS:HD3	2:Ih:99:TYR:OH	2.19	0.42
2:Nh:39:LEU:CD1	2:Nh:102:MET:HE2	2.49	0.42
2:Th:48:PHE:O	2:Th:91:ARG:NH2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1h:50:SER:O	2:1h:51:TYR:CD2	2.72	0.42
2:5h:128:LYS:N	2:5h:128:LYS:CD	2.73	0.42
2:6h:39:LEU:CD1	2:6h:102:MET:HE2	2.49	0.42
2:ch:39:LEU:CD1	2:ch:102:MET:HE2	2.49	0.42
2:dh:39:LEU:HD12	2:dh:102:MET:HE2	2.02	0.42
2:eh:129:ALA:HA	2:eh:130:PRO:HD3	1.80	0.42
2:ih:39:LEU:CD1	2:ih:102:MET:HE2	2.49	0.42
2:jh:88:THR:CB	2:jh:101:GLN:HE21	2.31	0.42
2:wh:72:TYR:CA	2:wh:91:ARG:NH1	2.73	0.42
2:yh:39:LEU:CD1	2:yh:102:MET:HE2	2.49	0.42
3:Bl:109:CYS:O	3:Bl:121:GLY:N	2.53	0.42
3:Dl:109:CYS:O	3:Dl:121:GLY:N	2.53	0.42
3:Il:125:LYS:N	3:Il:125:LYS:CD	2.73	0.42
3:Pl:79:VAL:HA	3:Pl:80:PRO:HD3	1.80	0.42
3:Xl:31:SER:CB	3:Xl:127:THR:OG1	2.60	0.42
3:4l:109:CYS:O	3:4l:121:GLY:N	2.53	0.42
3:el:109:CYS:O	3:el:121:GLY:N	2.53	0.42
3:hl:75:ARG:HA	3:hl:76:PRO:HD3	1.78	0.42
1:A:587:ASN:ND2	3:Al:87:ARG:NH1	2.67	0.42
1:B:661:PHE:HA	1:P:371:MET:SD	2.59	0.42
1:E:371:MET:SD	1:4:661:PHE:HA	2.60	0.42
1:H:371:MET:SD	1:R:661:PHE:HA	2.59	0.42
1:K:618:TRP:CZ2	1:K:643:PRO:HG2	2.55	0.42
1:M:296:TRP:CZ2	1:M:728:THR:CG2	3.02	0.42
1:M:484:ARG:HD3	1:S:580:SER:O	2.19	0.42
1:N:371:MET:SD	1:S:661:PHE:HA	2.59	0.42
1:O:449:ASN:HA	1:O:459:ARG:H	1.84	0.42
1:Q:371:MET:SD	1:W:661:PHE:HA	2.60	0.42
1:Q:444:TYR:OH	1:Q:469:ASP:OD2	2.21	0.42
1:R:618:TRP:CZ2	1:R:643:PRO:HG2	2.55	0.42
1:S:488:VAL:HG12	1:r:460:LEU:HD21	2.00	0.42
1:a:587:ASN:HB3	3:al:87:ARG:HH12	1.83	0.42
1:b:365:PHE:HA	1:b:366:PRO:HD3	1.93	0.42
1:c:371:MET:SD	1:l:661:PHE:HA	2.59	0.42
1:c:404:ARG:H	1:c:407:ASN:ND2	2.12	0.42
1:d:371:MET:SD	1:u:661:PHE:HA	2.59	0.42
1:d:449:ASN:HA	1:d:459:ARG:H	1.84	0.42
1:e:661:PHE:HA	1:o:371:MET:SD	2.60	0.42
1:h:661:PHE:HA	1:q:371:MET:SD	2.60	0.42
1:k:449:ASN:HA	1:k:459:ARG:H	1.84	0.42
1:k:618:TRP:CZ2	1:k:643:PRO:HG2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:661:PHE:HA	1:y:371:MET:SD	2.59	0.42
1:u:371:MET:SD	1:8:661:PHE:HA	2.60	0.42
1:w:584:GLN:HE21	1:w:584:GLN:HB3	1.68	0.42
1:x:618:TRP:CZ2	1:x:643:PRO:HG2	2.55	0.42
2:Ah:50:SER:O	2:Ah:51:TYR:CD2	2.72	0.42
2:Dh:129:ALA:HA	2:Dh:130:PRO:HD3	1.80	0.42
2:Eh:72:TYR:CA	2:Eh:91:ARG:NH1	2.73	0.42
2:Eh:95:LYS:HD3	2:Eh:99:TYR:OH	2.19	0.42
2:Lh:50:SER:O	2:Lh:51:TYR:CD2	2.72	0.42
2:Nh:39:LEU:HD12	2:Nh:102:MET:HE2	2.02	0.42
2:Oh:39:LEU:CD1	2:Oh:102:MET:HE2	2.49	0.42
2:Oh:95:LYS:HD3	2:Oh:99:TYR:OH	2.19	0.42
2:Ph:48:PHE:O	2:Ph:91:ARG:NH2	2.48	0.42
2:Qh:39:LEU:CD1	2:Qh:102:MET:HE2	2.49	0.42
2:Qh:72:TYR:CA	2:Qh:91:ARG:NH1	2.73	0.42
2:Sh:39:LEU:CD1	2:Sh:102:MET:HE2	2.49	0.42
2:Uh:21:VAL:HG11	2:Uh:139:VAL:HG21	2.01	0.42
2:Vh:21:VAL:HG11	2:Vh:139:VAL:HG21	2.01	0.42
2:Vh:101:GLN:HE21	2:Vh:101:GLN:HB2	1.62	0.42
2:Wh:121:GLN:HG3	2:Wh:135:TYR:CD2	2.54	0.42
2:Xh:39:LEU:CD1	2:Xh:102:MET:HE2	2.49	0.42
2:Xh:95:LYS:HD3	2:Xh:99:TYR:OH	2.19	0.42
2:Zh:57:ARG:HG3	2:Zh:113:TYR:CZ	2.49	0.42
2:Zh:95:LYS:HD3	2:Zh:99:TYR:OH	2.19	0.42
2:2h:39:LEU:CD1	2:2h:102:MET:HE2	2.49	0.42
2:3h:39:LEU:HG	2:3h:102:MET:HE3	2.00	0.42
2:4h:121:GLN:HG3	2:4h:135:TYR:CD2	2.54	0.42
2:5h:39:LEU:HD12	2:5h:102:MET:HE2	2.01	0.42
2:ch:39:LEU:HD12	2:ch:102:MET:HE2	2.02	0.42
2:eh:50:SER:O	2:eh:51:TYR:CD2	2.72	0.42
2:fh:39:LEU:CD1	2:fh:102:MET:HE2	2.49	0.42
2:hh:21:VAL:HG11	2:hh:139:VAL:HG21	2.01	0.42
2:jh:21:VAL:HG11	2:jh:139:VAL:HG21	2.00	0.42
2:oh:39:LEU:HD12	2:oh:102:MET:HE2	2.02	0.42
2:qh:95:LYS:HD3	2:qh:99:TYR:OH	2.19	0.42
2:sh:39:LEU:CD1	2:sh:102:MET:HE2	2.49	0.42
2:wh:50:SER:O	2:wh:51:TYR:CD2	2.72	0.42
2:xh:48:PHE:O	2:xh:91:ARG:NH2	2.48	0.42
3:Il:125:LYS:HD2	3:Il:125:LYS:H	1.83	0.42
3:Ll:75:ARG:HA	3:Ll:76:PRO:HD3	1.78	0.42
3:Pl:75:ARG:HA	3:Pl:76:PRO:HD3	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Sl:109:CYS:O	3:Sl:121:GLY:N	2.53	0.42
3:Tl:115:SER:HA	3:Tl:116:PRO:HD2	1.64	0.42
3:Yl:60:LEU:HD23	3:Yl:105:ALA:CB	2.34	0.42
3:2l:27:PRO:O	3:2l:124:THR:OG1	2.22	0.42
3:6l:69:ILE:HD13	3:6l:75:ARG:HG2	1.99	0.42
3:fl:109:CYS:O	3:fl:121:GLY:N	2.53	0.42
3:il:31:SER:HB3	3:il:127:THR:HG1	1.81	0.42
3:ql:100:GLN:NE2	3:ql:100:GLN:CA	2.73	0.42
3:ul:109:CYS:O	3:ul:121:GLY:N	2.53	0.42
1:C:580:SER:O	1:R:484:ARG:HD3	2.19	0.42
1:C:587:ASN:HB3	3:Cl:87:ARG:HH12	1.83	0.42
1:E:404:ARG:H	1:E:407:ASN:ND2	2.12	0.42
1:F:618:TRP:CZ2	1:F:643:PRO:HG2	2.55	0.42
1:G:584:GLN:HE21	1:G:584:GLN:HB3	1.68	0.42
1:I:618:TRP:CZ2	1:I:643:PRO:HG2	2.55	0.42
1:J:618:TRP:CZ2	1:J:643:PRO:HG2	2.55	0.42
1:K:661:PHE:HA	1:3:371:MET:SD	2.60	0.42
1:O:580:SER:O	1:V:484:ARG:HD3	2.20	0.42
1:R:580:SER:O	1:Z:484:ARG:HD3	2.19	0.42
1:S:618:TRP:CZ2	1:S:643:PRO:HG2	2.55	0.42
1:U:580:SER:O	1:q:484:ARG:HD3	2.19	0.42
1:W:618:TRP:CZ2	1:W:643:PRO:HG2	2.55	0.42
1:1:618:TRP:CZ2	1:1:643:PRO:HG2	2.55	0.42
1:4:618:TRP:CZ2	1:4:643:PRO:HG2	2.55	0.42
1:6:296:TRP:CZ2	1:6:728:THR:CG2	3.02	0.42
1:b:484:ARG:HD3	1:l:580:SER:O	2.19	0.42
1:g:584:GLN:HE21	1:g:584:GLN:HB3	1.68	0.42
1:h:618:TRP:CZ2	1:h:643:PRO:HG2	2.55	0.42
1:j:580:SER:O	1:u:484:ARG:HD3	2.19	0.42
1:l:618:TRP:CZ2	1:l:643:PRO:HG2	2.55	0.42
1:o:618:TRP:CZ2	1:o:643:PRO:HG2	2.55	0.42
1:p:395:LEU:HD23	1:p:647:LEU:HD23	2.00	0.42
1:v:618:TRP:CZ2	1:v:643:PRO:HG2	2.55	0.42
1:w:618:TRP:CZ2	1:w:643:PRO:HG2	2.55	0.42
1:y:404:ARG:H	1:y:407:ASN:ND2	2.12	0.42
1:z:618:TRP:CZ2	1:z:643:PRO:HG2	2.55	0.42
2:Ah:95:LYS:HD3	2:Ah:99:TYR:OH	2.19	0.42
2:Ch:129:ALA:HA	2:Ch:130:PRO:HD3	1.80	0.42
2:Dh:50:SER:O	2:Dh:51:TYR:CD2	2.72	0.42
2:Fh:39:LEU:CD1	2:Fh:102:MET:HE2	2.49	0.42
2:Oh:39:LEU:HG	2:Oh:102:MET:HE3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ph:64:LEU:HD21	3:Pl:65:PRO:CG	2.49	0.42
2:Vh:48:PHE:O	2:Vh:91:ARG:NH2	2.48	0.42
2:Yh:50:SER:O	2:Yh:51:TYR:CD2	2.72	0.42
2:3h:39:LEU:HD12	2:3h:102:MET:HE2	2.01	0.42
2:3h:128:LYS:N	2:3h:128:LYS:CD	2.73	0.42
2:ah:39:LEU:HD12	2:ah:102:MET:HE2	2.02	0.42
2:dh:50:SER:O	2:dh:51:TYR:CD2	2.72	0.42
2:dh:64:LEU:HD21	3:dl:65:PRO:CG	2.48	0.42
2:fh:39:LEU:HG	2:fh:102:MET:HE3	2.00	0.42
2:gh:129:ALA:HA	2:gh:130:PRO:HD3	1.80	0.42
2:hh:88:THR:CG2	2:hh:101:GLN:HE21	2.23	0.42
2:ih:95:LYS:HD3	2:ih:99:TYR:OH	2.19	0.42
2:mh:21:VAL:HG11	2:mh:139:VAL:HG21	2.01	0.42
2:ph:50:SER:O	2:ph:51:TYR:CD2	2.72	0.42
2:ph:95:LYS:HD3	2:ph:99:TYR:OH	2.19	0.42
2:rh:39:LEU:CD1	2:rh:102:MET:HE2	2.49	0.42
2:sh:95:LYS:HD3	2:sh:99:TYR:OH	2.19	0.42
2:th:50:SER:O	2:th:51:TYR:CD2	2.72	0.42
2:zh:50:SER:O	2:zh:51:TYR:CD2	2.72	0.42
2:zh:88:THR:CB	2:zh:101:GLN:HE21	2.31	0.42
3:Ll:109:CYS:O	3:Ll:121:GLY:N	2.53	0.42
3:Ll:125:LYS:N	3:Ll:125:LYS:CD	2.73	0.42
3:Ml:125:LYS:HD2	3:Ml:125:LYS:H	1.83	0.42
3:Ol:107:TYR:CD2	3:Ol:126:VAL:HG23	2.53	0.42
3:Pl:107:TYR:CD2	3:Pl:126:VAL:HG23	2.53	0.42
3:Tl:125:LYS:HD2	3:Tl:125:LYS:H	1.83	0.42
3:Xl:31:SER:HB3	3:Xl:127:THR:HG1	1.81	0.42
3:2l:69:ILE:HD13	3:2l:75:ARG:HG2	2.00	0.42
3:bl:109:CYS:O	3:bl:121:GLY:N	2.53	0.42
3:dl:109:CYS:O	3:dl:121:GLY:N	2.53	0.42
3:hl:107:TYR:CD2	3:hl:126:VAL:HG23	2.53	0.42
3:kl:31:SER:CB	3:kl:127:THR:OG1	2.61	0.42
3:ll:109:CYS:O	3:ll:121:GLY:N	2.53	0.42
3:ol:59:GLN:C	3:ol:105:ALA:HB1	2.43	0.42
3:ol:125:LYS:HD2	3:ol:125:LYS:H	1.83	0.42
3:tl:75:ARG:HA	3:tl:76:PRO:HD3	1.78	0.42
3:tl:109:CYS:O	3:tl:121:GLY:N	2.53	0.42
3:zl:79:VAL:HA	3:zl:80:PRO:HD3	1.80	0.42
1:A:395:LEU:HD23	1:A:647:LEU:HD23	2.00	0.42
1:A:618:TRP:CZ2	1:A:643:PRO:HG2	2.55	0.42
1:B:484:ARG:HD3	1:V:580:SER:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:ARG:H	1:C:407:ASN:ND2	2.12	0.42
1:D:501:SER:HB2	1:7:448:THR:HG23	2.00	0.42
1:G:661:PHE:HA	1:U:371:MET:SD	2.60	0.42
1:L:618:TRP:CZ2	1:L:643:PRO:HG2	2.55	0.42
1:N:618:TRP:CZ2	1:N:643:PRO:HG2	2.55	0.42
1:Q:460:LEU:HD21	1:l:488:VAL:HG12	2.00	0.42
1:Q:580:SER:O	1:l:484:ARG:HD3	2.20	0.42
1:S:484:ARG:HD3	1:r:580:SER:O	2.20	0.42
1:W:304:TRP:C	1:W:423:SER:HG	2.26	0.42
1:Y:448:THR:HG23	1:e:501:SER:HB2	2.00	0.42
1:Z:434:MET:H	1:Z:434:MET:HG2	1.69	0.42
1:2:296:TRP:CZ2	1:2:728:THR:CG2	3.02	0.42
1:3:432:ARG:NH2	1:4:269:ASP:O	2.51	0.42
1:6:434:MET:H	1:6:434:MET:HG2	1.69	0.42
1:a:404:ARG:H	1:a:407:ASN:ND2	2.12	0.42
1:a:580:SER:O	1:k:484:ARG:HD3	2.19	0.42
1:c:449:ASN:HA	1:c:459:ARG:H	1.84	0.42
1:c:618:TRP:CZ2	1:c:643:PRO:HG2	2.55	0.42
1:f:449:ASN:HA	1:f:459:ARG:H	1.84	0.42
1:f:580:SER:O	1:j:484:ARG:HD3	2.20	0.42
1:i:484:ARG:HD3	1:v:580:SER:O	2.19	0.42
1:m:371:MET:SD	1:n:661:PHE:HA	2.60	0.42
1:q:580:SER:O	1:x:484:ARG:HD3	2.20	0.42
1:s:618:TRP:CZ2	1:s:643:PRO:HG2	2.55	0.42
2:Ch:39:LEU:HD12	2:Ch:102:MET:HE2	2.02	0.42
2:Fh:50:SER:O	2:Fh:51:TYR:CD2	2.72	0.42
2:Gh:50:SER:O	2:Gh:51:TYR:CD2	2.72	0.42
2:Lh:39:LEU:HD12	2:Lh:102:MET:HE2	2.01	0.42
2:Mh:121:GLN:HG3	2:Mh:135:TYR:CD2	2.54	0.42
2:Ph:50:SER:O	2:Ph:51:TYR:CD2	2.72	0.42
2:Th:39:LEU:HG	2:Th:102:MET:HE3	2.00	0.42
2:Th:95:LYS:HD3	2:Th:99:TYR:OH	2.19	0.42
2:Uh:77:LYS:HE2	2:Uh:77:LYS:HB2	1.92	0.42
2:Wh:50:SER:O	2:Wh:51:TYR:CD2	2.72	0.42
2:4h:21:VAL:HG11	2:4h:139:VAL:HG21	2.01	0.42
2:4h:39:LEU:CD1	2:4h:102:MET:HE2	2.49	0.42
2:5h:39:LEU:HG	2:5h:102:MET:HE3	2.00	0.42
2:ah:128:LYS:N	2:ah:128:LYS:CD	2.73	0.42
2:ch:72:TYR:CA	2:ch:91:ARG:NH1	2.73	0.42
2:gh:39:LEU:HG	2:gh:102:MET:HE3	2.00	0.42
2:gh:39:LEU:CD1	2:gh:102:MET:HE2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hh:39:LEU:CD1	2:hh:102:MET:HE2	2.49	0.42
2:jh:39:LEU:HD12	2:jh:102:MET:HE2	2.02	0.42
2:lh:39:LEU:CD1	2:lh:102:MET:HE2	2.49	0.42
2:mh:39:LEU:HD12	2:mh:102:MET:HE2	2.01	0.42
2:nh:64:LEU:HD21	3:nl:65:PRO:CG	2.48	0.42
2:qh:21:VAL:HG11	2:qh:139:VAL:HG21	2.01	0.42
2:7h:50:SER:O	2:7h:51:TYR:CD2	2.72	0.42
2:8h:57:ARG:HG3	2:8h:113:TYR:CZ	2.49	0.42
3:Bl:31:SER:CB	3:Bl:127:THR:OG1	2.61	0.42
3:Hl:99:LEU:HD12	3:Hl:99:LEU:HA	1.78	0.42
3:Il:59:GLN:C	3:Il:105:ALA:HB1	2.43	0.42
3:Ml:109:CYS:O	3:Ml:121:GLY:N	2.53	0.42
3:Ol:109:CYS:O	3:Ol:121:GLY:N	2.53	0.42
3:Pl:109:CYS:O	3:Pl:121:GLY:N	2.53	0.42
3:Pl:125:LYS:HD2	3:Pl:125:LYS:H	1.83	0.42
3:Sl:100:GLN:HE21	3:Sl:100:GLN:CA	2.14	0.42
3:Vl:109:CYS:O	3:Vl:121:GLY:N	2.53	0.42
3:Xl:107:TYR:CE2	3:Xl:126:VAL:HG22	2.46	0.42
3:Xl:109:CYS:O	3:Xl:121:GLY:N	2.53	0.42
3:1l:109:CYS:O	3:1l:121:GLY:N	2.53	0.42
3:4l:107:TYR:CD2	3:4l:126:VAL:HG23	2.53	0.42
3:al:107:TYR:CD2	3:al:126:VAL:HG23	2.53	0.42
3:al:109:CYS:O	3:al:121:GLY:N	2.53	0.42
3:dl:107:TYR:CD2	3:dl:126:VAL:HG23	2.53	0.42
3:fl:107:TYR:CD2	3:fl:126:VAL:HG23	2.53	0.42
3:gl:109:CYS:O	3:gl:121:GLY:N	2.53	0.42
3:jl:109:CYS:O	3:jl:121:GLY:N	2.53	0.42
3:nl:100:GLN:NE2	3:nl:100:GLN:CA	2.73	0.42
3:wl:109:CYS:O	3:wl:121:GLY:N	2.53	0.42
3:yl:75:ARG:HA	3:yl:76:PRO:HD3	1.78	0.42
3:8l:100:GLN:HE21	3:8l:100:GLN:CA	2.14	0.42
1:E:484:ARG:HD3	1:m:580:SER:O	2.19	0.42
1:E:580:SER:O	1:K:484:ARG:HD3	2.20	0.42
1:F:584:GLN:HE21	1:F:584:GLN:HB3	1.68	0.42
1:F:661:PHE:HA	1:X:371:MET:SD	2.59	0.42
1:I:449:ASN:HA	1:I:459:ARG:H	1.84	0.42
1:I:484:ARG:HD3	1:i:580:SER:O	2.20	0.42
1:J:580:SER:O	1:X:484:ARG:HD3	2.19	0.42
1:L:449:ASN:HA	1:L:459:ARG:H	1.84	0.42
1:O:618:TRP:CZ2	1:O:643:PRO:HG2	2.55	0.42
1:O:661:PHE:HA	1:R:371:MET:SD	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:618:TRP:CZ2	1:U:643:PRO:HG2	2.55	0.42
1:1:371:MET:SD	1:o:661:PHE:HA	2.60	0.42
1:f:661:PHE:HA	1:k:371:MET:SD	2.60	0.42
1:i:371:MET:SD	1:s:661:PHE:HA	2.59	0.42
1:j:661:PHE:HA	1:p:371:MET:SD	2.60	0.42
1:m:618:TRP:CZ2	1:m:643:PRO:HG2	2.55	0.42
1:t:618:TRP:CZ2	1:t:643:PRO:HG2	2.55	0.42
1:v:587:ASN:HB3	3:vl:87:ARG:HH12	1.83	0.42
2:Eh:21:VAL:HG11	2:Eh:139:VAL:HG21	2.01	0.42
2:Eh:50:SER:O	2:Eh:51:TYR:CD2	2.72	0.42
2:Fh:95:LYS:HD3	2:Fh:99:TYR:OH	2.19	0.42
2:Ih:77:LYS:HE2	2:Ih:77:LYS:HB2	1.92	0.42
2:Kh:48:PHE:O	2:Kh:91:ARG:NH2	2.48	0.42
2:Nh:50:SER:O	2:Nh:51:TYR:CD2	2.72	0.42
2:Ph:95:LYS:HD3	2:Ph:99:TYR:OH	2.19	0.42
2:Th:39:LEU:CD1	2:Th:102:MET:HE2	2.49	0.42
2:Uh:39:LEU:HD12	2:Uh:102:MET:HE2	2.01	0.42
2:Uh:128:LYS:N	2:Uh:128:LYS:CD	2.73	0.42
2:Vh:39:LEU:HD12	2:Vh:102:MET:HE2	2.02	0.42
2:Wh:88:THR:CB	2:Wh:101:GLN:HE21	2.31	0.42
2:3h:39:LEU:CD1	2:3h:102:MET:HE2	2.49	0.42
2:5h:39:LEU:CD1	2:5h:102:MET:HE2	2.49	0.42
2:5h:50:SER:O	2:5h:51:TYR:CD2	2.72	0.42
2:bh:121:GLN:HG3	2:bh:135:TYR:CD2	2.54	0.42
2:ch:50:SER:O	2:ch:51:TYR:CD2	2.72	0.42
2:dh:95:LYS:HD3	2:dh:99:TYR:OH	2.19	0.42
2:gh:95:LYS:HD3	2:gh:99:TYR:OH	2.19	0.42
2:mh:77:LYS:HE2	2:mh:77:LYS:HB2	1.92	0.42
2:nh:50:SER:O	2:nh:51:TYR:CD2	2.72	0.42
2:th:39:LEU:HD12	2:th:102:MET:HE2	2.01	0.42
3:Cl:75:ARG:HA	3:Cl:76:PRO:HD3	1.78	0.42
3:Cl:107:TYR:CD2	3:Cl:126:VAL:HG23	2.53	0.42
3:Cl:109:CYS:O	3:Cl:121:GLY:N	2.53	0.42
3:El:100:GLN:NE2	3:El:100:GLN:CA	2.73	0.42
3:Jl:31:SER:HB3	3:Jl:127:THR:HG1	1.80	0.42
3:Nl:100:GLN:NE2	3:Nl:100:GLN:CA	2.73	0.42
3:Tl:109:CYS:O	3:Tl:121:GLY:N	2.53	0.42
3:6l:109:CYS:O	3:6l:121:GLY:N	2.53	0.42
3:bl:125:LYS:HD2	3:bl:125:LYS:H	1.83	0.42
3:gl:125:LYS:HD2	3:gl:125:LYS:H	1.83	0.42
3:il:75:ARG:HA	3:il:76:PRO:HD3	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:il:109:CYS:O	3:il:121:GLY:N	2.53	0.42
3:sl:107:TYR:CD2	3:sl:126:VAL:HG23	2.53	0.42
1:A:580:SER:O	1:3:484:ARG:HD3	2.20	0.42
1:C:444:TYR:OH	1:C:469:ASP:OD2	2.21	0.42
1:G:501:SER:HB2	1:t:448:THR:HG23	2.00	0.42
1:J:587:ASN:HB3	3:Jl:87:ARG:HH12	1.83	0.42
1:J:661:PHE:HA	1:Y:371:MET:SD	2.59	0.42
1:L:448:THR:HG23	1:n:501:SER:HB2	2.00	0.42
1:L:484:ARG:HD3	1:g:580:SER:O	2.20	0.42
1:L:587:ASN:HB3	3:Ll:87:ARG:HH12	1.83	0.42
1:M:661:PHE:HA	1:l:371:MET:SD	2.60	0.42
1:N:449:ASN:HA	1:N:459:ARG:H	1.84	0.42
1:P:661:PHE:HA	1:T:371:MET:SD	2.60	0.42
1:T:580:SER:O	1:t:484:ARG:HD3	2.20	0.42
1:V:404:ARG:H	1:V:407:ASN:ND2	2.12	0.42
1:X:580:SER:O	1:o:484:ARG:HD3	2.20	0.42
1:Y:618:TRP:CZ2	1:Y:643:PRO:HG2	2.55	0.42
1:2:371:MET:SD	1:g:661:PHE:HA	2.60	0.42
1:2:618:TRP:CZ2	1:2:643:PRO:HG2	2.55	0.42
1:5:269:ASP:O	1:p:432:ARG:NH2	2.50	0.42
1:5:661:PHE:HA	1:f:371:MET:SD	2.60	0.42
1:6:618:TRP:CZ2	1:6:643:PRO:HG2	2.55	0.42
1:f:618:TRP:CZ2	1:f:643:PRO:HG2	2.55	0.42
1:g:488:VAL:HG12	1:n:460:LEU:HD21	1.99	0.42
1:g:587:ASN:ND2	3:gl:87:ARG:HH12	2.17	0.42
1:j:404:ARG:H	1:j:407:ASN:ND2	2.12	0.42
1:n:304:TRP:C	1:n:423:SER:HG	2.28	0.42
1:o:304:TRP:C	1:o:423:SER:HG	2.27	0.42
1:o:449:ASN:HA	1:o:459:ARG:H	1.84	0.42
1:p:618:TRP:CZ2	1:p:643:PRO:HG2	2.55	0.42
1:s:484:ARG:HD3	1:w:580:SER:O	2.20	0.42
1:t:449:ASN:HA	1:t:459:ARG:H	1.84	0.42
1:v:584:GLN:HE21	1:v:584:GLN:HB3	1.68	0.42
1:y:618:TRP:CZ2	1:y:643:PRO:HG2	2.55	0.42
1:z:304:TRP:C	1:z:423:SER:HG	2.26	0.42
1:7:618:TRP:CZ2	1:7:643:PRO:HG2	2.55	0.42
2:Eh:39:LEU:HD12	2:Eh:102:MET:HE2	2.02	0.42
2:Gh:64:LEU:HD21	3:Gl:65:PRO:CG	2.49	0.42
2:Kh:39:LEU:HD12	2:Kh:102:MET:HE2	2.02	0.42
2:Mh:50:SER:O	2:Mh:51:TYR:CD2	2.72	0.42
2:Mh:129:ALA:HA	2:Mh:130:PRO:HD3	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Sh:50:SER:O	2:Sh:51:TYR:CD2	2.72	0.42
2:1h:39:LEU:HD12	2:1h:102:MET:HE2	2.01	0.42
2:3h:50:SER:O	2:3h:51:TYR:CD2	2.72	0.42
2:bh:77:LYS:HE2	2:bh:77:LYS:HB2	1.92	0.42
2:eh:39:LEU:HD12	2:eh:102:MET:HE2	2.02	0.42
2:eh:77:LYS:HE2	2:eh:77:LYS:HB2	1.92	0.42
2:lh:50:SER:O	2:lh:51:TYR:CD2	2.72	0.42
2:mh:101:GLN:HE21	2:mh:101:GLN:HB2	1.62	0.42
2:qh:50:SER:O	2:qh:51:TYR:CD2	2.72	0.42
2:sh:50:SER:O	2:sh:51:TYR:CD2	2.73	0.42
2:wh:39:LEU:HD12	2:wh:102:MET:HE2	2.01	0.42
3:Bl:115:SER:HA	3:Bl:116:PRO:HD2	1.64	0.42
3:Bl:125:LYS:HD2	3:Bl:125:LYS:H	1.83	0.42
3:Fl:109:CYS:O	3:Fl:121:GLY:N	2.53	0.42
3:Ll:99:LEU:HD12	3:Ll:99:LEU:HA	1.78	0.42
3:Vl:107:TYR:CE2	3:Vl:126:VAL:HG22	2.46	0.42
3:Wl:79:VAL:HA	3:Wl:80:PRO:HD3	1.80	0.42
3:Yl:31:SER:CB	3:Yl:127:THR:OG1	2.60	0.42
3:2l:109:CYS:O	3:2l:121:GLY:N	2.53	0.42
3:el:107:TYR:CD2	3:el:126:VAL:HG23	2.53	0.42
3:sl:109:CYS:O	3:sl:121:GLY:N	2.53	0.42
3:ul:115:SER:HA	3:ul:116:PRO:HD2	1.64	0.42
3:wl:107:TYR:CD2	3:wl:126:VAL:HG23	2.53	0.42
3:xl:107:TYR:CE2	3:xl:126:VAL:HG22	2.46	0.42
1:B:580:SER:O	1:O:484:ARG:HD3	2.19	0.41
1:G:460:LEU:HD21	1:T:488:VAL:HG12	2.00	0.41
1:H:618:TRP:CZ2	1:H:643:PRO:HG2	2.55	0.41
1:I:661:PHE:HA	1:w:371:MET:SD	2.60	0.41
1:N:580:SER:O	1:z:484:ARG:HD3	2.19	0.41
1:O:371:MET:SD	1:3:661:PHE:HA	2.60	0.41
1:T:618:TRP:CZ2	1:T:643:PRO:HG2	2.55	0.41
1:V:434:MET:H	1:V:434:MET:HG2	1.69	0.41
1:X:587:ASN:HB3	3:Xl:87:ARG:HH12	1.83	0.41
1:5:488:VAL:HG12	1:p:460:LEU:HD21	2.01	0.41
1:d:661:PHE:HA	1:g:371:MET:SD	2.60	0.41
1:i:587:ASN:HB3	3:il:87:ARG:HH12	1.83	0.41
1:n:371:MET:SD	1:w:661:PHE:HA	2.60	0.41
1:q:404:ARG:H	1:q:407:ASN:ND2	2.12	0.41
1:v:661:PHE:HA	1:7:371:MET:SD	2.59	0.41
2:Ch:95:LYS:HD3	2:Ch:99:TYR:OH	2.19	0.41
2:Fh:39:LEU:HD12	2:Fh:102:MET:HE2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Mh:77:LYS:HE2	2:Mh:77:LYS:HB2	1.92	0.41
2:Nh:72:TYR:CA	2:Nh:91:ARG:NH1	2.73	0.41
2:Th:129:ALA:HA	2:Th:130:PRO:HD3	1.80	0.41
2:2h:39:LEU:HD12	2:2h:102:MET:HE2	2.01	0.41
2:ah:95:LYS:HD3	2:ah:99:TYR:OH	2.19	0.41
2:ah:121:GLN:HG3	2:ah:135:TYR:CD2	2.54	0.41
2:bh:50:SER:O	2:bh:51:TYR:CD2	2.72	0.41
2:jh:101:GLN:HE21	2:jh:101:GLN:HB2	1.62	0.41
2:qh:39:LEU:HD12	2:qh:102:MET:HE2	2.02	0.41
2:th:48:PHE:O	2:th:91:ARG:NH2	2.48	0.41
2:vh:95:LYS:HD3	2:vh:99:TYR:OH	2.19	0.41
2:xh:39:LEU:HD12	2:xh:102:MET:HE2	2.02	0.41
3:Jl:109:CYS:O	3:Jl:121:GLY:N	2.53	0.41
3:Ml:100:GLN:NE2	3:Ml:100:GLN:CA	2.73	0.41
3:Rl:31:SER:CB	3:Rl:127:THR:OG1	2.61	0.41
3:Rl:47:SER:O	3:Rl:51:SER:OG	2.35	0.41
3:6l:79:VAL:HA	3:6l:80:PRO:HD3	1.81	0.41
3:bl:27:PRO:O	3:bl:124:THR:OG1	2.22	0.41
3:vl:109:CYS:O	3:vl:121:GLY:N	2.53	0.41
1:B:618:TRP:CZ2	1:B:643:PRO:HG2	2.55	0.41
1:G:365:PHE:HA	1:G:366:PRO:HD3	1.93	0.41
1:J:404:ARG:H	1:J:407:ASN:ND2	2.12	0.41
1:R:460:LEU:HD21	1:Z:488:VAL:HG12	1.99	0.41
1:S:371:MET:SD	1:b:661:PHE:HA	2.60	0.41
1:S:449:ASN:HA	1:S:459:ARG:H	1.84	0.41
1:T:587:ASN:ND2	3:Tl:87:ARG:HH12	2.17	0.41
1:X:449:ASN:HA	1:X:459:ARG:H	1.84	0.41
1:Z:449:ASN:HA	1:Z:459:ARG:H	1.84	0.41
1:3:449:ASN:HA	1:3:459:ARG:H	1.84	0.41
1:4:584:GLN:HE21	1:4:584:GLN:HB3	1.68	0.41
1:a:444:TYR:OH	1:a:469:ASP:OD2	2.21	0.41
1:c:584:GLN:HE21	1:c:584:GLN:HB3	1.68	0.41
1:i:449:ASN:HA	1:i:459:ARG:H	1.84	0.41
1:l:449:ASN:HA	1:l:459:ARG:H	1.84	0.41
1:p:444:TYR:OH	1:p:469:ASP:OD2	2.21	0.41
1:q:618:TRP:CZ2	1:q:643:PRO:HG2	2.55	0.41
1:t:587:ASN:HB3	3:tl:87:ARG:HH12	1.83	0.41
1:u:587:ASN:HB3	3:ul:87:ARG:HH12	1.83	0.41
1:u:618:TRP:CZ2	1:u:643:PRO:HG2	2.55	0.41
2:Bh:48:PHE:O	2:Bh:91:ARG:NH2	2.48	0.41
2:Dh:39:LEU:HD12	2:Dh:102:MET:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Dh:121:GLN:HG3	2:Dh:135:TYR:CD2	2.54	0.41
2:Lh:48:PHE:O	2:Lh:91:ARG:NH2	2.48	0.41
2:6h:39:LEU:HD12	2:6h:102:MET:HE2	2.01	0.41
2:ih:39:LEU:HD12	2:ih:102:MET:HE2	2.02	0.41
2:oh:77:LYS:HE2	2:oh:77:LYS:HB2	1.92	0.41
2:sh:39:LEU:HD12	2:sh:102:MET:HE2	2.01	0.41
2:th:21:VAL:HG11	2:th:139:VAL:HG21	2.01	0.41
2:th:101:GLN:HE21	2:th:101:GLN:HB2	1.62	0.41
2:xh:50:SER:O	2:xh:51:TYR:CD2	2.72	0.41
2:7h:95:LYS:HD3	2:7h:99:TYR:OH	2.19	0.41
3:Dl:115:SER:HA	3:Dl:116:PRO:HD2	1.64	0.41
3:El:60:LEU:HD23	3:El:105:ALA:CB	2.34	0.41
3:Fl:107:TYR:CD2	3:Fl:126:VAL:HG23	2.53	0.41
3:Gl:100:GLN:NE2	3:Gl:100:GLN:CA	2.73	0.41
3:Ol:99:LEU:HD12	3:Ol:99:LEU:HA	1.78	0.41
3:Ql:109:CYS:O	3:Ql:121:GLY:N	2.53	0.41
3:Xl:99:LEU:HD12	3:Xl:99:LEU:HA	1.78	0.41
3:1l:107:TYR:CD2	3:1l:126:VAL:HG23	2.53	0.41
3:al:75:ARG:HA	3:al:76:PRO:HD3	1.78	0.41
3:jl:79:VAL:HA	3:jl:80:PRO:HD3	1.80	0.41
3:ll:79:VAL:HA	3:ll:80:PRO:HD3	1.80	0.41
3:ol:109:CYS:O	3:ol:121:GLY:N	2.53	0.41
3:ql:60:LEU:HD23	3:ql:105:ALA:CB	2.34	0.41
1:A:237:ASP:OD1	1:A:237:ASP:N	2.34	0.41
1:A:661:PHE:HA	1:M:371:MET:SD	2.60	0.41
1:B:587:ASN:HB3	3:Bl:87:ARG:HH12	1.83	0.41
1:E:618:TRP:CZ2	1:E:643:PRO:HG2	2.55	0.41
1:M:269:ASP:O	1:S:432:ARG:NH2	2.50	0.41
1:M:618:TRP:CZ2	1:M:643:PRO:HG2	2.55	0.41
1:P:580:SER:O	1:c:484:ARG:HD3	2.19	0.41
1:Q:404:ARG:H	1:Q:407:ASN:ND2	2.12	0.41
1:T:584:GLN:HE21	1:T:584:GLN:HB3	1.68	0.41
1:V:618:TRP:CZ2	1:V:643:PRO:HG2	2.55	0.41
1:W:484:ARG:HD3	1:c:580:SER:O	2.19	0.41
1:4:449:ASN:HA	1:4:459:ARG:H	1.84	0.41
1:b:618:TRP:CZ2	1:b:643:PRO:HG2	2.55	0.41
1:f:484:ARG:HD3	1:u:580:SER:O	2.19	0.41
1:g:618:TRP:CZ2	1:g:643:PRO:HG2	2.55	0.41
1:p:237:ASP:OD1	1:p:237:ASP:N	2.34	0.41
1:8:449:ASN:HA	1:8:459:ARG:H	1.84	0.41
2:Ch:101:GLN:HE21	2:Ch:101:GLN:HB2	1.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:121:GLN:HG3	2:Ch:135:TYR:CD2	2.54	0.41
2:Ch:128:LYS:N	2:Ch:128:LYS:CD	2.73	0.41
2:Jh:95:LYS:HD3	2:Jh:99:TYR:OH	2.19	0.41
2:Kh:50:SER:O	2:Kh:51:TYR:CD2	2.72	0.41
2:Ph:39:LEU:HG	2:Ph:102:MET:HE3	2.00	0.41
2:Sh:39:LEU:HD12	2:Sh:102:MET:HE2	2.02	0.41
2:Xh:39:LEU:HD12	2:Xh:102:MET:HE2	2.02	0.41
2:4h:50:SER:O	2:4h:51:TYR:CD2	2.72	0.41
2:eh:121:GLN:HG3	2:eh:135:TYR:CD2	2.54	0.41
2:hh:50:SER:O	2:hh:51:TYR:CD2	2.72	0.41
2:mh:39:LEU:CD1	2:mh:102:MET:HE2	2.49	0.41
2:mh:128:LYS:N	2:mh:128:LYS:CD	2.73	0.41
2:oh:72:TYR:CA	2:oh:91:ARG:NH1	2.73	0.41
2:uh:48:PHE:O	2:uh:91:ARG:NH2	2.48	0.41
3:Bl:107:TYR:CE2	3:Bl:126:VAL:HG22	2.46	0.41
3:Il:109:CYS:O	3:Il:121:GLY:N	2.53	0.41
3:Ol:125:LYS:HD2	3:Ol:125:LYS:H	1.83	0.41
3:Tl:75:ARG:HA	3:Tl:76:PRO:HD3	1.78	0.41
3:dl:125:LYS:HD2	3:dl:125:LYS:H	1.83	0.41
3:el:100:GLN:NE2	3:el:100:GLN:CA	2.73	0.41
3:ll:100:GLN:HE21	3:ll:100:GLN:CA	2.14	0.41
3:rl:109:CYS:O	3:rl:121:GLY:N	2.53	0.41
3:ul:125:LYS:HD2	3:ul:125:LYS:H	1.83	0.41
3:7l:31:SER:CB	3:7l:127:THR:OG1	2.60	0.41
3:8l:109:CYS:O	3:8l:121:GLY:N	2.53	0.41
1:A:444:TYR:OH	1:A:469:ASP:OD2	2.21	0.41
1:B:532:LYS:HE3	1:B:533:PHE:CZ	2.56	0.41
1:C:618:TRP:CZ2	1:C:643:PRO:HG2	2.55	0.41
1:G:269:ASP:O	1:t:432:ARG:NH2	2.50	0.41
1:N:484:ARG:HD3	1:d:580:SER:O	2.19	0.41
1:R:404:ARG:H	1:R:407:ASN:ND2	2.12	0.41
1:R:532:LYS:HE3	1:R:533:PHE:CZ	2.56	0.41
1:V:449:ASN:HA	1:V:459:ARG:H	1.84	0.41
1:Z:371:MET:SD	1:6:661:PHE:HA	2.61	0.41
1:2:434:MET:H	1:2:434:MET:HG2	1.69	0.41
1:a:618:TRP:CZ2	1:a:643:PRO:HG2	2.55	0.41
1:h:584:GLN:HE21	1:h:584:GLN:HB3	1.68	0.41
1:j:618:TRP:CZ2	1:j:643:PRO:HG2	2.55	0.41
1:k:460:LEU:HD21	1:8:488:VAL:HG12	1.99	0.41
1:k:532:LYS:HE3	1:k:533:PHE:CZ	2.56	0.41
1:o:434:MET:H	1:o:434:MET:HG2	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:404:ARG:H	1:r:407:ASN:ND2	2.12	0.41
1:r:449:ASN:HA	1:r:459:ARG:H	1.84	0.41
1:u:532:LYS:HE3	1:u:533:PHE:CZ	2.56	0.41
1:v:404:ARG:H	1:v:407:ASN:ND2	2.12	0.41
1:7:532:LYS:HE3	1:7:533:PHE:CZ	2.56	0.41
1:8:434:MET:H	1:8:434:MET:HG2	1.69	0.41
2:Lh:21:VAL:HG11	2:Lh:139:VAL:HG21	2.01	0.41
2:Qh:39:LEU:HD12	2:Qh:102:MET:HE2	2.02	0.41
2:Yh:39:LEU:HD12	2:Yh:102:MET:HE2	2.02	0.41
2:Yh:95:LYS:HD3	2:Yh:99:TYR:OH	2.19	0.41
2:bh:129:ALA:HA	2:bh:130:PRO:HD3	1.80	0.41
2:dh:39:LEU:HG	2:dh:102:MET:HE3	2.00	0.41
2:lh:39:LEU:HD12	2:lh:102:MET:HE2	2.02	0.41
2:rh:39:LEU:HD12	2:rh:102:MET:HE2	2.02	0.41
2:7h:39:LEU:HD12	2:7h:102:MET:HE2	2.02	0.41
3:Dl:100:GLN:NE2	3:Dl:100:GLN:CA	2.73	0.41
3:Fl:31:SER:HB3	3:Fl:127:THR:HG1	1.79	0.41
3:Fl:99:LEU:HD12	3:Fl:99:LEU:HA	1.78	0.41
3:Kl:107:TYR:CE2	3:Kl:126:VAL:HG22	2.46	0.41
3:Ll:27:PRO:O	3:Ll:124:THR:OG1	2.22	0.41
3:Tl:100:GLN:NE2	3:Tl:100:GLN:CA	2.73	0.41
3:Vl:79:VAL:HA	3:Vl:80:PRO:HD3	1.81	0.41
3:Zl:100:GLN:HE21	3:Zl:100:GLN:CA	2.14	0.41
3:Zl:109:CYS:O	3:Zl:121:GLY:N	2.53	0.41
3:bl:100:GLN:NE2	3:bl:100:GLN:CA	2.73	0.41
1:C:661:PHE:HA	1:F:371:MET:SD	2.60	0.41
1:F:460:LEU:HD21	1:6:488:VAL:HG12	2.00	0.41
1:G:371:MET:SD	1:1:661:PHE:HA	2.60	0.41
1:G:580:SER:O	1:T:484:ARG:HD3	2.20	0.41
1:H:661:PHE:HA	1:K:371:MET:SD	2.60	0.41
1:K:434:MET:H	1:K:434:MET:HG2	1.69	0.41
1:N:584:GLN:HE21	1:N:584:GLN:HB3	1.68	0.41
1:Q:449:ASN:HA	1:Q:459:ARG:H	1.84	0.41
1:Q:618:TRP:CZ2	1:Q:643:PRO:HG2	2.55	0.41
1:T:449:ASN:HA	1:T:459:ARG:H	1.84	0.41
1:Y:532:LYS:HE3	1:Y:533:PHE:CZ	2.56	0.41
1:Y:587:ASN:ND2	3:Yl:87:ARG:HH12	2.17	0.41
1:5:449:ASN:HA	1:5:459:ARG:H	1.84	0.41
1:a:661:PHE:HA	1:s:371:MET:SD	2.60	0.41
1:b:269:ASP:O	1:l:432:ARG:NH2	2.50	0.41
1:x:371:MET:SD	1:y:661:PHE:HA	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:587:ASN:ND2	3:7l:87:ARG:HH12	2.17	0.41
2:Dh:88:THR:CG2	2:Dh:101:GLN:HE21	2.23	0.41
2:Ih:72:TYR:CA	2:Ih:91:ARG:NH1	2.73	0.41
2:Uh:39:LEU:CD1	2:Uh:102:MET:HE2	2.49	0.41
2:ch:21:VAL:HG11	2:ch:139:VAL:HG21	2.00	0.41
2:8h:39:LEU:HD12	2:8h:102:MET:HE2	2.02	0.41
3:Al:79:VAL:HA	3:Al:80:PRO:HD3	1.80	0.41
3:Cl:31:SER:HB3	3:Cl:127:THR:HG1	1.79	0.41
3:Cl:33:THR:CG2	3:Cl:34:PRO:HD2	2.30	0.41
3:Cl:60:LEU:HD23	3:Cl:105:ALA:CB	2.34	0.41
3:Hl:75:ARG:HA	3:Hl:76:PRO:HD3	1.78	0.41
3:Il:75:ARG:HA	3:Il:76:PRO:HD3	1.78	0.41
3:Jl:75:ARG:HA	3:Jl:76:PRO:HD3	1.78	0.41
3:Kl:104:GLU:CG	3:Kl:127:THR:O	2.69	0.41
3:Ql:75:ARG:HA	3:Ql:76:PRO:HD3	1.78	0.41
3:Sl:47:SER:O	3:Sl:51:SER:OG	2.35	0.41
3:5l:75:ARG:HA	3:5l:76:PRO:HD3	1.78	0.41
3:il:107:TYR:CD2	3:il:126:VAL:HG23	2.53	0.41
3:ul:107:TYR:CE2	3:ul:126:VAL:HG22	2.46	0.41
3:xl:104:GLU:CG	3:xl:127:THR:O	2.69	0.41
3:yl:99:LEU:HD12	3:yl:99:LEU:HA	1.78	0.41
1:C:449:ASN:HA	1:C:459:ARG:H	1.84	0.41
1:C:488:VAL:HG12	1:Z:460:LEU:HD21	2.00	0.41
1:D:449:ASN:HA	1:D:459:ARG:H	1.84	0.41
1:G:304:TRP:C	1:G:423:SER:HG	2.29	0.41
1:G:618:TRP:CZ2	1:G:643:PRO:HG2	2.55	0.41
1:J:584:GLN:HE21	1:J:584:GLN:HB3	1.68	0.41
1:O:532:LYS:HE3	1:O:533:PHE:CZ	2.56	0.41
1:V:371:MET:SD	1:c:661:PHE:HA	2.60	0.41
1:X:532:LYS:HE3	1:X:533:PHE:CZ	2.56	0.41
1:X:618:TRP:CZ2	1:X:643:PRO:HG2	2.55	0.41
1:Y:432:ARG:NH2	1:e:269:ASP:O	2.50	0.41
1:1:627:HIS:HB3	1:6:605:VAL:HG12	2.03	0.41
1:2:580:SER:O	1:w:484:ARG:HD3	2.20	0.41
1:3:618:TRP:CZ2	1:3:643:PRO:HG2	2.55	0.41
1:a:449:ASN:HA	1:a:459:ARG:H	1.84	0.41
1:g:449:ASN:HA	1:g:459:ARG:H	1.84	0.41
1:h:532:LYS:HE3	1:h:533:PHE:CZ	2.56	0.41
1:i:532:LYS:HE3	1:i:533:PHE:CZ	2.56	0.41
1:i:618:TRP:CZ2	1:i:643:PRO:HG2	2.55	0.41
1:j:434:MET:H	1:j:434:MET:HG2	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:449:ASN:HA	1:j:459:ARG:H	1.84	0.41
1:k:432:ARG:NH2	1:8:269:ASP:O	2.50	0.41
1:n:365:PHE:HA	1:n:366:PRO:HD3	1.93	0.41
1:n:618:TRP:CZ2	1:n:643:PRO:HG2	2.55	0.41
1:r:618:TRP:CZ2	1:r:643:PRO:HG2	2.55	0.41
1:u:304:TRP:C	1:u:423:SER:HG	2.28	0.41
1:7:304:TRP:C	1:7:423:SER:HG	2.27	0.41
2:Fh:72:TYR:CA	2:Fh:91:ARG:NH1	2.73	0.41
2:Fh:101:GLN:HE21	2:Fh:101:GLN:HB2	1.62	0.41
2:Nh:21:VAL:HG11	2:Nh:139:VAL:HG21	2.01	0.41
2:Oh:72:TYR:CA	2:Oh:91:ARG:NH1	2.73	0.41
2:Zh:39:LEU:HD12	2:Zh:102:MET:HE2	2.02	0.41
2:gh:88:THR:HG22	2:gh:101:GLN:HE22	1.38	0.41
2:lh:72:TYR:CA	2:lh:91:ARG:NH1	2.73	0.41
2:xh:129:ALA:HA	2:xh:130:PRO:HD3	1.80	0.41
3:Dl:104:GLU:CG	3:Dl:127:THR:O	2.69	0.41
3:El:99:LEU:HD12	3:El:99:LEU:HA	1.78	0.41
3:El:104:GLU:CG	3:El:127:THR:O	2.69	0.41
3:Kl:99:LEU:HD12	3:Kl:99:LEU:HA	1.78	0.41
3:Ml:104:GLU:CG	3:Ml:127:THR:O	2.69	0.41
3:Ol:104:GLU:CG	3:Ol:127:THR:O	2.69	0.41
3:Ol:115:SER:HA	3:Ol:116:PRO:HD2	1.64	0.41
3:1l:104:GLU:CG	3:1l:127:THR:O	2.69	0.41
3:3l:75:ARG:HA	3:3l:76:PRO:HD3	1.78	0.41
3:3l:104:GLU:CG	3:3l:127:THR:O	2.69	0.41
3:5l:104:GLU:CG	3:5l:127:THR:O	2.69	0.41
3:6l:107:TYR:CD2	3:6l:126:VAL:HG23	2.53	0.41
3:al:33:THR:CG2	3:al:34:PRO:HD2	2.30	0.41
3:dl:75:ARG:HA	3:dl:76:PRO:HD3	1.78	0.41
3:el:104:GLU:CG	3:el:127:THR:O	2.69	0.41
3:fl:99:LEU:HD12	3:fl:99:LEU:HA	1.78	0.41
3:fl:104:GLU:CG	3:fl:127:THR:O	2.69	0.41
3:il:99:LEU:HD12	3:il:99:LEU:HA	1.78	0.41
3:jl:107:TYR:CE2	3:jl:126:VAL:HG22	2.46	0.41
3:ql:99:LEU:HD12	3:ql:99:LEU:HA	1.78	0.41
3:rl:75:ARG:HA	3:rl:76:PRO:HD3	1.78	0.41
3:wl:104:GLU:CG	3:wl:127:THR:O	2.69	0.41
1:F:484:ARG:HD3	1:1:580:SER:O	2.20	0.41
1:F:532:LYS:HE3	1:F:533:PHE:CZ	2.56	0.41
1:I:488:VAL:HG12	1:i:460:LEU:HD21	1.99	0.41
1:I:532:LYS:HE3	1:I:533:PHE:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:432:ARG:NH2	1:n:269:ASP:O	2.50	0.41
1:N:661:PHE:HA	1:j:371:MET:SD	2.60	0.41
1:P:618:TRP:CZ2	1:P:643:PRO:HG2	2.55	0.41
1:R:432:ARG:NH2	1:Z:269:ASP:O	2.50	0.41
1:Y:269:ASP:O	1:y:432:ARG:NH2	2.50	0.41
1:Y:404:ARG:H	1:Y:407:ASN:ND2	2.12	0.41
1:2:532:LYS:HE3	1:2:533:PHE:CZ	2.56	0.41
1:2:587:ASN:HB3	3:2l:87:ARG:HH12	1.83	0.41
1:4:532:LYS:HE3	1:4:533:PHE:CZ	2.56	0.41
1:5:404:ARG:H	1:5:407:ASN:ND2	2.12	0.41
1:5:618:TRP:CZ2	1:5:643:PRO:HG2	2.55	0.41
1:e:449:ASN:HA	1:e:459:ARG:H	1.84	0.41
1:f:532:LYS:HE3	1:f:533:PHE:CZ	2.56	0.41
1:g:484:ARG:HD3	1:n:580:SER:O	2.20	0.41
1:h:449:ASN:HA	1:h:459:ARG:H	1.84	0.41
1:h:580:SER:O	1:p:484:ARG:HD3	2.20	0.41
1:k:404:ARG:H	1:k:407:ASN:ND2	2.12	0.41
1:8:618:TRP:CZ2	1:8:643:PRO:HG2	2.55	0.41
2:Bh:50:SER:C	2:Bh:51:TYR:CD2	2.99	0.41
2:Ch:117:ARG:NH1	2:Ch:138:ASP:OD2	2.54	0.41
2:Gh:77:LYS:HE2	2:Gh:77:LYS:HB2	1.92	0.41
2:Kh:50:SER:C	2:Kh:51:TYR:CD2	2.99	0.41
2:Mh:50:SER:C	2:Mh:51:TYR:CD2	2.99	0.41
2:Th:117:ARG:NH1	2:Th:138:ASP:OD2	2.54	0.41
2:Uh:101:GLN:HE21	2:Uh:101:GLN:HB2	1.62	0.41
2:1h:50:SER:C	2:1h:51:TYR:CD2	2.99	0.41
2:5h:48:PHE:O	2:5h:91:ARG:NH2	2.48	0.41
2:bh:50:SER:C	2:bh:51:TYR:CD2	2.99	0.41
2:eh:117:ARG:NH1	2:eh:138:ASP:OD2	2.54	0.41
2:gh:117:ARG:NH1	2:gh:138:ASP:OD2	2.54	0.41
2:rh:50:SER:C	2:rh:51:TYR:CD2	2.99	0.41
2:sh:72:TYR:CA	2:sh:91:ARG:NH1	2.73	0.41
2:sh:101:GLN:HE21	2:sh:101:GLN:HB2	1.62	0.41
2:uh:50:SER:C	2:uh:51:TYR:CD2	2.99	0.41
2:wh:50:SER:C	2:wh:51:TYR:CD2	2.99	0.41
2:xh:50:SER:C	2:xh:51:TYR:CD2	2.99	0.41
3:Fl:115:SER:HA	3:Fl:116:PRO:HD2	1.65	0.41
3:Il:104:GLU:CG	3:Il:127:THR:O	2.69	0.41
3:Jl:104:GLU:CG	3:Jl:127:THR:O	2.69	0.41
3:Sl:79:VAL:HA	3:Sl:80:PRO:HD3	1.80	0.41
3:Xl:104:GLU:CG	3:Xl:127:THR:O	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Xl:107:TYR:CD2	3:Xl:126:VAL:HG23	2.53	0.41
3:Yl:104:GLU:CG	3:Yl:127:THR:O	2.69	0.41
3:2l:79:VAL:HA	3:2l:80:PRO:HD3	1.81	0.41
3:bl:104:GLU:CG	3:bl:127:THR:O	2.69	0.41
3:fl:125:LYS:HD2	3:fl:125:LYS:H	1.83	0.41
3:gl:75:ARG:HA	3:gl:76:PRO:HD3	1.78	0.41
3:jl:107:TYR:CD2	3:jl:126:VAL:HG23	2.53	0.41
3:ol:104:GLU:CG	3:ol:127:THR:O	2.69	0.41
3:ql:104:GLU:CG	3:ql:127:THR:O	2.69	0.41
3:sl:31:SER:CB	3:sl:127:THR:OG1	2.60	0.41
3:vl:75:ARG:HA	3:vl:76:PRO:HD3	1.78	0.41
3:vl:104:GLU:CG	3:vl:127:THR:O	2.69	0.41
3:7l:104:GLU:CG	3:7l:127:THR:O	2.69	0.41
1:C:532:LYS:HE3	1:C:533:PHE:CZ	2.56	0.41
1:D:269:ASP:O	1:7:432:ARG:NH2	2.50	0.41
1:Q:304:TRP:C	1:Q:423:SER:HG	2.29	0.41
1:U:532:LYS:HE3	1:U:533:PHE:CZ	2.56	0.41
1:6:532:LYS:HE3	1:6:533:PHE:CZ	2.56	0.41
1:a:488:VAL:HG12	1:8:460:LEU:HD21	1.99	0.41
1:a:532:LYS:HE3	1:a:533:PHE:CZ	2.56	0.41
1:d:532:LYS:HE3	1:d:533:PHE:CZ	2.56	0.41
1:d:618:TRP:CZ2	1:d:643:PRO:HG2	2.55	0.41
1:h:304:TRP:C	1:h:423:SER:HG	2.29	0.41
1:m:532:LYS:HE3	1:m:533:PHE:CZ	2.56	0.41
1:o:532:LYS:HE3	1:o:533:PHE:CZ	2.56	0.41
1:s:532:LYS:HE3	1:s:533:PHE:CZ	2.56	0.41
1:x:584:GLN:HE21	1:x:584:GLN:HB3	1.68	0.41
2:Ch:50:SER:C	2:Ch:51:TYR:CD2	2.99	0.41
2:Ch:131:TYR:HD1	3:Cl:112:TRP:CE3	2.39	0.41
2:Dh:50:SER:C	2:Dh:51:TYR:CD2	2.99	0.41
2:Dh:117:ARG:NH1	2:Dh:138:ASP:OD2	2.54	0.41
2:Kh:131:TYR:HD1	3:Kl:112:TRP:CE3	2.39	0.41
2:Lh:50:SER:C	2:Lh:51:TYR:CD2	2.99	0.41
2:Nh:50:SER:C	2:Nh:51:TYR:CD2	2.99	0.41
2:Ph:131:TYR:HD1	3:Pl:112:TRP:CE3	2.39	0.41
2:Qh:50:SER:C	2:Qh:51:TYR:CD2	2.99	0.41
2:Yh:50:SER:C	2:Yh:51:TYR:CD2	2.99	0.41
2:Zh:50:SER:C	2:Zh:51:TYR:CD2	2.99	0.41
2:4h:50:SER:C	2:4h:51:TYR:CD2	2.99	0.41
2:6h:77:LYS:HE2	2:6h:77:LYS:HB2	1.92	0.41
2:ah:131:TYR:HD1	3:al:112:TRP:CE3	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ch:50:SER:C	2:ch:51:TYR:CD2	2.99	0.41
2:dh:131:TYR:HD1	3:dl:112:TRP:CE3	2.39	0.41
2:eh:50:SER:C	2:eh:51:TYR:CD2	2.99	0.41
2:fh:72:TYR:CA	2:fh:91:ARG:NH1	2.73	0.41
2:qh:117:ARG:NH1	2:qh:138:ASP:OD2	2.54	0.41
2:th:50:SER:C	2:th:51:TYR:CD2	2.99	0.41
2:xh:131:TYR:HD1	3:xl:112:TRP:CE3	2.39	0.41
2:7h:50:SER:C	2:7h:51:TYR:CD2	2.99	0.41
2:8h:50:SER:C	2:8h:51:TYR:CD2	2.99	0.41
3:Ol:107:TYR:CE2	3:Ol:126:VAL:HG22	2.46	0.41
3:Ul:104:GLU:CG	3:Ul:127:THR:O	2.69	0.41
3:Zl:60:LEU:HD23	3:Zl:105:ALA:CB	2.34	0.41
3:hl:104:GLU:CG	3:hl:127:THR:O	2.69	0.41
3:il:104:GLU:CG	3:il:127:THR:O	2.69	0.41
3:jl:104:GLU:CG	3:jl:127:THR:O	2.69	0.41
3:ll:47:SER:O	3:ll:51:SER:OG	2.35	0.41
3:nl:27:PRO:O	3:nl:124:THR:OG1	2.22	0.41
3:sl:115:SER:HA	3:sl:116:PRO:HD2	1.65	0.41
1:A:371:MET:SD	1:V:661:PHE:HA	2.61	0.41
1:C:432:ARG:NH2	1:R:269:ASP:O	2.50	0.41
1:C:484:ARG:HD3	1:Z:580:SER:O	2.20	0.41
1:D:532:LYS:HE3	1:D:533:PHE:CZ	2.56	0.41
1:E:460:LEU:HD21	1:K:488:VAL:HG12	1.99	0.41
1:E:532:LYS:HE3	1:E:533:PHE:CZ	2.56	0.41
1:F:294:ARG:NE	1:Z:697:GLU:HG3	2.36	0.41
1:G:488:VAL:HG12	1:t:460:LEU:HD21	1.99	0.41
1:H:432:ARG:NH2	1:7:269:ASP:O	2.50	0.41
1:I:434:MET:H	1:I:434:MET:HG2	1.69	0.41
1:K:489:SER:HB3	1:K:533:PHE:CE1	2.56	0.41
1:L:532:LYS:HE3	1:L:533:PHE:CZ	2.56	0.41
1:M:489:SER:HB3	1:M:533:PHE:CE1	2.56	0.41
1:O:304:TRP:C	1:O:423:SER:HG	2.29	0.41
1:P:532:LYS:HE3	1:P:533:PHE:CZ	2.56	0.41
1:W:489:SER:HB3	1:W:533:PHE:CE1	2.56	0.41
1:Y:489:SER:HB3	1:Y:533:PHE:CE1	2.56	0.41
1:Y:584:GLN:HE21	1:Y:584:GLN:HB3	1.68	0.41
1:Z:618:TRP:CZ2	1:Z:643:PRO:HG2	2.55	0.41
1:3:580:SER:O	1:4:484:ARG:HD3	2.20	0.41
1:4:304:TRP:C	1:4:423:SER:HG	2.29	0.41
1:5:580:SER:O	1:h:484:ARG:HD3	2.20	0.41
1:a:432:ARG:NH2	1:k:269:ASP:O	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:489:SER:HB3	1:b:533:PHE:CE1	2.56	0.41
1:g:532:LYS:HE3	1:g:533:PHE:CZ	2.56	0.41
1:m:434:MET:H	1:m:434:MET:HG2	1.69	0.41
1:p:532:LYS:HE3	1:p:533:PHE:CZ	2.56	0.41
1:q:432:ARG:NH2	1:x:269:ASP:O	2.51	0.41
1:q:532:LYS:HE3	1:q:533:PHE:CZ	2.56	0.41
1:t:532:LYS:HE3	1:t:533:PHE:CZ	2.56	0.41
1:x:434:MET:H	1:x:434:MET:HG2	1.69	0.41
1:x:489:SER:HB3	1:x:533:PHE:CE1	2.56	0.41
1:z:489:SER:HB3	1:z:533:PHE:CE1	2.56	0.41
1:z:532:LYS:HE3	1:z:533:PHE:CZ	2.56	0.41
1:7:404:ARG:H	1:7:407:ASN:ND2	2.12	0.41
1:7:489:SER:HB3	1:7:533:PHE:CE1	2.56	0.41
1:8:532:LYS:HE3	1:8:533:PHE:CZ	2.56	0.41
2:Ah:50:SER:C	2:Ah:51:TYR:CD2	2.99	0.41
2:Eh:117:ARG:NH1	2:Eh:138:ASP:OD2	2.54	0.41
2:Fh:131:TYR:HD1	3:Fl:112:TRP:CE3	2.39	0.41
2:Gh:50:SER:C	2:Gh:51:TYR:CD2	2.99	0.41
2:Hh:117:ARG:NH1	2:Hh:138:ASP:OD2	2.54	0.41
2:Ih:50:SER:C	2:Ih:51:TYR:CD2	2.99	0.41
2:Kh:129:ALA:HA	2:Kh:130:PRO:HD3	1.80	0.41
2:Lh:101:GLN:HE21	2:Lh:101:GLN:HB2	1.62	0.41
2:Lh:131:TYR:HD1	3:Ll:112:TRP:CE3	2.39	0.41
2:Mh:117:ARG:NH1	2:Mh:138:ASP:OD2	2.54	0.41
2:Oh:50:SER:C	2:Oh:51:TYR:CD2	2.99	0.41
2:Rh:131:TYR:HD1	3:Rl:112:TRP:CE3	2.39	0.41
2:Sh:72:TYR:CA	2:Sh:91:ARG:NH1	2.73	0.41
2:Uh:131:TYR:HD1	3:Ul:112:TRP:CE3	2.39	0.41
2:Vh:50:SER:C	2:Vh:51:TYR:CD2	2.99	0.41
2:Vh:77:LYS:HE2	2:Vh:77:LYS:HB2	1.92	0.41
2:Vh:117:ARG:NH1	2:Vh:138:ASP:OD2	2.54	0.41
2:Vh:131:TYR:HD1	3:Vl:112:TRP:CE3	2.39	0.41
2:Wh:131:TYR:HD1	3:Wl:112:TRP:CE3	2.39	0.41
2:Xh:131:TYR:HD1	3:Xl:112:TRP:CE3	2.39	0.41
2:Zh:101:GLN:HE21	2:Zh:101:GLN:HB2	1.62	0.41
2:2h:50:SER:C	2:2h:51:TYR:CD2	2.99	0.41
2:3h:48:PHE:O	2:3h:91:ARG:NH2	2.48	0.41
2:3h:117:ARG:NH1	2:3h:138:ASP:OD2	2.54	0.41
2:4h:39:LEU:HD12	2:4h:102:MET:HE2	2.01	0.41
2:5h:117:ARG:NH1	2:5h:138:ASP:OD2	2.54	0.41
2:6h:50:SER:C	2:6h:51:TYR:CD2	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ah:50:SER:C	2:ah:51:TYR:CD2	2.99	0.41
2:ah:101:GLN:HE21	2:ah:101:GLN:HB2	1.62	0.41
2:bh:117:ARG:NH1	2:bh:138:ASP:OD2	2.54	0.41
2:fh:50:SER:C	2:fh:51:TYR:CD2	2.99	0.41
2:fh:117:ARG:NH1	2:fh:138:ASP:OD2	2.54	0.41
2:fh:128:LYS:N	2:fh:128:LYS:CD	2.73	0.41
2:hh:50:SER:C	2:hh:51:TYR:CD2	2.99	0.41
2:ih:129:ALA:HA	2:ih:130:PRO:HD3	1.80	0.41
2:ih:131:TYR:HD1	3:il:112:TRP:CE3	2.39	0.41
2:jh:50:SER:C	2:jh:51:TYR:CD2	2.99	0.41
2:jh:117:ARG:NH1	2:jh:138:ASP:OD2	2.54	0.41
2:jh:131:TYR:HD1	3:jl:112:TRP:CE3	2.39	0.41
2:kh:131:TYR:HD1	3:kl:112:TRP:CE3	2.39	0.41
2:mh:131:TYR:HD1	3:ml:112:TRP:CE3	2.39	0.41
2:nh:50:SER:C	2:nh:51:TYR:CD2	2.99	0.41
2:oh:50:SER:C	2:oh:51:TYR:CD2	2.99	0.41
2:ph:50:SER:C	2:ph:51:TYR:CD2	2.99	0.41
2:rh:81:ASP:HA	2:rh:84:LYS:CE	2.37	0.41
2:th:131:TYR:HD1	3:tl:112:TRP:CE3	2.39	0.41
2:uh:95:LYS:HD3	2:uh:99:TYR:OH	2.19	0.41
2:vh:50:SER:C	2:vh:51:TYR:CD2	2.99	0.41
2:vh:117:ARG:NH1	2:vh:138:ASP:OD2	2.54	0.41
2:vh:129:ALA:HA	2:vh:130:PRO:HD3	1.80	0.41
2:yh:117:ARG:NH1	2:yh:138:ASP:OD2	2.54	0.41
2:8h:101:GLN:HE21	2:8h:101:GLN:HB2	1.62	0.41
3:Bl:107:TYR:CD2	3:Bl:126:VAL:HG23	2.53	0.41
3:Fl:31:SER:CB	3:Fl:127:THR:OG1	2.60	0.41
3:Fl:60:LEU:HD23	3:Fl:105:ALA:CB	2.34	0.41
3:Gl:75:ARG:HA	3:Gl:76:PRO:HD3	1.78	0.41
3:Ml:79:VAL:HA	3:Ml:80:PRO:HD3	1.80	0.41
3:Ql:104:GLU:CG	3:Ql:127:THR:O	2.69	0.41
3:Sl:31:SER:CB	3:Sl:127:THR:OG1	2.60	0.41
3:Vl:104:GLU:CG	3:Vl:127:THR:O	2.69	0.41
3:Vl:107:TYR:CD2	3:Vl:126:VAL:HG23	2.53	0.41
3:2l:107:TYR:CD2	3:2l:126:VAL:HG23	2.53	0.41
3:4l:104:GLU:CG	3:4l:127:THR:O	2.69	0.41
3:bl:31:SER:CB	3:bl:127:THR:OG1	2.60	0.41
3:fl:115:SER:HA	3:fl:116:PRO:HD2	1.64	0.41
3:gl:100:GLN:NE2	3:gl:100:GLN:CA	2.73	0.41
3:ml:104:GLU:CG	3:ml:127:THR:O	2.69	0.41
3:ol:75:ARG:HA	3:ol:76:PRO:HD3	1.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:rl:104:GLU:CG	3:rl:127:THR:O	2.69	0.41
3:sl:104:GLU:CG	3:sl:127:THR:O	2.69	0.41
3:tl:27:PRO:O	3:tl:124:THR:OG1	2.22	0.41
3:vl:79:VAL:HA	3:vl:80:PRO:HD3	1.80	0.41
3:yl:79:VAL:HA	3:yl:80:PRO:HD3	1.80	0.41
1:A:532:LYS:HE3	1:A:533:PHE:CZ	2.56	0.41
1:B:489:SER:HB3	1:B:533:PHE:CE1	2.56	0.41
1:C:489:SER:HB3	1:C:533:PHE:CE1	2.56	0.41
1:E:432:ARG:NH2	1:K:269:ASP:O	2.51	0.41
1:L:489:SER:HB3	1:L:533:PHE:CE1	2.56	0.41
1:O:489:SER:HB3	1:O:533:PHE:CE1	2.56	0.41
1:Q:489:SER:HB3	1:Q:533:PHE:CE1	2.56	0.41
1:Q:532:LYS:HE3	1:Q:533:PHE:CZ	2.56	0.41
1:Q:661:PHE:HA	1:h:371:MET:SD	2.60	0.41
1:S:489:SER:HB3	1:S:533:PHE:CE1	2.56	0.41
1:T:532:LYS:HE3	1:T:533:PHE:CZ	2.56	0.41
1:W:532:LYS:HE3	1:W:533:PHE:CZ	2.56	0.41
1:X:460:LEU:HD21	1:o:488:VAL:HG12	1.99	0.41
1:Z:489:SER:HB3	1:Z:533:PHE:CE1	2.56	0.41
1:Z:532:LYS:HE3	1:Z:533:PHE:CZ	2.56	0.41
1:2:432:ARG:NH2	1:w:269:ASP:O	2.51	0.41
1:3:404:ARG:H	1:3:407:ASN:ND2	2.12	0.41
1:3:532:LYS:HE3	1:3:533:PHE:CZ	2.56	0.41
1:a:484:ARG:HD3	1:8:580:SER:O	2.20	0.41
1:b:587:ASN:HB3	3:bl:87:ARG:HH12	1.83	0.41
1:c:532:LYS:HE3	1:c:533:PHE:CZ	2.56	0.41
1:d:269:ASP:O	1:z:432:ARG:NH2	2.50	0.41
1:e:532:LYS:HE3	1:e:533:PHE:CZ	2.56	0.41
1:f:304:TRP:C	1:f:423:SER:HG	2.29	0.41
1:f:489:SER:HB3	1:f:533:PHE:CE1	2.56	0.41
1:l:532:LYS:HE3	1:l:533:PHE:CZ	2.56	0.41
1:r:489:SER:HB3	1:r:533:PHE:CE1	2.56	0.41
1:r:532:LYS:HE3	1:r:533:PHE:CZ	2.56	0.41
1:s:294:ARG:NE	1:8:697:GLU:HG3	2.36	0.41
1:u:489:SER:HB3	1:u:533:PHE:CE1	2.56	0.41
1:u:517:VAL:O	1:u:517:VAL:HG12	2.22	0.41
1:8:489:SER:HB3	1:8:533:PHE:CE1	2.56	0.41
2:Bh:95:LYS:HD3	2:Bh:99:TYR:OH	2.19	0.41
2:Jh:50:SER:C	2:Jh:51:TYR:CD2	2.99	0.41
2:Jh:117:ARG:NH1	2:Jh:138:ASP:OD2	2.54	0.41
2:Jh:131:TYR:HD1	3:Jl:112:TRP:CE3	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oh:117:ARG:NH1	2:Oh:138:ASP:OD2	2.54	0.41
2:Th:88:THR:HG22	2:Th:101:GLN:HE22	1.38	0.41
2:2h:77:LYS:HE2	2:2h:77:LYS:HB2	1.92	0.41
2:hh:39:LEU:HD12	2:hh:102:MET:HE2	2.01	0.41
2:ih:77:LYS:HE2	2:ih:77:LYS:HB2	1.92	0.41
2:mh:50:SER:C	2:mh:51:TYR:CD2	2.99	0.41
2:rh:131:TYR:HD1	3:rl:112:TRP:CE3	2.39	0.41
2:sh:77:LYS:HE2	2:sh:77:LYS:HB2	1.92	0.41
2:sh:131:TYR:HD1	3:sl:112:TRP:CE3	2.39	0.41
2:vh:131:TYR:HD1	3:vl:112:TRP:CE3	2.39	0.41
2:zh:131:TYR:HD1	3:zl:112:TRP:CE3	2.39	0.41
2:8h:72:TYR:CA	2:8h:91:ARG:NH1	2.73	0.41
3:Cl:100:GLN:HE21	3:Cl:100:GLN:CA	2.14	0.41
3:Fl:104:GLU:CG	3:Fl:127:THR:O	2.69	0.41
3:Pl:60:LEU:HD23	3:Pl:105:ALA:CB	2.34	0.41
3:Pl:104:GLU:CG	3:Pl:127:THR:O	2.69	0.41
3:Rl:33:THR:CG2	3:Rl:34:PRO:HD2	2.31	0.41
3:Rl:100:GLN:NE2	3:Rl:100:GLN:CA	2.73	0.41
3:Zl:58:GLN:NE2	3:Zl:103:ASP:O	2.55	0.41
3:al:60:LEU:HD23	3:al:105:ALA:CB	2.34	0.41
3:al:104:GLU:CG	3:al:127:THR:O	2.69	0.41
3:fl:107:TYR:CE2	3:fl:126:VAL:HG22	2.46	0.41
3:ul:107:TYR:CD2	3:ul:126:VAL:HG23	2.53	0.41
3:8l:58:GLN:NE2	3:8l:103:ASP:O	2.55	0.41
1:B:517:VAL:O	1:B:517:VAL:HG12	2.22	0.40
1:D:587:ASN:ND2	3:Dl:87:ARG:HH12	2.17	0.40
1:J:237:ASP:OD1	1:J:237:ASP:N	2.33	0.40
1:M:532:LYS:HE3	1:M:533:PHE:CZ	2.56	0.40
1:P:269:ASP:O	1:W:432:ARG:NH2	2.50	0.40
1:S:532:LYS:HE3	1:S:533:PHE:CZ	2.56	0.40
1:T:489:SER:HB3	1:T:533:PHE:CE1	2.56	0.40
1:T:587:ASN:HB3	3:Tl:87:ARG:HH12	1.83	0.40
1:U:489:SER:HB3	1:U:533:PHE:CE1	2.56	0.40
1:4:371:MET:SD	1:r:661:PHE:HA	2.60	0.40
1:5:532:LYS:HE3	1:5:533:PHE:CZ	2.56	0.40
1:a:489:SER:HB3	1:a:533:PHE:CE1	2.56	0.40
1:b:584:GLN:HE21	1:b:584:GLN:HB3	1.68	0.40
1:k:584:GLN:HE21	1:k:584:GLN:HB3	1.68	0.40
1:l:489:SER:HB3	1:l:533:PHE:CE1	2.56	0.40
1:m:489:SER:HB3	1:m:533:PHE:CE1	2.56	0.40
1:p:489:SER:HB3	1:p:533:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:489:SER:HB3	1:t:533:PHE:CE1	2.56	0.40
1:y:532:LYS:HE3	1:y:533:PHE:CZ	2.56	0.40
2:Fh:77:LYS:HE2	2:Fh:77:LYS:HB2	1.92	0.40
2:Qh:81:ASP:HA	2:Qh:84:LYS:CE	2.37	0.40
2:Qh:131:TYR:HD1	3:Ql:112:TRP:CE3	2.39	0.40
2:Sh:131:TYR:HD1	3:Sl:112:TRP:CE3	2.39	0.40
2:Uh:50:SER:C	2:Uh:51:TYR:CD2	2.99	0.40
2:Zh:117:ARG:NH1	2:Zh:138:ASP:OD2	2.54	0.40
2:lh:50:SER:C	2:lh:51:TYR:CD2	2.99	0.40
3:Al:104:GLU:CG	3:Al:127:THR:O	2.69	0.40
3:Bl:58:GLN:NE2	3:Bl:103:ASP:O	2.55	0.40
3:Bl:104:GLU:CG	3:Bl:127:THR:O	2.69	0.40
3:Cl:104:GLU:CG	3:Cl:127:THR:O	2.69	0.40
3:Dl:60:LEU:HD23	3:Dl:105:ALA:CB	2.34	0.40
3:Dl:100:GLN:HE21	3:Dl:100:GLN:CA	2.14	0.40
3:Gl:104:GLU:CG	3:Gl:127:THR:O	2.69	0.40
3:Ml:31:SER:CB	3:Ml:127:THR:OG1	2.60	0.40
3:Ol:58:GLN:NE2	3:Ol:103:ASP:O	2.55	0.40
3:2l:104:GLU:CG	3:2l:127:THR:O	2.69	0.40
3:al:31:SER:HB3	3:al:127:THR:HG1	1.79	0.40
3:dl:104:GLU:CG	3:dl:127:THR:O	2.69	0.40
3:nl:104:GLU:CG	3:nl:127:THR:O	2.69	0.40
3:sl:99:LEU:HD12	3:sl:99:LEU:HA	1.78	0.40
1:A:489:SER:HB3	1:A:533:PHE:CE1	2.56	0.40
1:B:304:TRP:C	1:B:423:SER:HG	2.29	0.40
1:D:517:VAL:O	1:D:517:VAL:HG12	2.22	0.40
1:H:532:LYS:HE3	1:H:533:PHE:CZ	2.56	0.40
1:J:489:SER:HB3	1:J:533:PHE:CE1	2.56	0.40
1:J:532:LYS:HE3	1:J:533:PHE:CZ	2.56	0.40
1:L:460:LEU:HD21	1:n:488:VAL:HG12	1.99	0.40
1:M:587:ASN:HB3	3:Ml:87:ARG:HH12	1.83	0.40
1:N:532:LYS:HE3	1:N:533:PHE:CZ	2.56	0.40
1:U:434:MET:H	1:U:434:MET:HG2	1.69	0.40
1:X:517:VAL:O	1:X:517:VAL:HG12	2.22	0.40
1:b:532:LYS:HE3	1:b:533:PHE:CZ	2.56	0.40
1:e:517:VAL:O	1:e:517:VAL:HG12	2.22	0.40
1:g:489:SER:HB3	1:g:533:PHE:CE1	2.56	0.40
1:v:237:ASP:OD1	1:v:237:ASP:N	2.34	0.40
1:v:489:SER:HB3	1:v:533:PHE:CE1	2.56	0.40
1:w:489:SER:HB3	1:w:533:PHE:CE1	2.56	0.40
1:8:404:ARG:H	1:8:407:ASN:ND2	2.12	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Fh:50:SER:C	2:Fh:51:TYR:CD2	2.99	0.40
2:Jh:39:LEU:HD12	2:Jh:102:MET:HE2	2.02	0.40
2:Jh:129:ALA:HA	2:Jh:130:PRO:HD3	1.80	0.40
2:Lh:117:ARG:NH1	2:Lh:138:ASP:OD2	2.54	0.40
2:Wh:39:LEU:HD12	2:Wh:102:MET:HE2	2.02	0.40
2:Xh:50:SER:C	2:Xh:51:TYR:CD2	2.99	0.40
2:dh:72:TYR:CA	2:dh:91:ARG:NH1	2.73	0.40
2:gh:50:SER:C	2:gh:51:TYR:CD2	2.99	0.40
2:ih:50:SER:C	2:ih:51:TYR:CD2	2.99	0.40
2:lh:131:TYR:HD1	3:ll:112:TRP:CE3	2.39	0.40
2:nh:77:LYS:HE2	2:nh:77:LYS:HB2	1.92	0.40
2:th:117:ARG:NH1	2:th:138:ASP:OD2	2.54	0.40
3:Al:58:GLN:NE2	3:Al:103:ASP:O	2.55	0.40
3:El:58:GLN:NE2	3:El:103:ASP:O	2.55	0.40
3:Hl:58:GLN:NE2	3:Hl:103:ASP:O	2.55	0.40
3:Ll:104:GLU:CG	3:Ll:127:THR:O	2.69	0.40
3:Ml:58:GLN:NE2	3:Ml:103:ASP:O	2.55	0.40
3:Rl:58:GLN:NE2	3:Rl:103:ASP:O	2.55	0.40
3:Yl:125:LYS:HD2	3:Yl:125:LYS:H	1.83	0.40
3:6l:104:GLU:CG	3:6l:127:THR:O	2.69	0.40
3:bl:58:GLN:NE2	3:bl:103:ASP:O	2.55	0.40
3:kl:33:THR:CG2	3:kl:34:PRO:HD2	2.31	0.40
3:kl:58:GLN:NE2	3:kl:103:ASP:O	2.55	0.40
3:ll:31:SER:CB	3:ll:127:THR:OG1	2.60	0.40
3:pl:58:GLN:NE2	3:pl:103:ASP:O	2.55	0.40
3:ql:58:GLN:NE2	3:ql:103:ASP:O	2.55	0.40
3:tl:104:GLU:CG	3:tl:127:THR:O	2.69	0.40
3:ul:58:GLN:NE2	3:ul:103:ASP:O	2.55	0.40
3:ul:104:GLU:CG	3:ul:127:THR:O	2.69	0.40
3:xl:99:LEU:HD12	3:xl:99:LEU:HA	1.78	0.40
3:yl:58:GLN:NE2	3:yl:103:ASP:O	2.55	0.40
3:7l:107:TYR:CE2	3:7l:126:VAL:HG22	2.46	0.40
3:7l:125:LYS:HD2	3:7l:125:LYS:H	1.83	0.40
3:8l:60:LEU:HD23	3:8l:105:ALA:CB	2.34	0.40
1:K:584:GLN:HE21	1:K:584:GLN:HB3	1.68	0.40
1:R:365:PHE:HA	1:R:366:PRO:HD3	1.93	0.40
1:R:489:SER:HB3	1:R:533:PHE:CE1	2.56	0.40
1:U:336:LEU:HD12	1:U:336:LEU:HA	1.92	0.40
1:V:489:SER:HB3	1:V:533:PHE:CE1	2.56	0.40
1:1:489:SER:HB3	1:1:533:PHE:CE1	2.56	0.40
1:3:489:SER:HB3	1:3:533:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:489:SER:HB3	1:5:533:PHE:CE1	2.56	0.40
1:e:587:ASN:ND2	3:el:87:ARG:HH12	2.17	0.40
1:i:517:VAL:O	1:i:517:VAL:HG12	2.22	0.40
1:j:489:SER:HB3	1:j:533:PHE:CE1	2.56	0.40
1:q:460:LEU:HD21	1:x:488:VAL:HG12	2.00	0.40
1:s:536:GLN:HG3	1:w:445:LEU:HD23	2.03	0.40
1:v:532:LYS:HE3	1:v:533:PHE:CZ	2.56	0.40
2:Oh:128:LYS:N	2:Oh:128:LYS:CD	2.73	0.40
2:Ph:72:TYR:CA	2:Ph:91:ARG:NH1	2.73	0.40
2:Qh:117:ARG:NH1	2:Qh:138:ASP:OD2	2.54	0.40
2:Sh:50:SER:C	2:Sh:51:TYR:CD2	2.99	0.40
2:Xh:77:LYS:HE2	2:Xh:77:LYS:HB2	1.92	0.40
2:jh:129:ALA:HA	2:jh:130:PRO:HD3	1.80	0.40
2:rh:117:ARG:NH1	2:rh:138:ASP:OD2	2.54	0.40
2:sh:50:SER:C	2:sh:51:TYR:CD2	2.99	0.40
2:vh:39:LEU:HD12	2:vh:102:MET:HE2	2.02	0.40
2:xh:101:GLN:HE21	2:xh:101:GLN:HB2	1.62	0.40
2:zh:39:LEU:HD12	2:zh:102:MET:HE2	2.02	0.40
3:Nl:58:GLN:NE2	3:Nl:103:ASP:O	2.55	0.40
3:Pl:100:GLN:NE2	3:Pl:100:GLN:CA	2.73	0.40
3:Rl:104:GLU:CG	3:Rl:127:THR:O	2.69	0.40
3:Ul:31:SER:HB3	3:Ul:127:THR:HG1	1.80	0.40
3:3l:99:LEU:HD12	3:3l:99:LEU:HA	1.78	0.40
3:cl:58:GLN:NE2	3:cl:103:ASP:O	2.55	0.40
3:el:60:LEU:HD23	3:el:105:ALA:CB	2.34	0.40
3:el:100:GLN:HE21	3:el:100:GLN:CA	2.14	0.40
3:fl:58:GLN:NE2	3:fl:103:ASP:O	2.55	0.40
3:ll:58:GLN:NE2	3:ll:103:ASP:O	2.55	0.40
3:pl:104:GLU:CG	3:pl:127:THR:O	2.69	0.40
3:sl:60:LEU:HD23	3:sl:105:ALA:CB	2.34	0.40
1:A:517:VAL:O	1:A:517:VAL:HG12	2.22	0.40
1:D:432:ARG:NH2	1:H:269:ASP:O	2.50	0.40
1:E:294:ARG:NE	1:3:697:GLU:HG3	2.37	0.40
1:G:489:SER:HB3	1:G:533:PHE:CE1	2.56	0.40
1:I:304:TRP:C	1:I:423:SER:HG	2.29	0.40
1:U:488:VAL:HG12	1:x:460:LEU:HD21	2.00	0.40
1:4:489:SER:HB3	1:4:533:PHE:CE1	2.56	0.40
1:5:484:ARG:HD3	1:p:580:SER:O	2.21	0.40
1:6:489:SER:HB3	1:6:533:PHE:CE1	2.56	0.40
1:g:587:ASN:HB3	3:gl:87:ARG:HH12	1.83	0.40
1:j:532:LYS:HE3	1:j:533:PHE:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:489:SER:HB3	1:k:533:PHE:CE1	2.56	0.40
1:p:517:VAL:O	1:p:517:VAL:HG12	2.22	0.40
2:Eh:131:TYR:HD1	3:El:112:TRP:CE3	2.39	0.40
2:Hh:50:SER:C	2:Hh:51:TYR:CD2	2.99	0.40
2:Mh:131:TYR:HD1	3:Ml:112:TRP:CE3	2.39	0.40
2:Rh:129:ALA:HA	2:Rh:130:PRO:HD3	1.80	0.40
2:Th:50:SER:C	2:Th:51:TYR:CD2	2.99	0.40
2:Wh:50:SER:C	2:Wh:51:TYR:CD2	2.99	0.40
2:Yh:131:TYR:HD1	3:Yl:112:TRP:CE3	2.39	0.40
2:hh:131:TYR:HD1	3:hl:112:TRP:CE3	2.39	0.40
2:jh:77:LYS:HE2	2:jh:77:LYS:HB2	1.92	0.40
2:ph:101:GLN:HE21	2:ph:101:GLN:HB2	1.62	0.40
2:qh:50:SER:C	2:qh:51:TYR:CD2	2.99	0.40
2:qh:131:TYR:HD1	3:ql:112:TRP:CE3	2.39	0.40
2:yh:50:SER:C	2:yh:51:TYR:CD2	2.99	0.40
2:zh:50:SER:C	2:zh:51:TYR:CD2	2.99	0.40
2:zh:117:ARG:NH1	2:zh:138:ASP:OD2	2.54	0.40
3:Hl:104:GLU:CG	3:Hl:127:THR:O	2.69	0.40
3:Jl:58:GLN:NE2	3:Jl:103:ASP:O	2.55	0.40
3:Jl:79:VAL:HA	3:Jl:80:PRO:HD3	1.80	0.40
3:Sl:58:GLN:NE2	3:Sl:103:ASP:O	2.55	0.40
3:Wl:104:GLU:CG	3:Wl:127:THR:O	2.69	0.40
3:Yl:58:GLN:NE2	3:Yl:103:ASP:O	2.55	0.40
3:2l:31:SER:CB	3:2l:127:THR:OG1	2.60	0.40
3:2l:58:GLN:NE2	3:2l:103:ASP:O	2.55	0.40
3:6l:58:GLN:NE2	3:6l:103:ASP:O	2.55	0.40
3:kl:104:GLU:CG	3:kl:127:THR:O	2.69	0.40
3:nl:75:ARG:HA	3:nl:76:PRO:HD3	1.78	0.40
3:rl:47:SER:O	3:rl:51:SER:OG	2.35	0.40
3:sl:79:VAL:HA	3:sl:80:PRO:HD3	1.80	0.40
3:sl:100:GLN:HE21	3:sl:100:GLN:CA	2.14	0.40
3:yl:104:GLU:CG	3:yl:127:THR:O	2.69	0.40
1:A:587:ASN:HB3	3:Al:87:ARG:HH12	1.85	0.40
1:A:605:VAL:HG12	1:3:627:HIS:HB3	2.03	0.40
1:C:434:MET:H	1:C:434:MET:HG2	1.69	0.40
1:F:489:SER:HB3	1:F:533:PHE:CE1	2.56	0.40
1:H:601:LEU:N	1:H:604:MET:SD	2.79	0.40
1:I:517:VAL:O	1:I:517:VAL:HG12	2.22	0.40
1:K:460:LEU:HD21	1:m:488:VAL:HG12	2.00	0.40
1:T:517:VAL:O	1:T:517:VAL:HG12	2.22	0.40
1:V:532:LYS:HE3	1:V:533:PHE:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:484:ARG:HD3	1:s:580:SER:O	2.21	0.40
1:g:517:VAL:O	1:g:517:VAL:HG12	2.22	0.40
1:h:489:SER:HB3	1:h:533:PHE:CE1	2.56	0.40
1:n:489:SER:HB3	1:n:533:PHE:CE1	2.56	0.40
1:s:488:VAL:HG12	1:w:460:LEU:HD21	1.99	0.40
1:s:489:SER:HB3	1:s:533:PHE:CE1	2.56	0.40
1:t:722:GLU:HA	1:t:723:PRO:HD3	1.92	0.40
1:w:587:ASN:HB3	3:wl:87:ARG:HH12	1.83	0.40
1:x:404:ARG:H	1:x:407:ASN:ND2	2.12	0.40
2:Dh:131:TYR:HD1	3:Dl:112:TRP:CE3	2.39	0.40
2:Nh:77:LYS:HE2	2:Nh:77:LYS:HB2	1.92	0.40
2:Rh:50:SER:C	2:Rh:51:TYR:CD2	2.99	0.40
2:Sh:88:THR:HG22	2:Sh:101:GLN:HE22	1.39	0.40
2:Th:72:TYR:CA	2:Th:91:ARG:NH1	2.73	0.40
2:Vh:129:ALA:HA	2:Vh:130:PRO:HD3	1.80	0.40
2:Xh:129:ALA:HA	2:Xh:130:PRO:HD3	1.80	0.40
2:4h:131:TYR:HD1	3:4l:112:TRP:CE3	2.39	0.40
2:5h:77:LYS:HE2	2:5h:77:LYS:HB2	1.92	0.40
2:eh:131:TYR:HD1	3:el:112:TRP:CE3	2.39	0.40
2:kh:129:ALA:HA	2:kh:130:PRO:HD3	1.80	0.40
2:yh:131:TYR:HD1	3:yl:112:TRP:CE3	2.39	0.40
2:7h:131:TYR:HD1	3:7l:112:TRP:CE3	2.39	0.40
3:Fl:58:GLN:NE2	3:Fl:103:ASP:O	2.55	0.40
3:Sl:104:GLU:CG	3:Sl:127:THR:O	2.69	0.40
3:Sl:107:TYR:CE2	3:Sl:126:VAL:HG22	2.46	0.40
3:Ul:125:LYS:HD2	3:Ul:125:LYS:H	1.83	0.40
3:Yl:107:TYR:CE2	3:Yl:126:VAL:HG22	2.46	0.40
3:dl:58:GLN:NE2	3:dl:103:ASP:O	2.55	0.40
3:il:58:GLN:NE2	3:il:103:ASP:O	2.55	0.40
3:ml:58:GLN:NE2	3:ml:103:ASP:O	2.55	0.40
3:sl:58:GLN:NE2	3:sl:103:ASP:O	2.55	0.40
3:vl:58:GLN:NE2	3:vl:103:ASP:O	2.55	0.40
3:7l:58:GLN:NE2	3:7l:103:ASP:O	2.55	0.40
3:7l:100:GLN:NE2	3:7l:100:GLN:CA	2.73	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	2	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	3	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	4	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	5	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	6	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	7	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	8	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	A	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	B	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	C	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	D	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	E	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	F	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	G	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	H	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	I	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	J	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	K	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	L	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	M	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	N	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	O	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	P	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	Q	514/533 (96%)	502 (98%)	12 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	S	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	T	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	U	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	V	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	W	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	X	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	Y	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	Z	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	a	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	b	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	c	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	d	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	e	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	f	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	g	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	h	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	i	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	j	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	k	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	l	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	m	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	n	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	o	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	p	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	q	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	r	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	s	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	t	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	u	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	v	514/533 (96%)	502 (98%)	12 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	x	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	y	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
1	z	514/533 (96%)	502 (98%)	12 (2%)	0	100	100
2	1h	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	2h	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	3h	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	4h	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	5h	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	6h	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	7h	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	8h	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Ah	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Bh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Ch	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Dh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Eh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Fh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Gh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Hh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Ih	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Jh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Kh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Lh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Mh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Nh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Oh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Ph	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Qh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Rh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Sh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	Th	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Uh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Vh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Wh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Xh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Yh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	Zh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	ah	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	bh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	ch	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	dh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	eh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	fh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	gh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	hh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	ih	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	jh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	kh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	lh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	mh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	nh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	oh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	ph	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	qh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	rh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	sh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	th	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	uh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	vh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	wh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	xh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	yh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
2	zh	123/125 (98%)	118 (96%)	3 (2%)	2 (2%)	7	25
3	1l	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	2l	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	3l	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	4l	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	5l	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	6l	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	7l	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	8l	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Al	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Bl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Cl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Dl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	El	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Fl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Gl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Hl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Il	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Jl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Kl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Ll	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Ml	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Nl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Ol	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Pl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Ql	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Rl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Sl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Tl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Ul	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	Vl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Wl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Xl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Yl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	Zl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	al	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	bl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	cl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	dl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	el	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	fl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	gl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	hl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	il	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	jl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	kl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	ll	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	ml	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	nl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	ol	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	pl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	ql	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	rl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	sl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	tl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	ul	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	vl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	wl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	xl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	yl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22
3	zl	105/107 (98%)	100 (95%)	3 (3%)	2 (2%)	6	22

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	44520/45900 (97%)	43200 (97%)	1080 (2%)	240 (0%)	26 53

All (240) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	Al	115	SER
3	Al	116	PRO
3	Bl	115	SER
3	Bl	116	PRO
3	Cl	115	SER
3	Cl	116	PRO
3	Dl	115	SER
3	Dl	116	PRO
3	El	115	SER
3	El	116	PRO
3	Fl	115	SER
3	Fl	116	PRO
3	Gl	115	SER
3	Gl	116	PRO
3	Hl	115	SER
3	Hl	116	PRO
3	Il	115	SER
3	Il	116	PRO
3	Jl	115	SER
3	Jl	116	PRO
3	Kl	115	SER
3	Kl	116	PRO
3	Ll	115	SER
3	Ll	116	PRO
3	Ml	115	SER
3	Ml	116	PRO
3	Nl	115	SER
3	Nl	116	PRO
3	Ol	115	SER
3	Ol	116	PRO
3	Pl	115	SER
3	Pl	116	PRO
3	Ql	115	SER
3	Ql	116	PRO
3	Rl	115	SER
3	Rl	116	PRO
3	Sl	115	SER

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Mol	Chain	Res	Type
3	Sl	116	PRO
3	Tl	115	SER
3	Tl	116	PRO
3	Ul	115	SER
3	Ul	116	PRO
3	Vl	115	SER
3	Vl	116	PRO
3	Wl	115	SER
3	Wl	116	PRO
3	Xl	115	SER
3	Xl	116	PRO
3	Yl	115	SER
3	Yl	116	PRO
3	Zl	115	SER
3	Zl	116	PRO
3	1l	115	SER
3	1l	116	PRO
3	2l	115	SER
3	2l	116	PRO
3	3l	115	SER
3	3l	116	PRO
3	4l	115	SER
3	4l	116	PRO
3	5l	115	SER
3	5l	116	PRO
3	6l	115	SER
3	6l	116	PRO
3	al	115	SER
3	al	116	PRO
3	bl	115	SER
3	bl	116	PRO
3	cl	115	SER
3	cl	116	PRO
3	dl	115	SER
3	dl	116	PRO
3	el	115	SER
3	el	116	PRO
3	fl	115	SER
3	fl	116	PRO
3	gl	115	SER
3	gl	116	PRO
3	hl	115	SER

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Mol	Chain	Res	Type
3	hl	116	PRO
3	il	115	SER
3	il	116	PRO
3	jl	115	SER
3	jl	116	PRO
3	kl	115	SER
3	kl	116	PRO
3	ll	115	SER
3	ll	116	PRO
3	ml	115	SER
3	ml	116	PRO
3	nl	115	SER
3	nl	116	PRO
3	ol	115	SER
3	ol	116	PRO
3	pl	115	SER
3	pl	116	PRO
3	ql	115	SER
3	ql	116	PRO
3	rl	115	SER
3	rl	116	PRO
3	sl	115	SER
3	sl	116	PRO
3	tl	115	SER
3	tl	116	PRO
3	ul	115	SER
3	ul	116	PRO
3	vl	115	SER
3	vl	116	PRO
3	wl	115	SER
3	wl	116	PRO
3	xl	115	SER
3	xl	116	PRO
3	yl	115	SER
3	yl	116	PRO
3	zl	115	SER
3	zl	116	PRO
3	7l	115	SER
3	7l	116	PRO
3	8l	115	SER
3	8l	116	PRO
2	Ah	51	TYR

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Mol	Chain	Res	Type
2	Ah	132	TYR
2	Bh	51	TYR
2	Bh	132	TYR
2	Ch	51	TYR
2	Ch	132	TYR
2	Dh	51	TYR
2	Dh	132	TYR
2	Eh	51	TYR
2	Eh	132	TYR
2	Fh	51	TYR
2	Fh	132	TYR
2	Gh	51	TYR
2	Gh	132	TYR
2	Hh	51	TYR
2	Hh	132	TYR
2	Ih	51	TYR
2	Ih	132	TYR
2	Jh	51	TYR
2	Jh	132	TYR
2	Kh	51	TYR
2	Kh	132	TYR
2	Lh	51	TYR
2	Lh	132	TYR
2	Mh	51	TYR
2	Mh	132	TYR
2	Nh	51	TYR
2	Nh	132	TYR
2	Oh	51	TYR
2	Oh	132	TYR
2	Ph	51	TYR
2	Ph	132	TYR
2	Qh	51	TYR
2	Qh	132	TYR
2	Rh	51	TYR
2	Rh	132	TYR
2	Sh	51	TYR
2	Sh	132	TYR
2	Th	51	TYR
2	Th	132	TYR
2	Uh	51	TYR
2	Uh	132	TYR
2	Vh	51	TYR

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Mol	Chain	Res	Type
2	Vh	132	TYR
2	Wh	51	TYR
2	Wh	132	TYR
2	Xh	51	TYR
2	Xh	132	TYR
2	Yh	51	TYR
2	Yh	132	TYR
2	Zh	51	TYR
2	Zh	132	TYR
2	1h	51	TYR
2	1h	132	TYR
2	2h	51	TYR
2	2h	132	TYR
2	3h	51	TYR
2	3h	132	TYR
2	4h	51	TYR
2	4h	132	TYR
2	5h	51	TYR
2	5h	132	TYR
2	6h	51	TYR
2	6h	132	TYR
2	ah	51	TYR
2	ah	132	TYR
2	bh	51	TYR
2	bh	132	TYR
2	ch	51	TYR
2	ch	132	TYR
2	dh	51	TYR
2	dh	132	TYR
2	eh	51	TYR
2	eh	132	TYR
2	fh	51	TYR
2	fh	132	TYR
2	gh	51	TYR
2	gh	132	TYR
2	hh	51	TYR
2	hh	132	TYR
2	ih	51	TYR
2	ih	132	TYR
2	jh	51	TYR
2	jh	132	TYR
2	kh	51	TYR

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Mol	Chain	Res	Type
2	kh	132	TYR
2	lh	51	TYR
2	lh	132	TYR
2	mh	51	TYR
2	mh	132	TYR
2	nh	51	TYR
2	nh	132	TYR
2	oh	51	TYR
2	oh	132	TYR
2	ph	51	TYR
2	ph	132	TYR
2	qh	51	TYR
2	qh	132	TYR
2	rh	51	TYR
2	rh	132	TYR
2	sh	51	TYR
2	sh	132	TYR
2	th	51	TYR
2	th	132	TYR
2	uh	51	TYR
2	uh	132	TYR
2	vh	51	TYR
2	vh	132	TYR
2	wh	51	TYR
2	wh	132	TYR
2	xh	51	TYR
2	xh	132	TYR
2	yh	51	TYR
2	yh	132	TYR
2	zh	51	TYR
2	zh	132	TYR
2	7h	51	TYR
2	7h	132	TYR
2	8h	51	TYR
2	8h	132	TYR

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	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	2	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	3	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	4	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	5	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	6	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	7	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	8	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	A	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	B	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	C	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	D	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	E	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	F	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	G	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	H	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	I	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	J	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	K	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	L	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	M	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	N	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	O	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	P	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	Q	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	R	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	S	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	T	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	U	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	V	458/468 (98%)	449 (98%)	9 (2%)	48 77
1	W	458/468 (98%)	449 (98%)	9 (2%)	48 77

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	X	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	Y	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	Z	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	a	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	b	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	c	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	d	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	e	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	f	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	g	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	h	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	i	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	j	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	k	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	l	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	m	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	n	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	o	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	p	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	q	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	r	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	s	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	t	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	u	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	v	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	w	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	x	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	y	458/468 (98%)	449 (98%)	9 (2%)	48	77
1	z	458/468 (98%)	449 (98%)	9 (2%)	48	77
2	1h	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	2h	101/101 (100%)	93 (92%)	8 (8%)	11	33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	3h	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	4h	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	5h	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	6h	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	7h	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	8h	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Ah	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Bh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Ch	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Dh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Eh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Fh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Gh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Hh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Ih	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Jh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Kh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Lh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Mh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Nh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Oh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Ph	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Qh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Rh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Sh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Th	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Uh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Vh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Wh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Xh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	Yh	101/101 (100%)	93 (92%)	8 (8%)	11	33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	Zh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	ah	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	bh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	ch	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	dh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	eh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	fh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	gh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	hh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	ih	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	jh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	kh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	lh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	mh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	nh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	oh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	ph	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	qh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	rh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	sh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	th	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	uh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	vh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	wh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	xh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	yh	101/101 (100%)	93 (92%)	8 (8%)	11	33
2	zh	101/101 (100%)	93 (92%)	8 (8%)	11	33
3	1l	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	2l	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	3l	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	4l	89/89 (100%)	87 (98%)	2 (2%)	45	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	5l	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	6l	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	7l	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	8l	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Al	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Bl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Cl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Dl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	El	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Fl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Gl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Hl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Il	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Jl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Kl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Ll	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Ml	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Nl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Ol	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Pl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Ql	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Rl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Sl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Tl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Ul	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Vl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Wl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Xl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Yl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	Zl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	al	89/89 (100%)	87 (98%)	2 (2%)	45	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	bl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	cl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	dl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	el	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	fl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	gl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	hl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	il	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	jl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	kl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	ll	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	ml	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	nl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	ol	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	pl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	ql	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	rl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	sl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	tl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	ul	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	vl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	wl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	xl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	yl	89/89 (100%)	87 (98%)	2 (2%)	45	75
3	zl	89/89 (100%)	87 (98%)	2 (2%)	45	75
All	All	38880/39480 (98%)	37740 (97%)	1140 (3%)	38	69

All (1140) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	235	MET
1	A	256	LEU
1	A	302	ASN

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Mol	Chain	Res	Type
1	A	322	GLU
1	A	336	LEU
1	A	403	LEU
1	A	454	THR
1	A	584	GLN
1	A	597	THR
1	B	235	MET
1	B	256	LEU
1	B	302	ASN
1	B	322	GLU
1	B	336	LEU
1	B	403	LEU
1	B	454	THR
1	B	584	GLN
1	B	597	THR
1	C	235	MET
1	C	256	LEU
1	C	302	ASN
1	C	322	GLU
1	C	336	LEU
1	C	403	LEU
1	C	454	THR
1	C	584	GLN
1	C	597	THR
1	D	235	MET
1	D	256	LEU
1	D	302	ASN
1	D	322	GLU
1	D	336	LEU
1	D	403	LEU
1	D	454	THR
1	D	584	GLN
1	D	597	THR
1	E	235	MET
1	E	256	LEU
1	E	302	ASN
1	E	322	GLU
1	E	336	LEU
1	E	403	LEU
1	E	454	THR
1	E	584	GLN
1	E	597	THR

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Mol	Chain	Res	Type
1	F	235	MET
1	F	256	LEU
1	F	302	ASN
1	F	322	GLU
1	F	336	LEU
1	F	403	LEU
1	F	454	THR
1	F	584	GLN
1	F	597	THR
1	G	235	MET
1	G	256	LEU
1	G	302	ASN
1	G	322	GLU
1	G	336	LEU
1	G	403	LEU
1	G	454	THR
1	G	584	GLN
1	G	597	THR
1	H	235	MET
1	H	256	LEU
1	H	302	ASN
1	H	322	GLU
1	H	336	LEU
1	H	403	LEU
1	H	454	THR
1	H	584	GLN
1	H	597	THR
1	I	235	MET
1	I	256	LEU
1	I	302	ASN
1	I	322	GLU
1	I	336	LEU
1	I	403	LEU
1	I	454	THR
1	I	584	GLN
1	I	597	THR
1	J	235	MET
1	J	256	LEU
1	J	302	ASN
1	J	322	GLU
1	J	336	LEU
1	J	403	LEU

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Mol	Chain	Res	Type
1	J	454	THR
1	J	584	GLN
1	J	597	THR
1	K	235	MET
1	K	256	LEU
1	K	302	ASN
1	K	322	GLU
1	K	336	LEU
1	K	403	LEU
1	K	454	THR
1	K	584	GLN
1	K	597	THR
1	L	235	MET
1	L	256	LEU
1	L	302	ASN
1	L	322	GLU
1	L	336	LEU
1	L	403	LEU
1	L	454	THR
1	L	584	GLN
1	L	597	THR
1	M	235	MET
1	M	256	LEU
1	M	302	ASN
1	M	322	GLU
1	M	336	LEU
1	M	403	LEU
1	M	454	THR
1	M	584	GLN
1	M	597	THR
1	N	235	MET
1	N	256	LEU
1	N	302	ASN
1	N	322	GLU
1	N	336	LEU
1	N	403	LEU
1	N	454	THR
1	N	584	GLN
1	N	597	THR
1	O	235	MET
1	O	256	LEU
1	O	302	ASN

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Mol	Chain	Res	Type
1	O	322	GLU
1	O	336	LEU
1	O	403	LEU
1	O	454	THR
1	O	584	GLN
1	O	597	THR
1	P	235	MET
1	P	256	LEU
1	P	302	ASN
1	P	322	GLU
1	P	336	LEU
1	P	403	LEU
1	P	454	THR
1	P	584	GLN
1	P	597	THR
1	Q	235	MET
1	Q	256	LEU
1	Q	302	ASN
1	Q	322	GLU
1	Q	336	LEU
1	Q	403	LEU
1	Q	454	THR
1	Q	584	GLN
1	Q	597	THR
1	R	235	MET
1	R	256	LEU
1	R	302	ASN
1	R	322	GLU
1	R	336	LEU
1	R	403	LEU
1	R	454	THR
1	R	584	GLN
1	R	597	THR
1	S	235	MET
1	S	256	LEU
1	S	302	ASN
1	S	322	GLU
1	S	336	LEU
1	S	403	LEU
1	S	454	THR
1	S	584	GLN
1	S	597	THR

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Mol	Chain	Res	Type
1	T	235	MET
1	T	256	LEU
1	T	302	ASN
1	T	322	GLU
1	T	336	LEU
1	T	403	LEU
1	T	454	THR
1	T	584	GLN
1	T	597	THR
1	U	235	MET
1	U	256	LEU
1	U	302	ASN
1	U	322	GLU
1	U	336	LEU
1	U	403	LEU
1	U	454	THR
1	U	584	GLN
1	U	597	THR
1	V	235	MET
1	V	256	LEU
1	V	302	ASN
1	V	322	GLU
1	V	336	LEU
1	V	403	LEU
1	V	454	THR
1	V	584	GLN
1	V	597	THR
1	W	235	MET
1	W	256	LEU
1	W	302	ASN
1	W	322	GLU
1	W	336	LEU
1	W	403	LEU
1	W	454	THR
1	W	584	GLN
1	W	597	THR
1	X	235	MET
1	X	256	LEU
1	X	302	ASN
1	X	322	GLU
1	X	336	LEU
1	X	403	LEU

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Mol	Chain	Res	Type
1	X	454	THR
1	X	584	GLN
1	X	597	THR
1	Y	235	MET
1	Y	256	LEU
1	Y	302	ASN
1	Y	322	GLU
1	Y	336	LEU
1	Y	403	LEU
1	Y	454	THR
1	Y	584	GLN
1	Y	597	THR
1	Z	235	MET
1	Z	256	LEU
1	Z	302	ASN
1	Z	322	GLU
1	Z	336	LEU
1	Z	403	LEU
1	Z	454	THR
1	Z	584	GLN
1	Z	597	THR
1	1	235	MET
1	1	256	LEU
1	1	302	ASN
1	1	322	GLU
1	1	336	LEU
1	1	403	LEU
1	1	454	THR
1	1	584	GLN
1	1	597	THR
1	2	235	MET
1	2	256	LEU
1	2	302	ASN
1	2	322	GLU
1	2	336	LEU
1	2	403	LEU
1	2	454	THR
1	2	584	GLN
1	2	597	THR
1	3	235	MET
1	3	256	LEU
1	3	302	ASN

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Mol	Chain	Res	Type
1	3	322	GLU
1	3	336	LEU
1	3	403	LEU
1	3	454	THR
1	3	584	GLN
1	3	597	THR
1	4	235	MET
1	4	256	LEU
1	4	302	ASN
1	4	322	GLU
1	4	336	LEU
1	4	403	LEU
1	4	454	THR
1	4	584	GLN
1	4	597	THR
1	5	235	MET
1	5	256	LEU
1	5	302	ASN
1	5	322	GLU
1	5	336	LEU
1	5	403	LEU
1	5	454	THR
1	5	584	GLN
1	5	597	THR
1	6	235	MET
1	6	256	LEU
1	6	302	ASN
1	6	322	GLU
1	6	336	LEU
1	6	403	LEU
1	6	454	THR
1	6	584	GLN
1	6	597	THR
1	a	235	MET
1	a	256	LEU
1	a	302	ASN
1	a	322	GLU
1	a	336	LEU
1	a	403	LEU
1	a	454	THR
1	a	584	GLN
1	a	597	THR

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Mol	Chain	Res	Type
1	b	235	MET
1	b	256	LEU
1	b	302	ASN
1	b	322	GLU
1	b	336	LEU
1	b	403	LEU
1	b	454	THR
1	b	584	GLN
1	b	597	THR
1	c	235	MET
1	c	256	LEU
1	c	302	ASN
1	c	322	GLU
1	c	336	LEU
1	c	403	LEU
1	c	454	THR
1	c	584	GLN
1	c	597	THR
1	d	235	MET
1	d	256	LEU
1	d	302	ASN
1	d	322	GLU
1	d	336	LEU
1	d	403	LEU
1	d	454	THR
1	d	584	GLN
1	d	597	THR
1	e	235	MET
1	e	256	LEU
1	e	302	ASN
1	e	322	GLU
1	e	336	LEU
1	e	403	LEU
1	e	454	THR
1	e	584	GLN
1	e	597	THR
1	f	235	MET
1	f	256	LEU
1	f	302	ASN
1	f	322	GLU
1	f	336	LEU
1	f	403	LEU

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Mol	Chain	Res	Type
1	f	454	THR
1	f	584	GLN
1	f	597	THR
1	g	235	MET
1	g	256	LEU
1	g	302	ASN
1	g	322	GLU
1	g	336	LEU
1	g	403	LEU
1	g	454	THR
1	g	584	GLN
1	g	597	THR
1	h	235	MET
1	h	256	LEU
1	h	302	ASN
1	h	322	GLU
1	h	336	LEU
1	h	403	LEU
1	h	454	THR
1	h	584	GLN
1	h	597	THR
1	i	235	MET
1	i	256	LEU
1	i	302	ASN
1	i	322	GLU
1	i	336	LEU
1	i	403	LEU
1	i	454	THR
1	i	584	GLN
1	i	597	THR
1	j	235	MET
1	j	256	LEU
1	j	302	ASN
1	j	322	GLU
1	j	336	LEU
1	j	403	LEU
1	j	454	THR
1	j	584	GLN
1	j	597	THR
1	k	235	MET
1	k	256	LEU
1	k	302	ASN

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Mol	Chain	Res	Type
1	k	322	GLU
1	k	336	LEU
1	k	403	LEU
1	k	454	THR
1	k	584	GLN
1	k	597	THR
1	l	235	MET
1	l	256	LEU
1	l	302	ASN
1	l	322	GLU
1	l	336	LEU
1	l	403	LEU
1	l	454	THR
1	l	584	GLN
1	l	597	THR
1	m	235	MET
1	m	256	LEU
1	m	302	ASN
1	m	322	GLU
1	m	336	LEU
1	m	403	LEU
1	m	454	THR
1	m	584	GLN
1	m	597	THR
1	n	235	MET
1	n	256	LEU
1	n	302	ASN
1	n	322	GLU
1	n	336	LEU
1	n	403	LEU
1	n	454	THR
1	n	584	GLN
1	n	597	THR
1	o	235	MET
1	o	256	LEU
1	o	302	ASN
1	o	322	GLU
1	o	336	LEU
1	o	403	LEU
1	o	454	THR
1	o	584	GLN
1	o	597	THR

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Mol	Chain	Res	Type
1	p	235	MET
1	p	256	LEU
1	p	302	ASN
1	p	322	GLU
1	p	336	LEU
1	p	403	LEU
1	p	454	THR
1	p	584	GLN
1	p	597	THR
1	q	235	MET
1	q	256	LEU
1	q	302	ASN
1	q	322	GLU
1	q	336	LEU
1	q	403	LEU
1	q	454	THR
1	q	584	GLN
1	q	597	THR
1	r	235	MET
1	r	256	LEU
1	r	302	ASN
1	r	322	GLU
1	r	336	LEU
1	r	403	LEU
1	r	454	THR
1	r	584	GLN
1	r	597	THR
1	s	235	MET
1	s	256	LEU
1	s	302	ASN
1	s	322	GLU
1	s	336	LEU
1	s	403	LEU
1	s	454	THR
1	s	584	GLN
1	s	597	THR
1	t	235	MET
1	t	256	LEU
1	t	302	ASN
1	t	322	GLU
1	t	336	LEU
1	t	403	LEU

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Mol	Chain	Res	Type
1	t	454	THR
1	t	584	GLN
1	t	597	THR
1	u	235	MET
1	u	256	LEU
1	u	302	ASN
1	u	322	GLU
1	u	336	LEU
1	u	403	LEU
1	u	454	THR
1	u	584	GLN
1	u	597	THR
1	v	235	MET
1	v	256	LEU
1	v	302	ASN
1	v	322	GLU
1	v	336	LEU
1	v	403	LEU
1	v	454	THR
1	v	584	GLN
1	v	597	THR
1	w	235	MET
1	w	256	LEU
1	w	302	ASN
1	w	322	GLU
1	w	336	LEU
1	w	403	LEU
1	w	454	THR
1	w	584	GLN
1	w	597	THR
1	x	235	MET
1	x	256	LEU
1	x	302	ASN
1	x	322	GLU
1	x	336	LEU
1	x	403	LEU
1	x	454	THR
1	x	584	GLN
1	x	597	THR
1	y	235	MET
1	y	256	LEU
1	y	302	ASN

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Mol	Chain	Res	Type
1	y	322	GLU
1	y	336	LEU
1	y	403	LEU
1	y	454	THR
1	y	584	GLN
1	y	597	THR
1	z	235	MET
1	z	256	LEU
1	z	302	ASN
1	z	322	GLU
1	z	336	LEU
1	z	403	LEU
1	z	454	THR
1	z	584	GLN
1	z	597	THR
1	7	235	MET
1	7	256	LEU
1	7	302	ASN
1	7	322	GLU
1	7	336	LEU
1	7	403	LEU
1	7	454	THR
1	7	584	GLN
1	7	597	THR
1	8	235	MET
1	8	256	LEU
1	8	302	ASN
1	8	322	GLU
1	8	336	LEU
1	8	403	LEU
1	8	454	THR
1	8	584	GLN
1	8	597	THR
2	Ah	25	GLU
2	Ah	86	ARG
2	Ah	88	THR
2	Ah	96	ASN
2	Ah	97	THR
2	Ah	109	ASP
2	Ah	138	ASP
2	Ah	142	GLN
2	Bh	25	GLU

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Mol	Chain	Res	Type
2	Bh	86	ARG
2	Bh	88	THR
2	Bh	96	ASN
2	Bh	97	THR
2	Bh	109	ASP
2	Bh	138	ASP
2	Bh	142	GLN
2	Ch	25	GLU
2	Ch	86	ARG
2	Ch	88	THR
2	Ch	96	ASN
2	Ch	97	THR
2	Ch	109	ASP
2	Ch	138	ASP
2	Ch	142	GLN
2	Dh	25	GLU
2	Dh	86	ARG
2	Dh	88	THR
2	Dh	96	ASN
2	Dh	97	THR
2	Dh	109	ASP
2	Dh	138	ASP
2	Dh	142	GLN
2	Eh	25	GLU
2	Eh	86	ARG
2	Eh	88	THR
2	Eh	96	ASN
2	Eh	97	THR
2	Eh	109	ASP
2	Eh	138	ASP
2	Eh	142	GLN
2	Fh	25	GLU
2	Fh	86	ARG
2	Fh	88	THR
2	Fh	96	ASN
2	Fh	97	THR
2	Fh	109	ASP
2	Fh	138	ASP
2	Fh	142	GLN
2	Gh	25	GLU
2	Gh	86	ARG
2	Gh	88	THR

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Mol	Chain	Res	Type
2	Gh	96	ASN
2	Gh	97	THR
2	Gh	109	ASP
2	Gh	138	ASP
2	Gh	142	GLN
2	Hh	25	GLU
2	Hh	86	ARG
2	Hh	88	THR
2	Hh	96	ASN
2	Hh	97	THR
2	Hh	109	ASP
2	Hh	138	ASP
2	Hh	142	GLN
2	Ih	25	GLU
2	Ih	86	ARG
2	Ih	88	THR
2	Ih	96	ASN
2	Ih	97	THR
2	Ih	109	ASP
2	Ih	138	ASP
2	Ih	142	GLN
2	Jh	25	GLU
2	Jh	86	ARG
2	Jh	88	THR
2	Jh	96	ASN
2	Jh	97	THR
2	Jh	109	ASP
2	Jh	138	ASP
2	Jh	142	GLN
2	Kh	25	GLU
2	Kh	86	ARG
2	Kh	88	THR
2	Kh	96	ASN
2	Kh	97	THR
2	Kh	109	ASP
2	Kh	138	ASP
2	Kh	142	GLN
2	Lh	25	GLU
2	Lh	86	ARG
2	Lh	88	THR
2	Lh	96	ASN
2	Lh	97	THR

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Mol	Chain	Res	Type
2	Lh	109	ASP
2	Lh	138	ASP
2	Lh	142	GLN
2	Mh	25	GLU
2	Mh	86	ARG
2	Mh	88	THR
2	Mh	96	ASN
2	Mh	97	THR
2	Mh	109	ASP
2	Mh	138	ASP
2	Mh	142	GLN
2	Nh	25	GLU
2	Nh	86	ARG
2	Nh	88	THR
2	Nh	96	ASN
2	Nh	97	THR
2	Nh	109	ASP
2	Nh	138	ASP
2	Nh	142	GLN
2	Oh	25	GLU
2	Oh	86	ARG
2	Oh	88	THR
2	Oh	96	ASN
2	Oh	97	THR
2	Oh	109	ASP
2	Oh	138	ASP
2	Oh	142	GLN
2	Ph	25	GLU
2	Ph	86	ARG
2	Ph	88	THR
2	Ph	96	ASN
2	Ph	97	THR
2	Ph	109	ASP
2	Ph	138	ASP
2	Ph	142	GLN
2	Qh	25	GLU
2	Qh	86	ARG
2	Qh	88	THR
2	Qh	96	ASN
2	Qh	97	THR
2	Qh	109	ASP
2	Qh	138	ASP

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Mol	Chain	Res	Type
2	Qh	142	GLN
2	Rh	25	GLU
2	Rh	86	ARG
2	Rh	88	THR
2	Rh	96	ASN
2	Rh	97	THR
2	Rh	109	ASP
2	Rh	138	ASP
2	Rh	142	GLN
2	Sh	25	GLU
2	Sh	86	ARG
2	Sh	88	THR
2	Sh	96	ASN
2	Sh	97	THR
2	Sh	109	ASP
2	Sh	138	ASP
2	Sh	142	GLN
2	Th	25	GLU
2	Th	86	ARG
2	Th	88	THR
2	Th	96	ASN
2	Th	97	THR
2	Th	109	ASP
2	Th	138	ASP
2	Th	142	GLN
2	Uh	25	GLU
2	Uh	86	ARG
2	Uh	88	THR
2	Uh	96	ASN
2	Uh	97	THR
2	Uh	109	ASP
2	Uh	138	ASP
2	Uh	142	GLN
2	Vh	25	GLU
2	Vh	86	ARG
2	Vh	88	THR
2	Vh	96	ASN
2	Vh	97	THR
2	Vh	109	ASP
2	Vh	138	ASP
2	Vh	142	GLN
2	Wh	25	GLU

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Mol	Chain	Res	Type
2	Wh	86	ARG
2	Wh	88	THR
2	Wh	96	ASN
2	Wh	97	THR
2	Wh	109	ASP
2	Wh	138	ASP
2	Wh	142	GLN
2	Xh	25	GLU
2	Xh	86	ARG
2	Xh	88	THR
2	Xh	96	ASN
2	Xh	97	THR
2	Xh	109	ASP
2	Xh	138	ASP
2	Xh	142	GLN
2	Yh	25	GLU
2	Yh	86	ARG
2	Yh	88	THR
2	Yh	96	ASN
2	Yh	97	THR
2	Yh	109	ASP
2	Yh	138	ASP
2	Yh	142	GLN
2	Zh	25	GLU
2	Zh	86	ARG
2	Zh	88	THR
2	Zh	96	ASN
2	Zh	97	THR
2	Zh	109	ASP
2	Zh	138	ASP
2	Zh	142	GLN
2	1h	25	GLU
2	1h	86	ARG
2	1h	88	THR
2	1h	96	ASN
2	1h	97	THR
2	1h	109	ASP
2	1h	138	ASP
2	1h	142	GLN
2	2h	25	GLU
2	2h	86	ARG
2	2h	88	THR

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Mol	Chain	Res	Type
2	2h	96	ASN
2	2h	97	THR
2	2h	109	ASP
2	2h	138	ASP
2	2h	142	GLN
2	3h	25	GLU
2	3h	86	ARG
2	3h	88	THR
2	3h	96	ASN
2	3h	97	THR
2	3h	109	ASP
2	3h	138	ASP
2	3h	142	GLN
2	4h	25	GLU
2	4h	86	ARG
2	4h	88	THR
2	4h	96	ASN
2	4h	97	THR
2	4h	109	ASP
2	4h	138	ASP
2	4h	142	GLN
2	5h	25	GLU
2	5h	86	ARG
2	5h	88	THR
2	5h	96	ASN
2	5h	97	THR
2	5h	109	ASP
2	5h	138	ASP
2	5h	142	GLN
2	6h	25	GLU
2	6h	86	ARG
2	6h	88	THR
2	6h	96	ASN
2	6h	97	THR
2	6h	109	ASP
2	6h	138	ASP
2	6h	142	GLN
2	ah	25	GLU
2	ah	86	ARG
2	ah	88	THR
2	ah	96	ASN
2	ah	97	THR

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Mol	Chain	Res	Type
2	ah	109	ASP
2	ah	138	ASP
2	ah	142	GLN
2	bh	25	GLU
2	bh	86	ARG
2	bh	88	THR
2	bh	96	ASN
2	bh	97	THR
2	bh	109	ASP
2	bh	138	ASP
2	bh	142	GLN
2	ch	25	GLU
2	ch	86	ARG
2	ch	88	THR
2	ch	96	ASN
2	ch	97	THR
2	ch	109	ASP
2	ch	138	ASP
2	ch	142	GLN
2	dh	25	GLU
2	dh	86	ARG
2	dh	88	THR
2	dh	96	ASN
2	dh	97	THR
2	dh	109	ASP
2	dh	138	ASP
2	dh	142	GLN
2	eh	25	GLU
2	eh	86	ARG
2	eh	88	THR
2	eh	96	ASN
2	eh	97	THR
2	eh	109	ASP
2	eh	138	ASP
2	eh	142	GLN
2	fh	25	GLU
2	fh	86	ARG
2	fh	88	THR
2	fh	96	ASN
2	fh	97	THR
2	fh	109	ASP
2	fh	138	ASP

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Mol	Chain	Res	Type
2	fh	142	GLN
2	gh	25	GLU
2	gh	86	ARG
2	gh	88	THR
2	gh	96	ASN
2	gh	97	THR
2	gh	109	ASP
2	gh	138	ASP
2	gh	142	GLN
2	hh	25	GLU
2	hh	86	ARG
2	hh	88	THR
2	hh	96	ASN
2	hh	97	THR
2	hh	109	ASP
2	hh	138	ASP
2	hh	142	GLN
2	ih	25	GLU
2	ih	86	ARG
2	ih	88	THR
2	ih	96	ASN
2	ih	97	THR
2	ih	109	ASP
2	ih	138	ASP
2	ih	142	GLN
2	jh	25	GLU
2	jh	86	ARG
2	jh	88	THR
2	jh	96	ASN
2	jh	97	THR
2	jh	109	ASP
2	jh	138	ASP
2	jh	142	GLN
2	kh	25	GLU
2	kh	86	ARG
2	kh	88	THR
2	kh	96	ASN
2	kh	97	THR
2	kh	109	ASP
2	kh	138	ASP
2	kh	142	GLN
2	lh	25	GLU

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Mol	Chain	Res	Type
2	lh	86	ARG
2	lh	88	THR
2	lh	96	ASN
2	lh	97	THR
2	lh	109	ASP
2	lh	138	ASP
2	lh	142	GLN
2	mh	25	GLU
2	mh	86	ARG
2	mh	88	THR
2	mh	96	ASN
2	mh	97	THR
2	mh	109	ASP
2	mh	138	ASP
2	mh	142	GLN
2	nh	25	GLU
2	nh	86	ARG
2	nh	88	THR
2	nh	96	ASN
2	nh	97	THR
2	nh	109	ASP
2	nh	138	ASP
2	nh	142	GLN
2	oh	25	GLU
2	oh	86	ARG
2	oh	88	THR
2	oh	96	ASN
2	oh	97	THR
2	oh	109	ASP
2	oh	138	ASP
2	oh	142	GLN
2	ph	25	GLU
2	ph	86	ARG
2	ph	88	THR
2	ph	96	ASN
2	ph	97	THR
2	ph	109	ASP
2	ph	138	ASP
2	ph	142	GLN
2	qh	25	GLU
2	qh	86	ARG
2	qh	88	THR

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Mol	Chain	Res	Type
2	qh	96	ASN
2	qh	97	THR
2	qh	109	ASP
2	qh	138	ASP
2	qh	142	GLN
2	rh	25	GLU
2	rh	86	ARG
2	rh	88	THR
2	rh	96	ASN
2	rh	97	THR
2	rh	109	ASP
2	rh	138	ASP
2	rh	142	GLN
2	sh	25	GLU
2	sh	86	ARG
2	sh	88	THR
2	sh	96	ASN
2	sh	97	THR
2	sh	109	ASP
2	sh	138	ASP
2	sh	142	GLN
2	th	25	GLU
2	th	86	ARG
2	th	88	THR
2	th	96	ASN
2	th	97	THR
2	th	109	ASP
2	th	138	ASP
2	th	142	GLN
2	uh	25	GLU
2	uh	86	ARG
2	uh	88	THR
2	uh	96	ASN
2	uh	97	THR
2	uh	109	ASP
2	uh	138	ASP
2	uh	142	GLN
2	vh	25	GLU
2	vh	86	ARG
2	vh	88	THR
2	vh	96	ASN
2	vh	97	THR

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Mol	Chain	Res	Type
2	vh	109	ASP
2	vh	138	ASP
2	vh	142	GLN
2	wh	25	GLU
2	wh	86	ARG
2	wh	88	THR
2	wh	96	ASN
2	wh	97	THR
2	wh	109	ASP
2	wh	138	ASP
2	wh	142	GLN
2	xh	25	GLU
2	xh	86	ARG
2	xh	88	THR
2	xh	96	ASN
2	xh	97	THR
2	xh	109	ASP
2	xh	138	ASP
2	xh	142	GLN
2	yh	25	GLU
2	yh	86	ARG
2	yh	88	THR
2	yh	96	ASN
2	yh	97	THR
2	yh	109	ASP
2	yh	138	ASP
2	yh	142	GLN
2	zh	25	GLU
2	zh	86	ARG
2	zh	88	THR
2	zh	96	ASN
2	zh	97	THR
2	zh	109	ASP
2	zh	138	ASP
2	zh	142	GLN
2	7h	25	GLU
2	7h	86	ARG
2	7h	88	THR
2	7h	96	ASN
2	7h	97	THR
2	7h	109	ASP
2	7h	138	ASP

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Mol	Chain	Res	Type
2	7h	142	GLN
2	8h	25	GLU
2	8h	86	ARG
2	8h	88	THR
2	8h	96	ASN
2	8h	97	THR
2	8h	109	ASP
2	8h	138	ASP
2	8h	142	GLN
3	Al	63	THR
3	Al	87	ARG
3	Bl	63	THR
3	Bl	87	ARG
3	Cl	63	THR
3	Cl	87	ARG
3	Dl	63	THR
3	Dl	87	ARG
3	El	63	THR
3	El	87	ARG
3	Fl	63	THR
3	Fl	87	ARG
3	Gl	63	THR
3	Gl	87	ARG
3	Hl	63	THR
3	Hl	87	ARG
3	Il	63	THR
3	Il	87	ARG
3	Jl	63	THR
3	Jl	87	ARG
3	Kl	63	THR
3	Kl	87	ARG
3	Ll	63	THR
3	Ll	87	ARG
3	Ml	63	THR
3	Ml	87	ARG
3	Nl	63	THR
3	Nl	87	ARG
3	Ol	63	THR
3	Ol	87	ARG
3	Pl	63	THR
3	Pl	87	ARG
3	Ql	63	THR

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Mol	Chain	Res	Type
3	Ql	87	ARG
3	Rl	63	THR
3	Rl	87	ARG
3	Sl	63	THR
3	Sl	87	ARG
3	Tl	63	THR
3	Tl	87	ARG
3	Ul	63	THR
3	Ul	87	ARG
3	Vl	63	THR
3	Vl	87	ARG
3	Wl	63	THR
3	Wl	87	ARG
3	Xl	63	THR
3	Xl	87	ARG
3	Yl	63	THR
3	Yl	87	ARG
3	Zl	63	THR
3	Zl	87	ARG
3	1l	63	THR
3	1l	87	ARG
3	2l	63	THR
3	2l	87	ARG
3	3l	63	THR
3	3l	87	ARG
3	4l	63	THR
3	4l	87	ARG
3	5l	63	THR
3	5l	87	ARG
3	6l	63	THR
3	6l	87	ARG
3	al	63	THR
3	al	87	ARG
3	bl	63	THR
3	bl	87	ARG
3	cl	63	THR
3	cl	87	ARG
3	dl	63	THR
3	dl	87	ARG
3	el	63	THR
3	el	87	ARG
3	fl	63	THR

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Mol	Chain	Res	Type
3	fl	87	ARG
3	gl	63	THR
3	gl	87	ARG
3	hl	63	THR
3	hl	87	ARG
3	il	63	THR
3	il	87	ARG
3	jl	63	THR
3	jl	87	ARG
3	kl	63	THR
3	kl	87	ARG
3	ll	63	THR
3	ll	87	ARG
3	ml	63	THR
3	ml	87	ARG
3	nl	63	THR
3	nl	87	ARG
3	ol	63	THR
3	ol	87	ARG
3	pl	63	THR
3	pl	87	ARG
3	ql	63	THR
3	ql	87	ARG
3	rl	63	THR
3	rl	87	ARG
3	sl	63	THR
3	sl	87	ARG
3	tl	63	THR
3	tl	87	ARG
3	ul	63	THR
3	ul	87	ARG
3	vl	63	THR
3	vl	87	ARG
3	wl	63	THR
3	wl	87	ARG
3	xl	63	THR
3	xl	87	ARG
3	yl	63	THR
3	yl	87	ARG
3	zl	63	THR
3	zl	87	ARG
3	7l	63	THR

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Mol	Chain	Res	Type
3	7l	87	ARG
3	8l	63	THR
3	8l	87	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1631) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	229	HIS
1	A	270	ASN
1	A	271	HIS
1	A	341	GLN
1	A	407	ASN
1	A	426	HIS
1	A	457	GLN
1	A	495	ASN
1	A	496	ASN
1	A	509	HIS
1	A	526	HIS
1	A	551	ASN
1	A	629	HIS
1	A	641	HIS
1	A	645	GLN
1	A	650	ASN
1	A	687	GLN
1	A	699	GLN
1	A	703	ASN
1	B	229	HIS
1	B	270	ASN
1	B	271	HIS
1	B	341	GLN
1	B	407	ASN
1	B	426	HIS
1	B	457	GLN
1	B	495	ASN
1	B	496	ASN
1	B	509	HIS
1	B	526	HIS
1	B	551	ASN
1	B	629	HIS
1	B	641	HIS
1	B	645	GLN
1	B	650	ASN

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Mol	Chain	Res	Type
1	B	687	GLN
1	B	699	GLN
1	B	703	ASN
1	C	229	HIS
1	C	270	ASN
1	C	271	HIS
1	C	341	GLN
1	C	407	ASN
1	C	426	HIS
1	C	457	GLN
1	C	495	ASN
1	C	496	ASN
1	C	509	HIS
1	C	526	HIS
1	C	551	ASN
1	C	629	HIS
1	C	641	HIS
1	C	645	GLN
1	C	650	ASN
1	C	687	GLN
1	C	699	GLN
1	C	703	ASN
1	D	229	HIS
1	D	270	ASN
1	D	271	HIS
1	D	341	GLN
1	D	407	ASN
1	D	426	HIS
1	D	457	GLN
1	D	495	ASN
1	D	496	ASN
1	D	509	HIS
1	D	526	HIS
1	D	551	ASN
1	D	629	HIS
1	D	641	HIS
1	D	645	GLN
1	D	650	ASN
1	D	687	GLN
1	D	699	GLN
1	D	703	ASN
1	E	229	HIS

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Mol	Chain	Res	Type
1	E	270	ASN
1	E	271	HIS
1	E	341	GLN
1	E	407	ASN
1	E	426	HIS
1	E	457	GLN
1	E	495	ASN
1	E	496	ASN
1	E	509	HIS
1	E	526	HIS
1	E	551	ASN
1	E	629	HIS
1	E	641	HIS
1	E	645	GLN
1	E	650	ASN
1	E	687	GLN
1	E	699	GLN
1	E	703	ASN
1	F	229	HIS
1	F	270	ASN
1	F	271	HIS
1	F	341	GLN
1	F	407	ASN
1	F	426	HIS
1	F	457	GLN
1	F	495	ASN
1	F	496	ASN
1	F	509	HIS
1	F	526	HIS
1	F	545	GLN
1	F	551	ASN
1	F	629	HIS
1	F	641	HIS
1	F	645	GLN
1	F	650	ASN
1	F	687	GLN
1	F	699	GLN
1	F	703	ASN
1	F	717	ASN
1	G	229	HIS
1	G	270	ASN
1	G	271	HIS

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Mol	Chain	Res	Type
1	G	341	GLN
1	G	407	ASN
1	G	426	HIS
1	G	457	GLN
1	G	495	ASN
1	G	496	ASN
1	G	509	HIS
1	G	526	HIS
1	G	551	ASN
1	G	629	HIS
1	G	641	HIS
1	G	645	GLN
1	G	650	ASN
1	G	687	GLN
1	G	699	GLN
1	G	703	ASN
1	H	229	HIS
1	H	270	ASN
1	H	271	HIS
1	H	341	GLN
1	H	407	ASN
1	H	426	HIS
1	H	457	GLN
1	H	495	ASN
1	H	496	ASN
1	H	526	HIS
1	H	551	ASN
1	H	629	HIS
1	H	641	HIS
1	H	645	GLN
1	H	650	ASN
1	H	687	GLN
1	H	699	GLN
1	H	703	ASN
1	H	717	ASN
1	I	229	HIS
1	I	270	ASN
1	I	271	HIS
1	I	341	GLN
1	I	407	ASN
1	I	426	HIS
1	I	457	GLN

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Mol	Chain	Res	Type
1	I	495	ASN
1	I	496	ASN
1	I	509	HIS
1	I	526	HIS
1	I	551	ASN
1	I	629	HIS
1	I	641	HIS
1	I	645	GLN
1	I	650	ASN
1	I	687	GLN
1	I	699	GLN
1	I	703	ASN
1	J	229	HIS
1	J	270	ASN
1	J	271	HIS
1	J	341	GLN
1	J	407	ASN
1	J	426	HIS
1	J	457	GLN
1	J	495	ASN
1	J	496	ASN
1	J	509	HIS
1	J	526	HIS
1	J	551	ASN
1	J	629	HIS
1	J	641	HIS
1	J	645	GLN
1	J	650	ASN
1	J	687	GLN
1	J	699	GLN
1	J	703	ASN
1	K	229	HIS
1	K	270	ASN
1	K	271	HIS
1	K	341	GLN
1	K	407	ASN
1	K	426	HIS
1	K	457	GLN
1	K	495	ASN
1	K	496	ASN
1	K	509	HIS
1	K	526	HIS

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Mol	Chain	Res	Type
1	K	551	ASN
1	K	629	HIS
1	K	641	HIS
1	K	645	GLN
1	K	650	ASN
1	K	687	GLN
1	K	699	GLN
1	K	703	ASN
1	L	229	HIS
1	L	270	ASN
1	L	271	HIS
1	L	341	GLN
1	L	407	ASN
1	L	426	HIS
1	L	457	GLN
1	L	495	ASN
1	L	496	ASN
1	L	526	HIS
1	L	551	ASN
1	L	629	HIS
1	L	641	HIS
1	L	645	GLN
1	L	650	ASN
1	L	687	GLN
1	L	699	GLN
1	L	703	ASN
1	M	229	HIS
1	M	270	ASN
1	M	271	HIS
1	M	341	GLN
1	M	407	ASN
1	M	426	HIS
1	M	457	GLN
1	M	495	ASN
1	M	496	ASN
1	M	509	HIS
1	M	526	HIS
1	M	551	ASN
1	M	629	HIS
1	M	641	HIS
1	M	645	GLN
1	M	650	ASN

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Mol	Chain	Res	Type
1	M	687	GLN
1	M	699	GLN
1	M	703	ASN
1	N	229	HIS
1	N	270	ASN
1	N	271	HIS
1	N	341	GLN
1	N	407	ASN
1	N	426	HIS
1	N	457	GLN
1	N	495	ASN
1	N	496	ASN
1	N	509	HIS
1	N	526	HIS
1	N	551	ASN
1	N	629	HIS
1	N	641	HIS
1	N	645	GLN
1	N	650	ASN
1	N	687	GLN
1	N	699	GLN
1	N	703	ASN
1	O	229	HIS
1	O	270	ASN
1	O	271	HIS
1	O	341	GLN
1	O	407	ASN
1	O	426	HIS
1	O	457	GLN
1	O	495	ASN
1	O	496	ASN
1	O	509	HIS
1	O	526	HIS
1	O	551	ASN
1	O	629	HIS
1	O	641	HIS
1	O	645	GLN
1	O	650	ASN
1	O	687	GLN
1	O	699	GLN
1	O	703	ASN
1	P	229	HIS

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Mol	Chain	Res	Type
1	P	270	ASN
1	P	271	HIS
1	P	341	GLN
1	P	407	ASN
1	P	426	HIS
1	P	457	GLN
1	P	495	ASN
1	P	496	ASN
1	P	509	HIS
1	P	526	HIS
1	P	551	ASN
1	P	629	HIS
1	P	641	HIS
1	P	645	GLN
1	P	650	ASN
1	P	687	GLN
1	P	699	GLN
1	P	703	ASN
1	Q	229	HIS
1	Q	270	ASN
1	Q	271	HIS
1	Q	341	GLN
1	Q	407	ASN
1	Q	426	HIS
1	Q	457	GLN
1	Q	495	ASN
1	Q	496	ASN
1	Q	509	HIS
1	Q	526	HIS
1	Q	551	ASN
1	Q	629	HIS
1	Q	641	HIS
1	Q	645	GLN
1	Q	650	ASN
1	Q	687	GLN
1	Q	699	GLN
1	Q	703	ASN
1	R	229	HIS
1	R	270	ASN
1	R	271	HIS
1	R	341	GLN
1	R	407	ASN

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Mol	Chain	Res	Type
1	R	426	HIS
1	R	457	GLN
1	R	495	ASN
1	R	496	ASN
1	R	509	HIS
1	R	526	HIS
1	R	551	ASN
1	R	629	HIS
1	R	641	HIS
1	R	645	GLN
1	R	650	ASN
1	R	687	GLN
1	R	699	GLN
1	R	703	ASN
1	S	229	HIS
1	S	270	ASN
1	S	271	HIS
1	S	341	GLN
1	S	407	ASN
1	S	426	HIS
1	S	457	GLN
1	S	495	ASN
1	S	496	ASN
1	S	509	HIS
1	S	526	HIS
1	S	551	ASN
1	S	629	HIS
1	S	641	HIS
1	S	645	GLN
1	S	650	ASN
1	S	687	GLN
1	S	699	GLN
1	S	703	ASN
1	T	229	HIS
1	T	270	ASN
1	T	271	HIS
1	T	341	GLN
1	T	407	ASN
1	T	426	HIS
1	T	457	GLN
1	T	495	ASN
1	T	496	ASN

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Mol	Chain	Res	Type
1	T	509	HIS
1	T	526	HIS
1	T	545	GLN
1	T	551	ASN
1	T	629	HIS
1	T	641	HIS
1	T	645	GLN
1	T	650	ASN
1	T	687	GLN
1	T	699	GLN
1	T	703	ASN
1	U	229	HIS
1	U	270	ASN
1	U	271	HIS
1	U	341	GLN
1	U	407	ASN
1	U	426	HIS
1	U	457	GLN
1	U	495	ASN
1	U	496	ASN
1	U	509	HIS
1	U	526	HIS
1	U	551	ASN
1	U	629	HIS
1	U	641	HIS
1	U	645	GLN
1	U	650	ASN
1	U	687	GLN
1	U	699	GLN
1	U	703	ASN
1	V	229	HIS
1	V	270	ASN
1	V	271	HIS
1	V	341	GLN
1	V	407	ASN
1	V	426	HIS
1	V	457	GLN
1	V	495	ASN
1	V	496	ASN
1	V	509	HIS
1	V	526	HIS
1	V	551	ASN

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Mol	Chain	Res	Type
1	V	629	HIS
1	V	641	HIS
1	V	645	GLN
1	V	650	ASN
1	V	687	GLN
1	V	699	GLN
1	V	703	ASN
1	W	229	HIS
1	W	270	ASN
1	W	271	HIS
1	W	341	GLN
1	W	407	ASN
1	W	426	HIS
1	W	457	GLN
1	W	495	ASN
1	W	496	ASN
1	W	509	HIS
1	W	526	HIS
1	W	551	ASN
1	W	629	HIS
1	W	641	HIS
1	W	645	GLN
1	W	650	ASN
1	W	687	GLN
1	W	699	GLN
1	W	703	ASN
1	X	229	HIS
1	X	270	ASN
1	X	271	HIS
1	X	341	GLN
1	X	407	ASN
1	X	426	HIS
1	X	457	GLN
1	X	495	ASN
1	X	496	ASN
1	X	509	HIS
1	X	526	HIS
1	X	545	GLN
1	X	551	ASN
1	X	629	HIS
1	X	641	HIS
1	X	645	GLN

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Mol	Chain	Res	Type
1	X	650	ASN
1	X	687	GLN
1	X	699	GLN
1	X	703	ASN
1	Y	229	HIS
1	Y	270	ASN
1	Y	271	HIS
1	Y	341	GLN
1	Y	407	ASN
1	Y	426	HIS
1	Y	457	GLN
1	Y	495	ASN
1	Y	496	ASN
1	Y	509	HIS
1	Y	518	ASN
1	Y	526	HIS
1	Y	551	ASN
1	Y	629	HIS
1	Y	641	HIS
1	Y	645	GLN
1	Y	650	ASN
1	Y	687	GLN
1	Y	699	GLN
1	Y	703	ASN
1	Z	229	HIS
1	Z	270	ASN
1	Z	271	HIS
1	Z	341	GLN
1	Z	407	ASN
1	Z	426	HIS
1	Z	457	GLN
1	Z	495	ASN
1	Z	496	ASN
1	Z	509	HIS
1	Z	526	HIS
1	Z	551	ASN
1	Z	629	HIS
1	Z	641	HIS
1	Z	645	GLN
1	Z	650	ASN
1	Z	687	GLN
1	Z	699	GLN

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Mol	Chain	Res	Type
1	Z	703	ASN
1	1	229	HIS
1	1	270	ASN
1	1	271	HIS
1	1	341	GLN
1	1	407	ASN
1	1	426	HIS
1	1	457	GLN
1	1	495	ASN
1	1	496	ASN
1	1	509	HIS
1	1	518	ASN
1	1	526	HIS
1	1	551	ASN
1	1	629	HIS
1	1	641	HIS
1	1	645	GLN
1	1	650	ASN
1	1	687	GLN
1	1	699	GLN
1	1	703	ASN
1	2	229	HIS
1	2	270	ASN
1	2	271	HIS
1	2	341	GLN
1	2	407	ASN
1	2	426	HIS
1	2	457	GLN
1	2	495	ASN
1	2	496	ASN
1	2	509	HIS
1	2	518	ASN
1	2	526	HIS
1	2	551	ASN
1	2	629	HIS
1	2	641	HIS
1	2	645	GLN
1	2	650	ASN
1	2	687	GLN
1	2	699	GLN
1	2	703	ASN
1	3	229	HIS

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Mol	Chain	Res	Type
1	3	270	ASN
1	3	271	HIS
1	3	341	GLN
1	3	407	ASN
1	3	426	HIS
1	3	457	GLN
1	3	495	ASN
1	3	496	ASN
1	3	509	HIS
1	3	526	HIS
1	3	551	ASN
1	3	629	HIS
1	3	641	HIS
1	3	645	GLN
1	3	650	ASN
1	3	687	GLN
1	3	699	GLN
1	3	703	ASN
1	4	229	HIS
1	4	270	ASN
1	4	271	HIS
1	4	341	GLN
1	4	407	ASN
1	4	426	HIS
1	4	457	GLN
1	4	495	ASN
1	4	496	ASN
1	4	509	HIS
1	4	526	HIS
1	4	551	ASN
1	4	629	HIS
1	4	641	HIS
1	4	645	GLN
1	4	650	ASN
1	4	687	GLN
1	4	699	GLN
1	4	703	ASN
1	5	229	HIS
1	5	270	ASN
1	5	271	HIS
1	5	341	GLN
1	5	407	ASN

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Mol	Chain	Res	Type
1	5	426	HIS
1	5	457	GLN
1	5	495	ASN
1	5	496	ASN
1	5	509	HIS
1	5	526	HIS
1	5	551	ASN
1	5	629	HIS
1	5	641	HIS
1	5	645	GLN
1	5	650	ASN
1	5	687	GLN
1	5	699	GLN
1	5	703	ASN
1	6	229	HIS
1	6	270	ASN
1	6	271	HIS
1	6	341	GLN
1	6	407	ASN
1	6	426	HIS
1	6	457	GLN
1	6	495	ASN
1	6	496	ASN
1	6	509	HIS
1	6	526	HIS
1	6	551	ASN
1	6	629	HIS
1	6	641	HIS
1	6	645	GLN
1	6	650	ASN
1	6	699	GLN
1	6	703	ASN
1	a	229	HIS
1	a	270	ASN
1	a	271	HIS
1	a	341	GLN
1	a	407	ASN
1	a	426	HIS
1	a	457	GLN
1	a	495	ASN
1	a	496	ASN
1	a	509	HIS

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Mol	Chain	Res	Type
1	a	526	HIS
1	a	551	ASN
1	a	629	HIS
1	a	641	HIS
1	a	645	GLN
1	a	650	ASN
1	a	687	GLN
1	a	699	GLN
1	a	703	ASN
1	b	229	HIS
1	b	270	ASN
1	b	271	HIS
1	b	341	GLN
1	b	407	ASN
1	b	426	HIS
1	b	457	GLN
1	b	495	ASN
1	b	496	ASN
1	b	509	HIS
1	b	526	HIS
1	b	551	ASN
1	b	629	HIS
1	b	641	HIS
1	b	645	GLN
1	b	650	ASN
1	b	687	GLN
1	b	699	GLN
1	b	703	ASN
1	c	229	HIS
1	c	270	ASN
1	c	271	HIS
1	c	341	GLN
1	c	407	ASN
1	c	426	HIS
1	c	457	GLN
1	c	495	ASN
1	c	496	ASN
1	c	509	HIS
1	c	526	HIS
1	c	551	ASN
1	c	629	HIS
1	c	641	HIS

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Mol	Chain	Res	Type
1	c	645	GLN
1	c	650	ASN
1	c	687	GLN
1	c	699	GLN
1	c	703	ASN
1	d	229	HIS
1	d	270	ASN
1	d	271	HIS
1	d	341	GLN
1	d	407	ASN
1	d	426	HIS
1	d	457	GLN
1	d	495	ASN
1	d	496	ASN
1	d	509	HIS
1	d	526	HIS
1	d	551	ASN
1	d	629	HIS
1	d	641	HIS
1	d	645	GLN
1	d	650	ASN
1	d	687	GLN
1	d	699	GLN
1	d	703	ASN
1	e	229	HIS
1	e	270	ASN
1	e	271	HIS
1	e	341	GLN
1	e	407	ASN
1	e	426	HIS
1	e	457	GLN
1	e	495	ASN
1	e	496	ASN
1	e	509	HIS
1	e	526	HIS
1	e	551	ASN
1	e	629	HIS
1	e	641	HIS
1	e	645	GLN
1	e	650	ASN
1	e	687	GLN
1	e	699	GLN

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Mol	Chain	Res	Type
1	e	703	ASN
1	f	229	HIS
1	f	270	ASN
1	f	271	HIS
1	f	341	GLN
1	f	407	ASN
1	f	426	HIS
1	f	457	GLN
1	f	495	ASN
1	f	496	ASN
1	f	509	HIS
1	f	526	HIS
1	f	551	ASN
1	f	629	HIS
1	f	641	HIS
1	f	645	GLN
1	f	650	ASN
1	f	687	GLN
1	f	699	GLN
1	f	703	ASN
1	g	229	HIS
1	g	270	ASN
1	g	271	HIS
1	g	341	GLN
1	g	407	ASN
1	g	426	HIS
1	g	457	GLN
1	g	495	ASN
1	g	496	ASN
1	g	509	HIS
1	g	526	HIS
1	g	545	GLN
1	g	551	ASN
1	g	629	HIS
1	g	641	HIS
1	g	645	GLN
1	g	650	ASN
1	g	687	GLN
1	g	699	GLN
1	g	703	ASN
1	h	229	HIS
1	h	270	ASN

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Mol	Chain	Res	Type
1	h	271	HIS
1	h	341	GLN
1	h	407	ASN
1	h	426	HIS
1	h	457	GLN
1	h	495	ASN
1	h	496	ASN
1	h	509	HIS
1	h	526	HIS
1	h	551	ASN
1	h	629	HIS
1	h	641	HIS
1	h	645	GLN
1	h	650	ASN
1	h	687	GLN
1	h	699	GLN
1	h	703	ASN
1	i	229	HIS
1	i	270	ASN
1	i	271	HIS
1	i	341	GLN
1	i	407	ASN
1	i	426	HIS
1	i	457	GLN
1	i	495	ASN
1	i	496	ASN
1	i	509	HIS
1	i	526	HIS
1	i	551	ASN
1	i	629	HIS
1	i	641	HIS
1	i	645	GLN
1	i	650	ASN
1	i	687	GLN
1	i	699	GLN
1	i	703	ASN
1	j	229	HIS
1	j	270	ASN
1	j	271	HIS
1	j	341	GLN
1	j	407	ASN
1	j	426	HIS

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Mol	Chain	Res	Type
1	j	457	GLN
1	j	495	ASN
1	j	496	ASN
1	j	509	HIS
1	j	526	HIS
1	j	551	ASN
1	j	629	HIS
1	j	641	HIS
1	j	645	GLN
1	j	650	ASN
1	j	687	GLN
1	j	699	GLN
1	j	703	ASN
1	k	229	HIS
1	k	270	ASN
1	k	271	HIS
1	k	341	GLN
1	k	407	ASN
1	k	426	HIS
1	k	457	GLN
1	k	495	ASN
1	k	496	ASN
1	k	509	HIS
1	k	526	HIS
1	k	551	ASN
1	k	629	HIS
1	k	641	HIS
1	k	645	GLN
1	k	650	ASN
1	k	687	GLN
1	k	699	GLN
1	k	703	ASN
1	l	229	HIS
1	l	270	ASN
1	l	271	HIS
1	l	341	GLN
1	l	407	ASN
1	l	426	HIS
1	l	457	GLN
1	l	495	ASN
1	l	496	ASN
1	l	509	HIS

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Mol	Chain	Res	Type
1	l	526	HIS
1	l	551	ASN
1	l	629	HIS
1	l	641	HIS
1	l	645	GLN
1	l	650	ASN
1	l	687	GLN
1	l	699	GLN
1	l	703	ASN
1	m	229	HIS
1	m	270	ASN
1	m	271	HIS
1	m	341	GLN
1	m	407	ASN
1	m	426	HIS
1	m	457	GLN
1	m	495	ASN
1	m	496	ASN
1	m	509	HIS
1	m	526	HIS
1	m	551	ASN
1	m	629	HIS
1	m	641	HIS
1	m	645	GLN
1	m	650	ASN
1	m	687	GLN
1	m	699	GLN
1	m	703	ASN
1	n	229	HIS
1	n	270	ASN
1	n	271	HIS
1	n	341	GLN
1	n	407	ASN
1	n	426	HIS
1	n	457	GLN
1	n	495	ASN
1	n	496	ASN
1	n	509	HIS
1	n	526	HIS
1	n	551	ASN
1	n	629	HIS
1	n	641	HIS

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Mol	Chain	Res	Type
1	n	645	GLN
1	n	650	ASN
1	n	687	GLN
1	n	699	GLN
1	n	703	ASN
1	o	229	HIS
1	o	270	ASN
1	o	271	HIS
1	o	341	GLN
1	o	407	ASN
1	o	426	HIS
1	o	457	GLN
1	o	495	ASN
1	o	496	ASN
1	o	509	HIS
1	o	526	HIS
1	o	551	ASN
1	o	629	HIS
1	o	641	HIS
1	o	645	GLN
1	o	650	ASN
1	o	687	GLN
1	o	699	GLN
1	o	703	ASN
1	p	229	HIS
1	p	270	ASN
1	p	271	HIS
1	p	341	GLN
1	p	407	ASN
1	p	426	HIS
1	p	457	GLN
1	p	495	ASN
1	p	496	ASN
1	p	509	HIS
1	p	526	HIS
1	p	551	ASN
1	p	629	HIS
1	p	641	HIS
1	p	645	GLN
1	p	650	ASN
1	p	687	GLN
1	p	699	GLN

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Mol	Chain	Res	Type
1	p	703	ASN
1	q	229	HIS
1	q	270	ASN
1	q	271	HIS
1	q	341	GLN
1	q	407	ASN
1	q	426	HIS
1	q	457	GLN
1	q	495	ASN
1	q	496	ASN
1	q	509	HIS
1	q	526	HIS
1	q	551	ASN
1	q	629	HIS
1	q	641	HIS
1	q	645	GLN
1	q	650	ASN
1	q	687	GLN
1	q	699	GLN
1	q	703	ASN
1	r	229	HIS
1	r	270	ASN
1	r	271	HIS
1	r	341	GLN
1	r	407	ASN
1	r	426	HIS
1	r	457	GLN
1	r	495	ASN
1	r	496	ASN
1	r	509	HIS
1	r	526	HIS
1	r	551	ASN
1	r	629	HIS
1	r	641	HIS
1	r	645	GLN
1	r	650	ASN
1	r	687	GLN
1	r	699	GLN
1	r	703	ASN
1	s	229	HIS
1	s	270	ASN
1	s	271	HIS

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Mol	Chain	Res	Type
1	s	341	GLN
1	s	407	ASN
1	s	426	HIS
1	s	457	GLN
1	s	495	ASN
1	s	496	ASN
1	s	509	HIS
1	s	526	HIS
1	s	545	GLN
1	s	551	ASN
1	s	629	HIS
1	s	641	HIS
1	s	645	GLN
1	s	650	ASN
1	s	687	GLN
1	s	699	GLN
1	s	703	ASN
1	s	717	ASN
1	t	229	HIS
1	t	270	ASN
1	t	271	HIS
1	t	341	GLN
1	t	407	ASN
1	t	426	HIS
1	t	457	GLN
1	t	495	ASN
1	t	496	ASN
1	t	526	HIS
1	t	551	ASN
1	t	629	HIS
1	t	641	HIS
1	t	645	GLN
1	t	650	ASN
1	t	687	GLN
1	t	699	GLN
1	t	703	ASN
1	u	229	HIS
1	u	270	ASN
1	u	271	HIS
1	u	341	GLN
1	u	407	ASN
1	u	426	HIS

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Mol	Chain	Res	Type
1	u	457	GLN
1	u	495	ASN
1	u	496	ASN
1	u	509	HIS
1	u	526	HIS
1	u	551	ASN
1	u	629	HIS
1	u	641	HIS
1	u	645	GLN
1	u	650	ASN
1	u	687	GLN
1	u	699	GLN
1	u	703	ASN
1	v	229	HIS
1	v	270	ASN
1	v	271	HIS
1	v	341	GLN
1	v	407	ASN
1	v	426	HIS
1	v	457	GLN
1	v	495	ASN
1	v	496	ASN
1	v	509	HIS
1	v	526	HIS
1	v	551	ASN
1	v	629	HIS
1	v	641	HIS
1	v	645	GLN
1	v	650	ASN
1	v	687	GLN
1	v	699	GLN
1	v	703	ASN
1	w	229	HIS
1	w	270	ASN
1	w	271	HIS
1	w	341	GLN
1	w	407	ASN
1	w	426	HIS
1	w	457	GLN
1	w	495	ASN
1	w	496	ASN
1	w	509	HIS

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Mol	Chain	Res	Type
1	w	518	ASN
1	w	526	HIS
1	w	545	GLN
1	w	551	ASN
1	w	629	HIS
1	w	641	HIS
1	w	645	GLN
1	w	650	ASN
1	w	687	GLN
1	w	699	GLN
1	w	703	ASN
1	x	229	HIS
1	x	270	ASN
1	x	271	HIS
1	x	341	GLN
1	x	407	ASN
1	x	426	HIS
1	x	457	GLN
1	x	495	ASN
1	x	496	ASN
1	x	509	HIS
1	x	526	HIS
1	x	551	ASN
1	x	629	HIS
1	x	641	HIS
1	x	645	GLN
1	x	650	ASN
1	x	687	GLN
1	x	699	GLN
1	x	703	ASN
1	y	229	HIS
1	y	270	ASN
1	y	271	HIS
1	y	341	GLN
1	y	407	ASN
1	y	426	HIS
1	y	457	GLN
1	y	495	ASN
1	y	496	ASN
1	y	509	HIS
1	y	526	HIS
1	y	551	ASN

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Mol	Chain	Res	Type
1	y	629	HIS
1	y	641	HIS
1	y	645	GLN
1	y	650	ASN
1	y	687	GLN
1	y	699	GLN
1	y	703	ASN
1	y	717	ASN
1	z	229	HIS
1	z	270	ASN
1	z	271	HIS
1	z	341	GLN
1	z	407	ASN
1	z	426	HIS
1	z	457	GLN
1	z	495	ASN
1	z	496	ASN
1	z	509	HIS
1	z	526	HIS
1	z	545	GLN
1	z	551	ASN
1	z	629	HIS
1	z	641	HIS
1	z	645	GLN
1	z	650	ASN
1	z	687	GLN
1	z	699	GLN
1	z	703	ASN
1	7	229	HIS
1	7	270	ASN
1	7	271	HIS
1	7	341	GLN
1	7	407	ASN
1	7	426	HIS
1	7	457	GLN
1	7	495	ASN
1	7	496	ASN
1	7	509	HIS
1	7	518	ASN
1	7	526	HIS
1	7	551	ASN
1	7	629	HIS

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Mol	Chain	Res	Type
1	7	641	HIS
1	7	645	GLN
1	7	650	ASN
1	7	687	GLN
1	7	699	GLN
1	7	703	ASN
1	8	229	HIS
1	8	270	ASN
1	8	271	HIS
1	8	341	GLN
1	8	407	ASN
1	8	426	HIS
1	8	457	GLN
1	8	495	ASN
1	8	496	ASN
1	8	509	HIS
1	8	526	HIS
1	8	551	ASN
1	8	629	HIS
1	8	641	HIS
1	8	645	GLN
1	8	650	ASN
1	8	687	GLN
1	8	699	GLN
1	8	703	ASN
2	Ah	93	ASN
2	Ah	96	ASN
2	Ah	101	GLN
2	Ah	121	GLN
2	Ah	142	GLN
2	Bh	93	ASN
2	Bh	96	ASN
2	Bh	101	GLN
2	Bh	121	GLN
2	Bh	142	GLN
2	Ch	93	ASN
2	Ch	96	ASN
2	Ch	101	GLN
2	Ch	121	GLN
2	Ch	142	GLN
2	Dh	93	ASN
2	Dh	96	ASN

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Mol	Chain	Res	Type
2	Dh	101	GLN
2	Dh	121	GLN
2	Dh	142	GLN
2	Eh	93	ASN
2	Eh	96	ASN
2	Eh	101	GLN
2	Eh	121	GLN
2	Eh	142	GLN
2	Fh	93	ASN
2	Fh	96	ASN
2	Fh	101	GLN
2	Fh	121	GLN
2	Fh	142	GLN
2	Gh	93	ASN
2	Gh	96	ASN
2	Gh	101	GLN
2	Gh	121	GLN
2	Gh	142	GLN
2	Hh	93	ASN
2	Hh	96	ASN
2	Hh	101	GLN
2	Hh	121	GLN
2	Hh	142	GLN
2	Ih	93	ASN
2	Ih	96	ASN
2	Ih	101	GLN
2	Ih	121	GLN
2	Ih	142	GLN
2	Jh	93	ASN
2	Jh	96	ASN
2	Jh	101	GLN
2	Jh	121	GLN
2	Jh	142	GLN
2	Kh	93	ASN
2	Kh	96	ASN
2	Kh	101	GLN
2	Kh	121	GLN
2	Kh	142	GLN
2	Lh	93	ASN
2	Lh	96	ASN
2	Lh	101	GLN
2	Lh	121	GLN

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Mol	Chain	Res	Type
2	Lh	142	GLN
2	Mh	93	ASN
2	Mh	96	ASN
2	Mh	101	GLN
2	Mh	121	GLN
2	Mh	142	GLN
2	Nh	93	ASN
2	Nh	96	ASN
2	Nh	101	GLN
2	Nh	121	GLN
2	Nh	142	GLN
2	Oh	93	ASN
2	Oh	96	ASN
2	Oh	101	GLN
2	Oh	121	GLN
2	Oh	142	GLN
2	Ph	93	ASN
2	Ph	96	ASN
2	Ph	101	GLN
2	Ph	121	GLN
2	Ph	142	GLN
2	Qh	93	ASN
2	Qh	96	ASN
2	Qh	101	GLN
2	Qh	121	GLN
2	Qh	142	GLN
2	Rh	93	ASN
2	Rh	96	ASN
2	Rh	101	GLN
2	Rh	121	GLN
2	Rh	142	GLN
2	Sh	93	ASN
2	Sh	96	ASN
2	Sh	101	GLN
2	Sh	121	GLN
2	Sh	142	GLN
2	Th	93	ASN
2	Th	96	ASN
2	Th	101	GLN
2	Th	121	GLN
2	Th	142	GLN
2	Uh	93	ASN

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Mol	Chain	Res	Type
2	Uh	96	ASN
2	Uh	101	GLN
2	Uh	121	GLN
2	Uh	142	GLN
2	Vh	93	ASN
2	Vh	96	ASN
2	Vh	101	GLN
2	Vh	121	GLN
2	Vh	142	GLN
2	Wh	93	ASN
2	Wh	96	ASN
2	Wh	101	GLN
2	Wh	121	GLN
2	Wh	142	GLN
2	Xh	93	ASN
2	Xh	96	ASN
2	Xh	101	GLN
2	Xh	121	GLN
2	Xh	142	GLN
2	Yh	93	ASN
2	Yh	96	ASN
2	Yh	101	GLN
2	Yh	121	GLN
2	Yh	142	GLN
2	Zh	93	ASN
2	Zh	96	ASN
2	Zh	101	GLN
2	Zh	121	GLN
2	Zh	142	GLN
2	1h	93	ASN
2	1h	96	ASN
2	1h	101	GLN
2	1h	121	GLN
2	1h	142	GLN
2	2h	93	ASN
2	2h	96	ASN
2	2h	101	GLN
2	2h	121	GLN
2	2h	142	GLN
2	3h	93	ASN
2	3h	96	ASN
2	3h	101	GLN

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Mol	Chain	Res	Type
2	3h	121	GLN
2	3h	142	GLN
2	4h	93	ASN
2	4h	96	ASN
2	4h	101	GLN
2	4h	121	GLN
2	4h	142	GLN
2	5h	93	ASN
2	5h	96	ASN
2	5h	101	GLN
2	5h	121	GLN
2	5h	142	GLN
2	6h	93	ASN
2	6h	96	ASN
2	6h	101	GLN
2	6h	121	GLN
2	6h	142	GLN
2	ah	93	ASN
2	ah	96	ASN
2	ah	101	GLN
2	ah	121	GLN
2	ah	142	GLN
2	bh	93	ASN
2	bh	96	ASN
2	bh	101	GLN
2	bh	121	GLN
2	bh	142	GLN
2	ch	93	ASN
2	ch	96	ASN
2	ch	101	GLN
2	ch	121	GLN
2	ch	142	GLN
2	dh	96	ASN
2	dh	101	GLN
2	dh	121	GLN
2	dh	142	GLN
2	eh	93	ASN
2	eh	96	ASN
2	eh	101	GLN
2	eh	121	GLN
2	eh	142	GLN
2	fh	93	ASN

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Mol	Chain	Res	Type
2	fh	96	ASN
2	fh	101	GLN
2	fh	121	GLN
2	fh	142	GLN
2	gh	93	ASN
2	gh	96	ASN
2	gh	101	GLN
2	gh	121	GLN
2	gh	142	GLN
2	hh	93	ASN
2	hh	96	ASN
2	hh	101	GLN
2	hh	121	GLN
2	hh	142	GLN
2	ih	93	ASN
2	ih	96	ASN
2	ih	101	GLN
2	ih	121	GLN
2	ih	142	GLN
2	jh	93	ASN
2	jh	96	ASN
2	jh	101	GLN
2	jh	121	GLN
2	jh	142	GLN
2	kh	93	ASN
2	kh	96	ASN
2	kh	101	GLN
2	kh	121	GLN
2	kh	142	GLN
2	lh	93	ASN
2	lh	96	ASN
2	lh	101	GLN
2	lh	121	GLN
2	lh	142	GLN
2	mh	93	ASN
2	mh	96	ASN
2	mh	101	GLN
2	mh	121	GLN
2	mh	142	GLN
2	nh	93	ASN
2	nh	96	ASN
2	nh	101	GLN

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Mol	Chain	Res	Type
2	nh	121	GLN
2	nh	142	GLN
2	oh	93	ASN
2	oh	96	ASN
2	oh	101	GLN
2	oh	121	GLN
2	oh	142	GLN
2	ph	93	ASN
2	ph	96	ASN
2	ph	101	GLN
2	ph	121	GLN
2	ph	142	GLN
2	qh	93	ASN
2	qh	96	ASN
2	qh	101	GLN
2	qh	121	GLN
2	qh	142	GLN
2	rh	93	ASN
2	rh	96	ASN
2	rh	101	GLN
2	rh	121	GLN
2	rh	142	GLN
2	sh	93	ASN
2	sh	96	ASN
2	sh	101	GLN
2	sh	121	GLN
2	sh	142	GLN
2	th	93	ASN
2	th	96	ASN
2	th	101	GLN
2	th	121	GLN
2	th	142	GLN
2	uh	93	ASN
2	uh	96	ASN
2	uh	101	GLN
2	uh	121	GLN
2	uh	142	GLN
2	vh	93	ASN
2	vh	96	ASN
2	vh	101	GLN
2	vh	121	GLN
2	vh	142	GLN

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Mol	Chain	Res	Type
2	wh	93	ASN
2	wh	96	ASN
2	wh	101	GLN
2	wh	121	GLN
2	wh	142	GLN
2	xh	93	ASN
2	xh	96	ASN
2	xh	101	GLN
2	xh	121	GLN
2	xh	142	GLN
2	yh	93	ASN
2	yh	96	ASN
2	yh	101	GLN
2	yh	121	GLN
2	yh	142	GLN
2	zh	93	ASN
2	zh	96	ASN
2	zh	101	GLN
2	zh	121	GLN
2	zh	142	GLN
2	7h	93	ASN
2	7h	96	ASN
2	7h	101	GLN
2	7h	121	GLN
2	7h	142	GLN
2	8h	93	ASN
2	8h	96	ASN
2	8h	101	GLN
2	8h	121	GLN
2	8h	142	GLN
3	Al	52	ASN
3	Al	58	GLN
3	Al	100	GLN
3	Bl	52	ASN
3	Bl	58	GLN
3	Bl	100	GLN
3	Cl	52	ASN
3	Cl	58	GLN
3	Cl	100	GLN
3	Dl	52	ASN
3	Dl	58	GLN
3	Dl	100	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	El	52	ASN
3	El	58	GLN
3	El	100	GLN
3	Fl	52	ASN
3	Fl	58	GLN
3	Fl	100	GLN
3	Gl	52	ASN
3	Gl	58	GLN
3	Gl	100	GLN
3	Hl	52	ASN
3	Hl	58	GLN
3	Hl	100	GLN
3	Il	52	ASN
3	Il	58	GLN
3	Il	100	GLN
3	Jl	52	ASN
3	Jl	58	GLN
3	Jl	100	GLN
3	Kl	52	ASN
3	Kl	58	GLN
3	Kl	100	GLN
3	Ll	52	ASN
3	Ll	58	GLN
3	Ll	100	GLN
3	Ml	52	ASN
3	Ml	58	GLN
3	Ml	100	GLN
3	Nl	52	ASN
3	Nl	58	GLN
3	Nl	100	GLN
3	Ol	52	ASN
3	Ol	58	GLN
3	Ol	100	GLN
3	Pl	52	ASN
3	Pl	58	GLN
3	Pl	100	GLN
3	Ql	52	ASN
3	Ql	58	GLN
3	Ql	100	GLN
3	Rl	52	ASN
3	Rl	58	GLN
3	Rl	100	GLN

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Mol	Chain	Res	Type
3	Sl	52	ASN
3	Sl	58	GLN
3	Sl	100	GLN
3	Tl	52	ASN
3	Tl	58	GLN
3	Tl	100	GLN
3	Ul	52	ASN
3	Ul	58	GLN
3	Ul	100	GLN
3	Vl	52	ASN
3	Vl	58	GLN
3	Vl	100	GLN
3	Wl	52	ASN
3	Wl	58	GLN
3	Wl	100	GLN
3	Xl	52	ASN
3	Xl	58	GLN
3	Xl	100	GLN
3	Yl	52	ASN
3	Yl	58	GLN
3	Yl	100	GLN
3	Zl	52	ASN
3	Zl	58	GLN
3	Zl	100	GLN
3	1l	52	ASN
3	1l	58	GLN
3	1l	100	GLN
3	2l	52	ASN
3	2l	58	GLN
3	2l	100	GLN
3	3l	52	ASN
3	3l	58	GLN
3	3l	100	GLN
3	4l	52	ASN
3	4l	58	GLN
3	4l	100	GLN
3	5l	52	ASN
3	5l	58	GLN
3	5l	100	GLN
3	6l	52	ASN
3	6l	58	GLN
3	6l	100	GLN

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Mol	Chain	Res	Type
3	al	52	ASN
3	al	58	GLN
3	al	100	GLN
3	bl	52	ASN
3	bl	58	GLN
3	bl	100	GLN
3	cl	52	ASN
3	cl	58	GLN
3	cl	100	GLN
3	dl	52	ASN
3	dl	58	GLN
3	dl	100	GLN
3	el	52	ASN
3	el	58	GLN
3	el	100	GLN
3	fl	52	ASN
3	fl	58	GLN
3	fl	100	GLN
3	gl	52	ASN
3	gl	58	GLN
3	gl	100	GLN
3	hl	52	ASN
3	hl	58	GLN
3	hl	100	GLN
3	il	52	ASN
3	il	58	GLN
3	il	100	GLN
3	jl	52	ASN
3	jl	58	GLN
3	jl	100	GLN
3	kl	52	ASN
3	kl	58	GLN
3	kl	100	GLN
3	ll	52	ASN
3	ll	58	GLN
3	ll	100	GLN
3	ml	52	ASN
3	ml	58	GLN
3	ml	100	GLN
3	nl	52	ASN
3	nl	58	GLN
3	nl	100	GLN

Continued on next page...

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Mol	Chain	Res	Type
3	ol	52	ASN
3	ol	58	GLN
3	ol	100	GLN
3	pl	52	ASN
3	pl	58	GLN
3	pl	100	GLN
3	ql	52	ASN
3	ql	58	GLN
3	ql	100	GLN
3	rl	52	ASN
3	rl	58	GLN
3	rl	100	GLN
3	sl	52	ASN
3	sl	58	GLN
3	sl	100	GLN
3	tl	52	ASN
3	tl	58	GLN
3	tl	100	GLN
3	ul	52	ASN
3	ul	58	GLN
3	ul	100	GLN
3	vl	52	ASN
3	vl	58	GLN
3	vl	100	GLN
3	wl	52	ASN
3	wl	58	GLN
3	wl	100	GLN
3	xl	52	ASN
3	xl	58	GLN
3	xl	100	GLN
3	yl	52	ASN
3	yl	58	GLN
3	yl	100	GLN
3	zl	52	ASN
3	zl	58	GLN
3	zl	100	GLN
3	7l	52	ASN
3	7l	58	GLN
3	7l	100	GLN
3	8l	52	ASN
3	8l	58	GLN
3	8l	100	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Map visualisation

This section contains visualisations of the EMDB entry EMD-76772. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections

6.1.1 Primary map



X

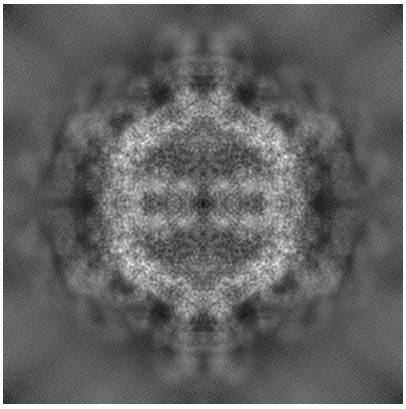


Y

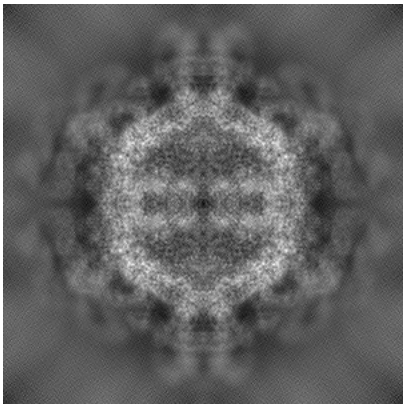


Z

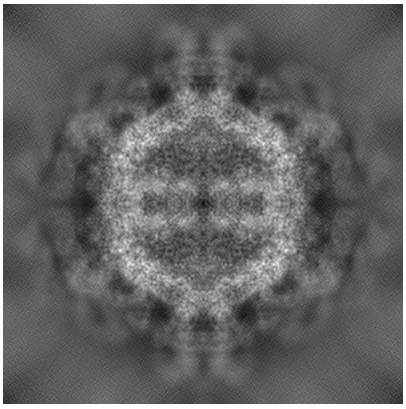
6.1.2 Raw map



X



Y

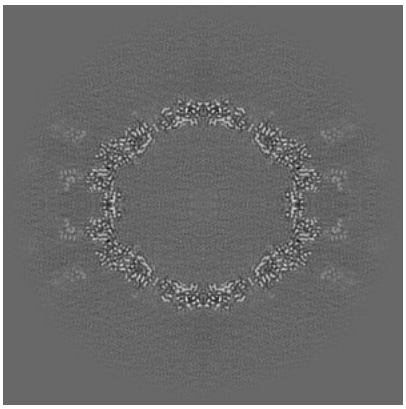


Z

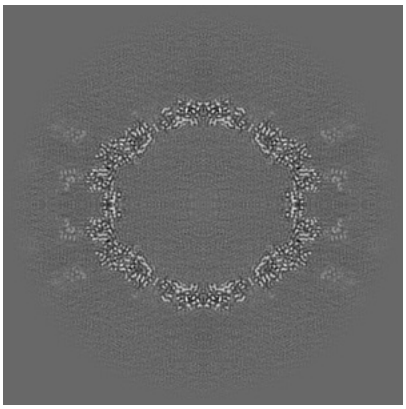
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

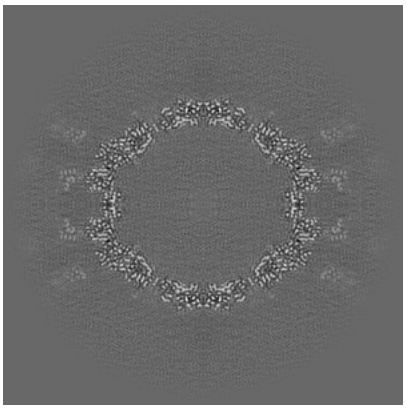
6.2.1 Primary map



X Index: 300

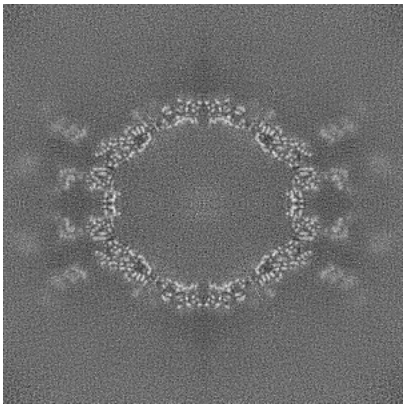


Y Index: 300

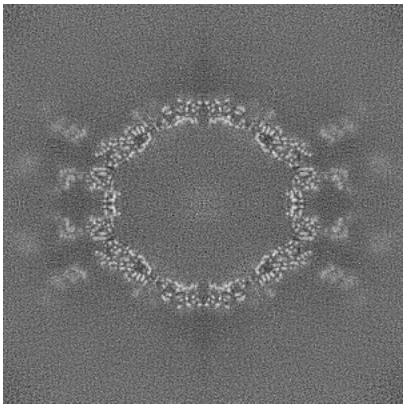


Z Index: 300

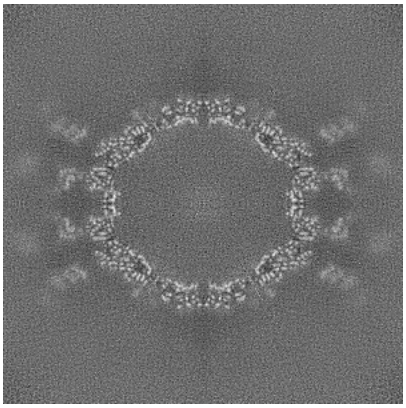
6.2.2 Raw map



X Index: 300



Y Index: 300

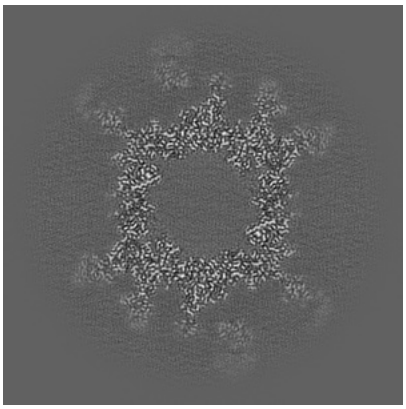


Z Index: 300

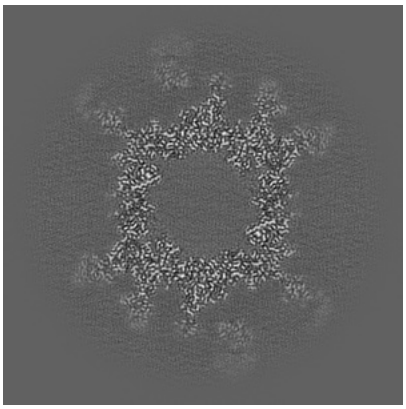
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

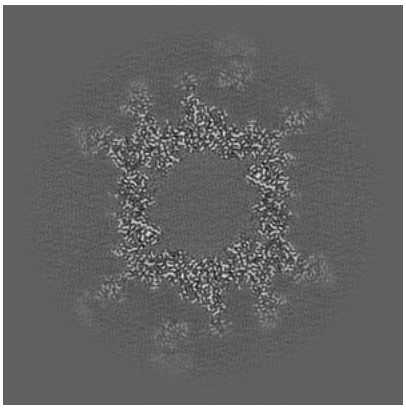
6.3.1 Primary map



X Index: 391

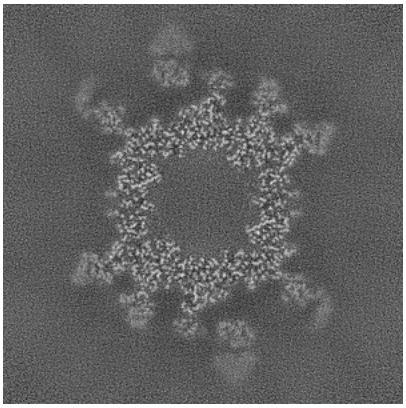


Y Index: 391

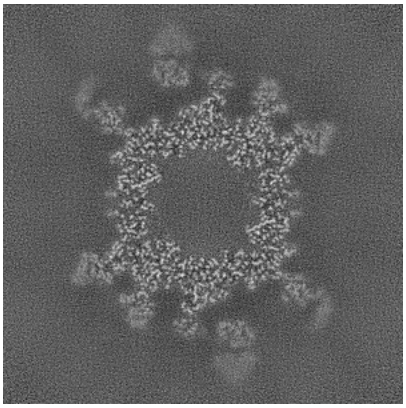


Z Index: 209

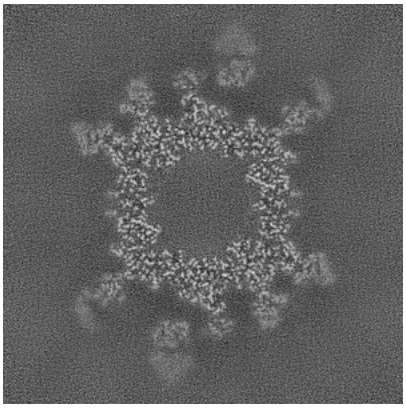
6.3.2 Raw map



X Index: 391



Y Index: 391

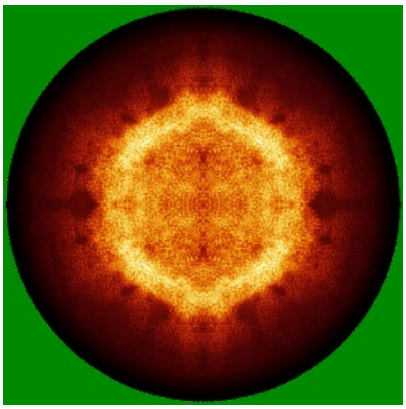


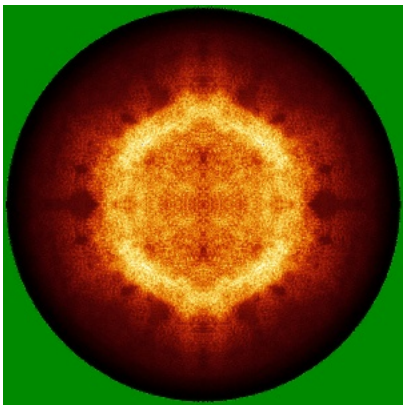
Z Index: 209

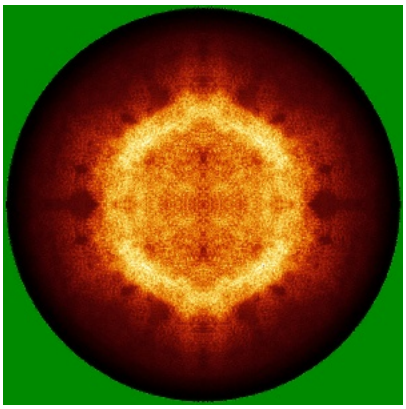
The images above show the largest variance slices of the map in three orthogonal directions.

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

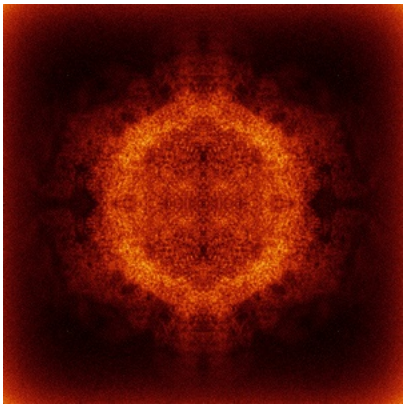
6.4.1 Primary map

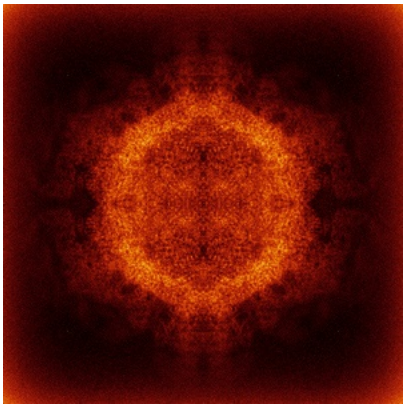

X

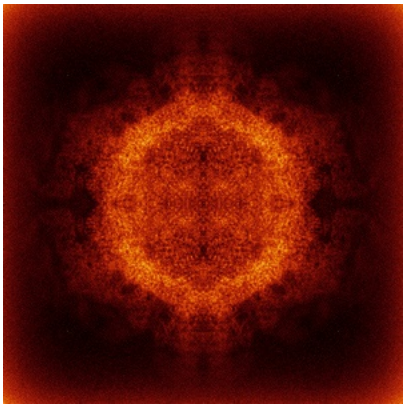

Y


Z

6.4.2 Raw map


X

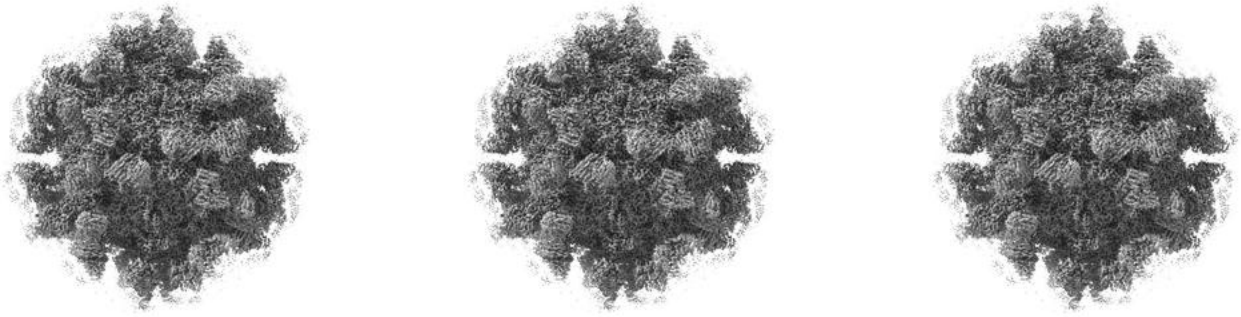

Y


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

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

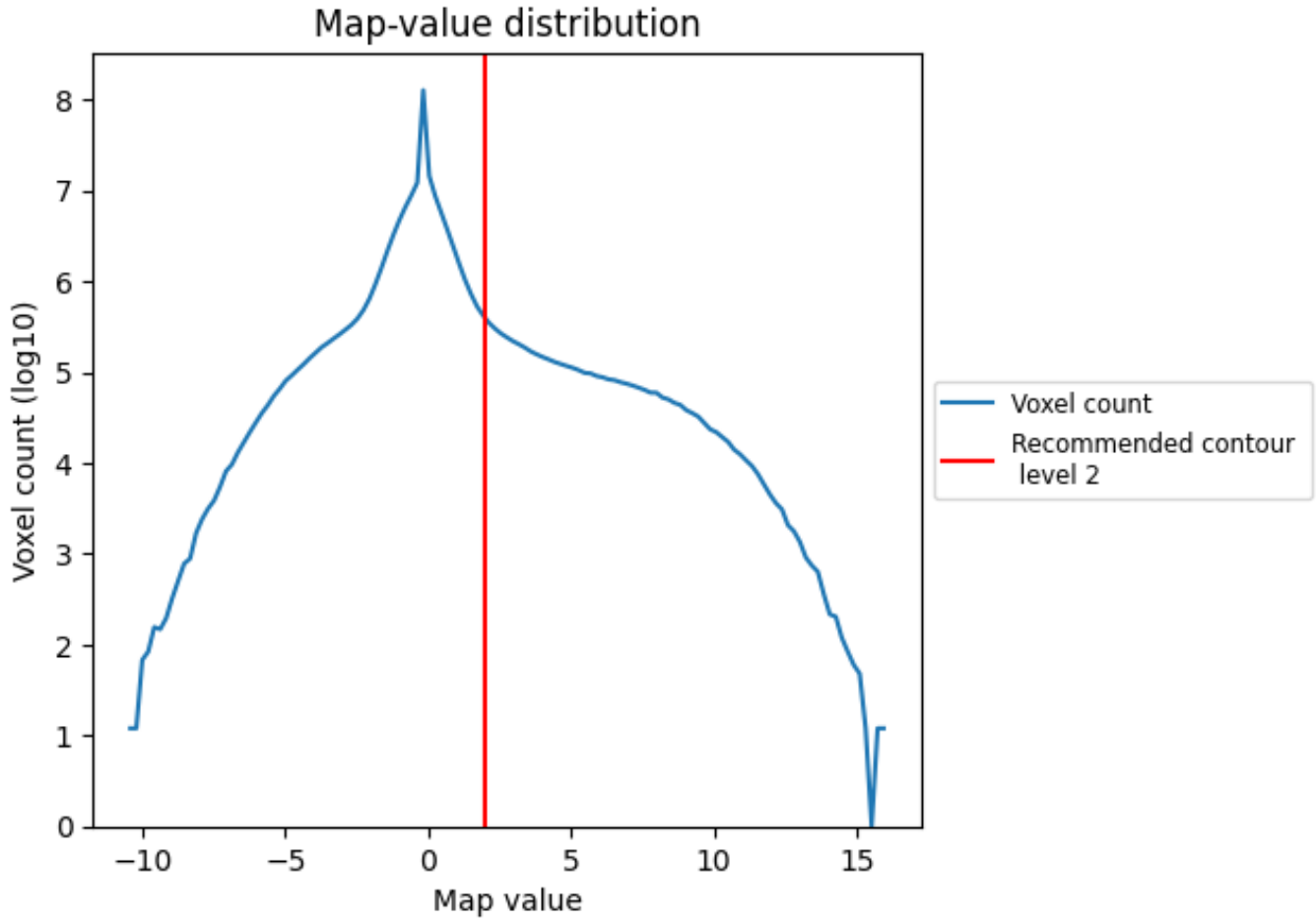
6.6 Mask visualisation (i)

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

7 Map analysis

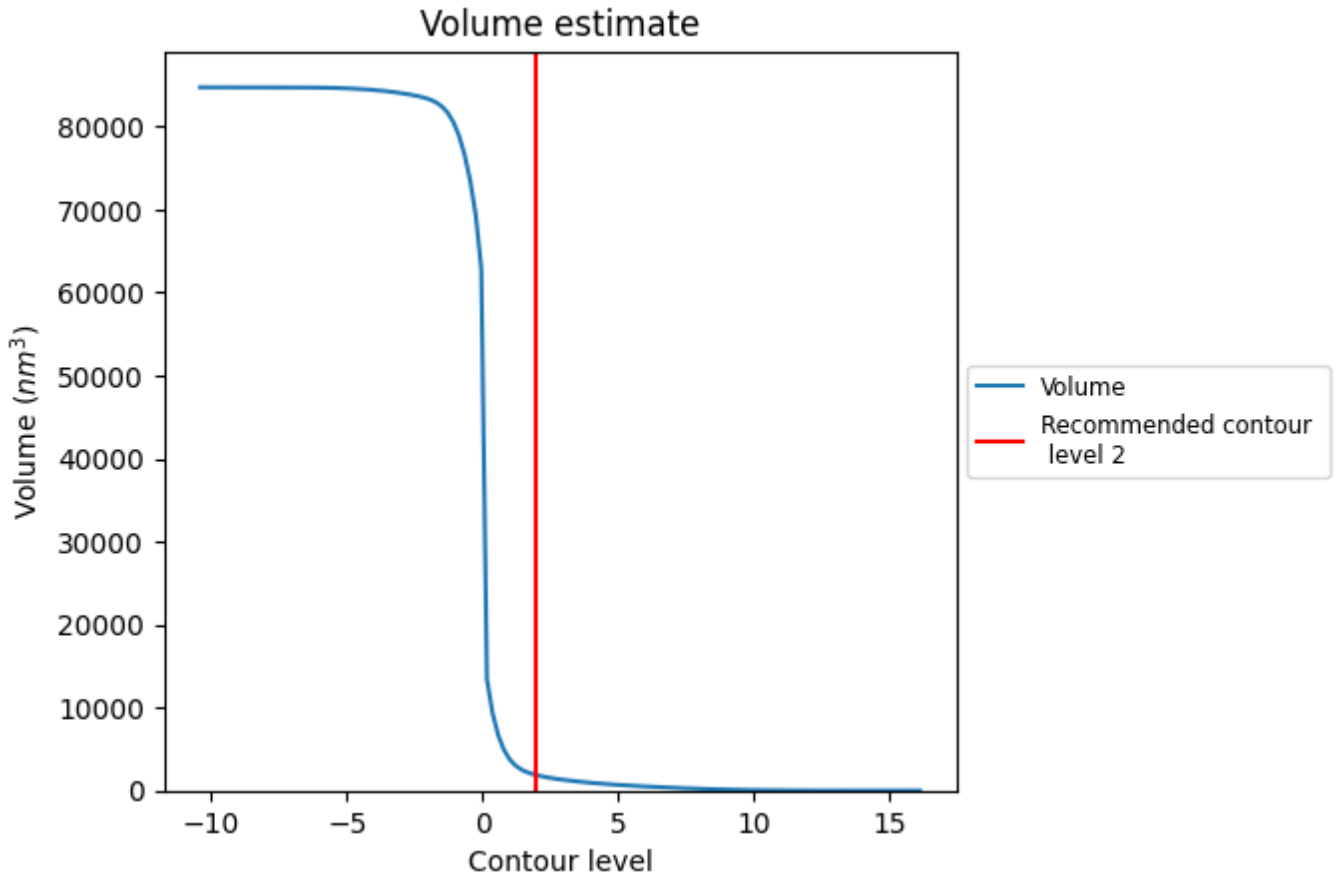
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

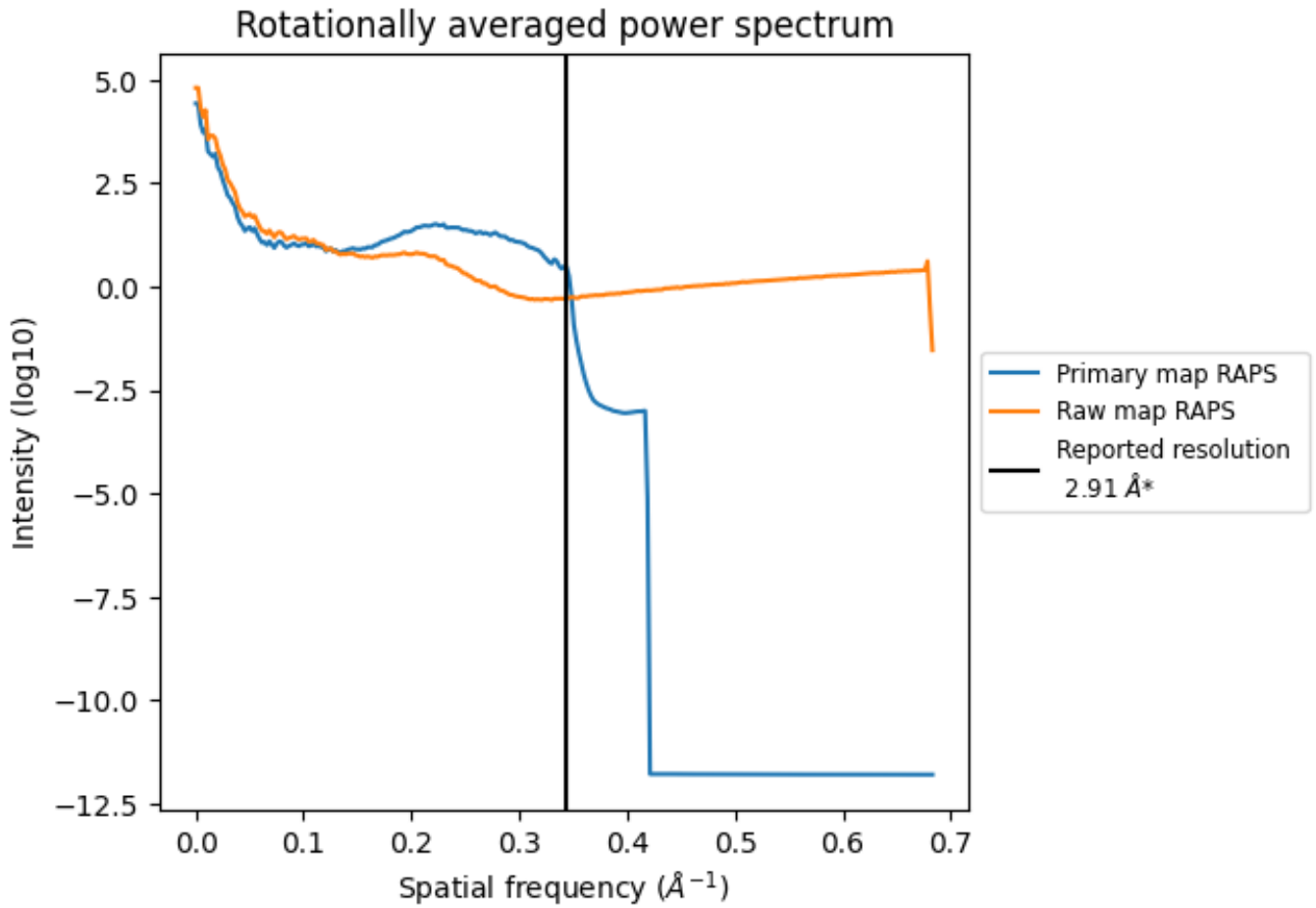
7.2 Volume estimate



The volume at the recommended contour level is 1860 nm^3; this corresponds to an approximate mass of 1680 kDa.

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

7.3 Rotationally averaged power spectrum (i)

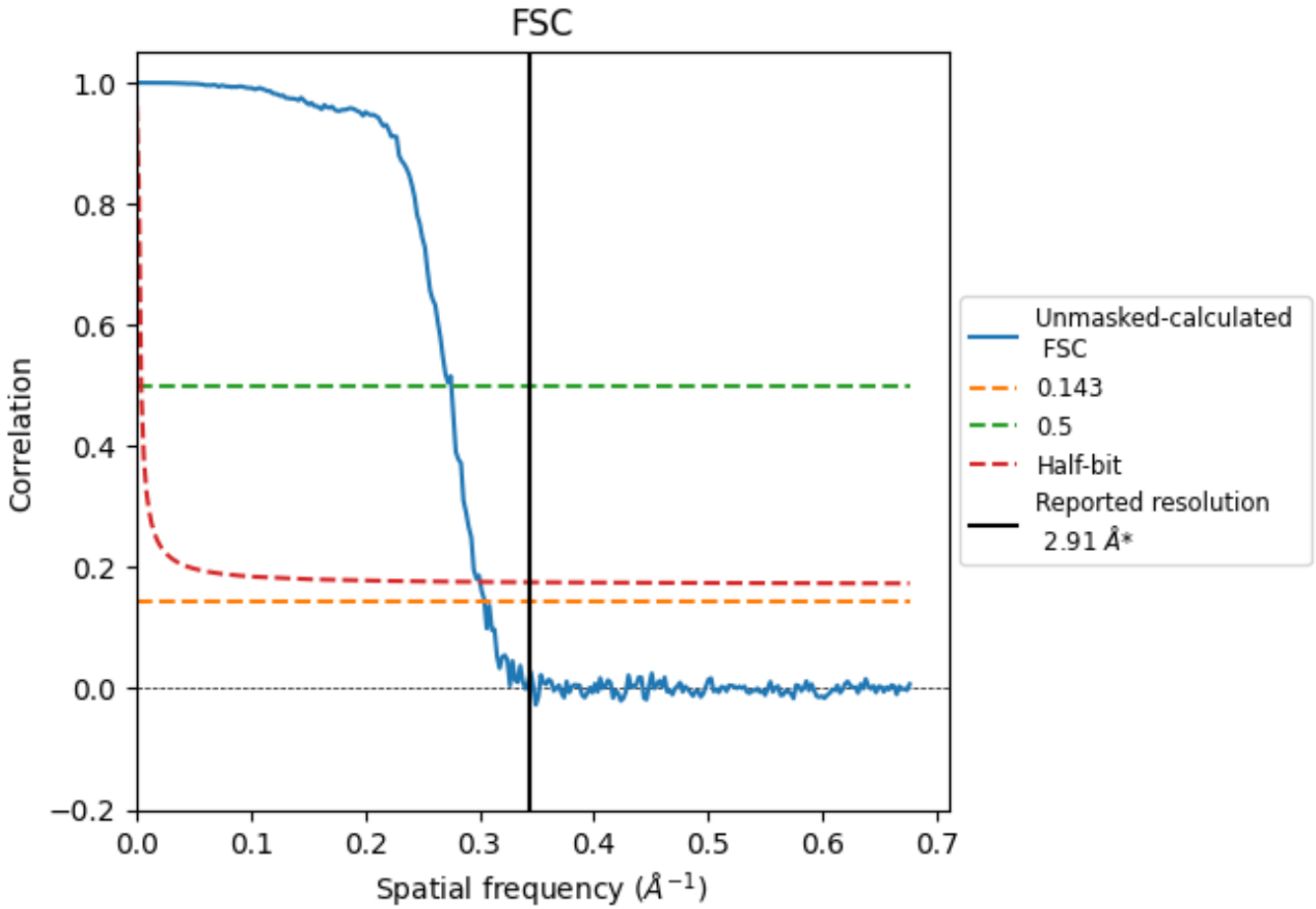


*Reported resolution corresponds to spatial frequency of 0.344 $Å^{-1}$

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.344 Å^{-1}

8.2 Resolution estimates (i)

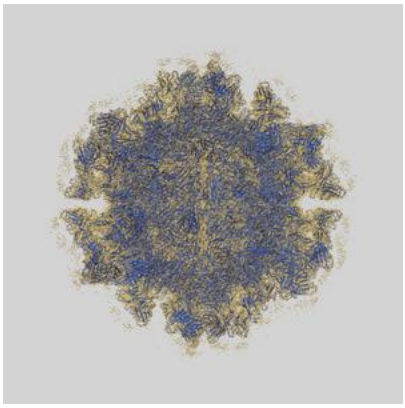
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.91	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.29	3.63	3.33

*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 3.29 differs from the reported value 2.91 by more than 10 %

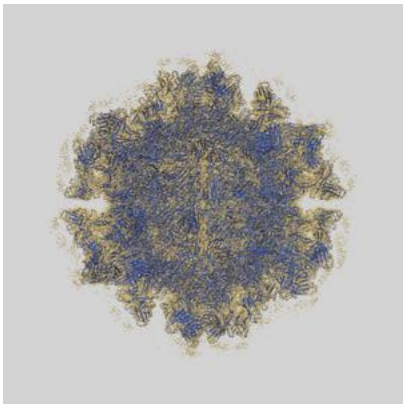
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-76772 and PDB model 12UU. Per-residue inclusion information can be found in section 3 on page 20.

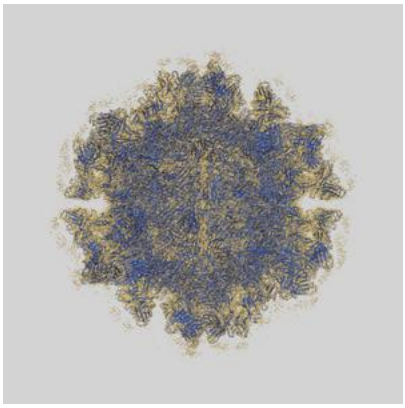
9.1 Map-model overlay



X



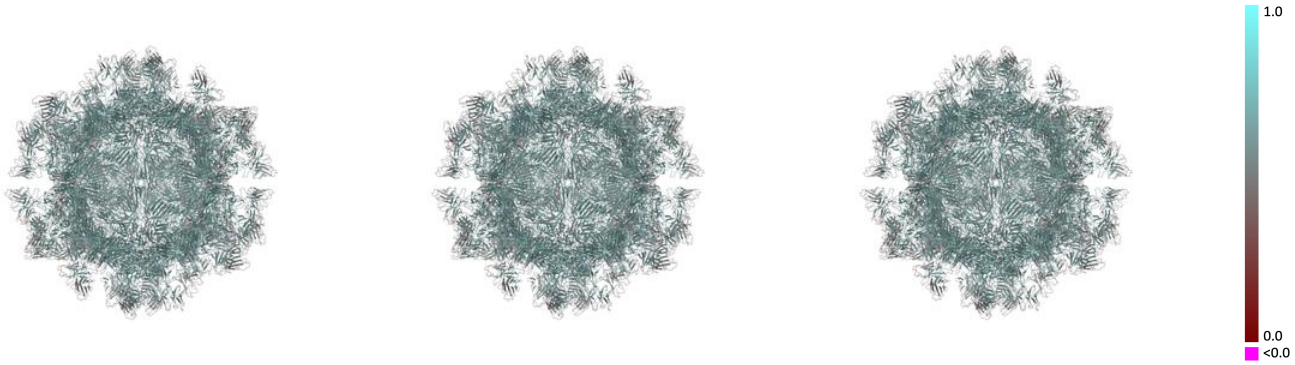
Y



Z

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

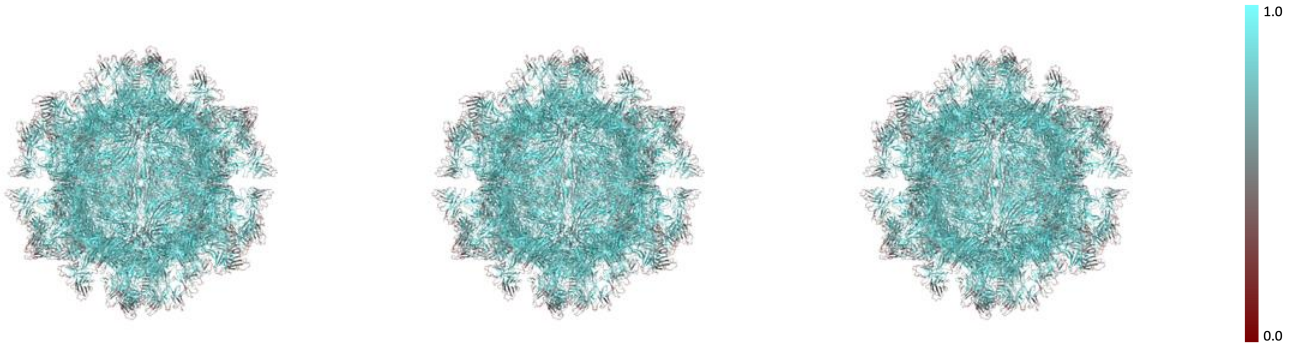
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

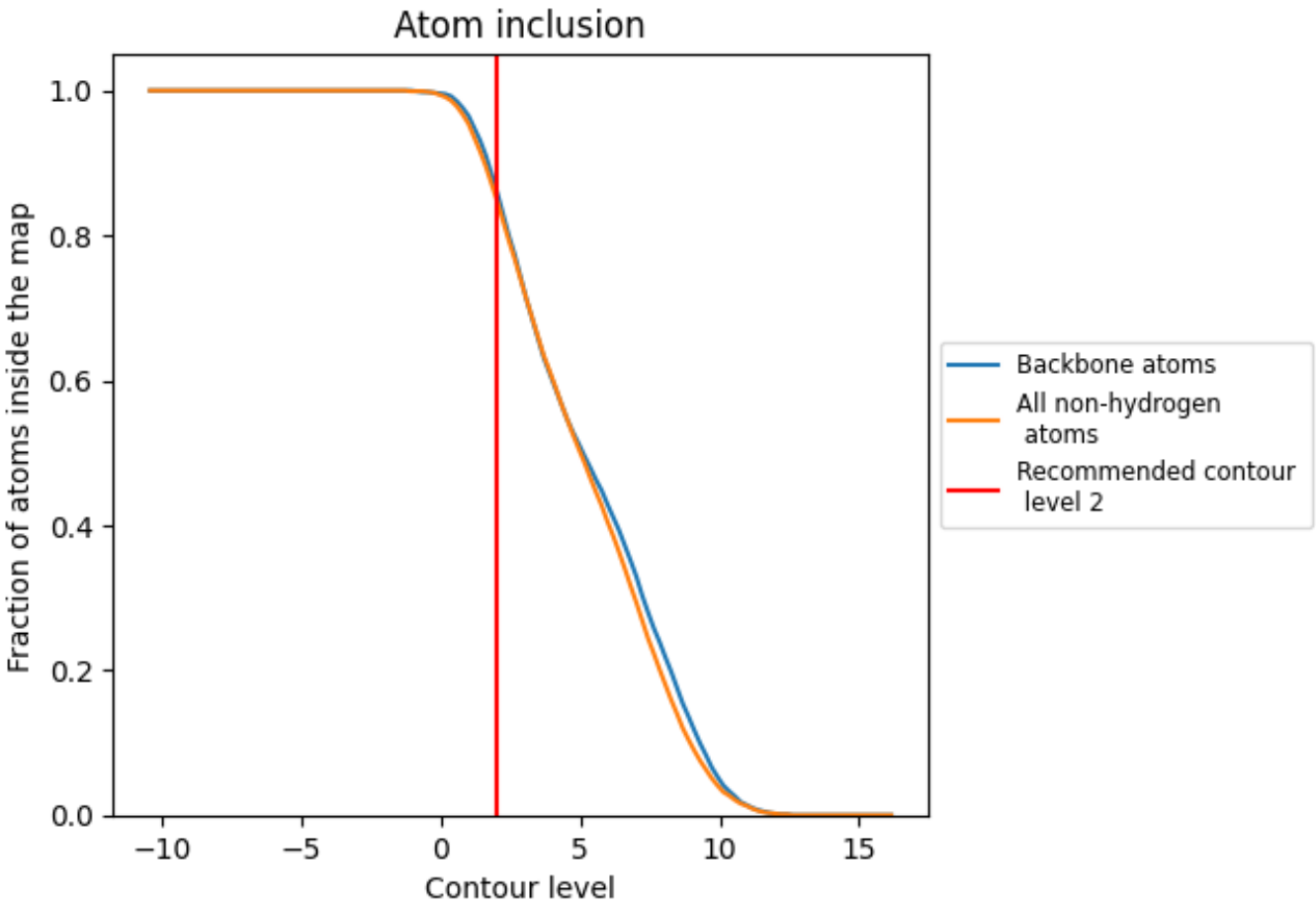
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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

9.4 Atom inclusion (i)



At the recommended contour level, 86% of all backbone atoms, 85% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8510	0.5940
1	0.9370	0.6220
1h	0.6440	0.5280
1l	0.6710	0.5390
2	0.9370	0.6210
2h	0.6440	0.5260
2l	0.6710	0.5370
3	0.9370	0.6230
3h	0.6440	0.5240
3l	0.6710	0.5380
4	0.9370	0.6230
4h	0.6440	0.5260
4l	0.6710	0.5380
5	0.9370	0.6230
5h	0.6440	0.5250
5l	0.6710	0.5390
6	0.9370	0.6240
6h	0.6440	0.5260
6l	0.6710	0.5400
7	0.9360	0.6220
7h	0.6350	0.5230
7l	0.6640	0.5350
8	0.9360	0.6210
8h	0.6260	0.5250
8l	0.6540	0.5380
A	0.9380	0.6240
Ah	0.6440	0.5290
Al	0.6740	0.5400
B	0.9350	0.6220
Bh	0.6380	0.5250
Bl	0.6610	0.5320
C	0.9390	0.6210
Ch	0.6490	0.5240
Cl	0.6770	0.5350
D	0.9360	0.6220



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Chain	Atom inclusion	Q-score
Dh	0.6350	0.5250
Dl	0.6640	0.5350
E	0.9350	0.6220
Eh	0.6260	0.5260
El	0.6530	0.5360
F	0.9370	0.6220
Fh	0.6440	0.5270
Fl	0.6710	0.5360
G	0.9350	0.6220
Gh	0.6260	0.5250
Gl	0.6530	0.5360
H	0.9370	0.6210
Hh	0.6350	0.5210
Hl	0.6640	0.5340
I	0.9380	0.6210
Ih	0.6490	0.5250
Il	0.6770	0.5330
J	0.9360	0.6220
Jh	0.6380	0.5280
Jl	0.6610	0.5330
K	0.9380	0.6220
Kh	0.6490	0.5220
Kl	0.6770	0.5350
L	0.9360	0.6220
Lh	0.6380	0.5270
Ll	0.6610	0.5330
M	0.9350	0.6240
Mh	0.6260	0.5270
Ml	0.6530	0.5370
N	0.9360	0.6230
Nh	0.6350	0.5220
Nl	0.6640	0.5350
O	0.9360	0.6230
Oh	0.6260	0.5260
Ol	0.6540	0.5350
P	0.9370	0.6240
Ph	0.6350	0.5210
Pl	0.6640	0.5340
Q	0.9380	0.6240
Qh	0.6490	0.5220
Ql	0.6770	0.5320
R	0.9350	0.6210

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Chain	Atom inclusion	Q-score
Rh	0.6380	0.5260
Rl	0.6610	0.5340
S	0.9360	0.6230
Sh	0.6380	0.5270
Sl	0.6610	0.5320
T	0.9380	0.6220
Th	0.6490	0.5240
Tl	0.6770	0.5330
U	0.9360	0.6220
Uh	0.6380	0.5270
Ul	0.6610	0.5310
V	0.9390	0.6230
Vh	0.6490	0.5250
Vl	0.6770	0.5330
W	0.9360	0.6240
Wh	0.6350	0.5270
Wl	0.6640	0.5340
X	0.9350	0.6220
Xh	0.6260	0.5220
Xl	0.6530	0.5340
Y	0.9360	0.6220
Yh	0.6350	0.5220
Yl	0.6640	0.5350
Z	0.9350	0.6210
Zh	0.6260	0.5240
Zl	0.6540	0.5410
a	0.9390	0.6200
ah	0.6490	0.5270
al	0.6770	0.5330
b	0.9350	0.6230
bh	0.6260	0.5240
bl	0.6530	0.5320
c	0.9360	0.6230
ch	0.6350	0.5220
cl	0.6640	0.5350
d	0.9370	0.6210
dh	0.6350	0.5210
dl	0.6640	0.5340
e	0.9360	0.6210
eh	0.6350	0.5250
el	0.6640	0.5370
f	0.9360	0.6200

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Chain	Atom inclusion	Q-score
fh	0.6260	0.5240
fl	0.6540	0.5380
g	0.9380	0.6220
gh	0.6490	0.5210
gl	0.6770	0.5300
h	0.9370	0.6220
hh	0.6440	0.5300
hl	0.6710	0.5400
i	0.9350	0.6220
ih	0.6260	0.5260
il	0.6530	0.5380
j	0.9390	0.6210
jh	0.6490	0.5220
jl	0.6770	0.5330
k	0.9350	0.6190
kh	0.6380	0.5250
kl	0.6610	0.5310
l	0.9360	0.6230
lh	0.6380	0.5290
ll	0.6610	0.5340
m	0.9360	0.6230
mh	0.6380	0.5240
ml	0.6610	0.5330
n	0.9350	0.6220
nh	0.6220	0.5280
nl	0.6540	0.5370
o	0.9380	0.6220
oh	0.6490	0.5230
ol	0.6770	0.5340
p	0.9370	0.6220
ph	0.6440	0.5260
pl	0.6710	0.5370
q	0.9350	0.6220
qh	0.6260	0.5250
ql	0.6530	0.5360
r	0.9380	0.6240
rh	0.6490	0.5220
rl	0.6770	0.5330
s	0.9370	0.6220
sh	0.6440	0.5300
sl	0.6710	0.5370
t	0.9360	0.6220

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Chain	Atom inclusion	Q-score
th	0.6380	0.5280
tl	0.6610	0.5330
u	0.9350	0.6200
uh	0.6380	0.5280
ul	0.6610	0.5330
v	0.9360	0.6210
vh	0.6380	0.5260
vl	0.6610	0.5340
w	0.9370	0.6220
wh	0.6440	0.5270
wl	0.6710	0.5370
x	0.9380	0.6220
xh	0.6490	0.5230
xl	0.6770	0.5330
y	0.9370	0.6220
yh	0.6350	0.5220
yl	0.6640	0.5340
z	0.9360	0.6220
zh	0.6350	0.5260
zl	0.6620	0.5340