



Full wwPDB EM Validation Report ⓘ

Sep 21, 2026 – 05:02 PM EDT

PDB ID : 12UV / pdb_000012uv
EMDB ID : EMD-76773
Title : The AAV2 capsid in complex with IgA-Fab#3-4
Authors : Zachery, J.; Mietzsch, M.; McKenna, R.
Deposited on : 2026-04-20
Resolution : 2.68 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:

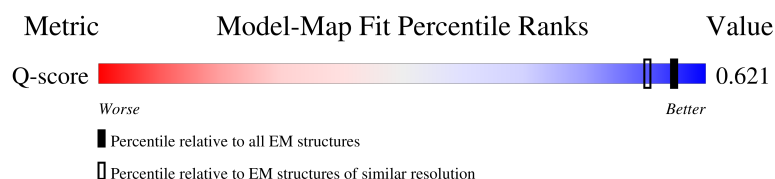
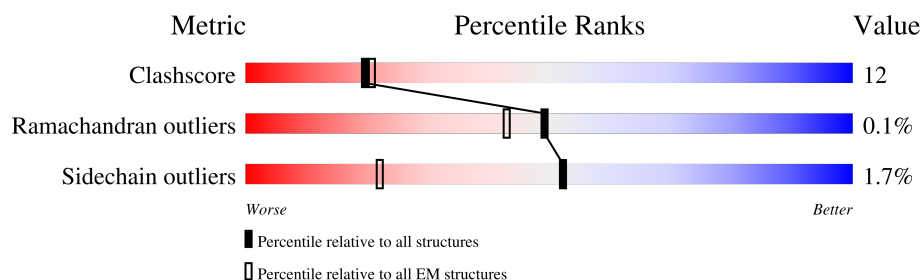
EMDB validation analysis : 0.0.1.dev133
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 2.68 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.



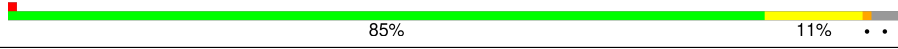
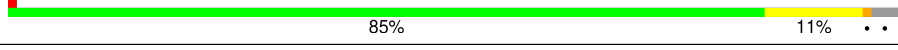
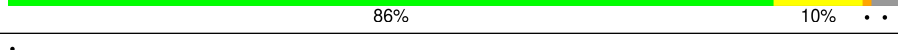
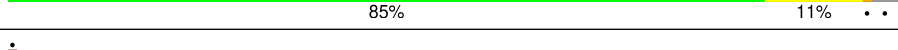
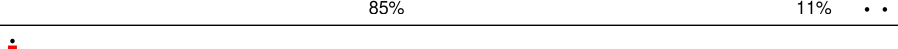
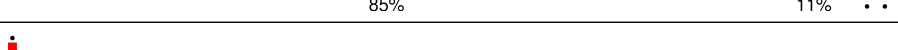
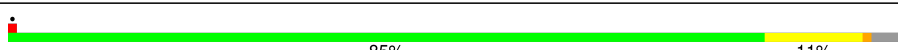
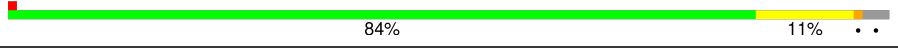
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	9255 (2.18 - 3.18)

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

Mol	Chain	Length	Quality of chain
1	1	533	
1	2	533	
1	3	533	
1	4	533	

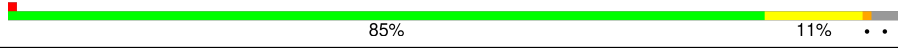
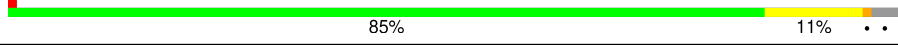
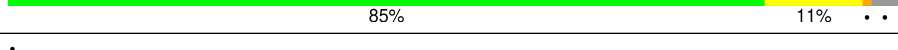
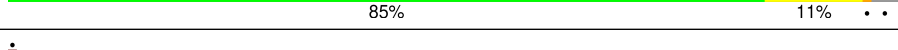
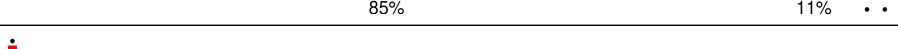
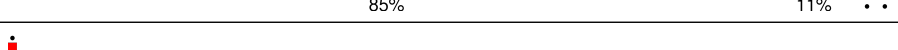
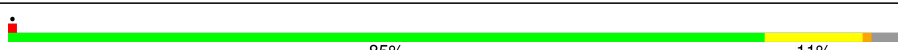
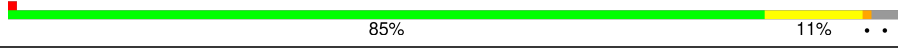
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Mol	Chain	Length	Quality of chain
1	5	533	
1	6	533	
1	7	533	
1	8	533	
1	A	533	
1	B	533	
1	C	533	
1	D	533	
1	E	533	
1	F	533	
1	G	533	
1	H	533	
1	I	533	
1	J	533	
1	K	533	
1	L	533	
1	M	533	
1	N	533	
1	O	533	
1	P	533	
1	Q	533	
1	R	533	
1	S	533	
1	T	533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

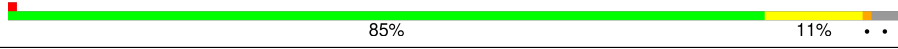
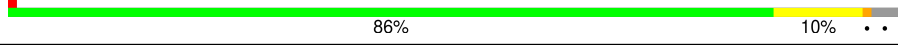
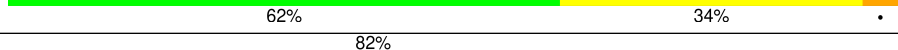
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Mol	Chain	Length	Quality of chain
1	V	533	
1	W	533	
1	X	533	
1	Y	533	
1	Z	533	
1	a	533	
1	b	533	
1	c	533	
1	d	533	
1	e	533	
1	f	533	
1	g	533	
1	h	533	
1	i	533	
1	j	533	
1	k	533	
1	l	533	
1	m	533	
1	n	533	
1	o	533	
1	p	533	
1	q	533	
1	r	533	
1	s	533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

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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	
2	Mh	125	
2	Nh	125	
2	Oh	125	
2	Ph	125	
2	Qh	125	
2	Rh	125	
2	Sh	125	
2	Th	125	
2	Uh	125	
2	Vh	125	
2	Wh	125	
2	Xh	125	
2	Yh	125	
2	Zh	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	

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Mol	Chain	Length	Quality of chain
2	kh	125	83% 62% 34%
2	lh	125	83% 61% 35%
2	mh	125	83% 62% 34%
2	nh	125	83% 62% 34%
2	oh	125	82% 62% 34%
2	ph	125	82% 61% 35%
2	qh	125	83% 62% 34%
2	rh	125	82% 62% 34%
2	sh	125	82% 62% 34%
2	th	125	83% 61% 35%
2	uh	125	83% 62% 34%
2	vh	125	83% 62% 34%
2	wh	125	82% 62% 34%
2	xh	125	82% 61% 35%
2	yh	125	81% 62% 34%
2	zh	125	81% 61% 35%
3	1l	106	70% 61% 38%
3	2l	106	70% 60% 39%
3	3l	106	70% 62% 37%
3	4l	106	70% 62% 37%
3	5l	106	70% 62% 37%
3	6l	106	70% 61% 38%
3	7l	106	69% 61% 38%
3	8l	106	71% 61% 38%
3	Al	106	67% 61% 38%

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Mol	Chain	Length	Quality of chain
3	B1	106	69% 62% 37%
3	C1	106	71% 62% 37%
3	D1	106	69% 62% 37%
3	E1	106	71% 62% 37%
3	F1	106	70% 61% 38%
3	G1	106	71% 61% 38%
3	H1	106	69% 62% 37%
3	I1	106	71% 60% 39%
3	J1	106	69% 62% 37%
3	K1	106	71% 62% 37%
3	L1	106	69% 61% 38%
3	M1	106	71% 62% 37%
3	N1	106	69% 62% 37%
3	O1	106	71% 61% 38%
3	P1	106	69% 62% 37%
3	Q1	106	71% 62% 37%
3	R1	106	69% 61% 38%
3	S1	106	69% 62% 37%
3	T1	106	71% 62% 37%
3	U1	106	69% 61% 38%
3	V1	106	71% 61% 38%
3	W1	106	69% 62% 37%
3	X1	106	71% 62% 37%
3	Y1	106	69% 61% 38%
3	Z1	106	71% 60% 39%

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Mol	Chain	Length	Quality of chain
3	al	106	71% 62% 37% .
3	bl	106	71% 62% 37% .
3	cl	106	69% 62% 37% .
3	dl	106	69% 62% 37% .
3	el	106	69% 61% 38% .
3	fl	106	71% 61% 38% .
3	gl	106	71% 62% 37% .
3	hl	106	70% 61% 38% .
3	il	106	71% 62% 37% .
3	jl	106	71% 62% 37% .
3	kl	106	69% 62% 37% .
3	ll	106	69% 62% 37% .
3	ml	106	69% 61% 38% .
3	nl	106	71% 62% 37% .
3	ol	106	71% 61% 38% .
3	pl	106	70% 61% 38% .
3	ql	106	71% 62% 37% .
3	rl	106	71% 62% 37% .
3	sl	106	70% 61% 38% .
3	tl	106	69% 61% 38% .
3	ul	106	69% 62% 37% .
3	vl	106	69% 62% 37% .
3	wl	106	70% 61% 38% .
3	xl	106	71% 62% 37% .
3	yl	106	69% 62% 37% .

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Mol	Chain	Length	Quality of chain
3	zl	106	69%61%38%•

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 354120 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	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		
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		

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

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Mol	Chain	Residues	Atoms					AltConf	Trace
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
1	r	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	s	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	t	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	u	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	v	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	w	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	x	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	y	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	z	516	Total 4135	C 2603	N 722	O 797	S 13	0	0
1	7	516	Total 4135	C 2603	N 722	O 797	S 13	0	0

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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 IgA-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 989	C 632	N 165	O 187	S 5	0	0
2	Th	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	Uh	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	Vh	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	Wh	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	Xh	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	Yh	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	Zh	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	1h	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	2h	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	3h	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	4h	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	5h	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	6h	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	ah	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	bh	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	ch	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	dh	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	eh	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	fh	125	Total 989	C 632	N 165	O 187	S 5	0	0
2	gh	125	Total 989	C 632	N 165	O 187	S 5	0	0

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

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Al	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Bl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Cl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Dl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	El	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Fl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Gl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Hl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Il	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Jl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Kl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Ll	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Ml	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Nl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Ol	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Pl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Ql	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Rl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Sl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Tl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	Ul	106	Total	C	N	O	S	0	0
			778	477	134	165	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Vl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	Wl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	Xl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	Yl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	Zl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	1l	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	2l	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	3l	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	4l	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	5l	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	6l	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	al	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	bl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	cl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	dl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	el	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	fl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	gl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	hl	106	Total 778	C 477	N 134	O 165	S 2	0	0
3	il	106	Total 778	C 477	N 134	O 165	S 2	0	0
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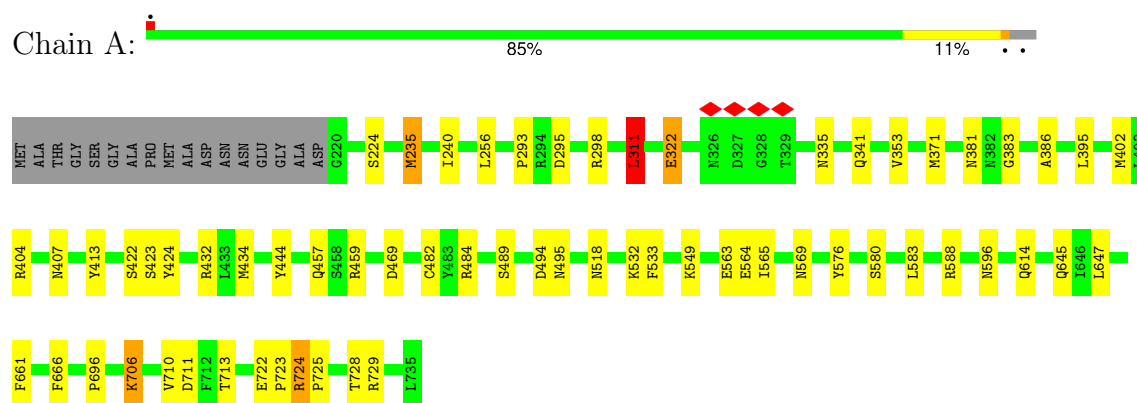
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Mol	Chain	Residues	Atoms					AltConf	Trace
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			778	477	134	165	2		
3	ll	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	ml	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	nl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	ol	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	pl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	ql	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	rl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	sl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	tl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	ul	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	vl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	wl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	xl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	yl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	zl	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	7l	106	Total	C	N	O	S	0	0
			778	477	134	165	2		
3	8l	106	Total	C	N	O	S	0	0
			778	477	134	165	2		

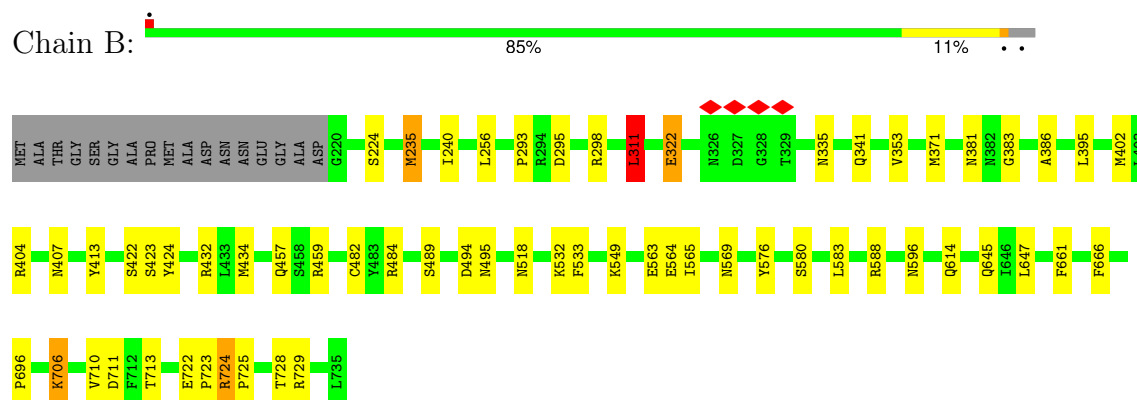
3 Residue-property plots [i](#)

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.

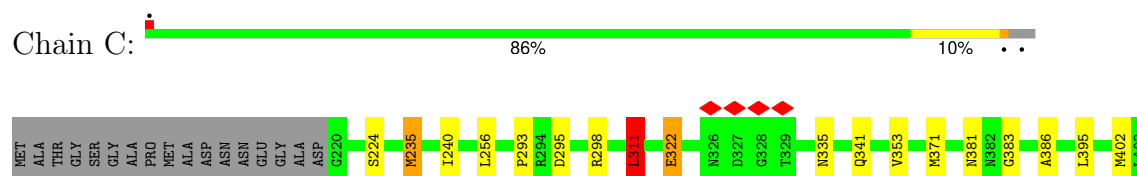
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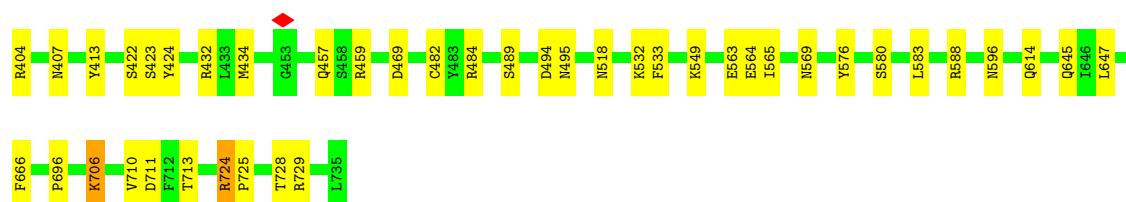


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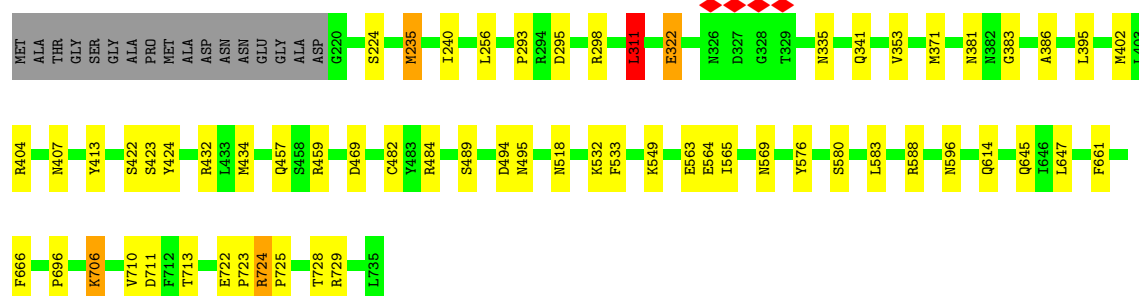
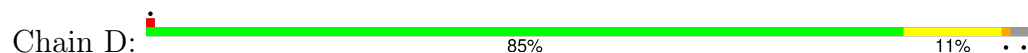


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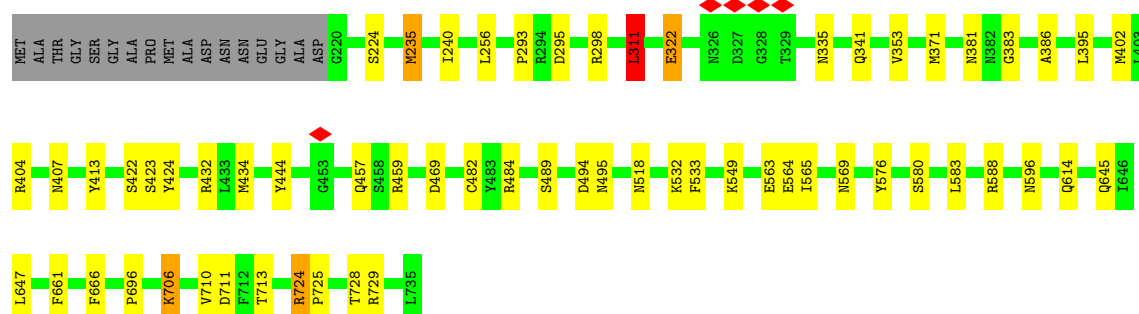
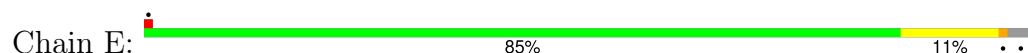




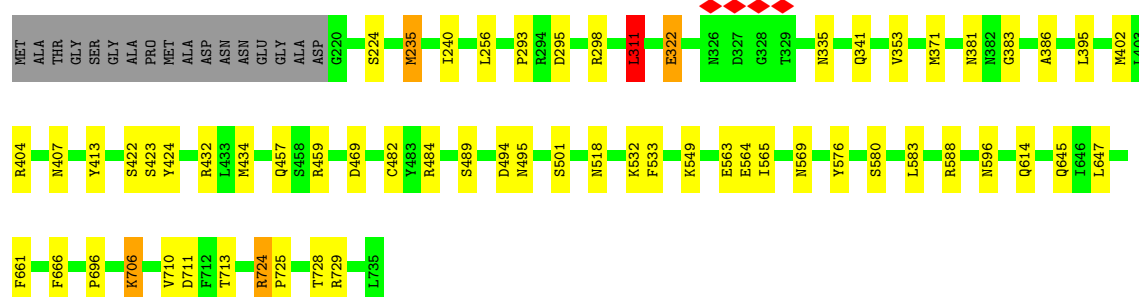
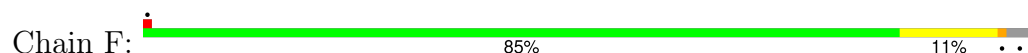
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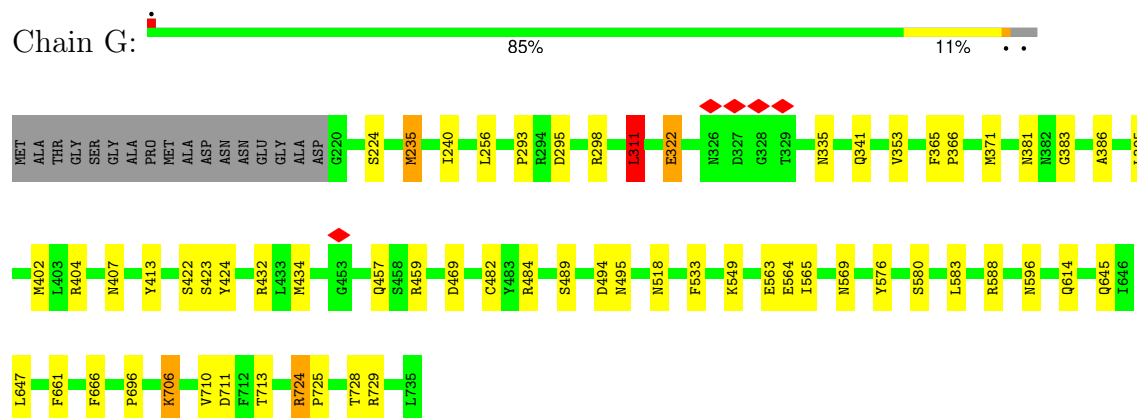
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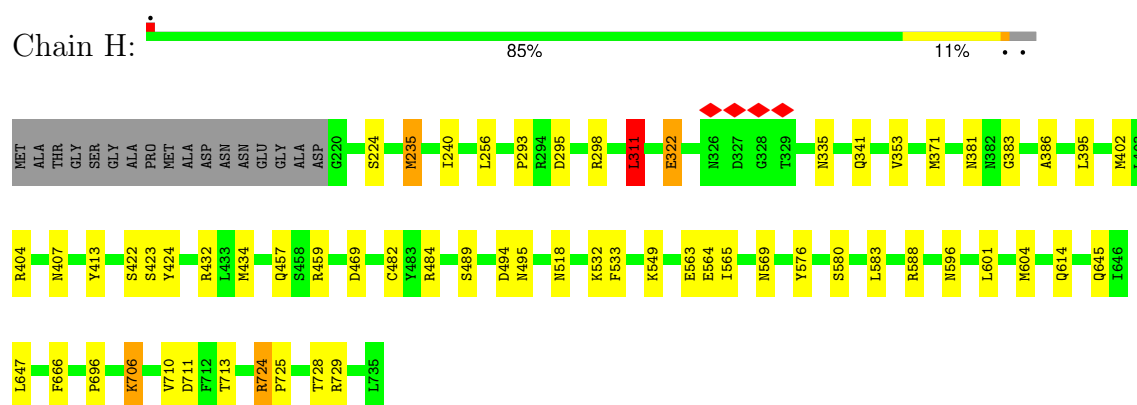
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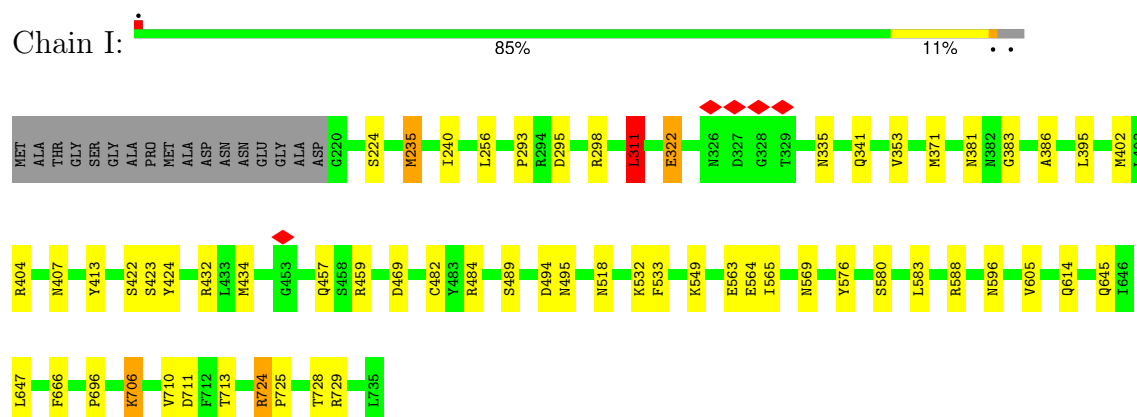
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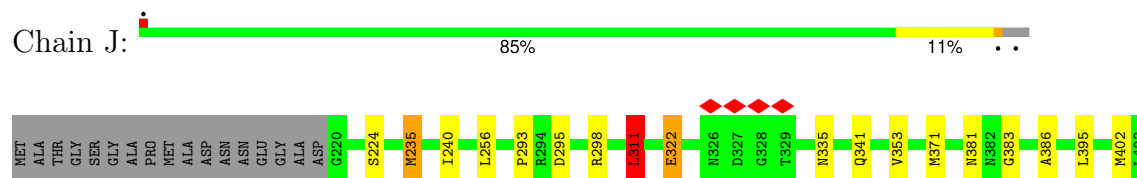
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- Molecule 1: Capsid protein VP1



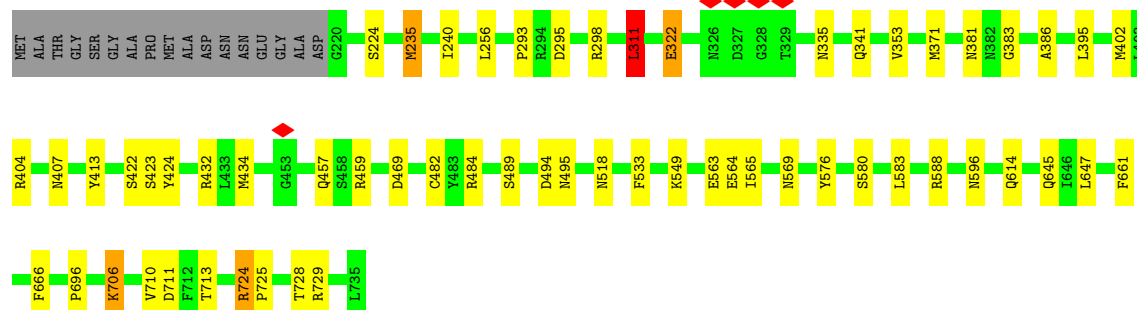
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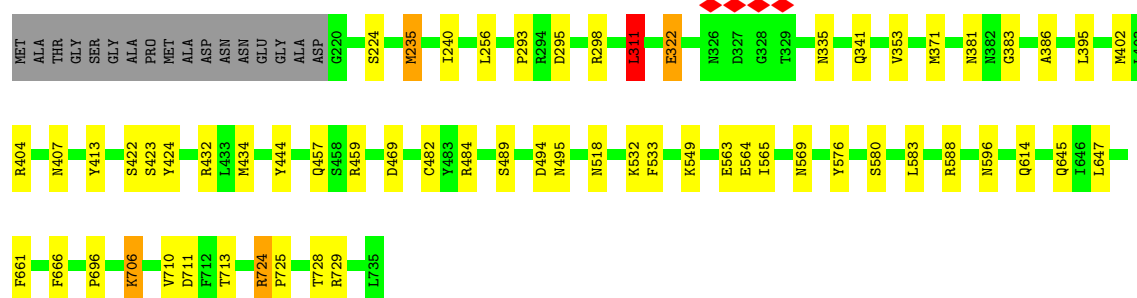
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Chain K: 86% 10% ..



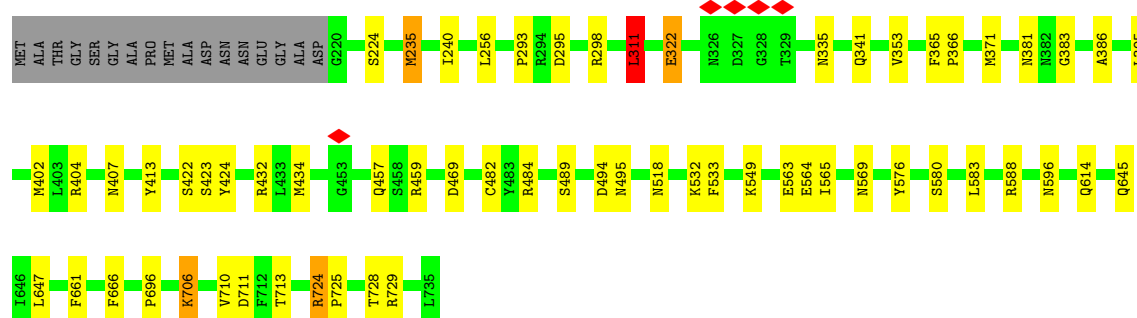
• Molecule 1: Capsid protein VP1

Chain L: 85% 11% ..

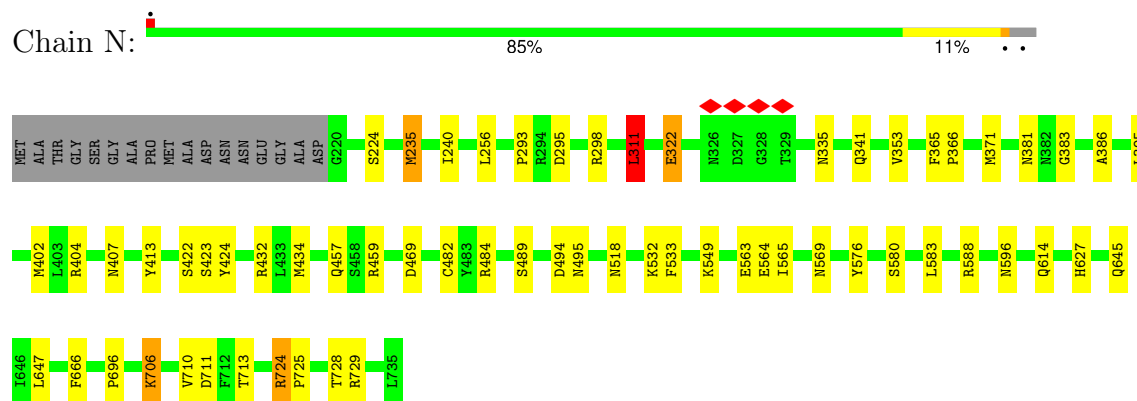


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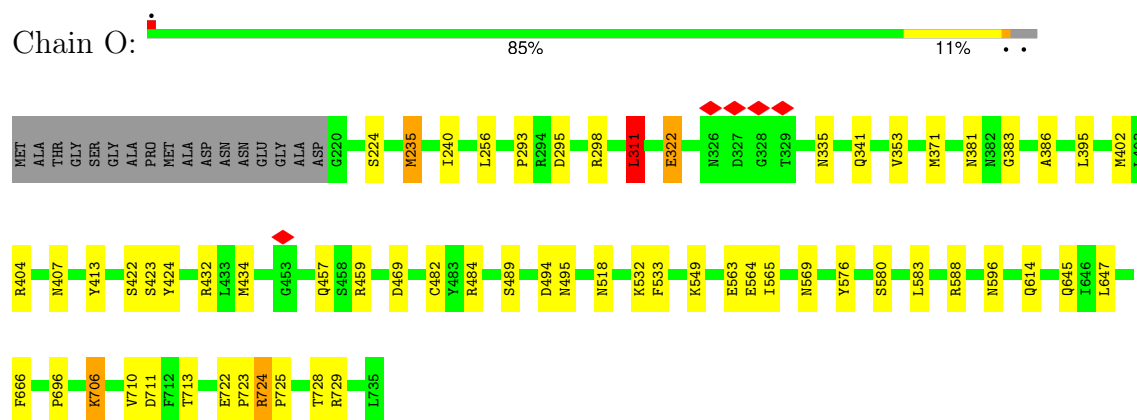
Chain M: 85% 11% ..



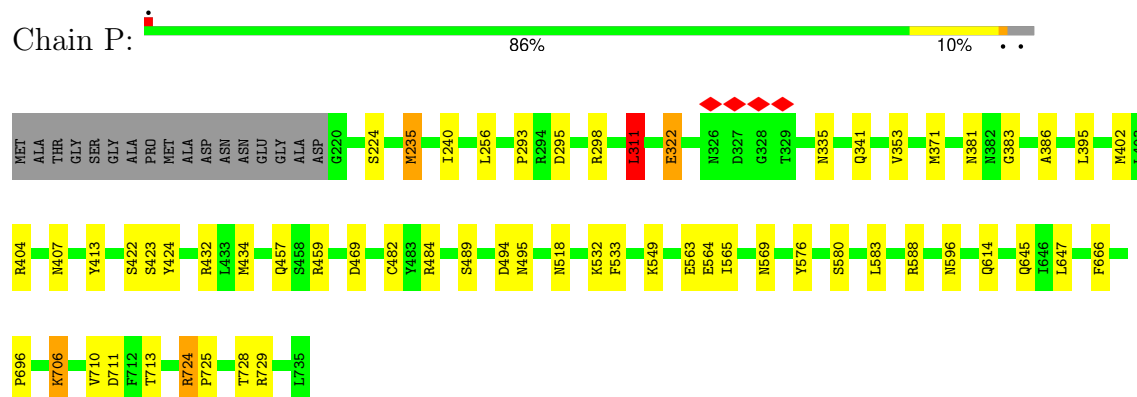
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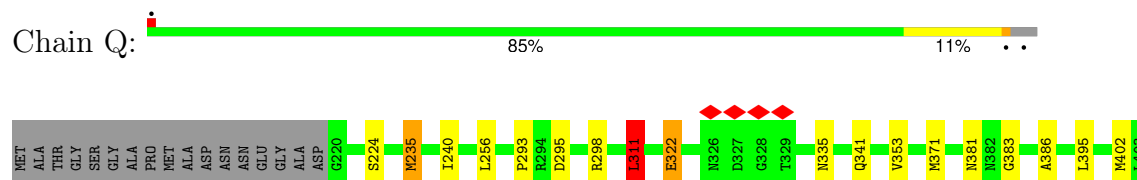
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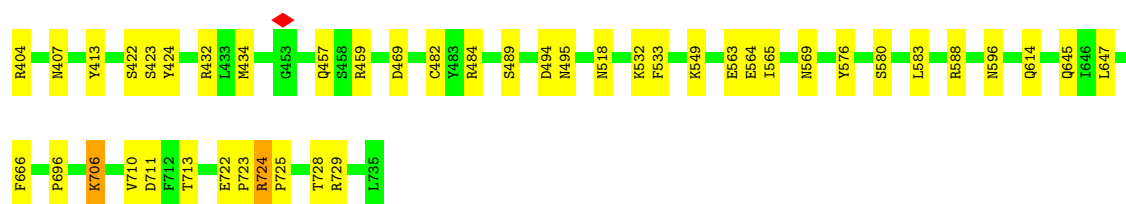


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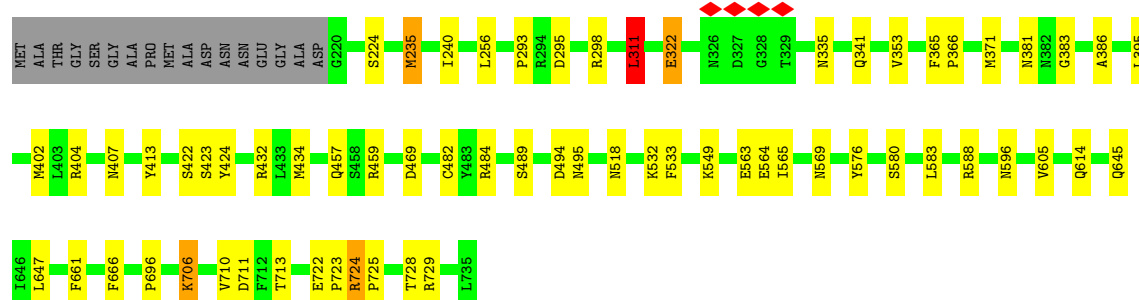
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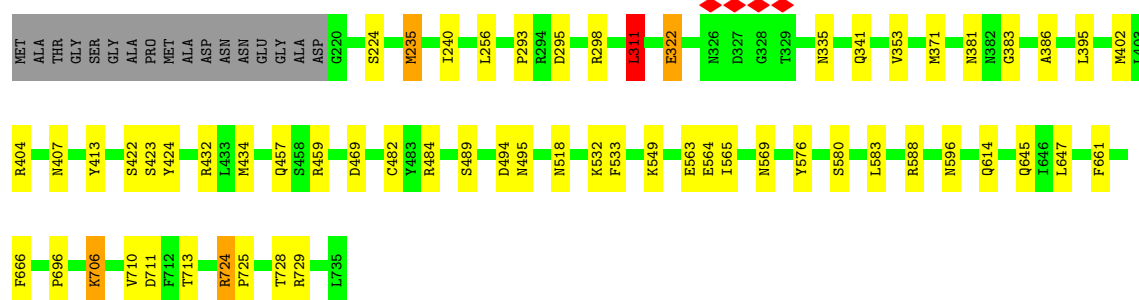
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Chain R: 84% 11% ..



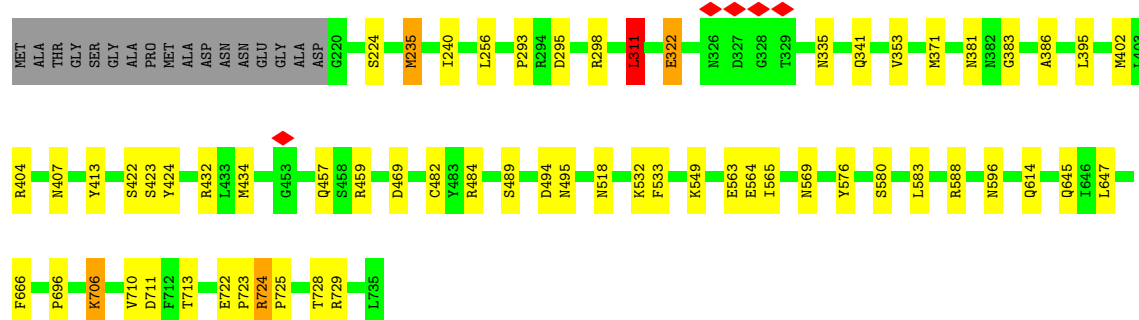
- Molecule 1: Capsid protein VP1

Chain S: 85% 11% ..

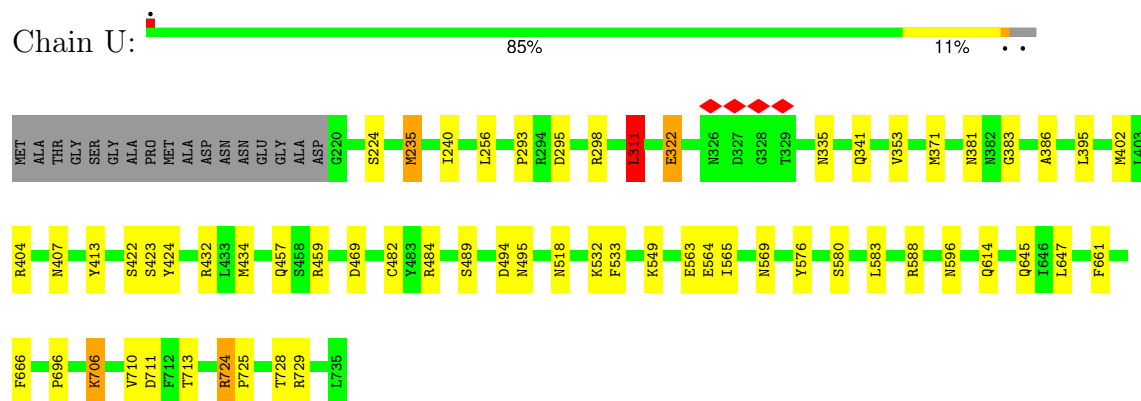


- Molecule 1: Capsid protein VP1

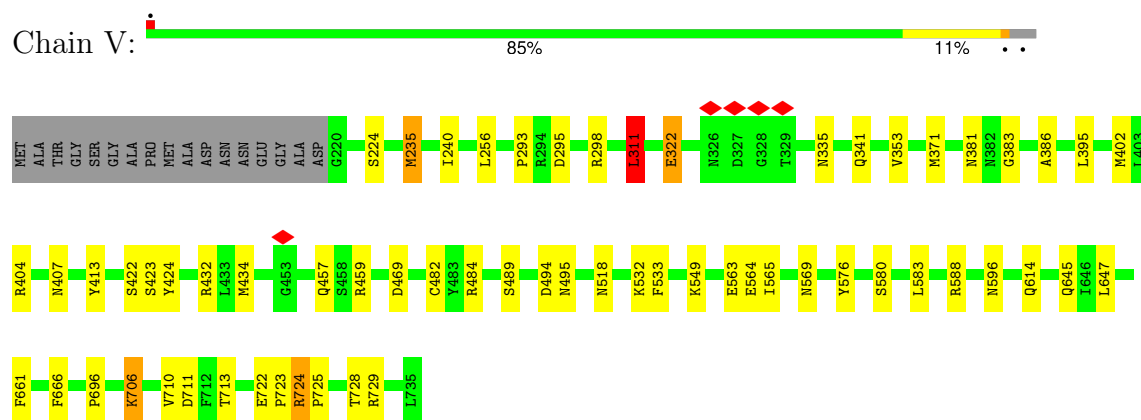
Chain T: 85% 11% ..



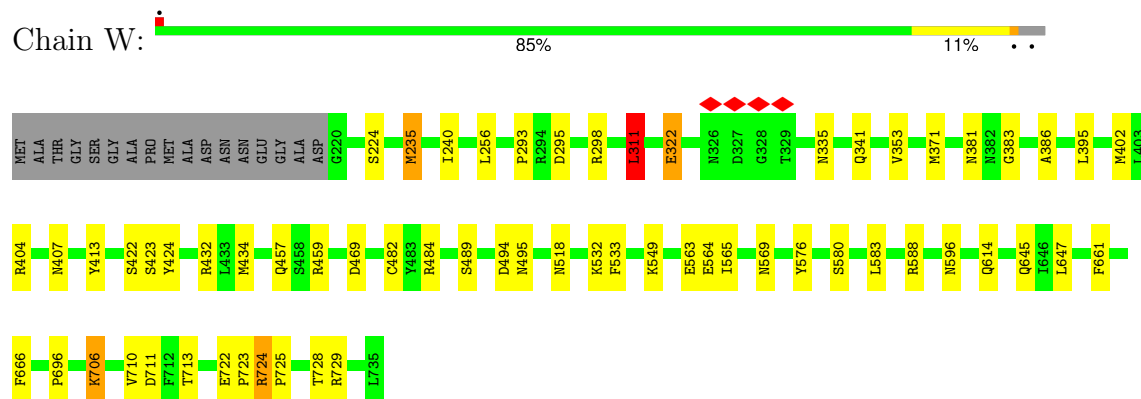
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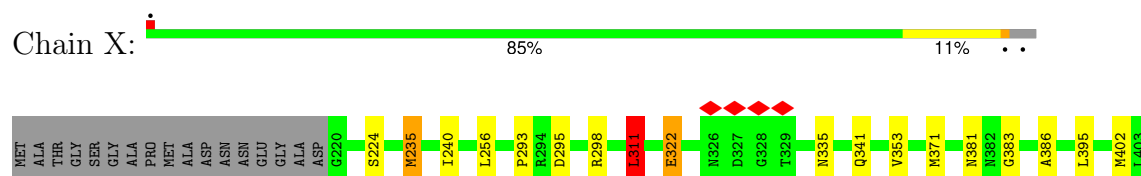
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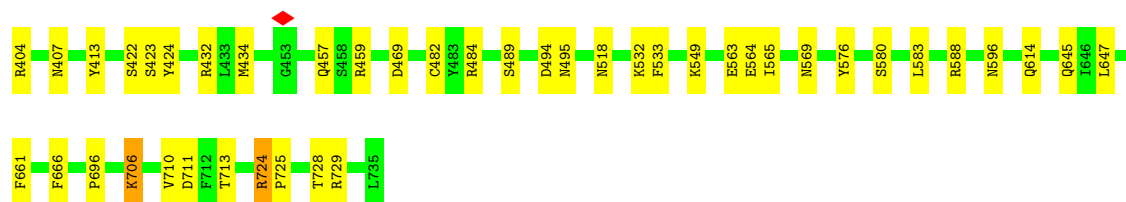


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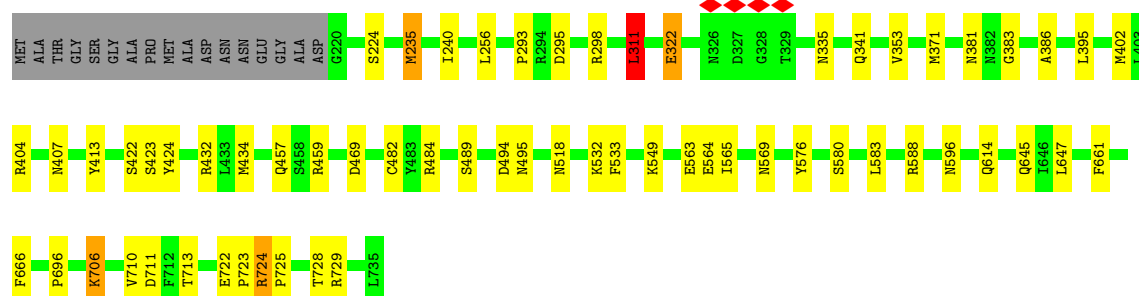
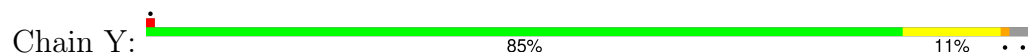


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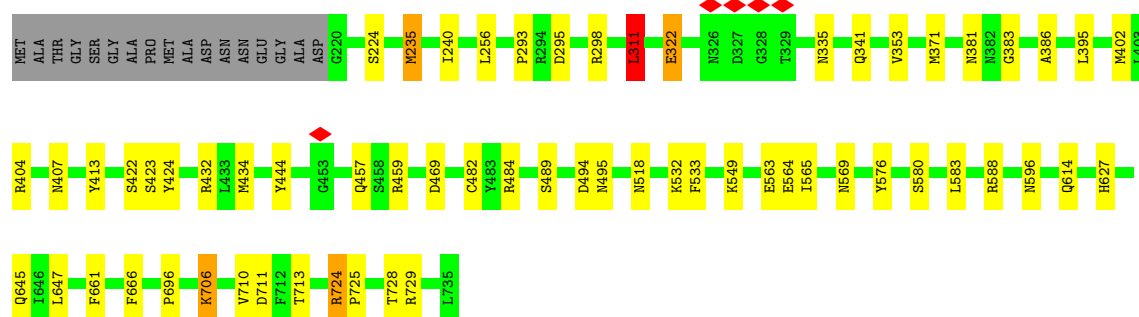
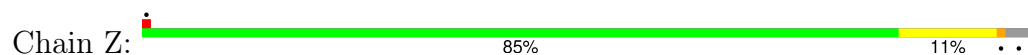




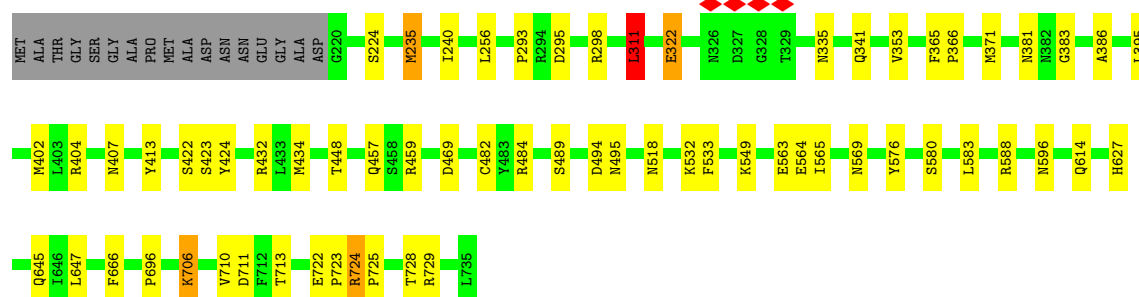
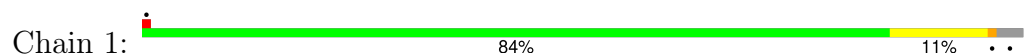
- Molecule 1: Capsid protein VP1



- Molecule 1: Capsid protein VP1

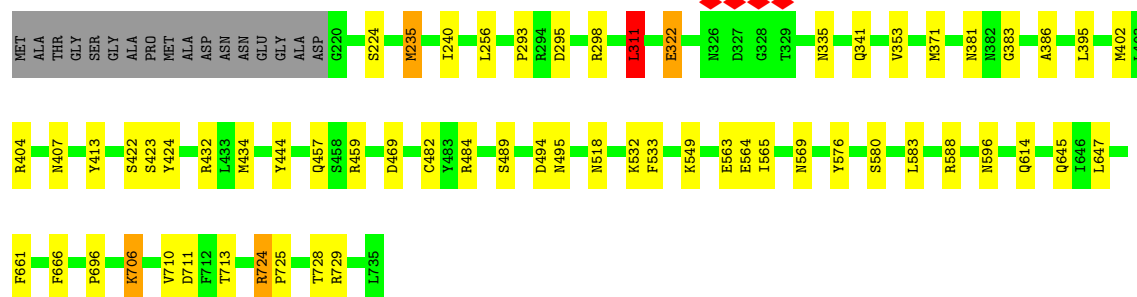


- Molecule 1: Capsid protein VP1



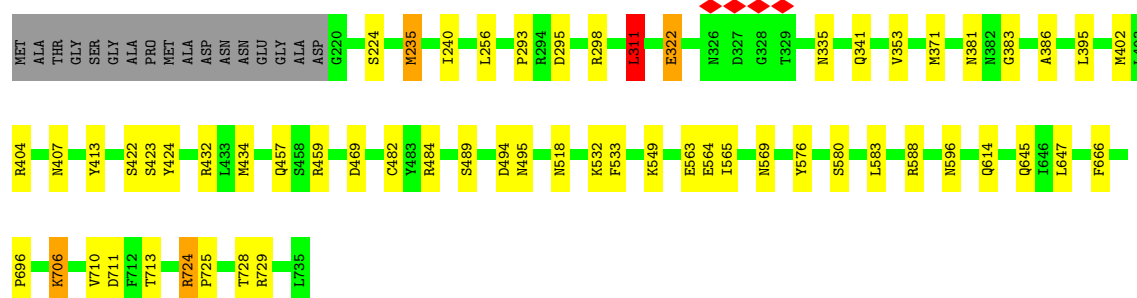
- Molecule 1: Capsid protein VP1

Chain 2:  85% 11% ..



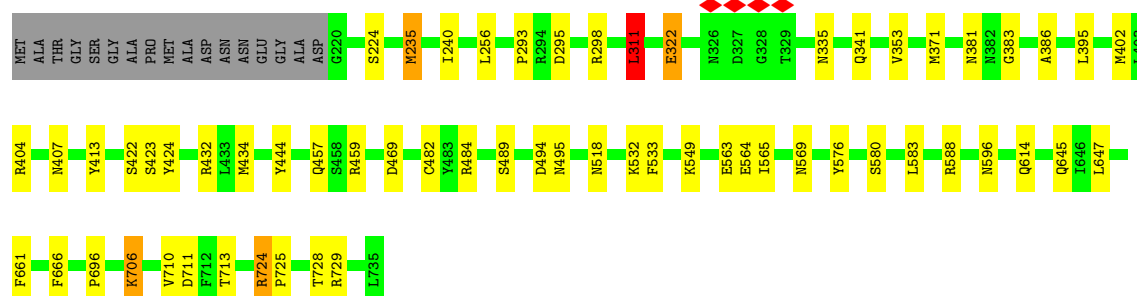
• Molecule 1: Capsid protein VP1

Chain 3:  86% 10% ..



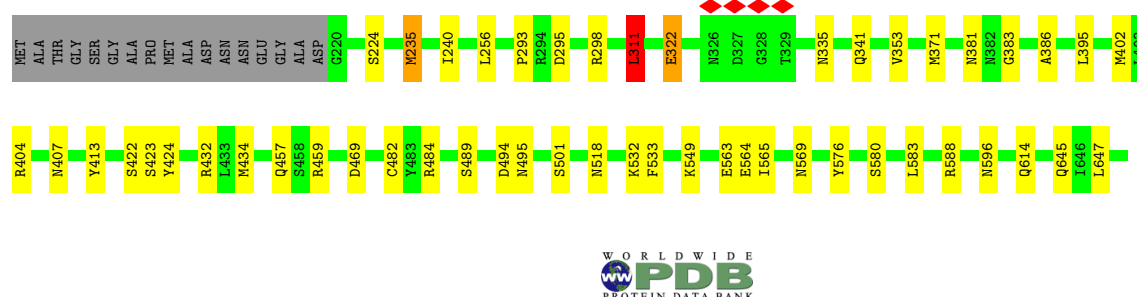
• Molecule 1: Capsid protein VP1

Chain 4:  85% 11% ..



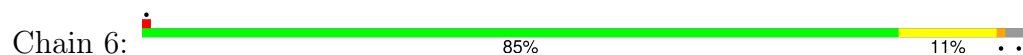
• Molecule 1: Capsid protein VP1

Chain 5:  85% 11% ..

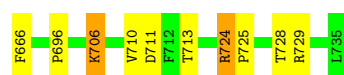
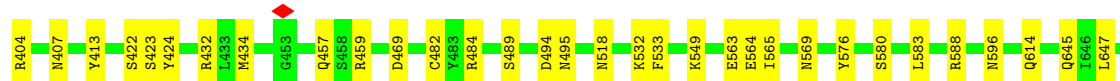
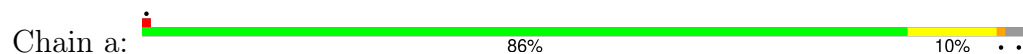




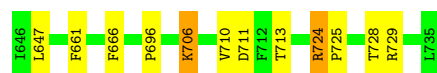
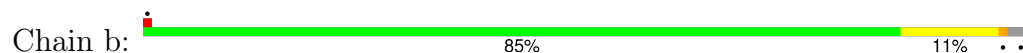
• Molecule 1: Capsid protein VP1



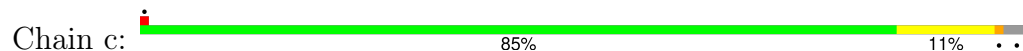
• Molecule 1: Capsid protein VP1

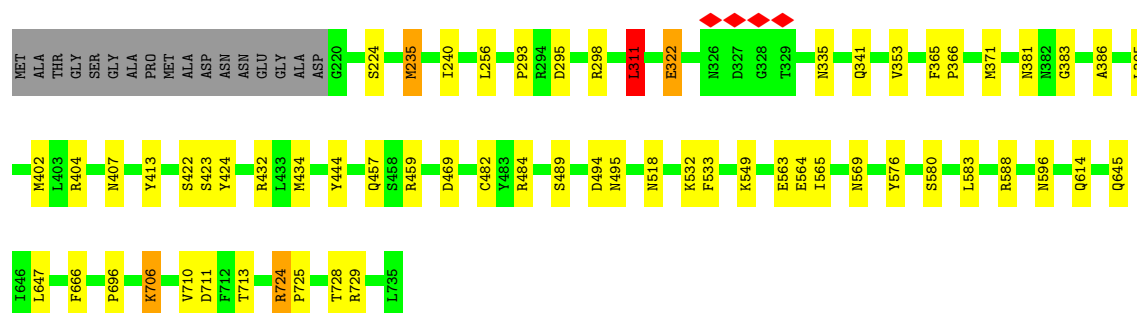


• Molecule 1: Capsid protein VP1

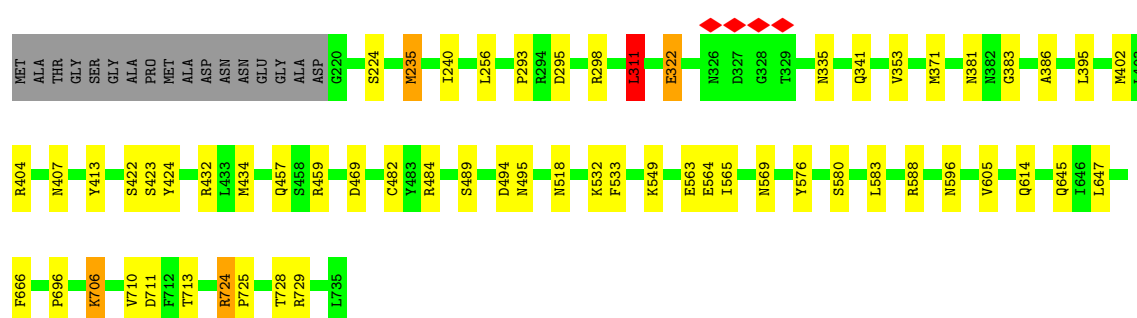
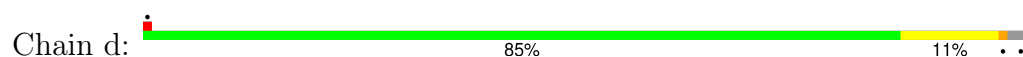


• Molecule 1: Capsid protein VP1

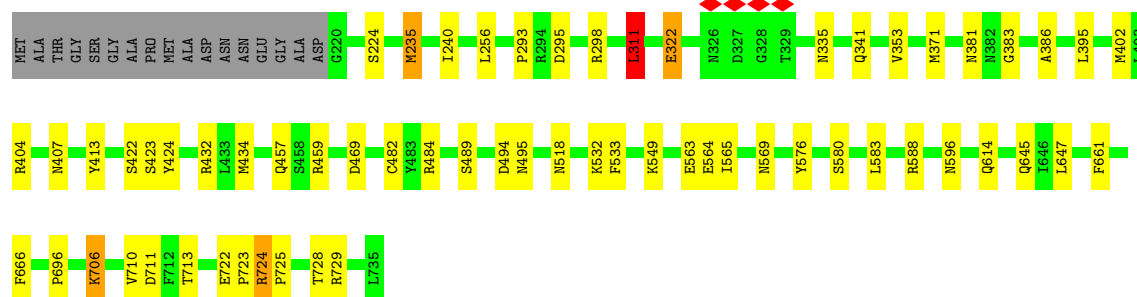
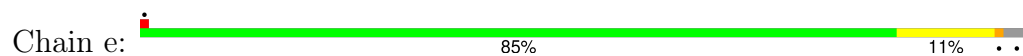




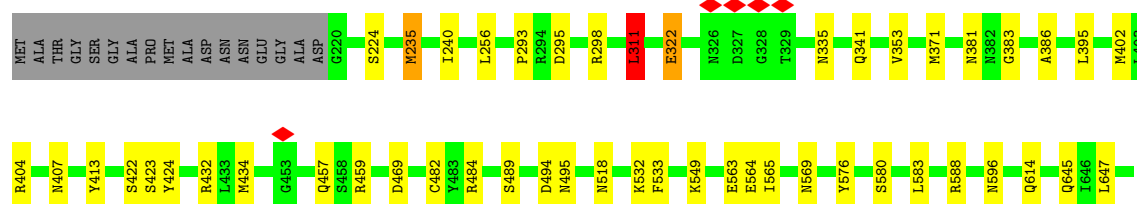
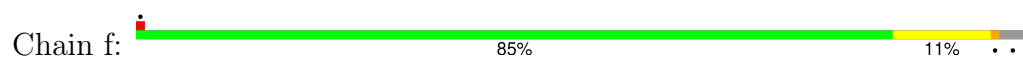
- Molecule 1: Capsid protein VP1



- Molecule 1: Capsid protein VP1

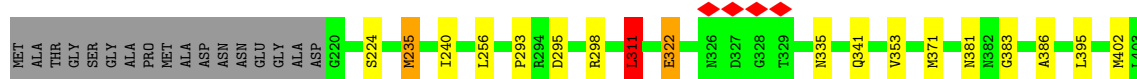
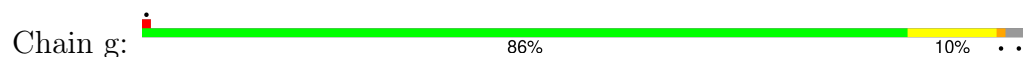


- Molecule 1: Capsid protein VP1

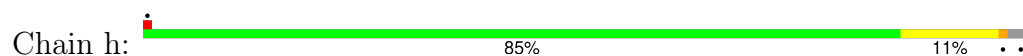




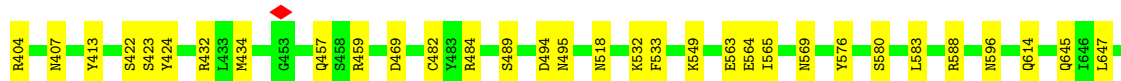
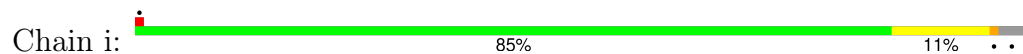
• Molecule 1: Capsid protein VP1



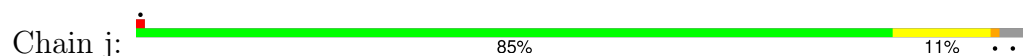
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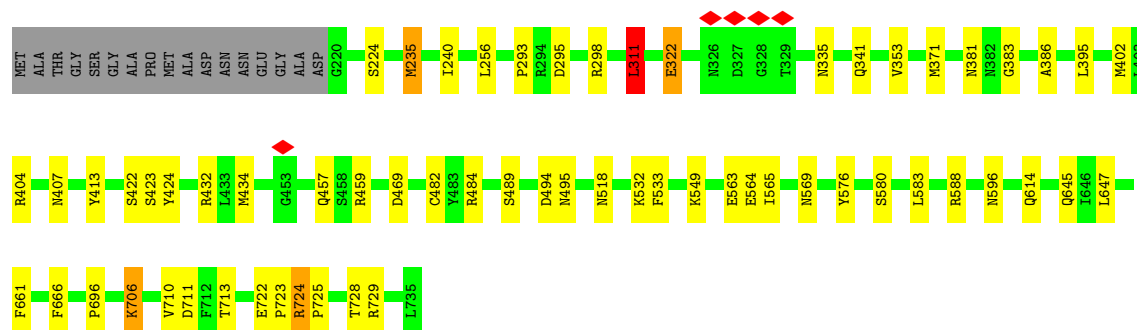


• Molecule 1: Capsid protein VP1

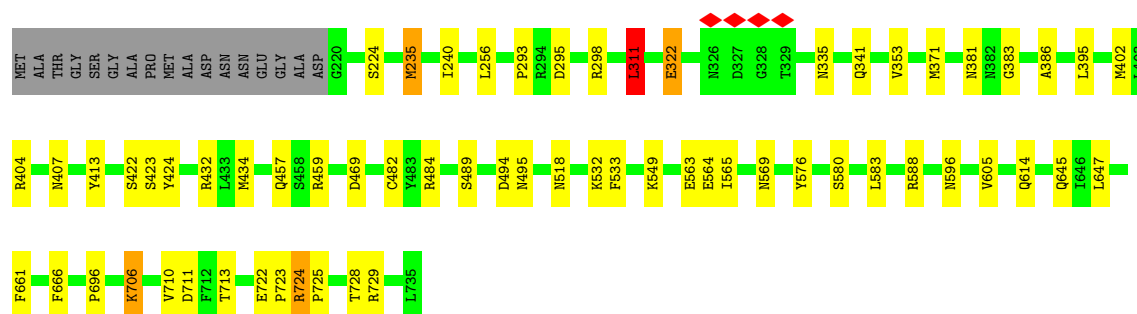
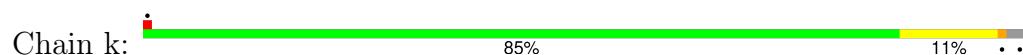


• Molecule 1: Capsid protein VP1

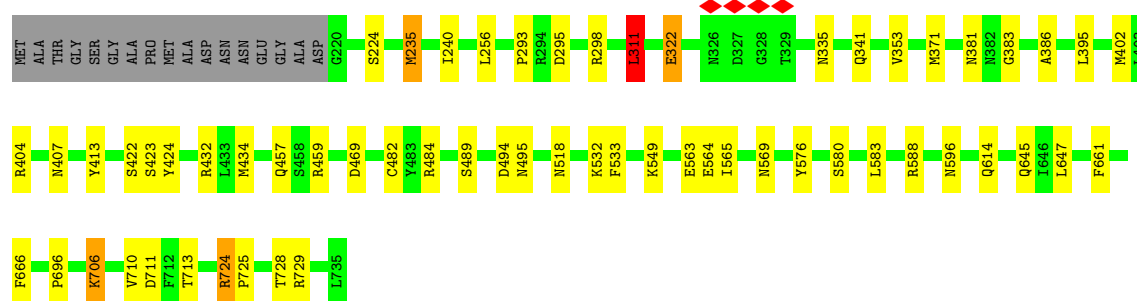
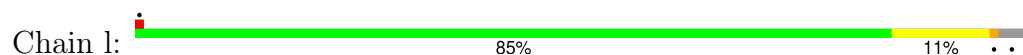




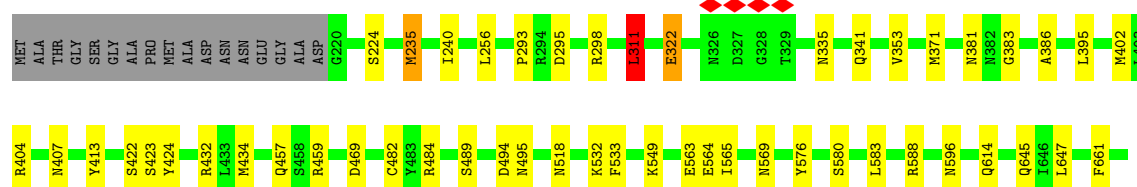
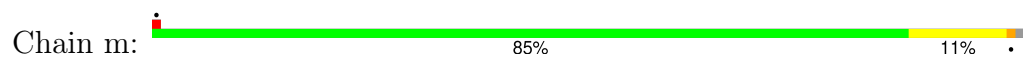
- Molecule 1: Capsid protein VP1



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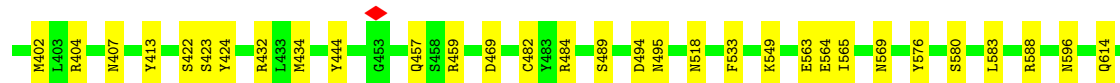
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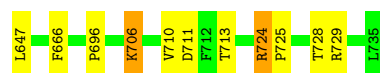
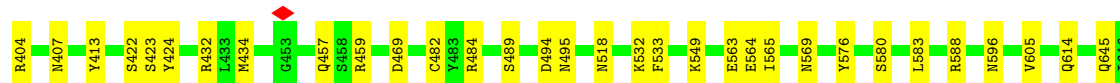
● Molecule 1: Capsid protein VP1

Chain n:



● Molecule 1: Capsid protein VP1

Chain o:



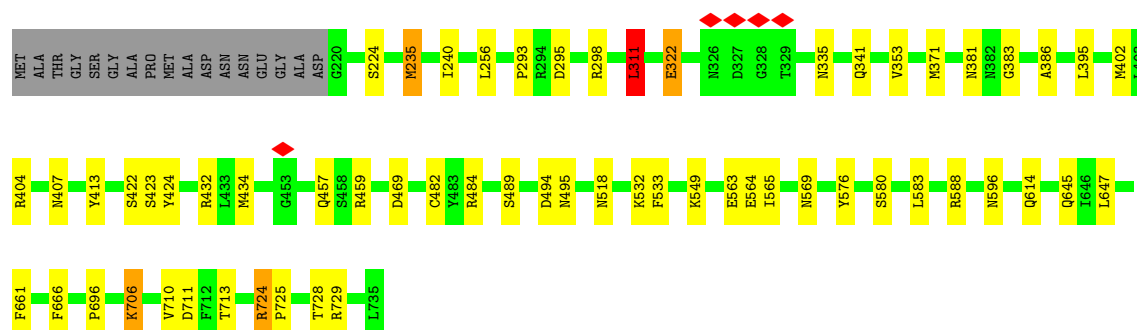
● Molecule 1: Capsid protein VP1

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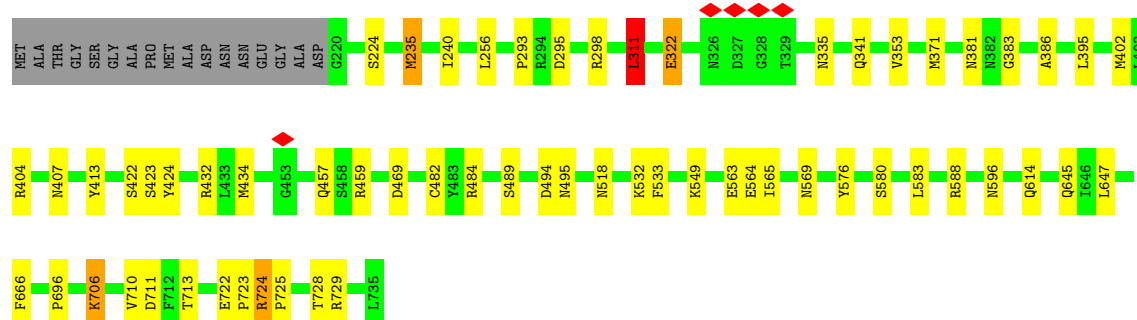
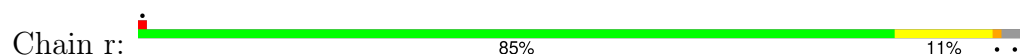


● Molecule 1: Capsid protein VP1

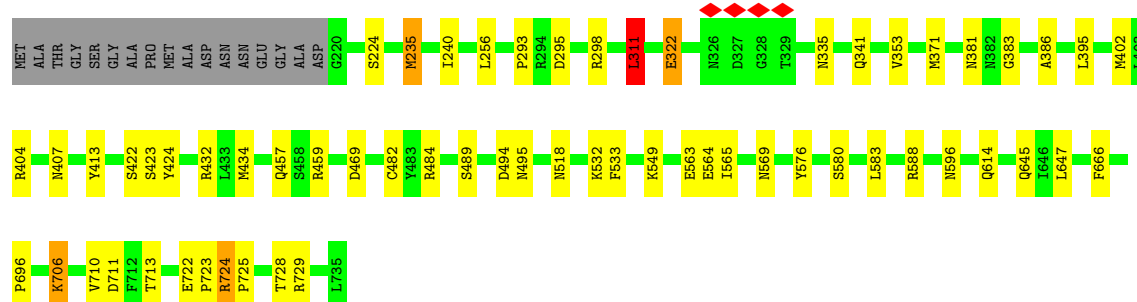
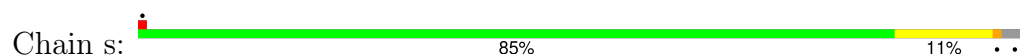
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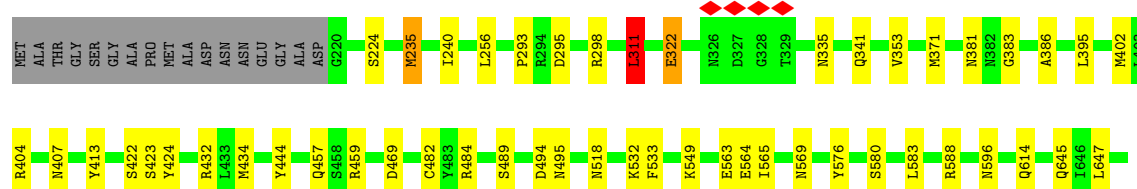
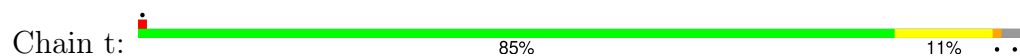
• Molecule 1: Capsid protein VP1



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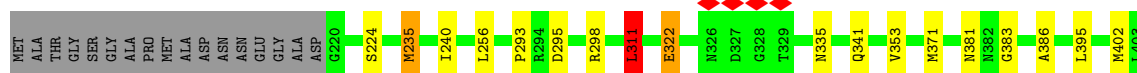
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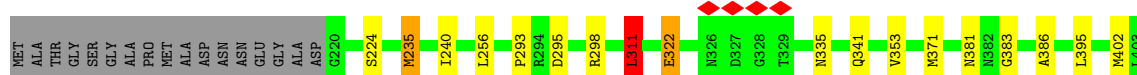
• Molecule 1: Capsid protein VP1

Chain u: 85% 11% ..



• Molecule 1: Capsid protein VP1

Chain v: 85% 11% ..



• Molecule 1: Capsid protein VP1

Chain w: 85% 11% ..

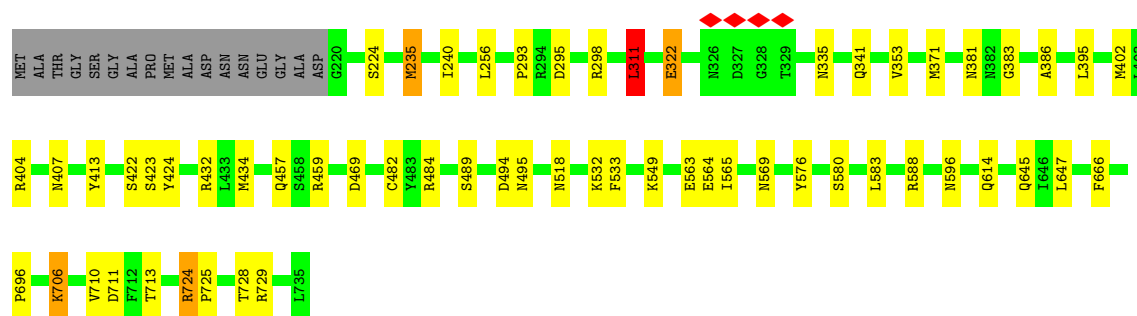
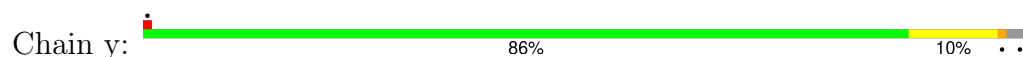


• Molecule 1: Capsid protein VP1

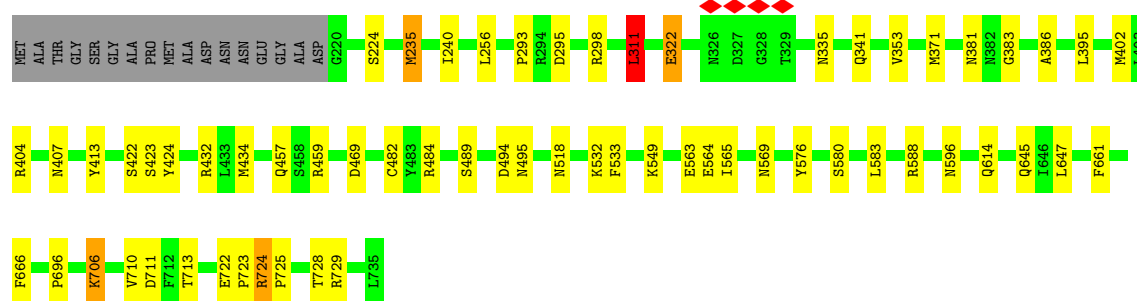
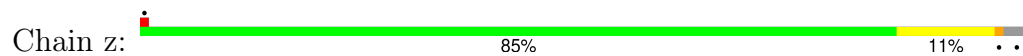
Chain x: 86% 10% ..



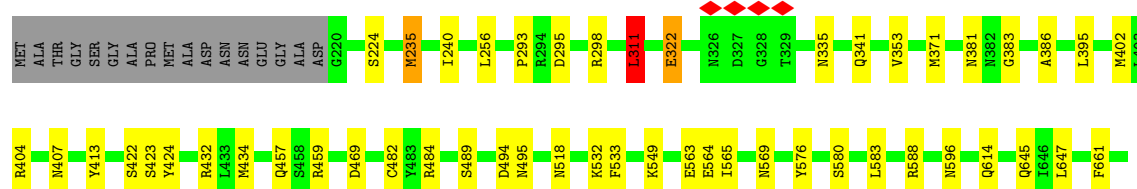
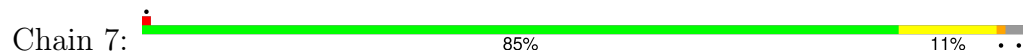
• Molecule 1: Capsid protein VP1



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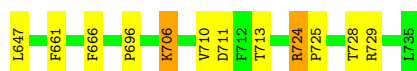
• Molecule 1: Capsid protein VP1





• Molecule 1: Capsid protein VP1

Chain 8: 85% 11%



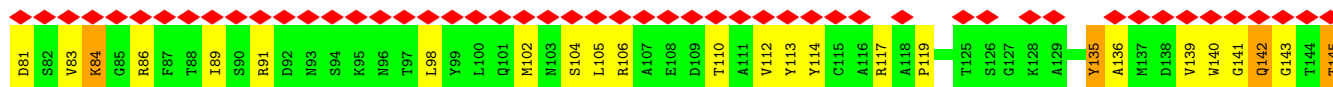
• Molecule 2: IgA-Fab3-4 heavy chain

Chain Ah: 82% 61% 35%



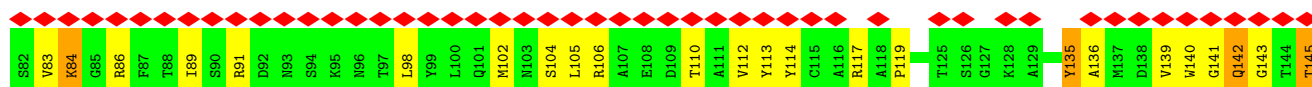
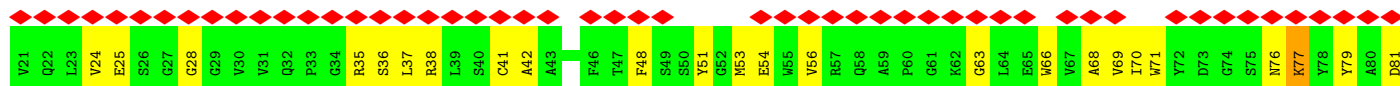
• Molecule 2: IgA-Fab3-4 heavy chain

Chain Bh: 83% 62% 34%



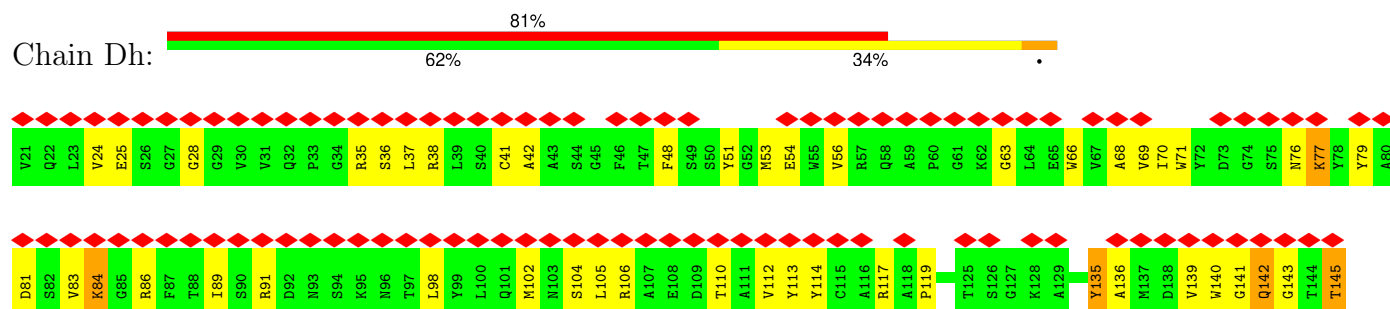
• Molecule 2: IgA-Fab3-4 heavy chain

Chain Ch: 82% 62% 34%



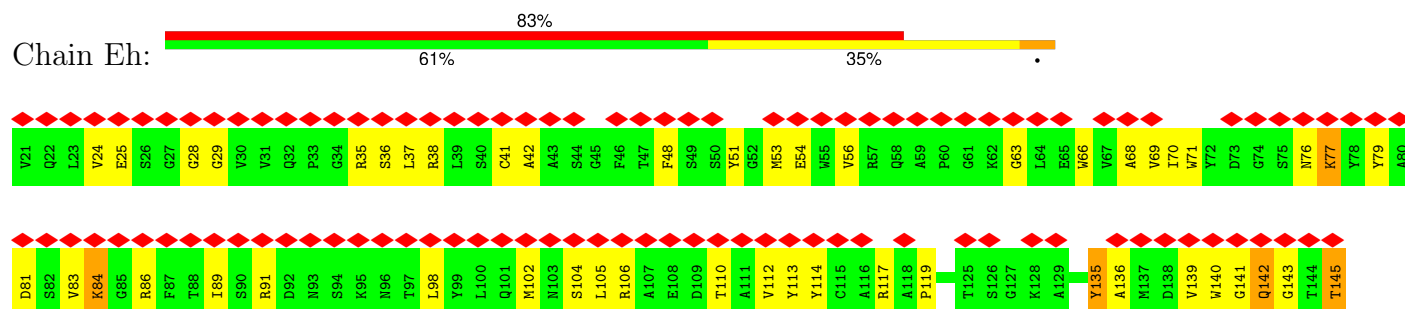
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Chain Dh:



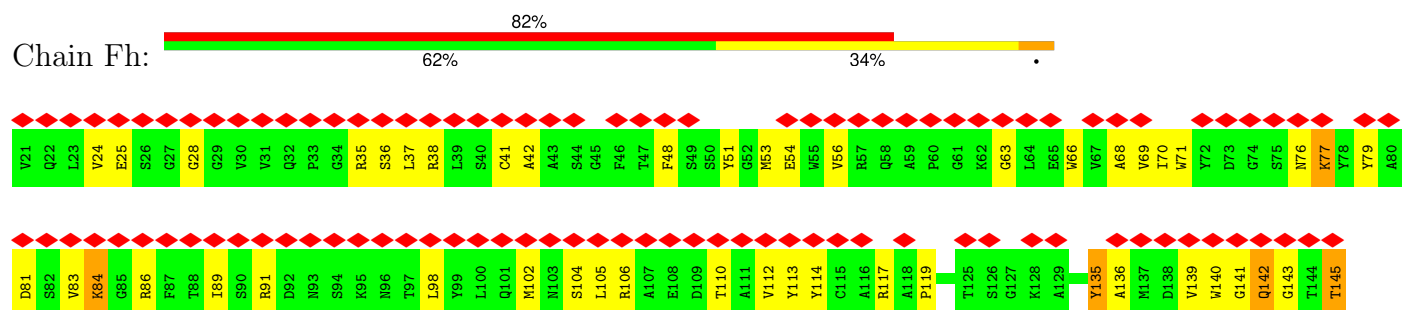
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Chain Eh:



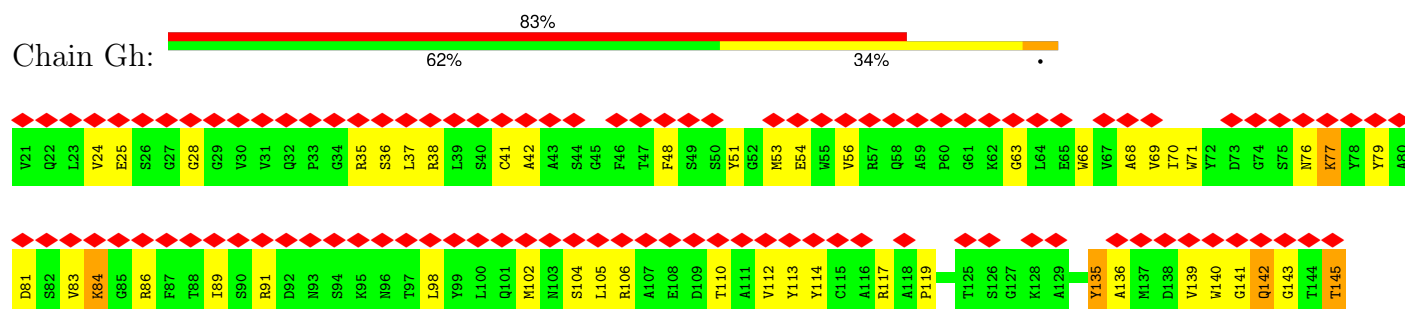
• Molecule 2: IgA-Fab3-4 heavy chain

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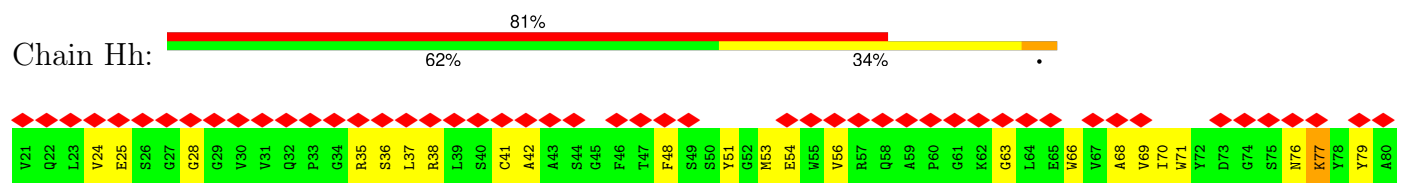
• Molecule 2: IgA-Fab3-4 heavy chain

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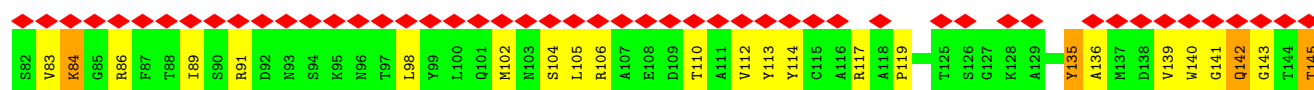
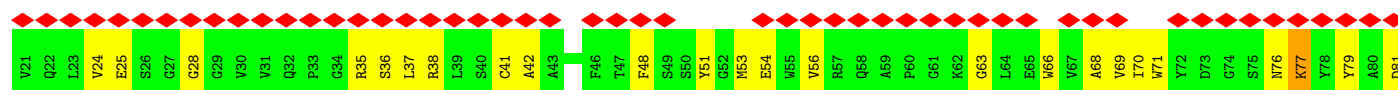
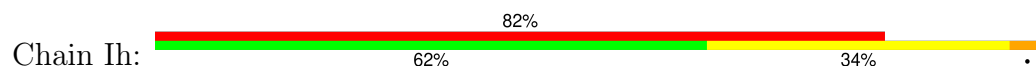
• Molecule 2: IgA-Fab3-4 heavy chain

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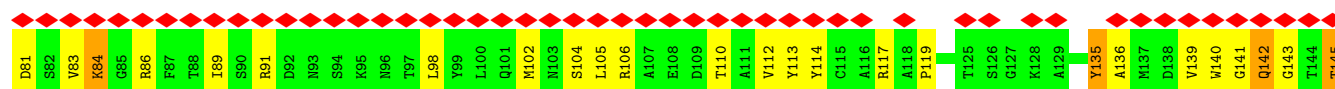
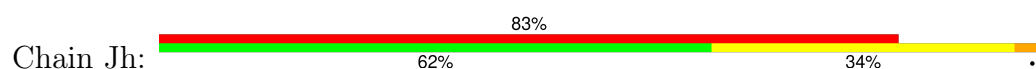




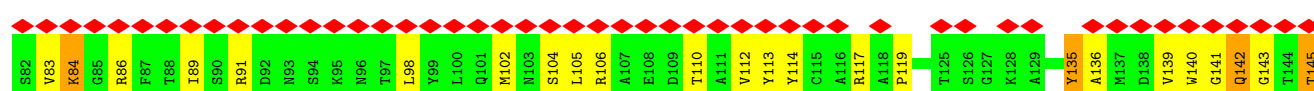
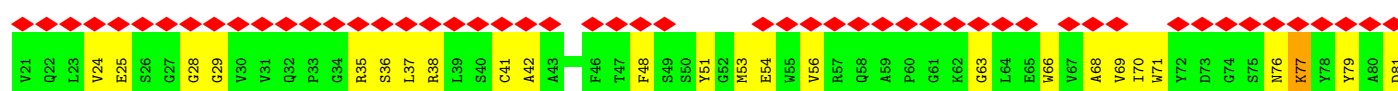
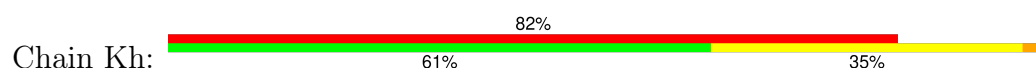
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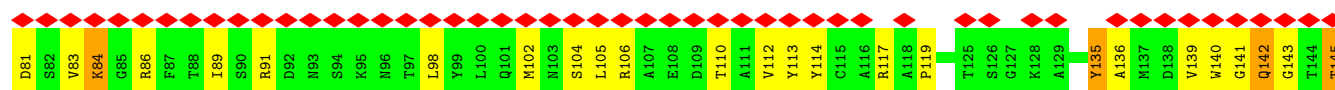
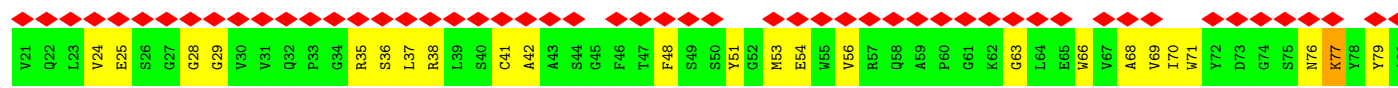
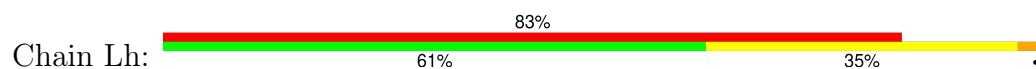
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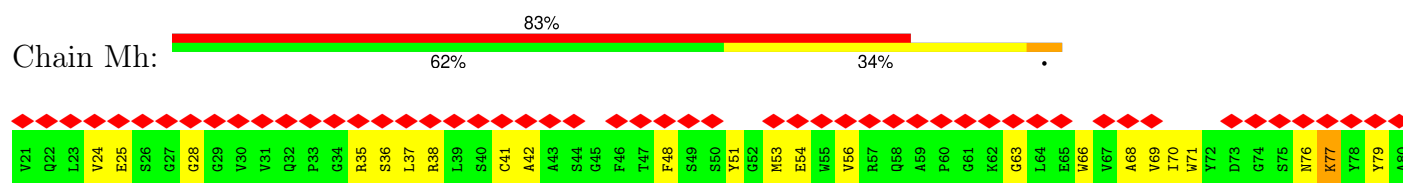
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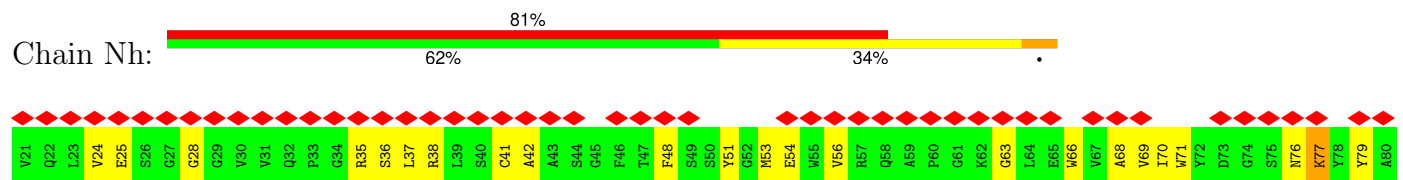
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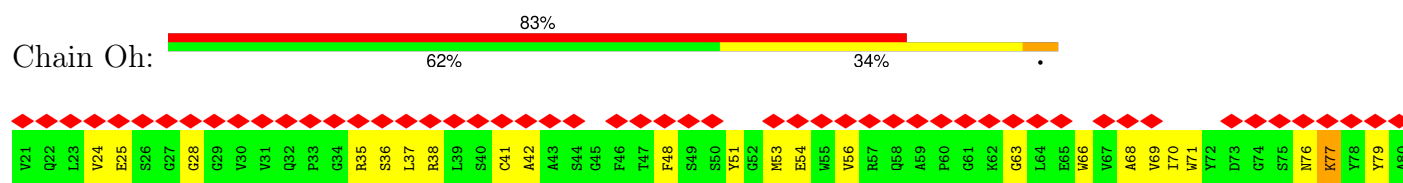
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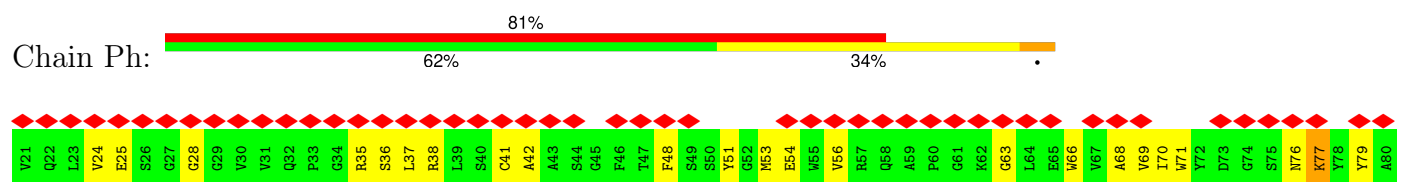
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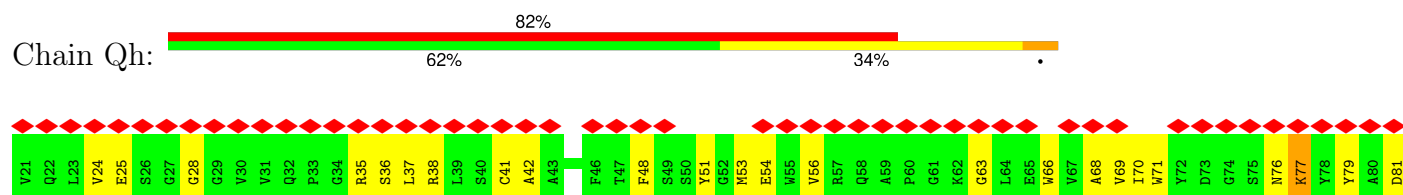
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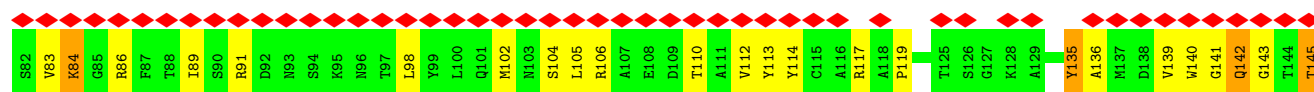


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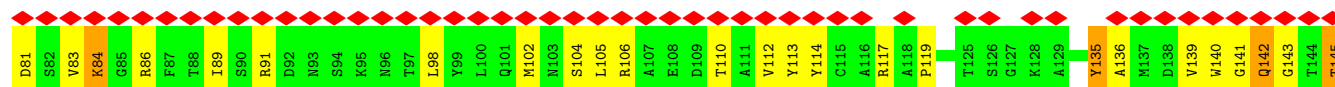
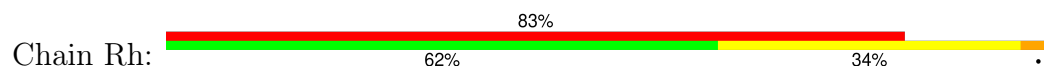


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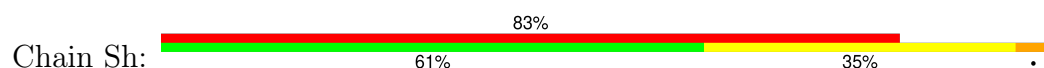




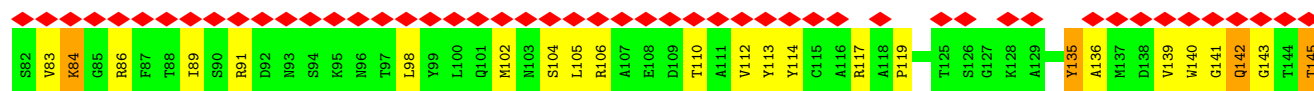
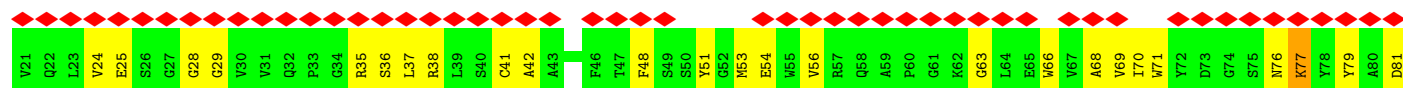
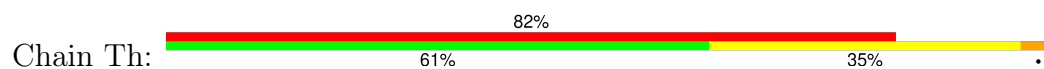
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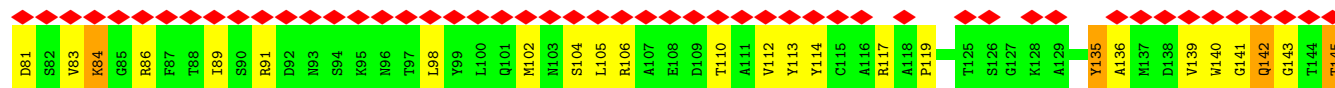
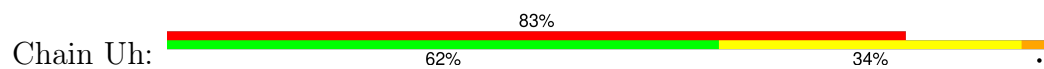
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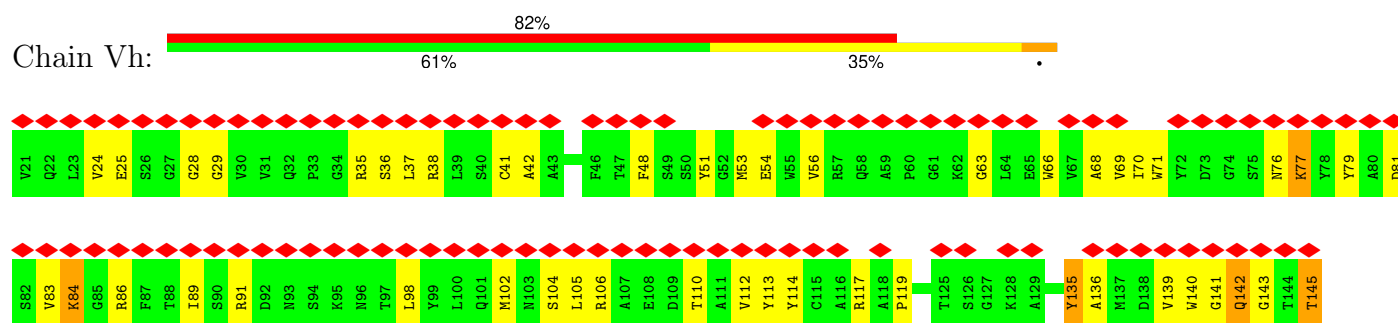
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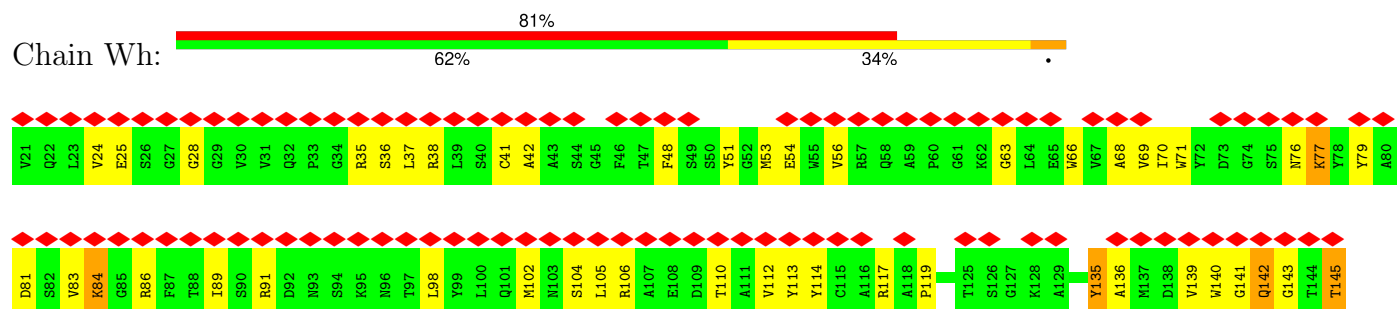
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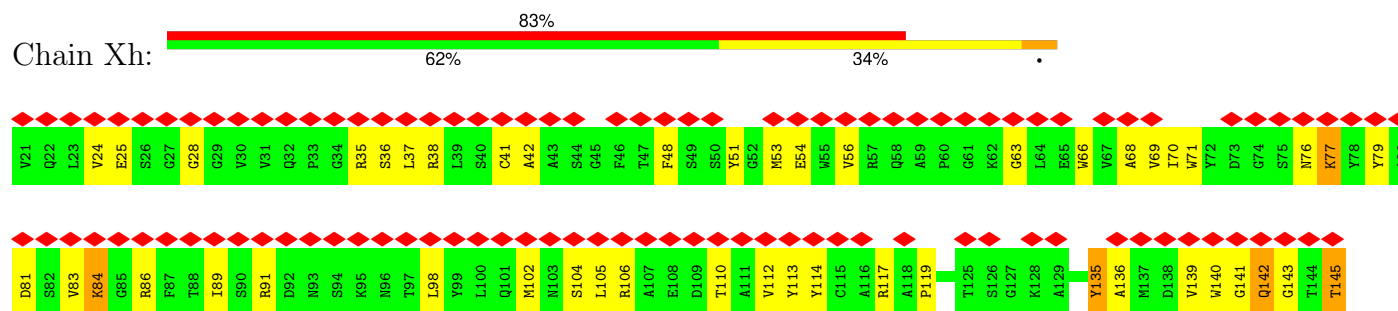
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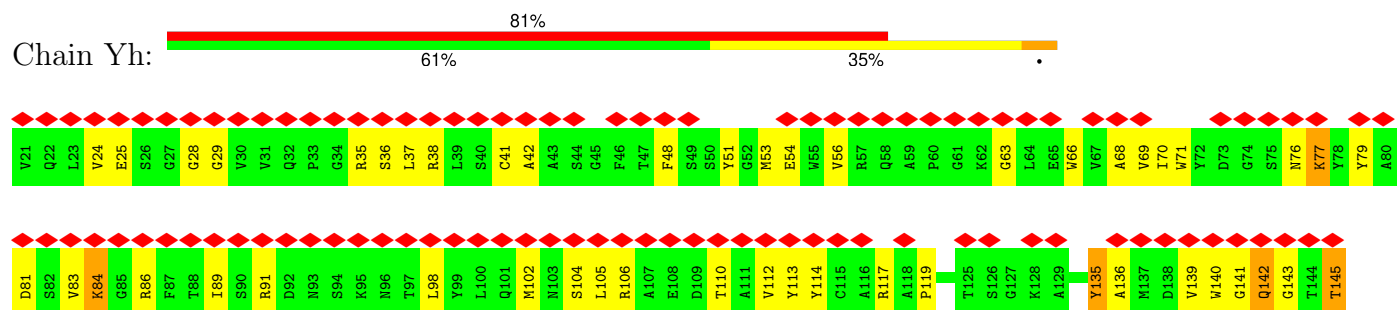
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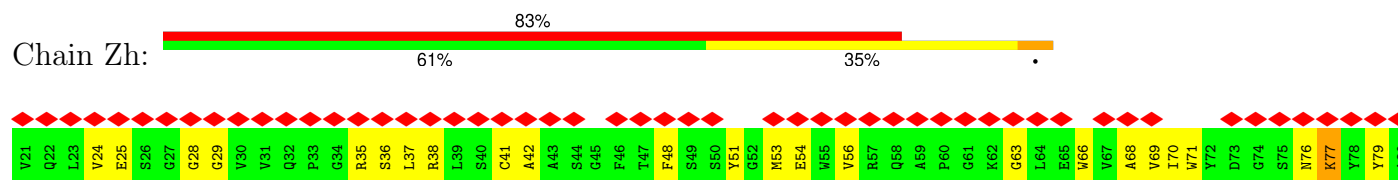
• Molecule 2: IgA-Fab3-4 heavy chain



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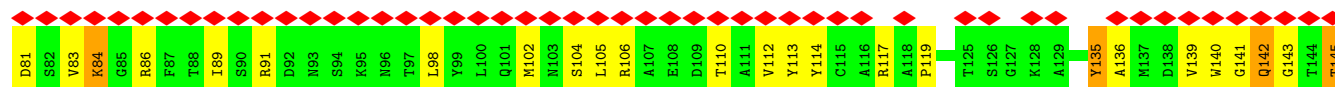
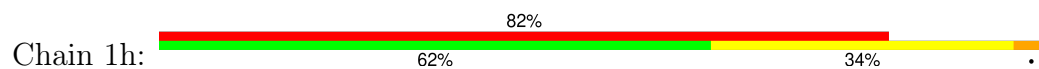


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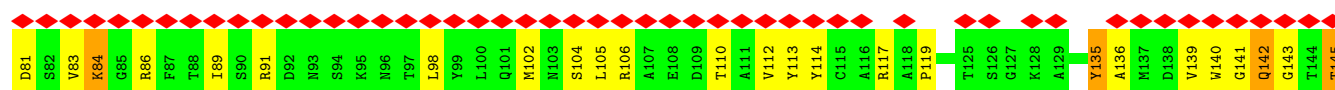
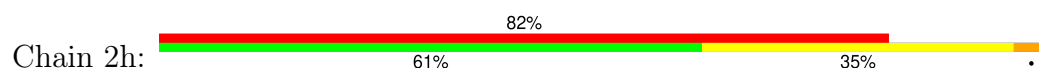




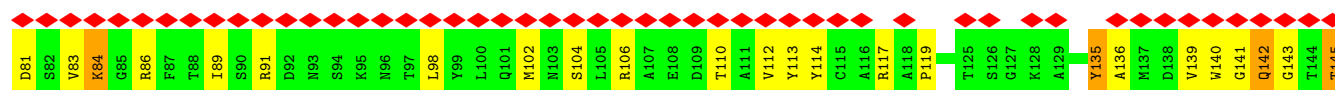
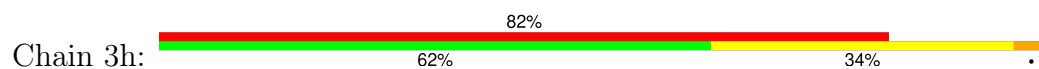
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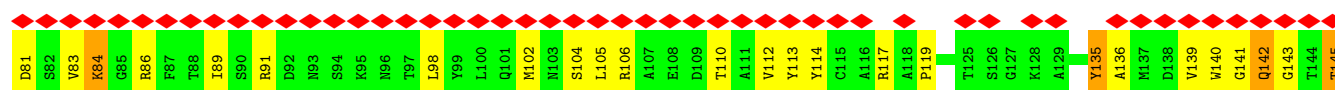
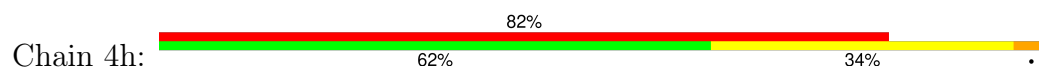
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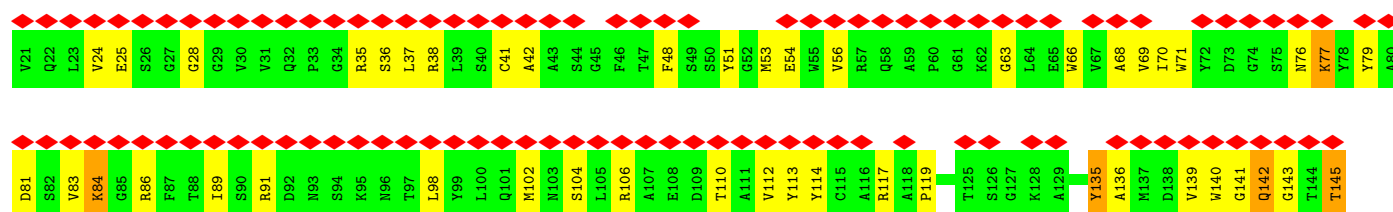
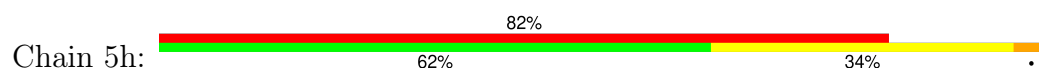
• Molecule 2: IgA-Fab3-4 heavy chain



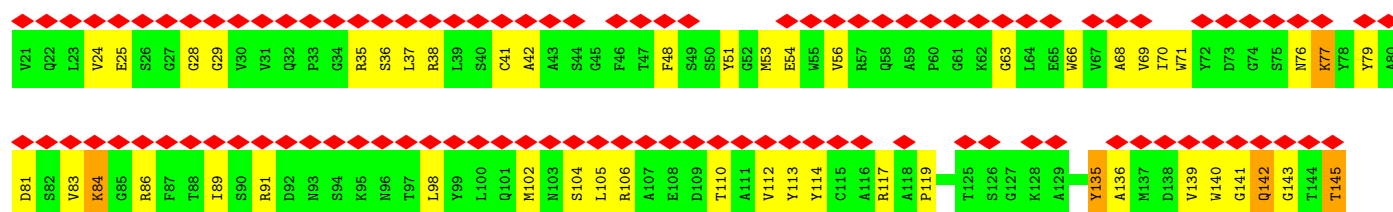
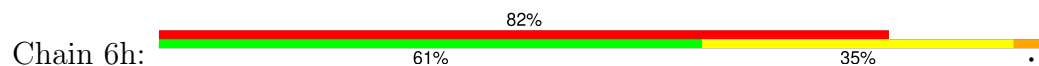
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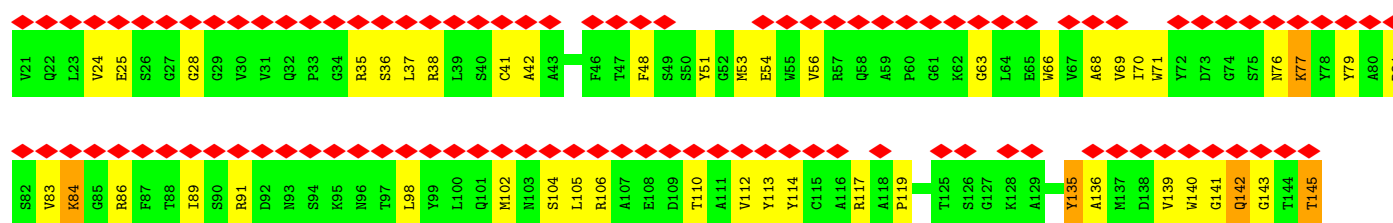
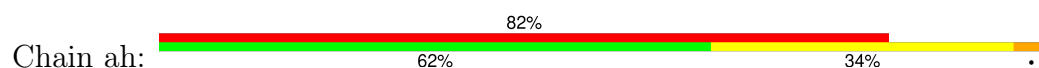
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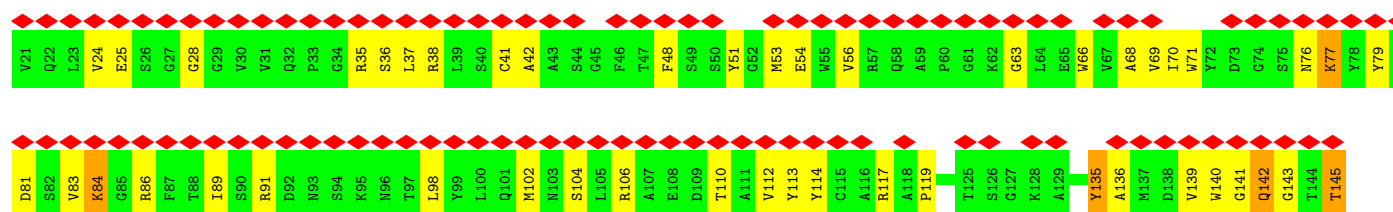
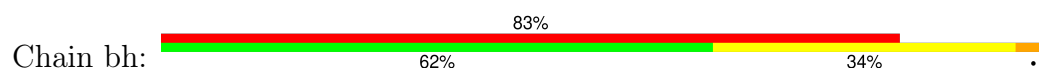
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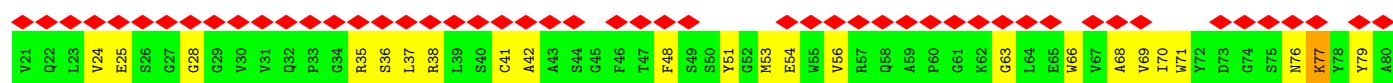
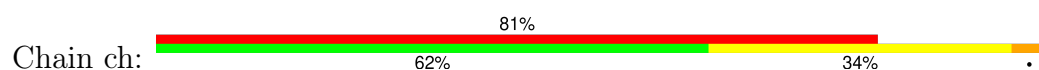
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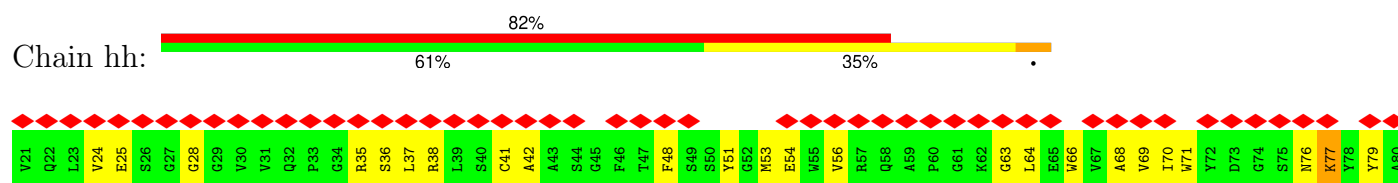


• Molecule 2: IgA-Fab3-4 heavy chain

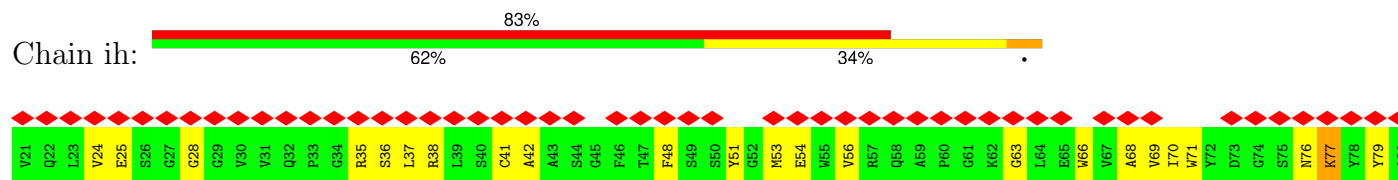


• Molecule 2: IgA-Fab3-4 heavy chain

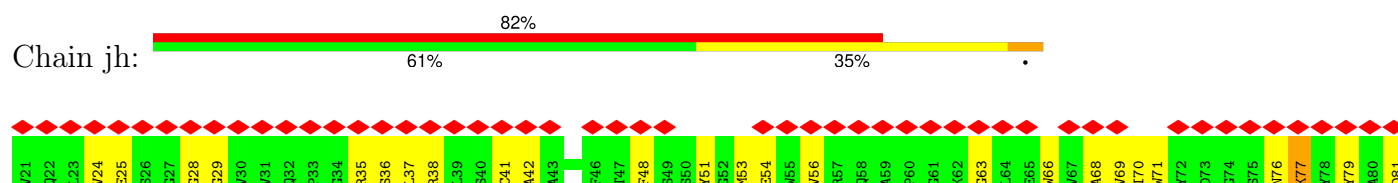




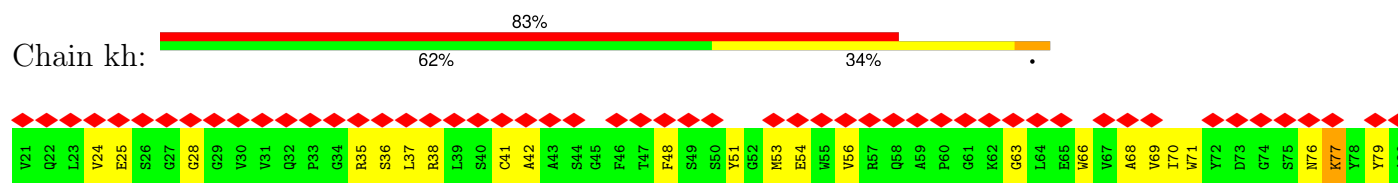
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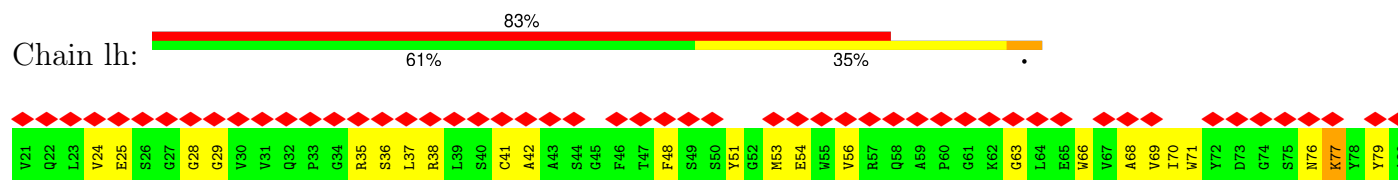
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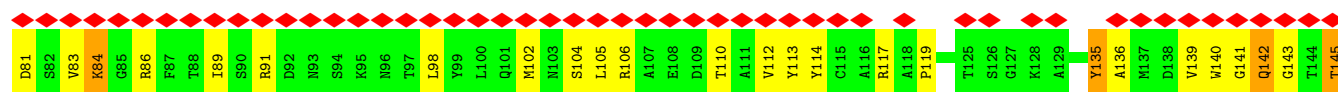


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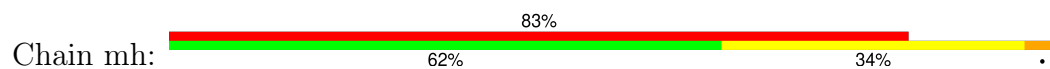


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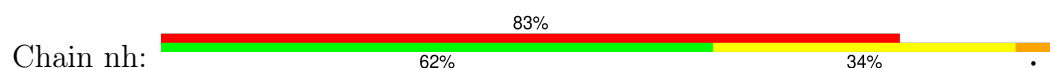




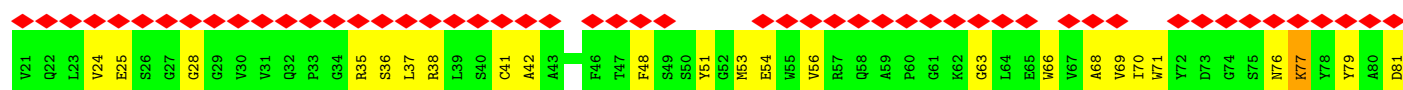
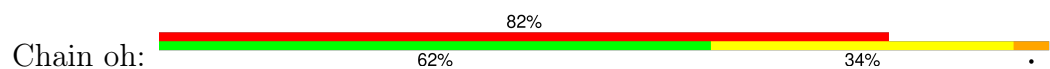
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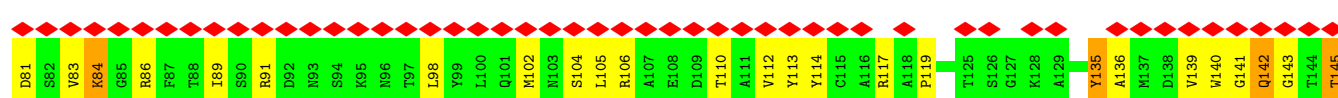
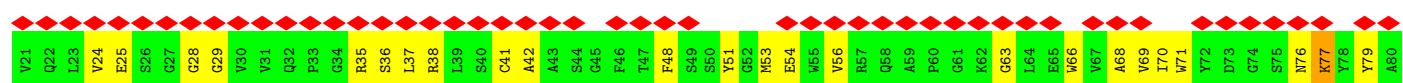
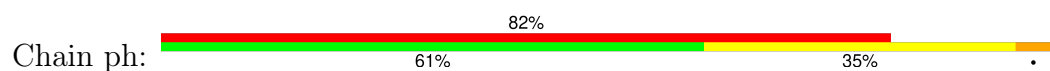
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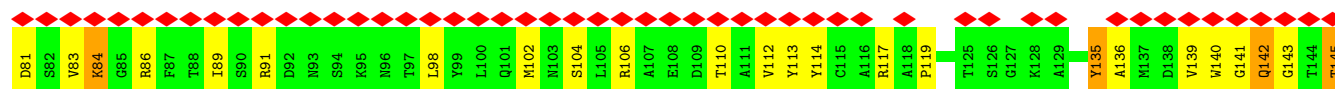
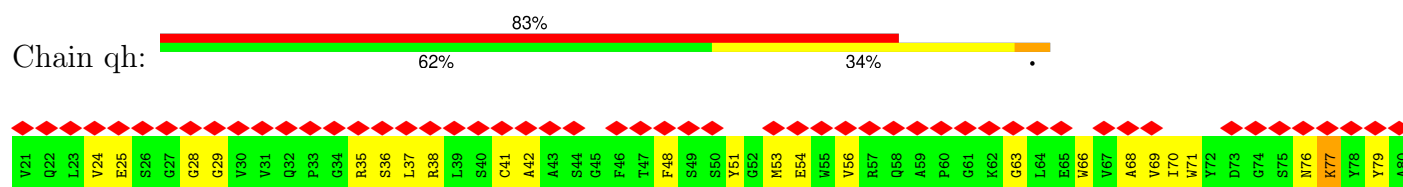
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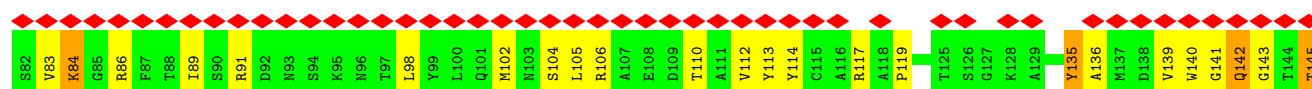
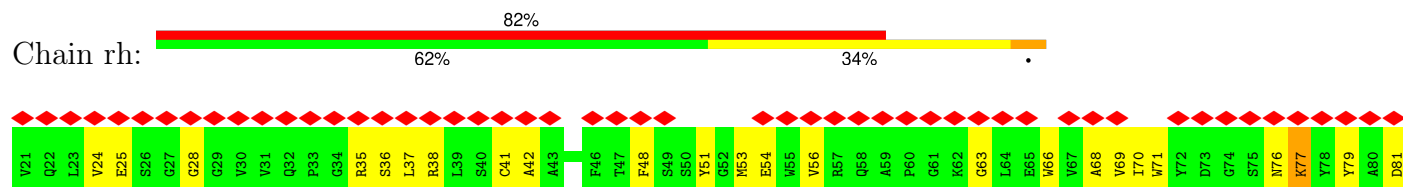
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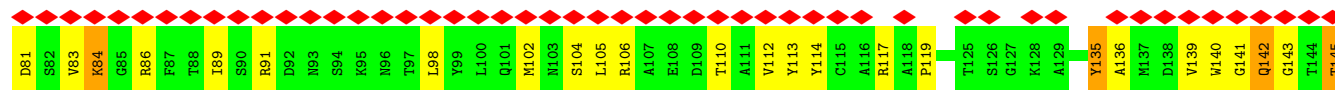
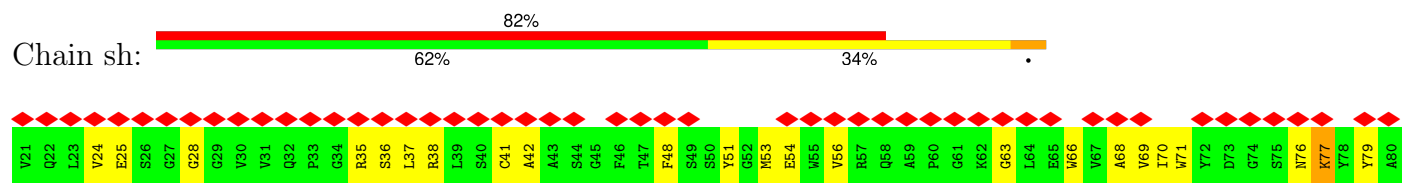
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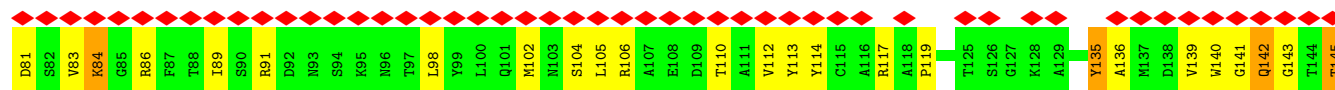
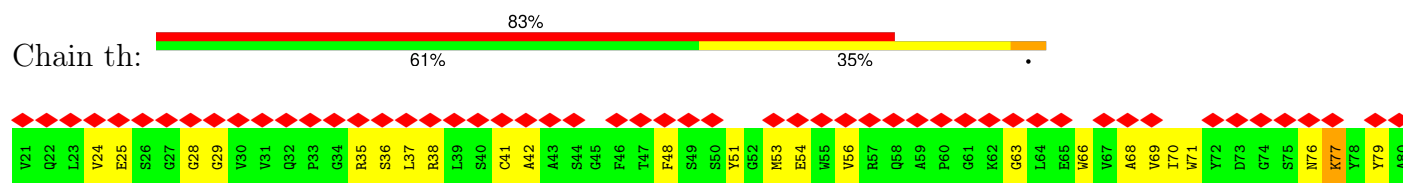
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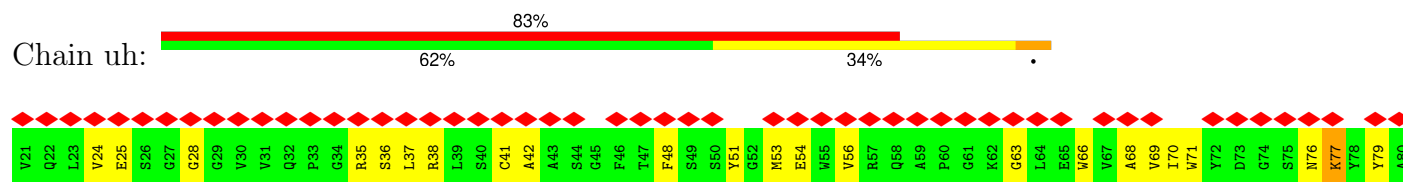
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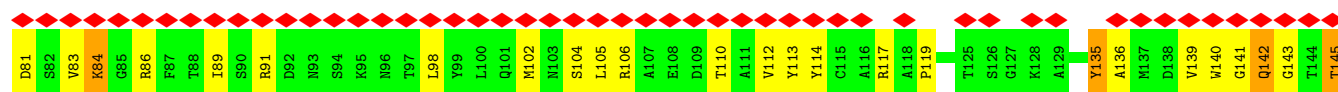


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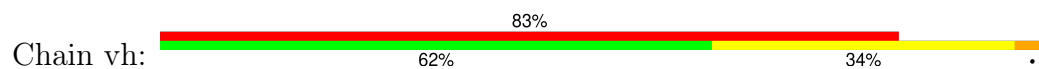


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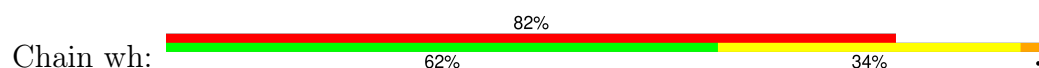




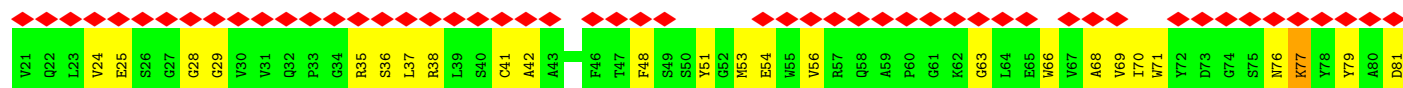
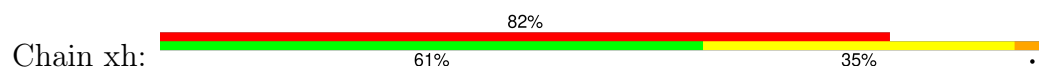
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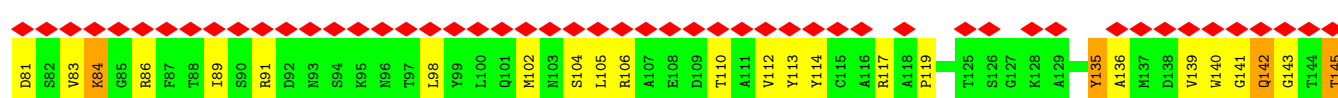
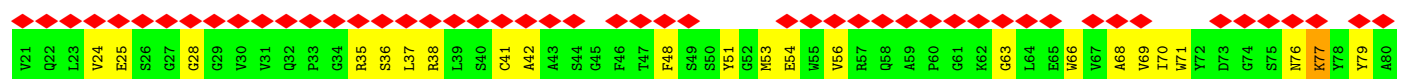
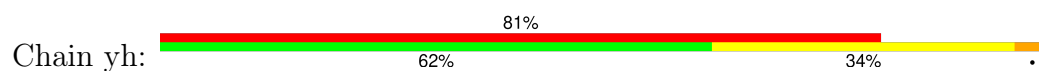
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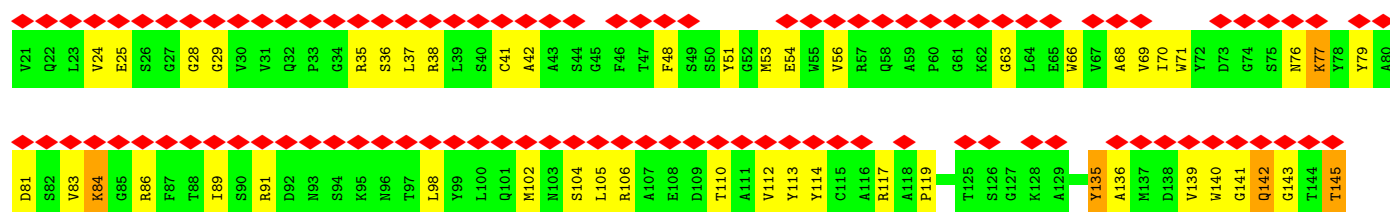
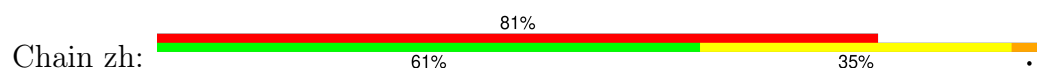
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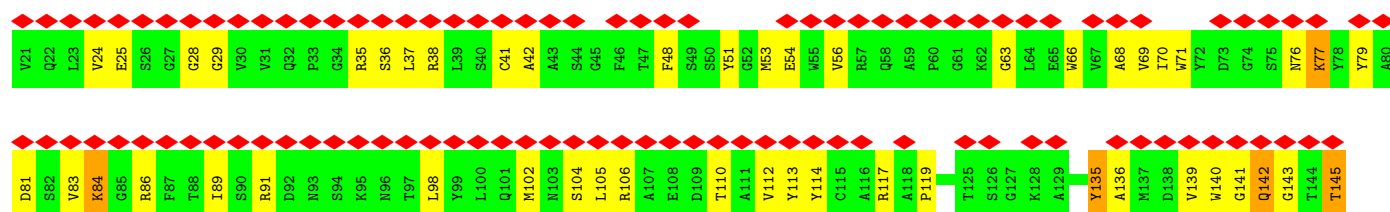
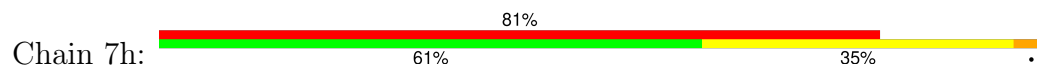
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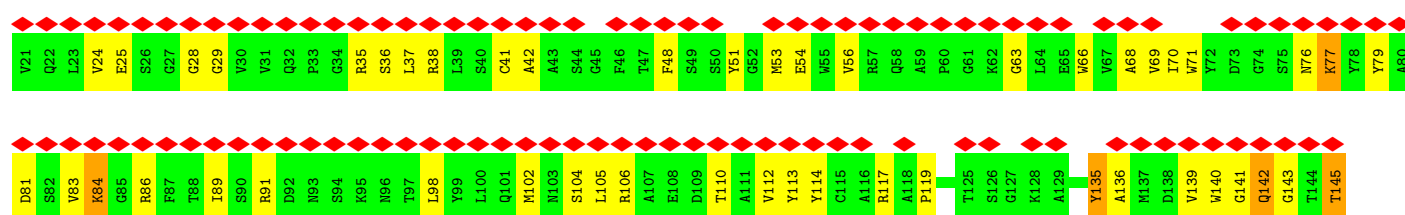
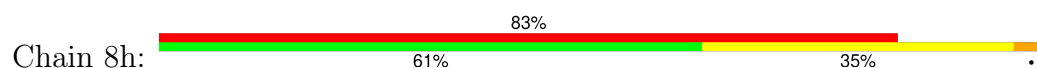
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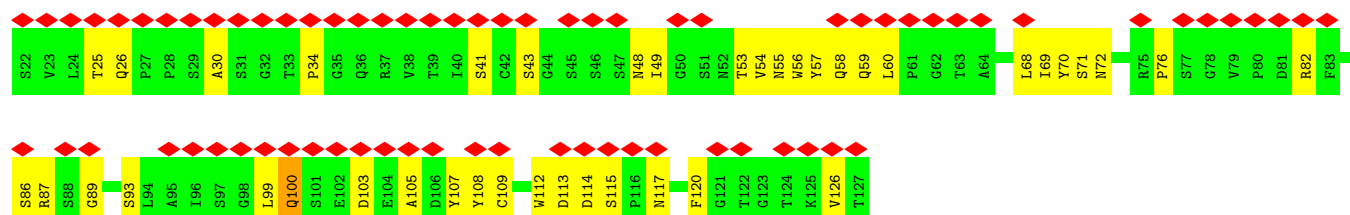
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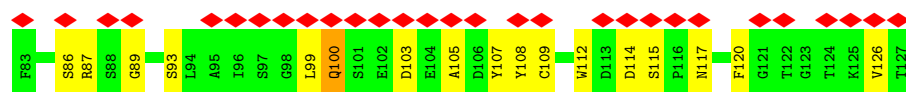


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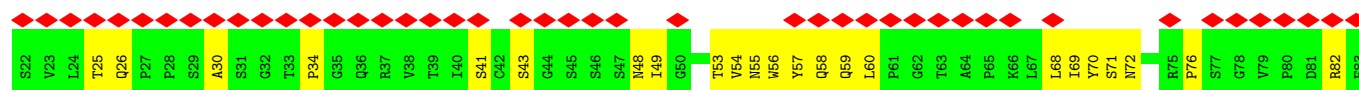
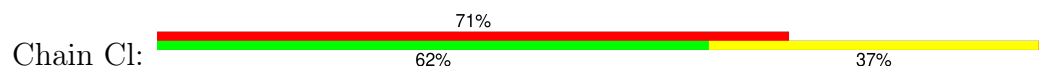


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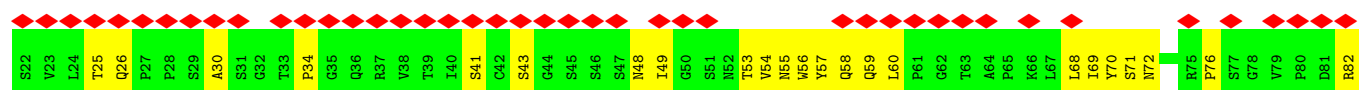




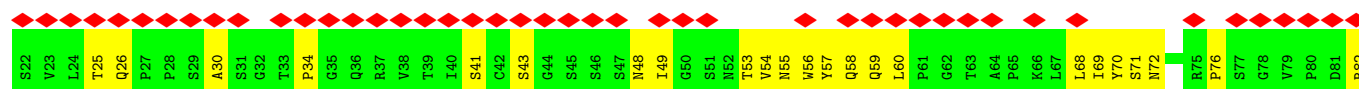
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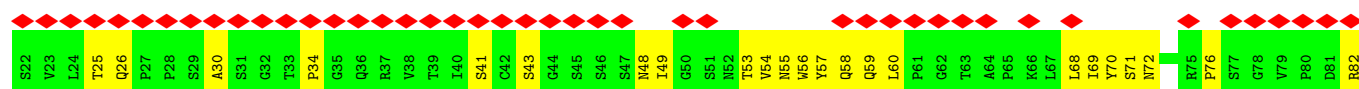
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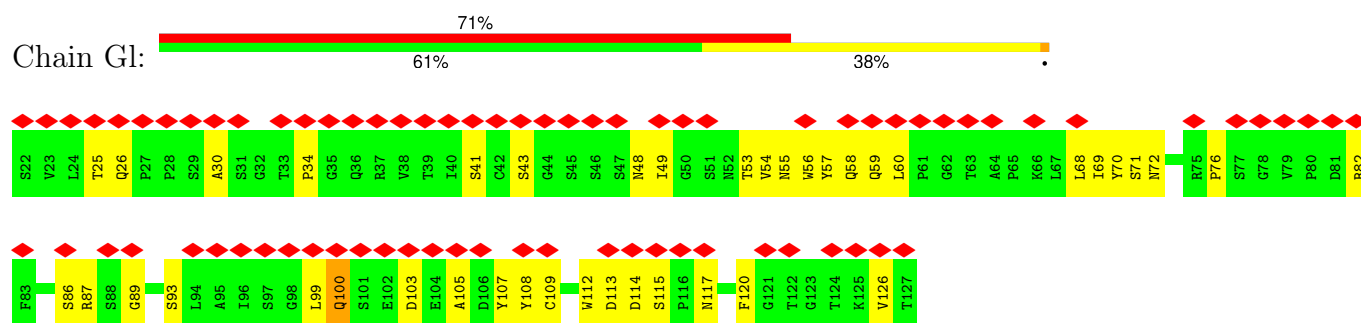
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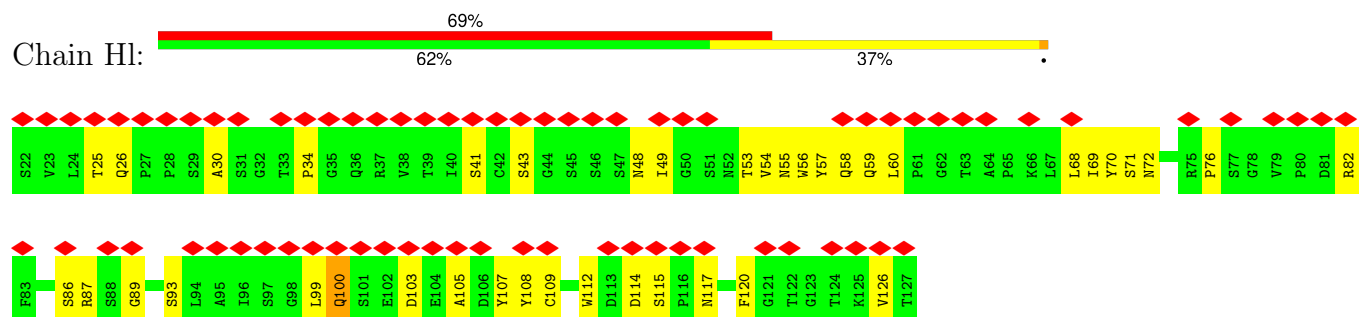
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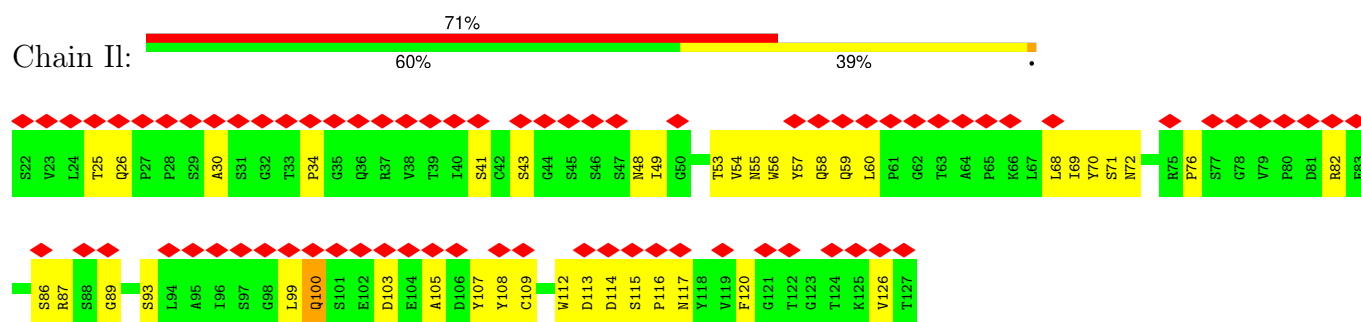
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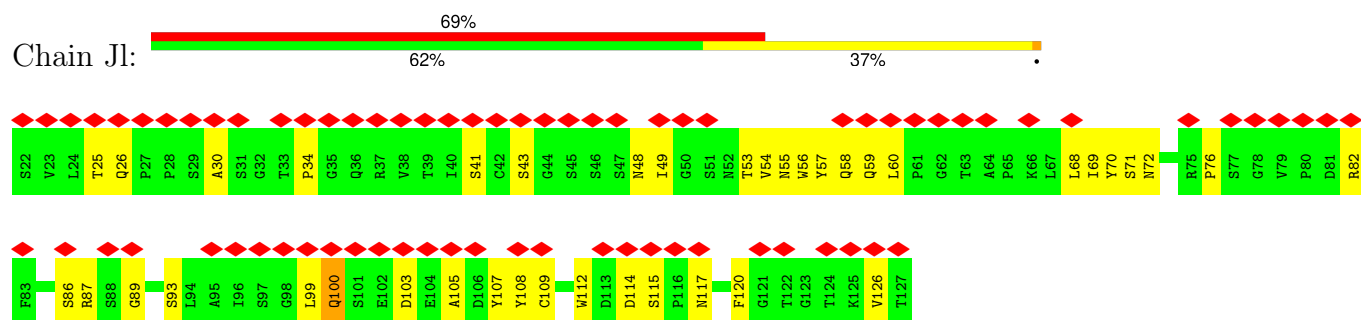
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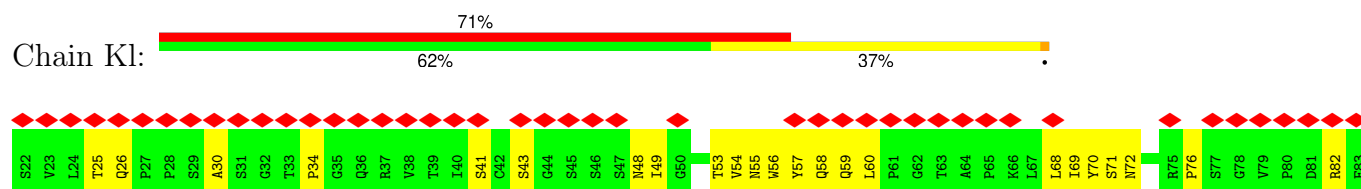
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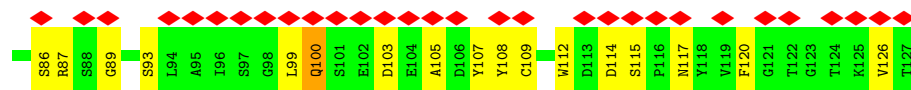


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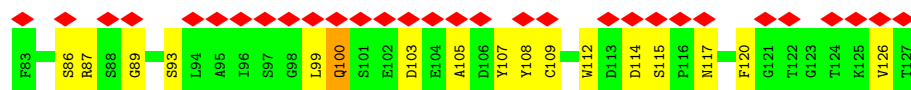
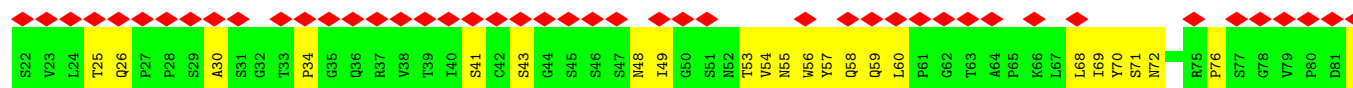
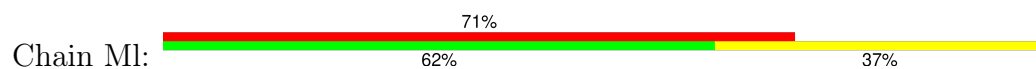




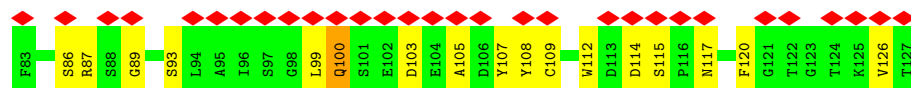
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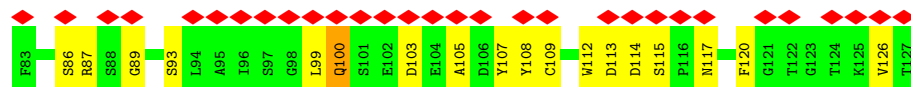
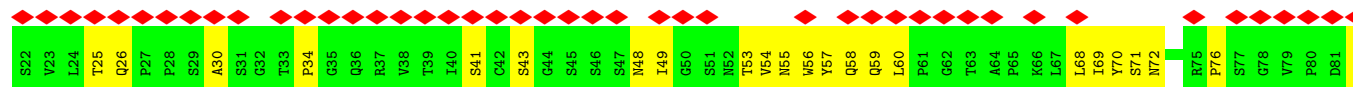
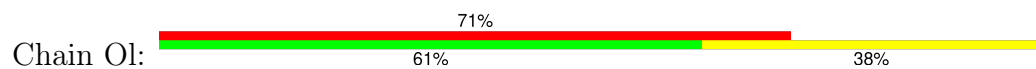
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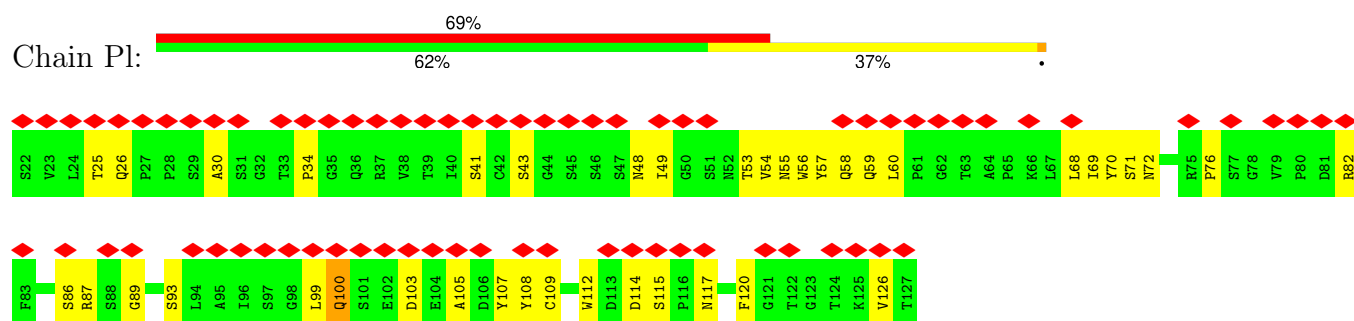
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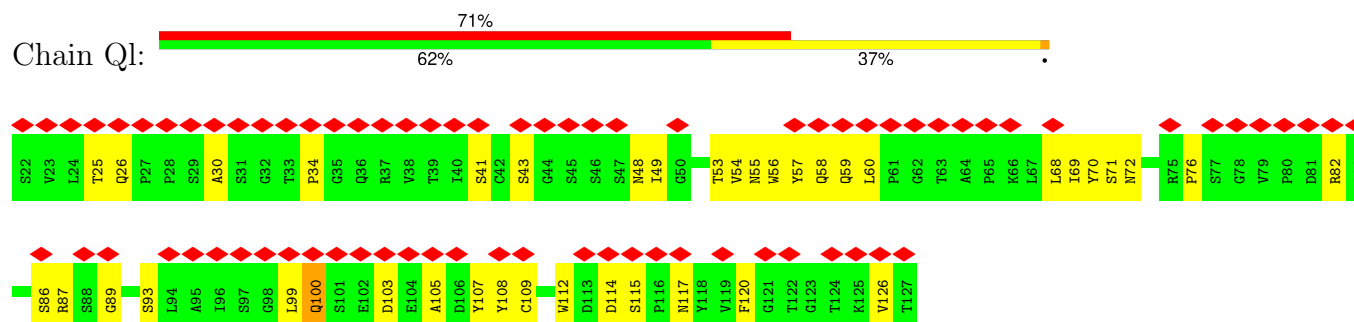
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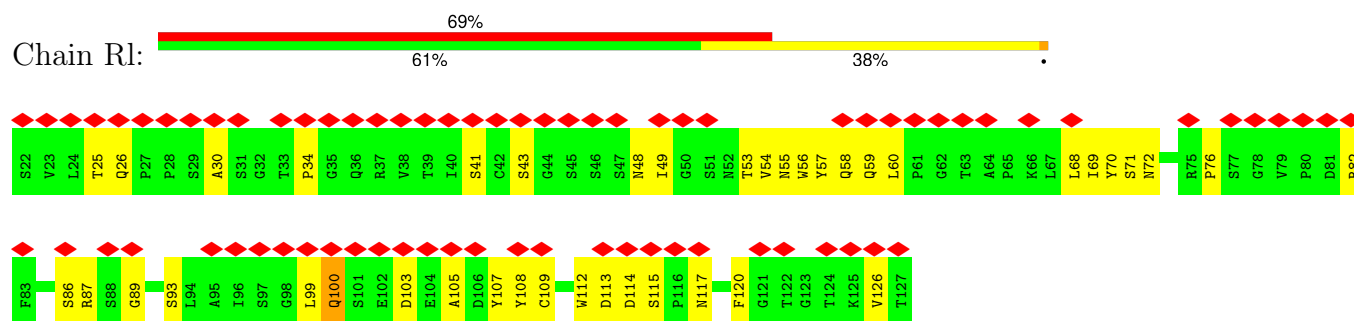
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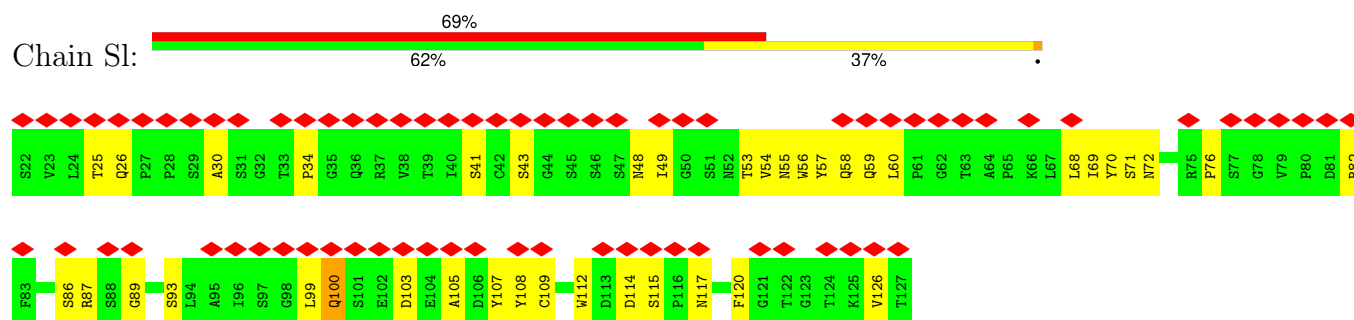
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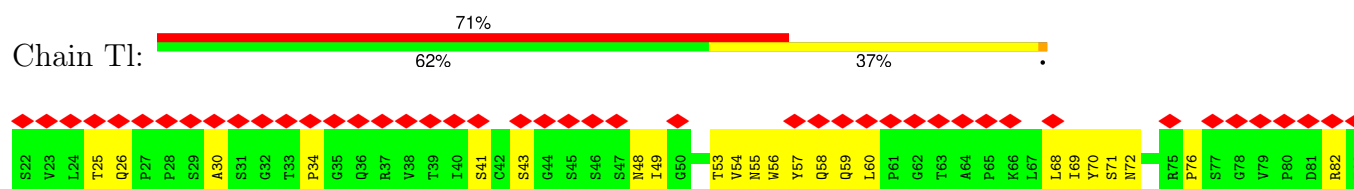
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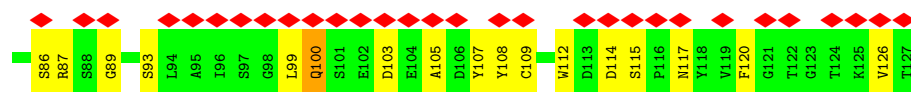


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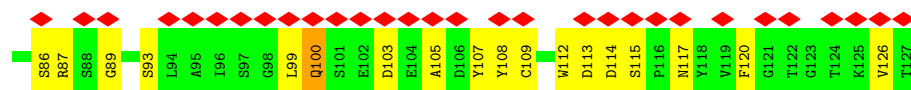
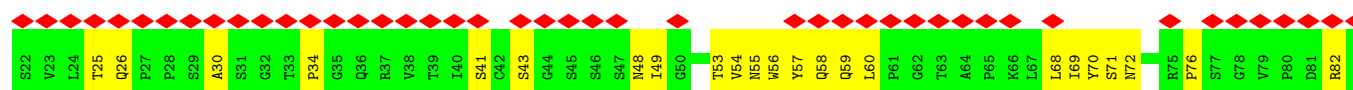




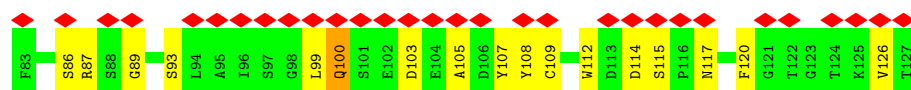
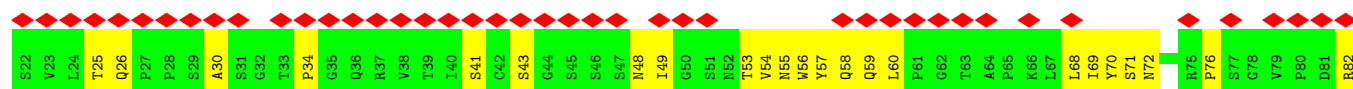
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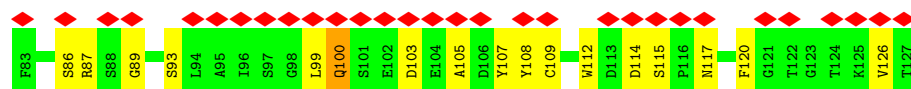
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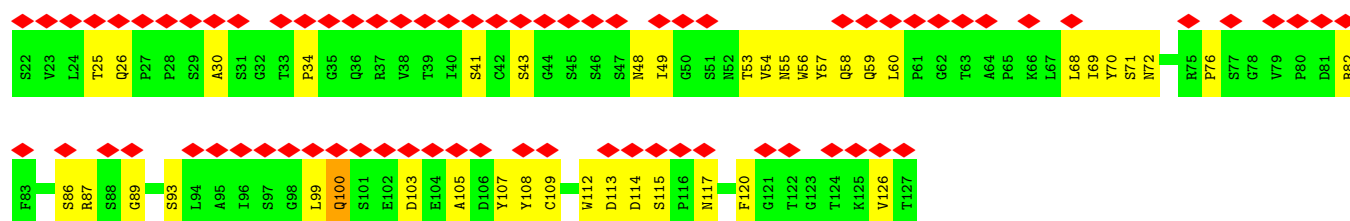
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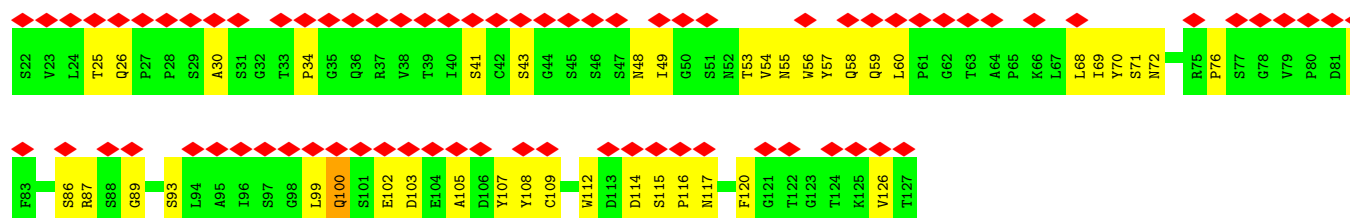
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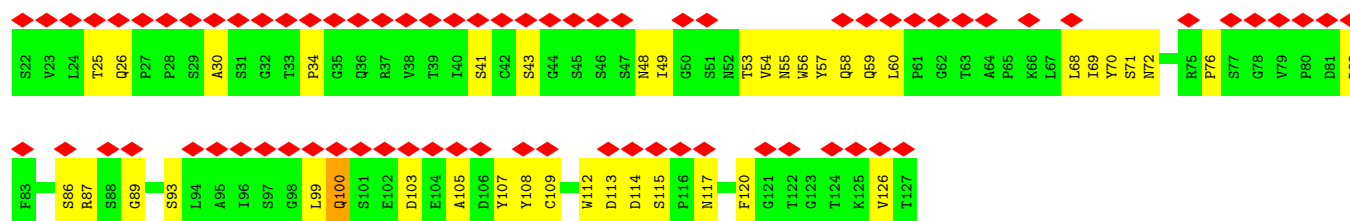
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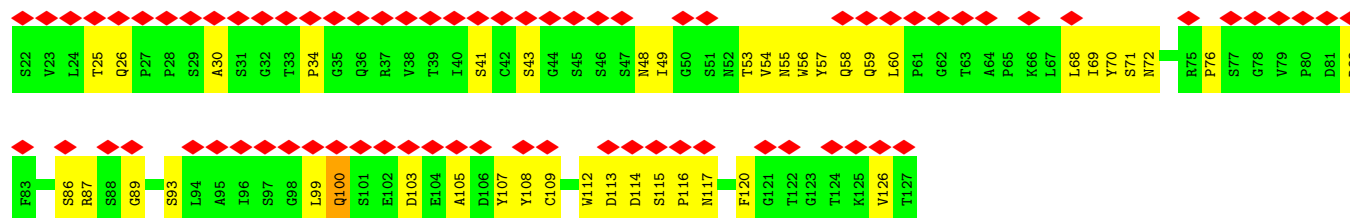
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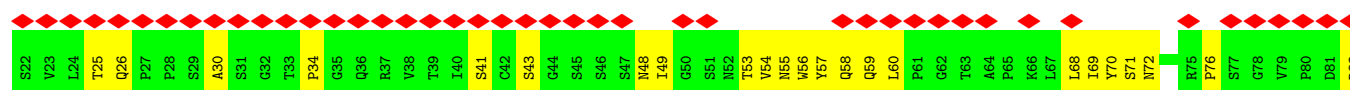
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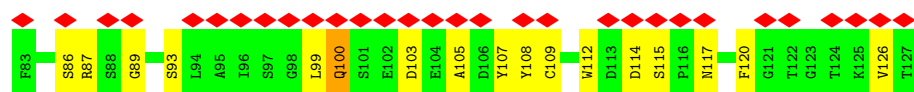


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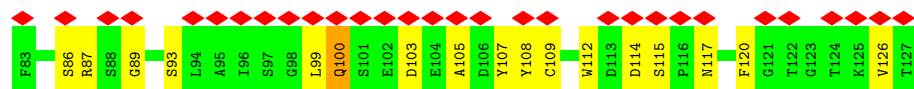
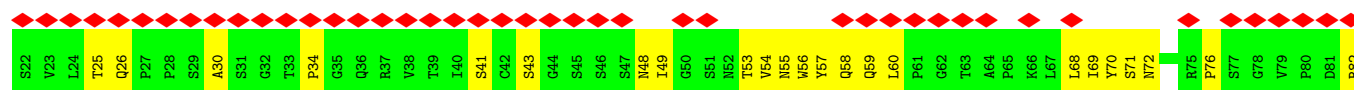


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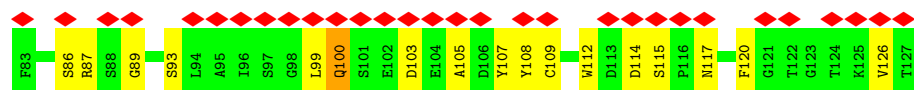
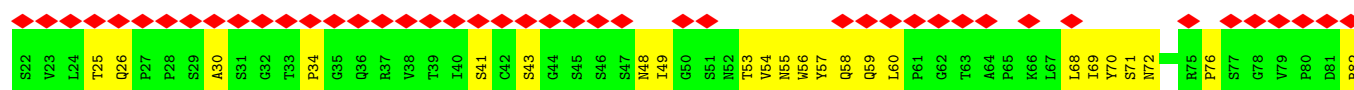




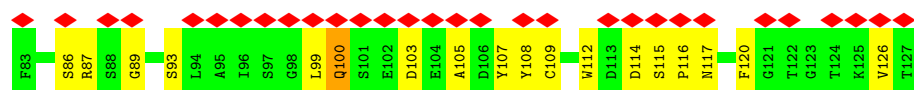
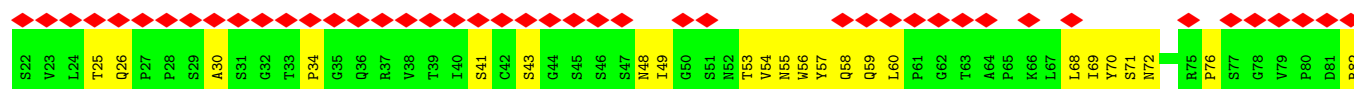
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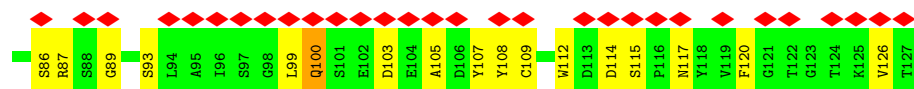
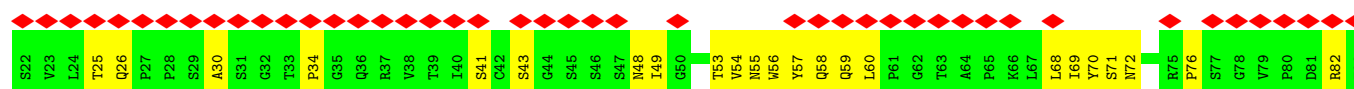
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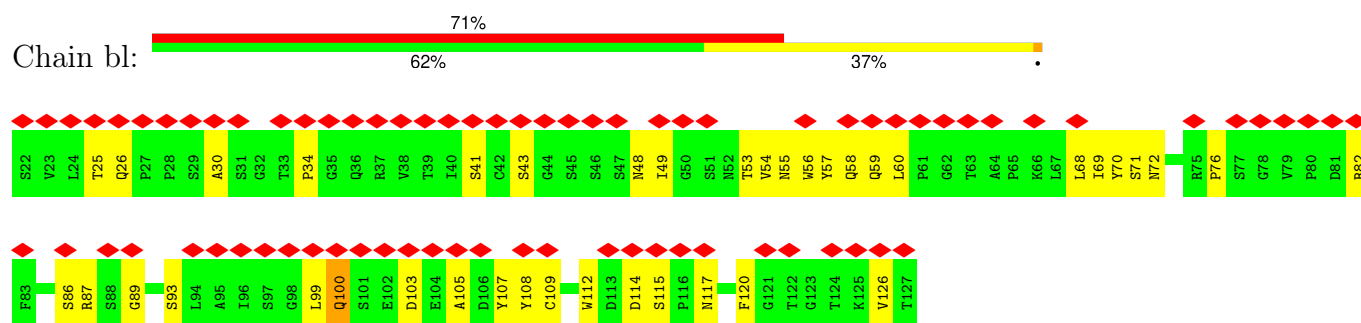
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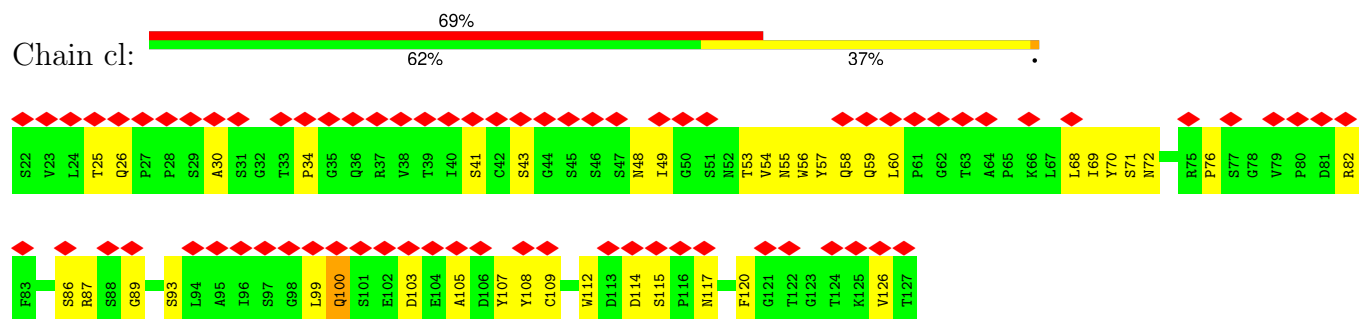
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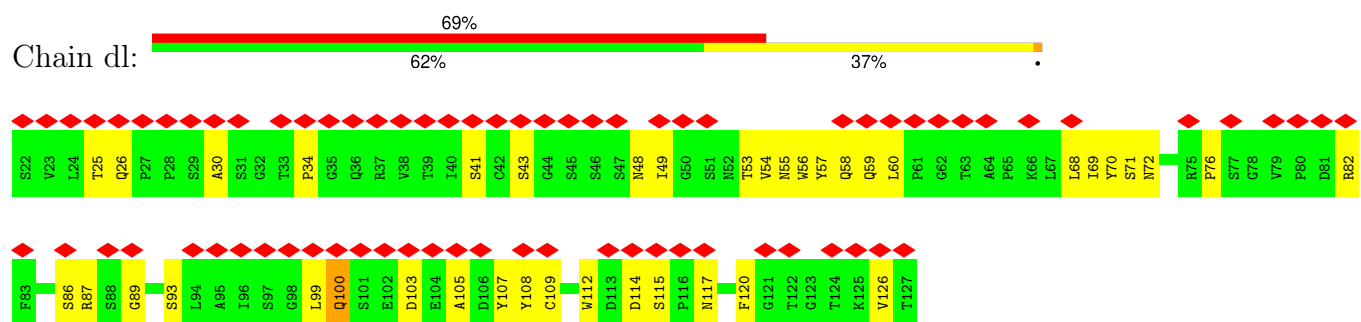
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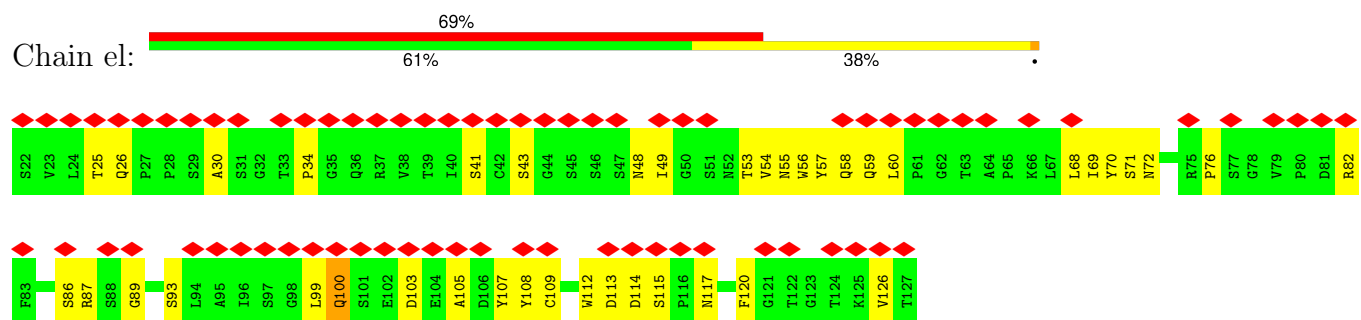
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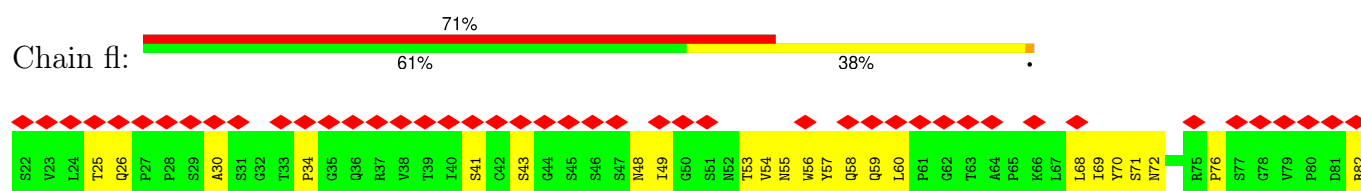
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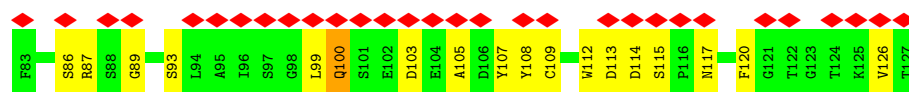


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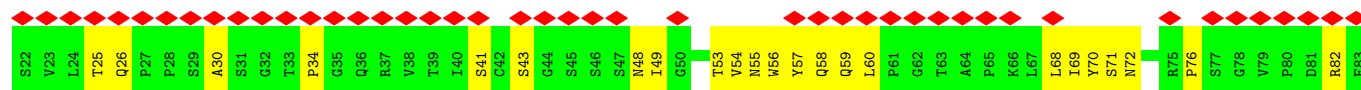


• Molecule 3: IgA-Fab3-4 light chain

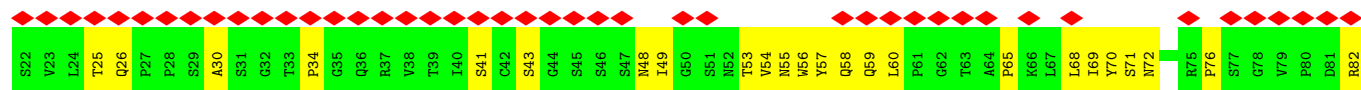




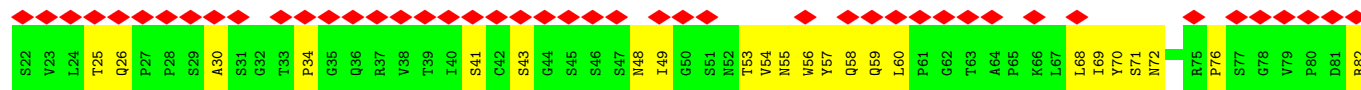
• Molecule 3: IgA-Fab3-4 light chain



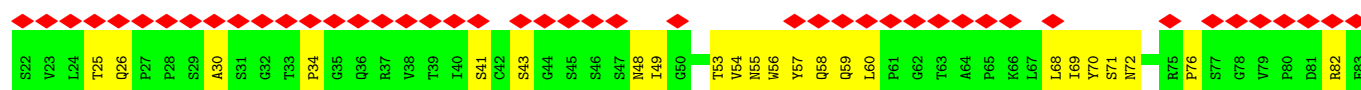
• Molecule 3: IgA-Fab3-4 light chain



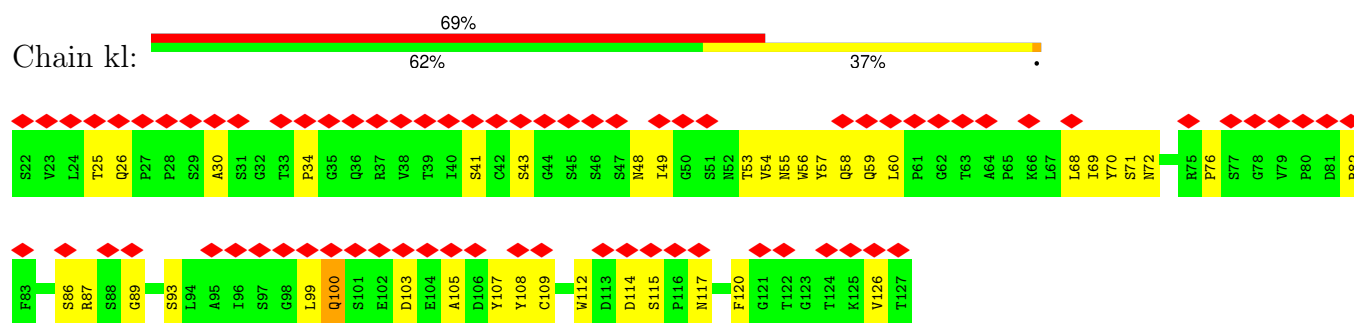
• Molecule 3: IgA-Fab3-4 light chain



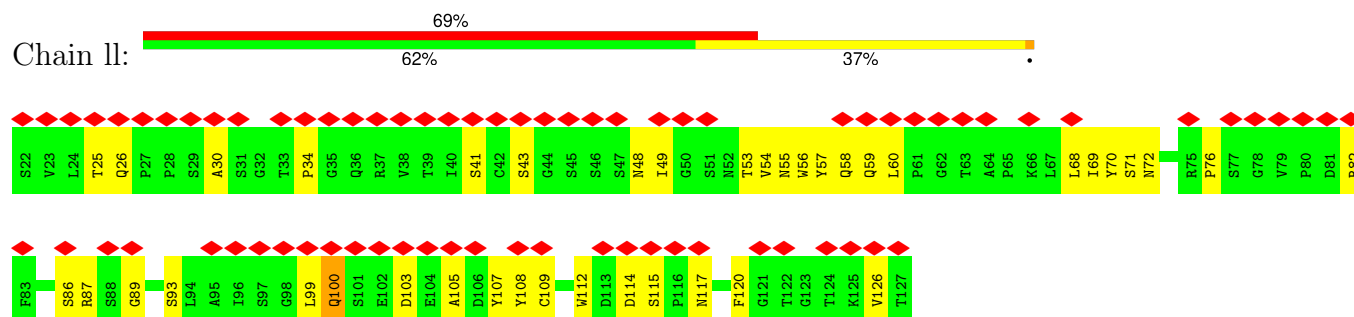
• Molecule 3: IgA-Fab3-4 light chain



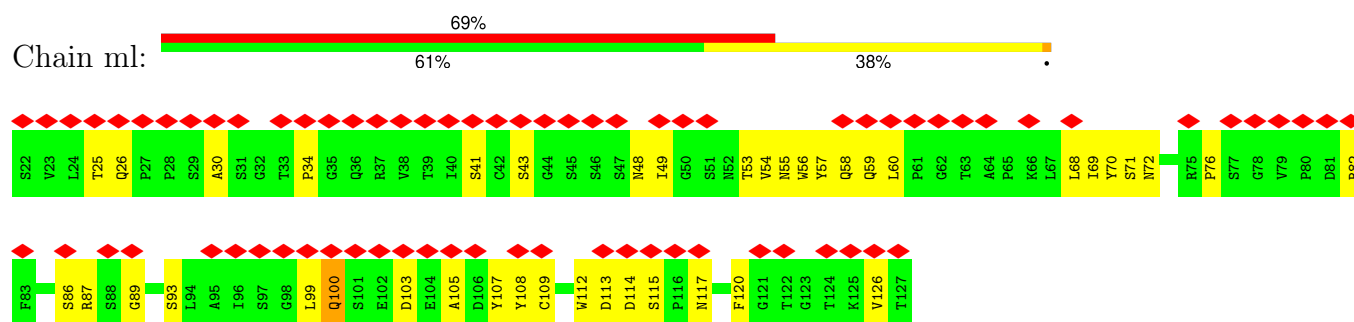
• Molecule 3: IgA-Fab3-4 light chain



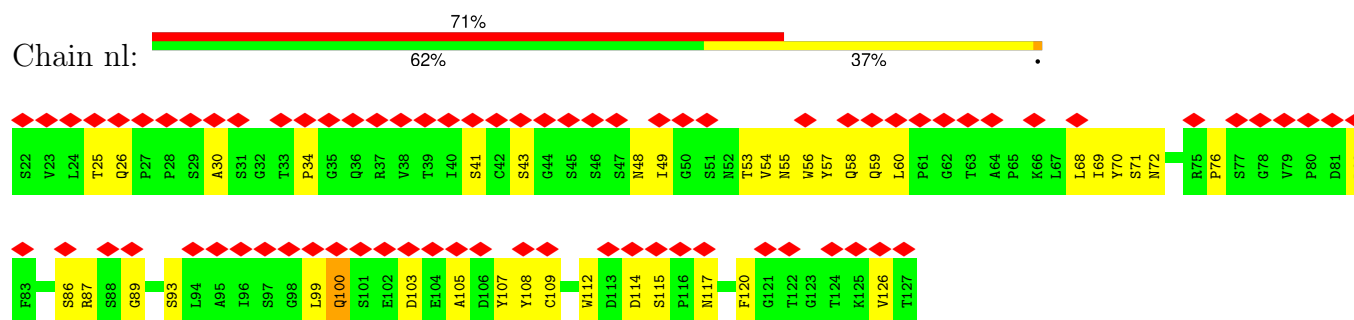
- Molecule 3: IgA-Fab3-4 light chain



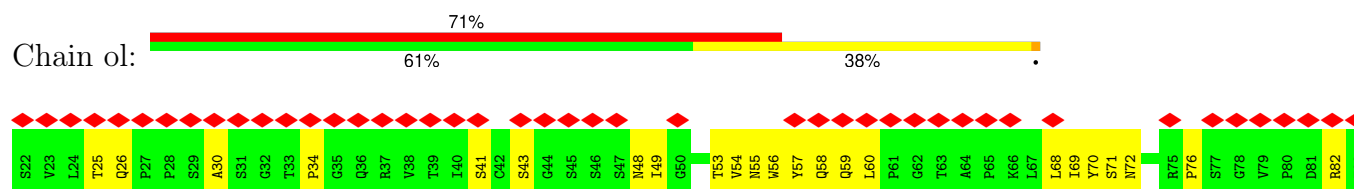
- Molecule 3: IgA-Fab3-4 light chain

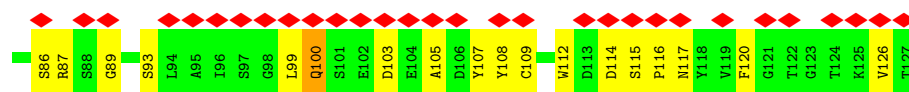


- Molecule 3: IgA-Fab3-4 light chain

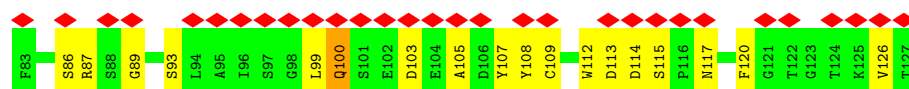
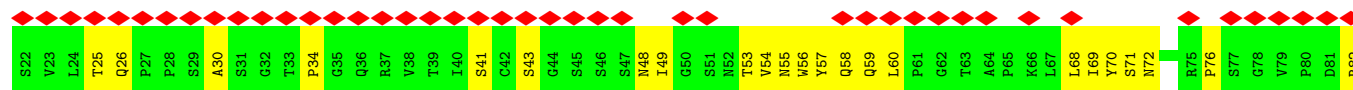


- Molecule 3: IgA-Fab3-4 light chain

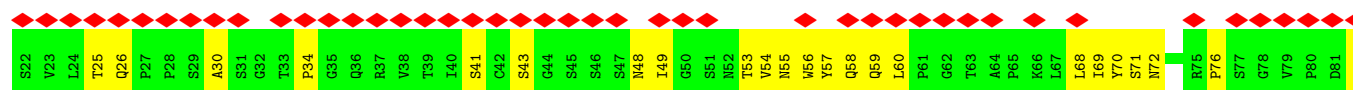




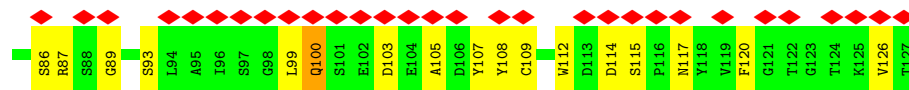
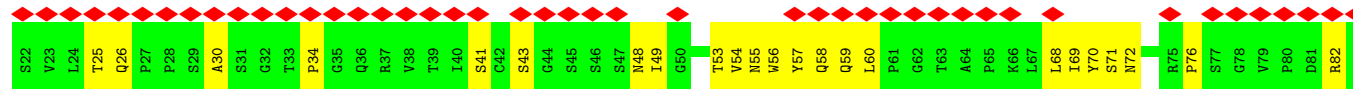
• Molecule 3: IgA-Fab3-4 light chain



• Molecule 3: IgA-Fab3-4 light chain



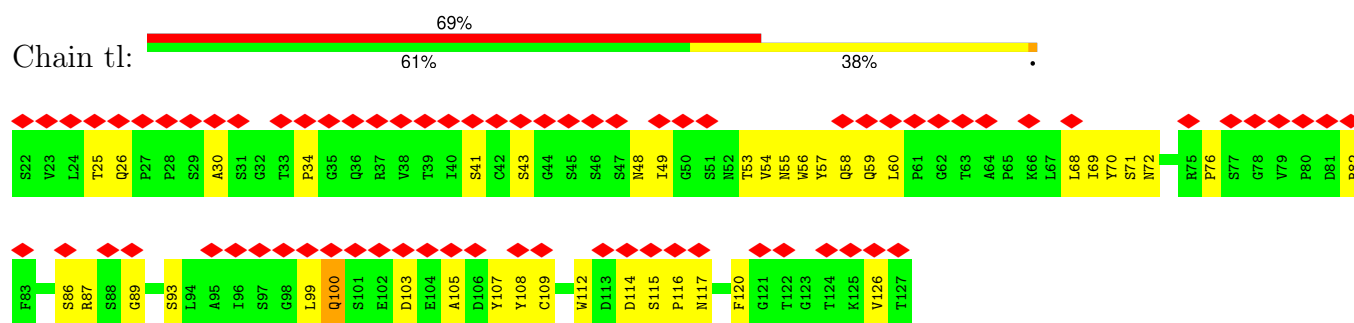
• Molecule 3: IgA-Fab3-4 light chain



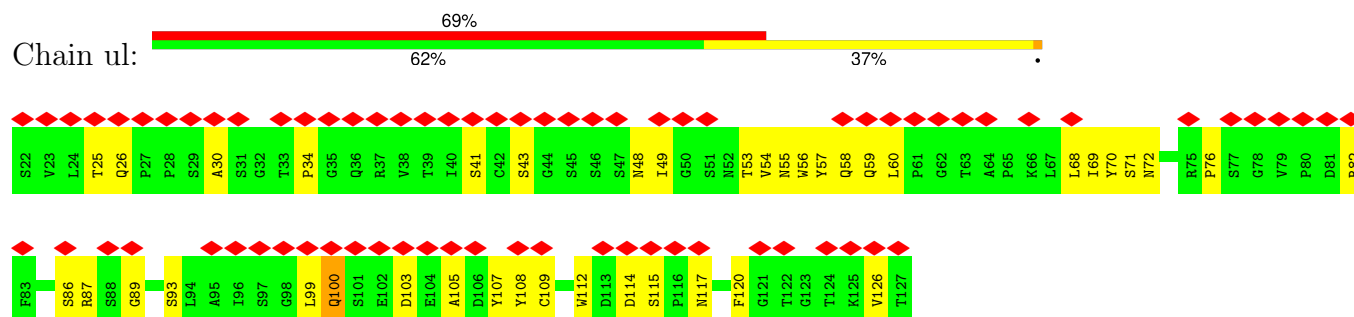
• Molecule 3: IgA-Fab3-4 light chain



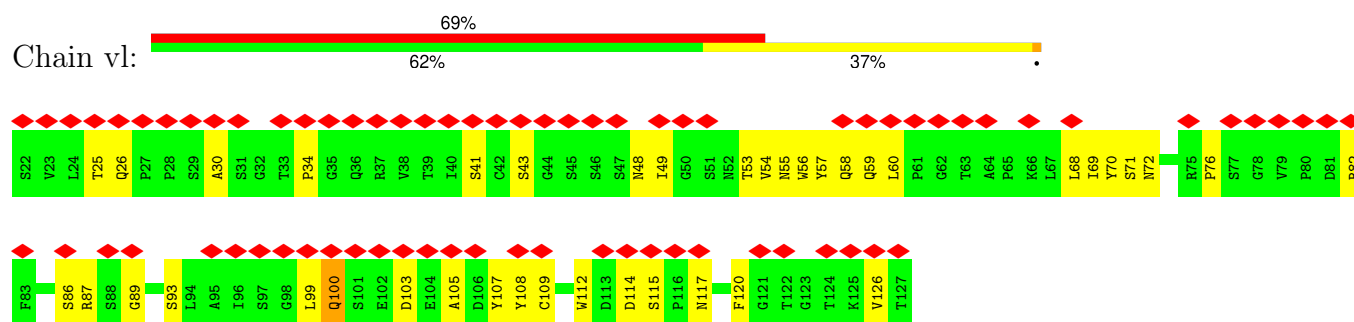
• Molecule 3: IgA-Fab3-4 light chain



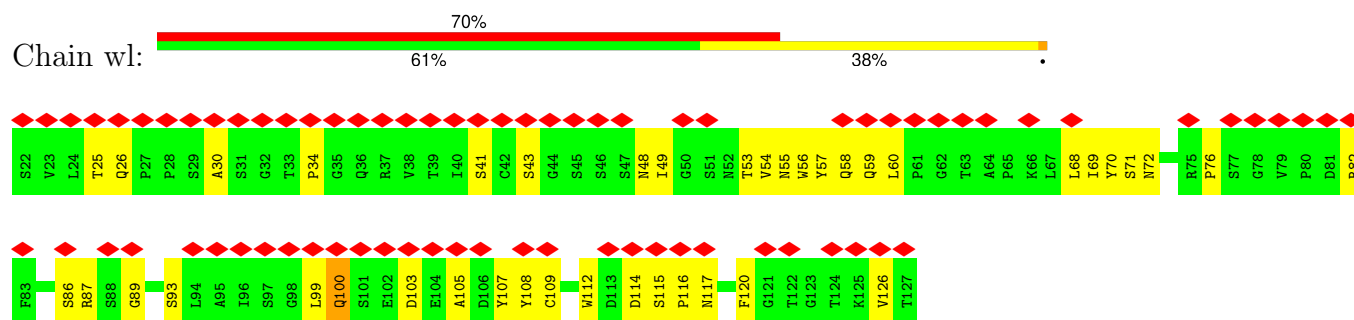
• Molecule 3: IgA-Fab3-4 light chain



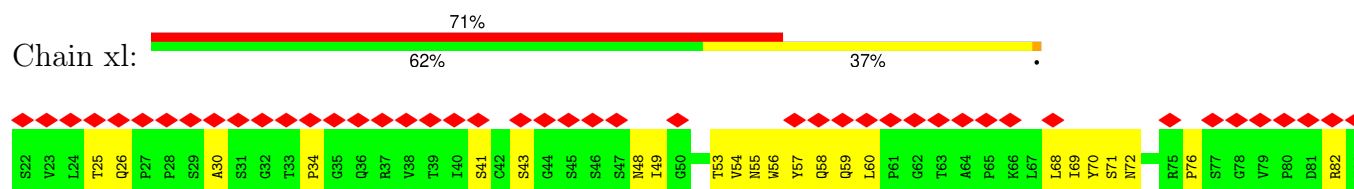
• Molecule 3: IgA-Fab3-4 light chain

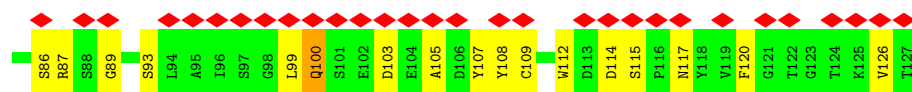


• Molecule 3: IgA-Fab3-4 light chain



• Molecule 3: IgA-Fab3-4 light chain

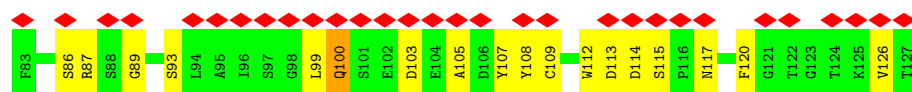




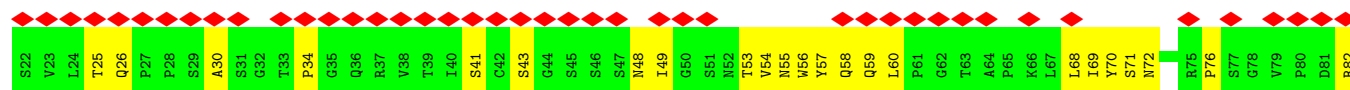
• Molecule 3: IgA-Fab3-4 light chain



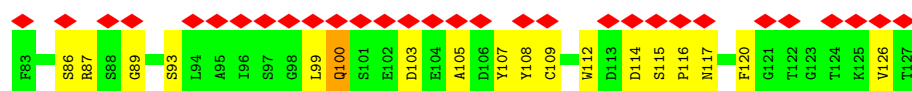
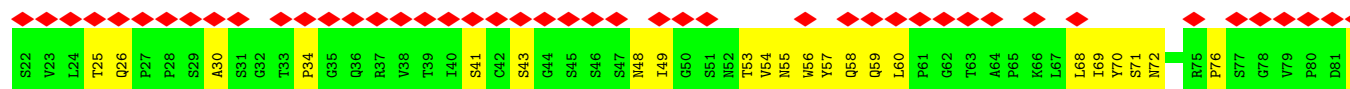
• Molecule 3: IgA-Fab3-4 light chain



• Molecule 3: IgA-Fab3-4 light chain



• Molecule 3: IgA-Fab3-4 light chain



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	10090	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 ($e^-/\text{\AA}^2$)	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	18.592	Depositor
Minimum map value	-12.340	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	439.8, 439.8, 439.8	wwPDB
Map dimensions	600, 600, 600	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.733, 0.733, 0.733	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	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	2	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	3	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	4	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	5	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	6	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	7	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	8	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	A	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	B	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	C	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	D	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	E	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	F	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	G	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	H	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	I	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	J	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	K	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	L	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	M	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	N	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	O	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	P	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	Q	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	R	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	S	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	T	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	U	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	V	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	W	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	X	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	Y	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	Z	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	b	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	c	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	d	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	e	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	f	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	g	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	h	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	i	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	j	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	k	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	l	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	m	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	n	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	o	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	p	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	q	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	r	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	s	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	t	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	u	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	v	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	w	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	x	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	y	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
1	z	0.73	1/4258 (0.0%)	0.80	4/5804 (0.1%)
2	1h	0.42	0/1018	0.70	0/1383
2	2h	0.42	0/1018	0.70	0/1383
2	3h	0.42	0/1018	0.70	0/1383
2	4h	0.42	0/1018	0.71	0/1383
2	5h	0.42	0/1018	0.70	0/1383
2	6h	0.42	0/1018	0.70	0/1383
2	7h	0.42	0/1018	0.70	0/1383
2	8h	0.42	0/1018	0.70	0/1383
2	Ah	0.42	0/1018	0.70	0/1383
2	Bh	0.42	0/1018	0.70	0/1383
2	Ch	0.42	0/1018	0.70	0/1383
2	Dh	0.42	0/1018	0.70	0/1383
2	Eh	0.42	0/1018	0.70	0/1383
2	Fh	0.42	0/1018	0.70	0/1383
2	Gh	0.42	0/1018	0.70	0/1383
2	Hh	0.42	0/1018	0.70	0/1383
2	Ih	0.42	0/1018	0.70	0/1383

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	Jh	0.42	0/1018	0.70	0/1383
2	Kh	0.42	0/1018	0.70	0/1383
2	Lh	0.42	0/1018	0.70	0/1383
2	Mh	0.42	0/1018	0.70	0/1383
2	Nh	0.42	0/1018	0.70	0/1383
2	Oh	0.42	0/1018	0.70	0/1383
2	Ph	0.42	0/1018	0.70	0/1383
2	Qh	0.42	0/1018	0.70	0/1383
2	Rh	0.42	0/1018	0.70	0/1383
2	Sh	0.42	0/1018	0.70	0/1383
2	Th	0.42	0/1018	0.70	0/1383
2	Uh	0.42	0/1018	0.70	0/1383
2	Vh	0.42	0/1018	0.70	0/1383
2	Wh	0.42	0/1018	0.70	0/1383
2	Xh	0.42	0/1018	0.70	0/1383
2	Yh	0.42	0/1018	0.70	0/1383
2	Zh	0.42	0/1018	0.70	0/1383
2	ah	0.42	0/1018	0.70	0/1383
2	bh	0.42	0/1018	0.70	0/1383
2	ch	0.42	0/1018	0.70	0/1383
2	dh	0.42	0/1018	0.70	0/1383
2	eh	0.42	0/1018	0.70	0/1383
2	fh	0.42	0/1018	0.70	0/1383
2	gh	0.42	0/1018	0.70	0/1383
2	hh	0.42	0/1018	0.70	0/1383
2	ih	0.42	0/1018	0.70	0/1383
2	jh	0.42	0/1018	0.70	0/1383
2	kh	0.42	0/1018	0.70	0/1383
2	lh	0.42	0/1018	0.70	0/1383
2	mh	0.42	0/1018	0.70	0/1383
2	nh	0.42	0/1018	0.70	0/1383
2	oh	0.42	0/1018	0.70	0/1383
2	ph	0.42	0/1018	0.70	0/1383
2	qh	0.42	0/1018	0.70	0/1383
2	rh	0.42	0/1018	0.70	0/1383
2	sh	0.42	0/1018	0.70	0/1383
2	th	0.42	0/1018	0.70	0/1383
2	uh	0.42	0/1018	0.70	0/1383
2	vh	0.42	0/1018	0.70	0/1383
2	wh	0.42	0/1018	0.71	0/1383
2	xh	0.42	0/1018	0.70	0/1383
2	yh	0.42	0/1018	0.70	0/1383
2	zh	0.42	0/1018	0.70	0/1383

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	1l	0.33	0/796	0.64	0/1088
3	2l	0.33	0/796	0.64	0/1088
3	3l	0.33	0/796	0.64	0/1088
3	4l	0.33	0/796	0.64	0/1088
3	5l	0.33	0/796	0.64	0/1088
3	6l	0.33	0/796	0.64	0/1088
3	7l	0.33	0/796	0.64	0/1088
3	8l	0.33	0/796	0.64	0/1088
3	Al	0.33	0/796	0.64	0/1088
3	Bl	0.33	0/796	0.64	0/1088
3	Cl	0.33	0/796	0.64	0/1088
3	Dl	0.33	0/796	0.64	0/1088
3	El	0.33	0/796	0.64	0/1088
3	Fl	0.33	0/796	0.63	0/1088
3	Gl	0.33	0/796	0.64	0/1088
3	Hl	0.33	0/796	0.64	0/1088
3	Il	0.33	0/796	0.64	0/1088
3	Jl	0.33	0/796	0.64	0/1088
3	Kl	0.33	0/796	0.64	0/1088
3	Ll	0.33	0/796	0.64	0/1088
3	Ml	0.33	0/796	0.64	0/1088
3	Nl	0.33	0/796	0.64	0/1088
3	Ol	0.33	0/796	0.64	0/1088
3	Pl	0.33	0/796	0.64	0/1088
3	Ql	0.33	0/796	0.64	0/1088
3	Rl	0.33	0/796	0.64	0/1088
3	Sl	0.33	0/796	0.64	0/1088
3	Tl	0.33	0/796	0.64	0/1088
3	Ul	0.33	0/796	0.64	0/1088
3	Vl	0.33	0/796	0.64	0/1088
3	Wl	0.33	0/796	0.64	0/1088
3	Xl	0.33	0/796	0.64	0/1088
3	Yl	0.33	0/796	0.64	0/1088
3	Zl	0.33	0/796	0.64	0/1088
3	al	0.33	0/796	0.64	0/1088
3	bl	0.33	0/796	0.64	0/1088
3	cl	0.33	0/796	0.64	0/1088
3	dl	0.33	0/796	0.64	0/1088
3	el	0.33	0/796	0.64	0/1088
3	fl	0.33	0/796	0.64	0/1088
3	gl	0.33	0/796	0.64	0/1088
3	hl	0.33	0/796	0.64	0/1088
3	il	0.33	0/796	0.64	0/1088

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	jl	0.33	0/796	0.64	0/1088
3	kl	0.33	0/796	0.64	0/1088
3	ll	0.33	0/796	0.64	0/1088
3	ml	0.33	0/796	0.64	0/1088
3	nl	0.33	0/796	0.64	0/1088
3	ol	0.33	0/796	0.64	0/1088
3	pl	0.33	0/796	0.64	0/1088
3	ql	0.33	0/796	0.64	0/1088
3	rl	0.33	0/796	0.64	0/1088
3	sl	0.33	0/796	0.64	0/1088
3	tl	0.33	0/796	0.64	0/1088
3	ul	0.33	0/796	0.64	0/1088
3	vl	0.33	0/796	0.64	0/1088
3	wl	0.33	0/796	0.64	0/1088
3	xl	0.33	0/796	0.64	0/1088
3	yl	0.33	0/796	0.64	0/1088
3	zl	0.33	0/796	0.64	0/1088
All	All	0.65	60/364320 (0.0%)	0.76	240/496500 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	0	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 (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	706	LYS	C-N	-7.07	1.25	1.33
1	I	706	LYS	C-N	-7.07	1.25	1.33
1	Q	706	LYS	C-N	-7.07	1.25	1.33
1	o	706	LYS	C-N	-7.07	1.25	1.33
1	r	706	LYS	C-N	-7.07	1.25	1.33
1	E	706	LYS	C-N	-7.06	1.25	1.33
1	n	706	LYS	C-N	-7.06	1.25	1.33
1	Z	706	LYS	C-N	-7.06	1.25	1.33
1	q	706	LYS	C-N	-7.06	1.25	1.33
1	B	706	LYS	C-N	-7.06	1.25	1.33
1	J	706	LYS	C-N	-7.06	1.25	1.33
1	R	706	LYS	C-N	-7.06	1.25	1.33
1	S	706	LYS	C-N	-7.06	1.25	1.33
1	k	706	LYS	C-N	-7.06	1.25	1.33
1	l	706	LYS	C-N	-7.06	1.25	1.33
1	u	706	LYS	C-N	-7.06	1.25	1.33
1	v	706	LYS	C-N	-7.06	1.25	1.33
1	H	706	LYS	C-N	-7.03	1.25	1.33
1	N	706	LYS	C-N	-7.03	1.25	1.33
1	P	706	LYS	C-N	-7.03	1.25	1.33
1	Y	706	LYS	C-N	-7.03	1.25	1.33
1	c	706	LYS	C-N	-7.03	1.25	1.33
1	d	706	LYS	C-N	-7.03	1.25	1.33
1	y	706	LYS	C-N	-7.03	1.25	1.33
1	7	706	LYS	C-N	-7.03	1.25	1.33
1	A	706	LYS	C-N	-7.02	1.25	1.33
1	F	706	LYS	C-N	-7.02	1.25	1.33
1	1	706	LYS	C-N	-7.02	1.25	1.33
1	4	706	LYS	C-N	-7.02	1.25	1.33
1	6	706	LYS	C-N	-7.02	1.25	1.33
1	h	706	LYS	C-N	-7.02	1.25	1.33
1	p	706	LYS	C-N	-7.02	1.25	1.33
1	s	706	LYS	C-N	-7.02	1.25	1.33
1	C	706	LYS	C-N	-7.01	1.25	1.33
1	K	706	LYS	C-N	-7.01	1.25	1.33
1	T	706	LYS	C-N	-7.01	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	706	LYS	C-N	-7.01	1.25	1.33
1	3	706	LYS	C-N	-7.01	1.25	1.33
1	a	706	LYS	C-N	-7.01	1.25	1.33
1	g	706	LYS	C-N	-7.01	1.25	1.33
1	j	706	LYS	C-N	-7.01	1.25	1.33
1	x	706	LYS	C-N	-7.01	1.25	1.33
1	D	706	LYS	C-N	-6.99	1.25	1.33
1	W	706	LYS	C-N	-6.99	1.25	1.33
1	e	706	LYS	C-N	-6.99	1.25	1.33
1	z	706	LYS	C-N	-6.99	1.25	1.33
1	M	706	LYS	C-N	-6.98	1.25	1.33
1	O	706	LYS	C-N	-6.98	1.25	1.33
1	X	706	LYS	C-N	-6.98	1.25	1.33
1	b	706	LYS	C-N	-6.98	1.25	1.33
1	i	706	LYS	C-N	-6.98	1.25	1.33
1	8	706	LYS	C-N	-6.98	1.25	1.33
1	f	706	LYS	C-N	-6.98	1.25	1.33
1	2	706	LYS	C-N	-6.97	1.25	1.33
1	5	706	LYS	C-N	-6.97	1.25	1.33
1	w	706	LYS	C-N	-6.97	1.25	1.33
1	L	706	LYS	C-N	-6.95	1.25	1.33
1	U	706	LYS	C-N	-6.95	1.25	1.33
1	m	706	LYS	C-N	-6.95	1.25	1.33
1	t	706	LYS	C-N	-6.95	1.25	1.33

All (240) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	563	GLU	N-CA-C	6.03	117.93	111.36
1	Y	563	GLU	N-CA-C	6.03	117.93	111.36
1	c	563	GLU	N-CA-C	6.03	117.93	111.36
1	7	563	GLU	N-CA-C	6.03	117.93	111.36
1	B	563	GLU	N-CA-C	6.00	117.90	111.36
1	R	563	GLU	N-CA-C	6.00	117.90	111.36
1	k	563	GLU	N-CA-C	6.00	117.90	111.36
1	u	563	GLU	N-CA-C	6.00	117.90	111.36
1	l	563	GLU	N-CA-C	6.00	117.90	111.36
1	4	563	GLU	N-CA-C	6.00	117.90	111.36
1	h	563	GLU	N-CA-C	6.00	117.90	111.36
1	E	563	GLU	N-CA-C	6.00	117.90	111.36
1	G	563	GLU	N-CA-C	6.00	117.90	111.36
1	H	563	GLU	N-CA-C	6.00	117.90	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	563	GLU	N-CA-C	6.00	117.90	111.36
1	d	563	GLU	N-CA-C	6.00	117.90	111.36
1	n	563	GLU	N-CA-C	6.00	117.90	111.36
1	o	563	GLU	N-CA-C	6.00	117.89	111.36
1	q	563	GLU	N-CA-C	6.00	117.90	111.36
1	y	563	GLU	N-CA-C	6.00	117.90	111.36
1	K	563	GLU	N-CA-C	6.00	117.89	111.36
1	g	563	GLU	N-CA-C	6.00	117.89	111.36
1	x	563	GLU	N-CA-C	6.00	117.89	111.36
1	M	563	GLU	N-CA-C	5.98	117.88	111.36
1	X	563	GLU	N-CA-C	5.98	117.88	111.36
1	b	563	GLU	N-CA-C	5.98	117.88	111.36
1	i	563	GLU	N-CA-C	5.98	117.88	111.36
1	F	563	GLU	N-CA-C	5.98	117.88	111.36
1	J	563	GLU	N-CA-C	5.98	117.88	111.36
1	L	563	GLU	N-CA-C	5.98	117.88	111.36
1	S	563	GLU	N-CA-C	5.98	117.88	111.36
1	U	563	GLU	N-CA-C	5.98	117.88	111.36
1	l	563	GLU	N-CA-C	5.98	117.88	111.36
1	m	563	GLU	N-CA-C	5.98	117.88	111.36
1	t	563	GLU	N-CA-C	5.98	117.88	111.36
1	v	563	GLU	N-CA-C	5.98	117.88	111.36
1	s	563	GLU	N-CA-C	5.97	117.87	111.36
1	A	563	GLU	N-CA-C	5.97	117.87	111.36
1	2	563	GLU	N-CA-C	5.97	117.87	111.36
1	3	563	GLU	N-CA-C	5.97	117.87	111.36
1	5	563	GLU	N-CA-C	5.97	117.87	111.36
1	w	563	GLU	N-CA-C	5.97	117.87	111.36
1	I	563	GLU	N-CA-C	5.97	117.86	111.36
1	Q	563	GLU	N-CA-C	5.97	117.86	111.36
1	T	563	GLU	N-CA-C	5.97	117.86	111.36
1	r	563	GLU	N-CA-C	5.97	117.86	111.36
1	O	563	GLU	N-CA-C	5.96	117.85	111.36
1	8	563	GLU	N-CA-C	5.96	117.85	111.36
1	W	563	GLU	N-CA-C	5.95	117.85	111.36
1	p	563	GLU	N-CA-C	5.95	117.84	111.36
1	Z	563	GLU	N-CA-C	5.95	117.84	111.36
1	f	563	GLU	N-CA-C	5.95	117.84	111.36
1	C	563	GLU	N-CA-C	5.95	117.84	111.36
1	D	563	GLU	N-CA-C	5.95	117.84	111.36
1	V	563	GLU	N-CA-C	5.95	117.84	111.36
1	a	563	GLU	N-CA-C	5.95	117.84	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	563	GLU	N-CA-C	5.95	117.84	111.36
1	j	563	GLU	N-CA-C	5.95	117.84	111.36
1	z	563	GLU	N-CA-C	5.95	117.84	111.36
1	6	563	GLU	N-CA-C	5.94	117.83	111.36
1	T	729	ARG	N-CA-C	5.65	117.86	108.20
1	O	729	ARG	N-CA-C	5.65	117.86	108.20
1	f	729	ARG	N-CA-C	5.65	117.86	108.20
1	8	729	ARG	N-CA-C	5.65	117.86	108.20
1	2	729	ARG	N-CA-C	5.64	117.84	108.20
1	3	729	ARG	N-CA-C	5.64	117.84	108.20
1	5	729	ARG	N-CA-C	5.64	117.84	108.20
1	E	729	ARG	N-CA-C	5.63	117.83	108.20
1	G	729	ARG	N-CA-C	5.63	117.83	108.20
1	Z	729	ARG	N-CA-C	5.63	117.83	108.20
1	n	729	ARG	N-CA-C	5.63	117.83	108.20
1	q	729	ARG	N-CA-C	5.63	117.83	108.20
1	K	729	ARG	N-CA-C	5.63	117.83	108.20
1	g	729	ARG	N-CA-C	5.63	117.83	108.20
1	x	729	ARG	N-CA-C	5.63	117.83	108.20
1	D	729	ARG	N-CA-C	5.63	117.82	108.20
1	M	729	ARG	N-CA-C	5.63	117.83	108.20
1	W	729	ARG	N-CA-C	5.63	117.82	108.20
1	X	729	ARG	N-CA-C	5.63	117.83	108.20
1	b	729	ARG	N-CA-C	5.63	117.83	108.20
1	e	729	ARG	N-CA-C	5.63	117.82	108.20
1	i	729	ARG	N-CA-C	5.63	117.83	108.20
1	z	729	ARG	N-CA-C	5.63	117.82	108.20
1	6	729	ARG	N-CA-C	5.63	117.82	108.20
1	A	729	ARG	N-CA-C	5.62	117.82	108.20
1	H	729	ARG	N-CA-C	5.62	117.82	108.20
1	P	729	ARG	N-CA-C	5.62	117.82	108.20
1	l	729	ARG	N-CA-C	5.62	117.82	108.20
1	4	729	ARG	N-CA-C	5.62	117.82	108.20
1	d	729	ARG	N-CA-C	5.62	117.82	108.20
1	p	729	ARG	N-CA-C	5.62	117.82	108.20
1	s	729	ARG	N-CA-C	5.62	117.82	108.20
1	y	729	ARG	N-CA-C	5.62	117.82	108.20
1	C	729	ARG	N-CA-C	5.62	117.82	108.20
1	V	729	ARG	N-CA-C	5.62	117.82	108.20
1	a	729	ARG	N-CA-C	5.62	117.82	108.20
1	j	729	ARG	N-CA-C	5.62	117.82	108.20
1	N	729	ARG	N-CA-C	5.62	117.81	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	729	ARG	N-CA-C	5.62	117.81	108.20
1	c	729	ARG	N-CA-C	5.62	117.81	108.20
1	7	729	ARG	N-CA-C	5.62	117.81	108.20
1	F	729	ARG	N-CA-C	5.62	117.81	108.20
1	B	729	ARG	N-CA-C	5.62	117.81	108.20
1	L	729	ARG	N-CA-C	5.62	117.81	108.20
1	R	729	ARG	N-CA-C	5.62	117.81	108.20
1	U	729	ARG	N-CA-C	5.62	117.81	108.20
1	k	729	ARG	N-CA-C	5.62	117.81	108.20
1	m	729	ARG	N-CA-C	5.62	117.81	108.20
1	t	729	ARG	N-CA-C	5.62	117.81	108.20
1	u	729	ARG	N-CA-C	5.62	117.81	108.20
1	I	729	ARG	N-CA-C	5.61	117.80	108.20
1	Q	729	ARG	N-CA-C	5.61	117.80	108.20
1	o	729	ARG	N-CA-C	5.61	117.80	108.20
1	r	729	ARG	N-CA-C	5.61	117.80	108.20
1	J	729	ARG	N-CA-C	5.61	117.79	108.20
1	S	729	ARG	N-CA-C	5.61	117.79	108.20
1	l	729	ARG	N-CA-C	5.61	117.79	108.20
1	v	729	ARG	N-CA-C	5.61	117.79	108.20
1	h	729	ARG	N-CA-C	5.61	117.78	108.20
1	w	729	ARG	N-CA-C	5.59	117.76	108.20
1	B	564	GLU	N-CA-C	5.16	117.64	111.71
1	k	564	GLU	N-CA-C	5.16	117.64	111.71
1	u	564	GLU	N-CA-C	5.16	117.64	111.71
1	J	564	GLU	N-CA-C	5.16	117.64	111.71
1	S	564	GLU	N-CA-C	5.16	117.64	111.71
1	l	564	GLU	N-CA-C	5.16	117.64	111.71
1	v	564	GLU	N-CA-C	5.16	117.64	111.71
1	F	564	GLU	N-CA-C	5.15	117.64	111.71
1	C	564	GLU	N-CA-C	5.15	117.63	111.71
1	V	564	GLU	N-CA-C	5.15	117.63	111.71
1	a	564	GLU	N-CA-C	5.15	117.63	111.71
1	j	564	GLU	N-CA-C	5.15	117.63	111.71
1	R	564	GLU	N-CA-C	5.14	117.62	111.71
1	2	564	GLU	N-CA-C	5.14	117.62	111.71
1	3	564	GLU	N-CA-C	5.14	117.62	111.71
1	M	564	GLU	N-CA-C	5.14	117.62	111.71
1	X	564	GLU	N-CA-C	5.14	117.62	111.71
1	b	564	GLU	N-CA-C	5.14	117.62	111.71
1	i	564	GLU	N-CA-C	5.14	117.62	111.71
1	D	564	GLU	N-CA-C	5.13	117.61	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	564	GLU	N-CA-C	5.13	117.61	111.71
1	P	564	GLU	N-CA-C	5.13	117.61	111.71
1	W	564	GLU	N-CA-C	5.13	117.61	111.71
1	Y	564	GLU	N-CA-C	5.13	117.61	111.71
1	c	564	GLU	N-CA-C	5.13	117.61	111.71
1	e	564	GLU	N-CA-C	5.13	117.61	111.71
1	z	564	GLU	N-CA-C	5.13	117.61	111.71
1	7	564	GLU	N-CA-C	5.13	117.61	111.71
1	E	564	GLU	N-CA-C	5.12	117.60	111.71
1	G	564	GLU	N-CA-C	5.12	117.60	111.71
1	L	564	GLU	N-CA-C	5.12	117.60	111.71
1	m	564	GLU	N-CA-C	5.12	117.60	111.71
1	n	564	GLU	N-CA-C	5.12	117.60	111.71
1	q	564	GLU	N-CA-C	5.12	117.60	111.71
1	t	564	GLU	N-CA-C	5.12	117.60	111.71
1	w	564	GLU	N-CA-C	5.12	117.60	111.71
1	A	564	GLU	N-CA-C	5.12	117.60	111.71
1	T	564	GLU	N-CA-C	5.12	117.60	111.71
1	4	564	GLU	N-CA-C	5.12	117.60	111.71
1	5	564	GLU	N-CA-C	5.12	117.60	111.71
1	6	564	GLU	N-CA-C	5.12	117.60	111.71
1	h	564	GLU	N-CA-C	5.12	117.60	111.71
1	o	564	GLU	N-CA-C	5.12	117.60	111.71
1	p	564	GLU	N-CA-C	5.12	117.60	111.71
1	s	564	GLU	N-CA-C	5.12	117.60	111.71
1	U	564	GLU	N-CA-C	5.12	117.60	111.71
1	H	564	GLU	N-CA-C	5.11	117.59	111.71
1	d	564	GLU	N-CA-C	5.11	117.59	111.71
1	y	564	GLU	N-CA-C	5.11	117.59	111.71
1	I	564	GLU	N-CA-C	5.11	117.58	111.71
1	K	564	GLU	N-CA-C	5.11	117.58	111.71
1	Q	564	GLU	N-CA-C	5.11	117.58	111.71
1	l	564	GLU	N-CA-C	5.11	117.58	111.71
1	g	564	GLU	N-CA-C	5.11	117.58	111.71
1	r	564	GLU	N-CA-C	5.11	117.58	111.71
1	x	564	GLU	N-CA-C	5.11	117.58	111.71
1	O	564	GLU	N-CA-C	5.10	117.58	111.71
1	f	564	GLU	N-CA-C	5.10	117.58	111.71
1	8	564	GLU	N-CA-C	5.10	117.58	111.71
1	Z	564	GLU	N-CA-C	5.07	117.54	111.71
1	O	311	LEU	N-CA-C	5.06	117.08	109.23
1	8	311	LEU	N-CA-C	5.06	117.08	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	311	LEU	N-CA-C	5.05	117.06	109.23
1	I	311	LEU	N-CA-C	5.05	117.05	109.23
1	K	311	LEU	N-CA-C	5.05	117.05	109.23
1	Q	311	LEU	N-CA-C	5.05	117.05	109.23
1	Z	311	LEU	N-CA-C	5.05	117.05	109.23
1	g	311	LEU	N-CA-C	5.05	117.05	109.23
1	o	311	LEU	N-CA-C	5.05	117.05	109.23
1	r	311	LEU	N-CA-C	5.05	117.05	109.23
1	x	311	LEU	N-CA-C	5.05	117.05	109.23
1	D	311	LEU	N-CA-C	5.04	117.05	109.23
1	W	311	LEU	N-CA-C	5.04	117.05	109.23
1	e	311	LEU	N-CA-C	5.04	117.05	109.23
1	z	311	LEU	N-CA-C	5.04	117.05	109.23
1	G	311	LEU	N-CA-C	5.04	117.04	109.23
1	A	311	LEU	N-CA-C	5.04	117.04	109.23
1	1	311	LEU	N-CA-C	5.04	117.04	109.23
1	2	311	LEU	N-CA-C	5.04	117.04	109.23
1	3	311	LEU	N-CA-C	5.04	117.04	109.23
1	4	311	LEU	N-CA-C	5.04	117.04	109.23
1	5	311	LEU	N-CA-C	5.04	117.04	109.23
1	6	311	LEU	N-CA-C	5.04	117.04	109.23
1	h	311	LEU	N-CA-C	5.04	117.04	109.23
1	w	311	LEU	N-CA-C	5.04	117.04	109.23
1	B	311	LEU	N-CA-C	5.04	117.03	109.23
1	E	311	LEU	N-CA-C	5.04	117.03	109.23
1	R	311	LEU	N-CA-C	5.04	117.03	109.23
1	k	311	LEU	N-CA-C	5.04	117.03	109.23
1	n	311	LEU	N-CA-C	5.04	117.03	109.23
1	p	311	LEU	N-CA-C	5.04	117.04	109.23
1	q	311	LEU	N-CA-C	5.04	117.03	109.23
1	s	311	LEU	N-CA-C	5.04	117.04	109.23
1	u	311	LEU	N-CA-C	5.04	117.03	109.23
1	M	311	LEU	N-CA-C	5.03	117.03	109.23
1	X	311	LEU	N-CA-C	5.03	117.03	109.23
1	b	311	LEU	N-CA-C	5.03	117.03	109.23
1	i	311	LEU	N-CA-C	5.03	117.03	109.23
1	J	311	LEU	N-CA-C	5.03	117.02	109.23
1	S	311	LEU	N-CA-C	5.03	117.02	109.23
1	l	311	LEU	N-CA-C	5.03	117.02	109.23
1	v	311	LEU	N-CA-C	5.03	117.02	109.23
1	L	311	LEU	N-CA-C	5.02	117.02	109.23
1	U	311	LEU	N-CA-C	5.02	117.02	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	311	LEU	N-CA-C	5.02	117.02	109.23
1	m	311	LEU	N-CA-C	5.02	117.02	109.23
1	t	311	LEU	N-CA-C	5.02	117.02	109.23
1	N	311	LEU	N-CA-C	5.01	117.00	109.23
1	Y	311	LEU	N-CA-C	5.01	117.00	109.23
1	c	311	LEU	N-CA-C	5.01	117.00	109.23
1	f	311	LEU	N-CA-C	5.01	117.00	109.23
1	7	311	LEU	N-CA-C	5.01	117.00	109.23
1	C	311	LEU	N-CA-C	5.01	117.00	109.23
1	H	311	LEU	N-CA-C	5.01	117.00	109.23
1	P	311	LEU	N-CA-C	5.01	117.00	109.23
1	V	311	LEU	N-CA-C	5.01	117.00	109.23
1	a	311	LEU	N-CA-C	5.01	117.00	109.23
1	d	311	LEU	N-CA-C	5.01	117.00	109.23
1	y	311	LEU	N-CA-C	5.01	117.00	109.23
1	T	311	LEU	N-CA-C	5.00	116.99	109.23

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
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

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Mol	Chain	Res	Type	Group
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
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

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	50	0
1	2	4135	0	3892	47	0
1	3	4135	0	3892	46	0
1	4	4135	0	3892	47	0
1	5	4135	0	3892	47	0
1	6	4135	0	3892	48	0
1	7	4135	0	3892	47	0
1	8	4135	0	3892	50	0
1	A	4135	0	3892	49	0
1	B	4135	0	3892	48	0
1	C	4135	0	3892	47	0
1	D	4135	0	3892	47	0
1	E	4135	0	3892	49	0
1	F	4135	0	3892	48	0
1	G	4135	0	3892	48	0
1	H	4135	0	3892	46	0
1	I	4135	0	3892	48	0
1	J	4135	0	3892	47	0
1	K	4135	0	3892	46	0
1	L	4135	0	3892	48	0
1	M	4135	0	3892	49	0
1	N	4135	0	3892	47	0
1	O	4135	0	3892	48	0
1	P	4135	0	3892	46	0
1	Q	4135	0	3892	47	0
1	R	4135	0	3892	49	0
1	S	4135	0	3892	47	0
1	T	4135	0	3892	48	0
1	U	4135	0	3892	48	0
1	V	4135	0	3892	47	0
1	W	4135	0	3892	49	0
1	X	4135	0	3892	46	0
1	Y	4135	0	3892	47	0
1	Z	4135	0	3892	49	0
1	a	4135	0	3892	46	0
1	b	4135	0	3892	49	0
1	c	4135	0	3892	47	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	d	4135	0	3892	46	0
1	e	4135	0	3892	47	0
1	f	4135	0	3892	48	0
1	g	4135	0	3892	47	0
1	h	4135	0	3892	46	0
1	i	4135	0	3892	45	0
1	j	4135	0	3892	47	0
1	k	4135	0	3892	48	0
1	l	4135	0	3892	47	0
1	m	4135	0	3892	48	0
1	n	4135	0	3892	48	0
1	o	4135	0	3892	48	0
1	p	4135	0	3892	49	0
1	q	4135	0	3892	47	0
1	r	4135	0	3892	47	0
1	s	4135	0	3892	48	0
1	t	4135	0	3892	49	0
1	u	4135	0	3892	48	0
1	v	4135	0	3892	47	0
1	w	4135	0	3892	46	0
1	x	4135	0	3892	46	0
1	y	4135	0	3892	45	0
1	z	4135	0	3892	50	0
2	1h	989	0	930	72	0
2	2h	989	0	930	72	0
2	3h	989	0	930	71	0
2	4h	989	0	930	73	0
2	5h	989	0	930	71	0
2	6h	989	0	930	72	0
2	7h	989	0	930	72	0
2	8h	989	0	930	73	0
2	Ah	989	0	930	72	0
2	Bh	989	0	930	70	0
2	Ch	989	0	930	69	0
2	Dh	989	0	930	69	0
2	Eh	989	0	930	74	0
2	Fh	989	0	930	72	0
2	Gh	989	0	930	71	0
2	Hh	989	0	930	71	0
2	Ih	989	0	930	72	0
2	Jh	989	0	930	71	0
2	Kh	989	0	930	72	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Lh	989	0	930	71	0
2	Mh	989	0	930	69	0
2	Nh	989	0	930	70	0
2	Oh	989	0	930	70	0
2	Ph	989	0	930	72	0
2	Qh	989	0	930	70	0
2	Rh	989	0	930	72	0
2	Sh	989	0	930	73	0
2	Th	989	0	930	71	0
2	Uh	989	0	930	71	0
2	Vh	989	0	930	73	0
2	Wh	989	0	930	72	0
2	Xh	989	0	930	70	0
2	Yh	989	0	930	72	0
2	Zh	989	0	930	72	0
2	ah	989	0	930	69	0
2	bh	989	0	930	70	0
2	ch	989	0	930	70	0
2	dh	989	0	930	72	0
2	eh	989	0	930	69	0
2	fh	989	0	930	70	0
2	gh	989	0	930	71	0
2	hh	989	0	930	73	0
2	ih	989	0	930	70	0
2	jh	989	0	930	73	0
2	kh	989	0	930	72	0
2	lh	989	0	930	73	0
2	mh	989	0	930	71	0
2	nh	989	0	930	71	0
2	oh	989	0	930	71	0
2	ph	989	0	930	71	0
2	qh	989	0	930	73	0
2	rh	989	0	930	69	0
2	sh	989	0	930	72	0
2	th	989	0	930	73	0
2	uh	989	0	930	71	0
2	vh	989	0	930	71	0
2	wh	989	0	930	71	0
2	xh	989	0	930	73	0
2	yh	989	0	930	71	0
2	zh	989	0	930	73	0
3	1l	778	0	730	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	2l	778	0	730	38	0
3	3l	778	0	730	35	0
3	4l	778	0	730	36	0
3	5l	778	0	730	35	0
3	6l	778	0	730	37	0
3	7l	778	0	730	36	0
3	8l	778	0	730	37	0
3	Al	778	0	730	36	0
3	Bl	778	0	730	35	0
3	Cl	778	0	730	35	0
3	Dl	778	0	730	35	0
3	El	778	0	730	35	0
3	Fl	778	0	730	37	0
3	Gl	778	0	730	37	0
3	Hl	778	0	730	36	0
3	Il	778	0	730	38	0
3	Jl	778	0	730	35	0
3	Kl	778	0	730	35	0
3	Ll	778	0	730	36	0
3	Ml	778	0	730	35	0
3	Nl	778	0	730	36	0
3	Ol	778	0	730	36	0
3	Pl	778	0	730	35	0
3	Ql	778	0	730	36	0
3	Rl	778	0	730	36	0
3	Sl	778	0	730	35	0
3	Tl	778	0	730	35	0
3	Ul	778	0	730	37	0
3	Vl	778	0	730	37	0
3	Wl	778	0	730	36	0
3	Xl	778	0	730	35	0
3	Yl	778	0	730	36	0
3	Zl	778	0	730	38	0
3	al	778	0	730	35	0
3	bl	778	0	730	35	0
3	cl	778	0	730	36	0
3	dl	778	0	730	35	0
3	el	778	0	730	36	0
3	fl	778	0	730	36	0
3	gl	778	0	730	35	0
3	hl	778	0	730	37	0
3	il	778	0	730	35	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	jl	778	0	730	36	0
3	kl	778	0	730	35	0
3	ll	778	0	730	35	0
3	ml	778	0	730	37	0
3	nl	778	0	730	36	0
3	ol	778	0	730	37	0
3	pl	778	0	730	36	0
3	ql	778	0	730	35	0
3	rl	778	0	730	36	0
3	sl	778	0	730	37	0
3	tl	778	0	730	36	0
3	ul	778	0	730	35	0
3	vl	778	0	730	35	0
3	wl	778	0	730	37	0
3	xl	778	0	730	35	0
3	yl	778	0	730	36	0
3	zl	778	0	730	37	0
All	All	354120	0	333120	8578	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 12.

All (8578) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:6h:63:GLY:HA2	3:6l:108:TYR:OH	1.50	1.11
2:5h:63:GLY:HA2	3:5l:108:TYR:OH	1.50	1.10
2:2h:63:GLY:HA2	3:2l:108:TYR:OH	1.50	1.10
2:3h:63:GLY:HA2	3:3l:108:TYR:OH	1.50	1.10
2:Fh:63:GLY:HA2	3:Fl:108:TYR:OH	1.52	1.09
2:Bh:63:GLY:HA2	3:Bl:108:TYR:OH	1.54	1.08
2:uh:63:GLY:HA2	3:ul:108:TYR:OH	1.54	1.08
2:Ih:63:GLY:HA2	3:Il:108:TYR:OH	1.54	1.08
2:oh:63:GLY:HA2	3:ol:108:TYR:OH	1.54	1.08
2:Mh:63:GLY:HA2	3:Ml:108:TYR:OH	1.54	1.07
2:sh:63:GLY:HA2	3:sl:108:TYR:OH	1.53	1.07
2:Qh:63:GLY:HA2	3:Ql:108:TYR:OH	1.54	1.07
2:Yh:63:GLY:HA2	3:Yl:108:TYR:OH	1.54	1.07
2:bh:63:GLY:HA2	3:bl:108:TYR:OH	1.55	1.07
2:Dh:63:GLY:HA2	3:Dl:108:TYR:OH	1.55	1.07
2:Hh:63:GLY:HA2	3:Hl:108:TYR:OH	1.55	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zh:63:GLY:HA2	3:Zl:108:TYR:OH	1.55	1.07
2:dh:63:GLY:HA2	3:dl:108:TYR:OH	1.55	1.07
2:rh:63:GLY:HA2	3:rl:108:TYR:OH	1.54	1.07
2:vh:63:GLY:HA2	3:vl:108:TYR:OH	1.54	1.07
2:yh:63:GLY:HA2	3:yl:108:TYR:OH	1.55	1.07
2:7h:63:GLY:HA2	3:7l:108:TYR:OH	1.54	1.07
2:8h:63:GLY:HA2	3:8l:108:TYR:OH	1.55	1.07
2:Ph:63:GLY:HA2	3:Pl:108:TYR:OH	1.55	1.07
2:1h:63:GLY:HA2	3:1l:108:TYR:OH	1.54	1.07
2:Jh:63:GLY:HA2	3:Jl:108:TYR:OH	1.54	1.06
2:Sh:63:GLY:HA2	3:Sl:108:TYR:OH	1.54	1.06
2:ah:63:GLY:HA2	3:al:108:TYR:OH	1.54	1.06
2:eh:63:GLY:HA2	3:el:108:TYR:OH	1.55	1.06
2:ph:63:GLY:HA2	3:pl:108:TYR:OH	1.54	1.06
2:wh:63:GLY:HA2	3:wl:108:TYR:OH	1.54	1.06
2:Ch:63:GLY:HA2	3:Cl:108:TYR:OH	1.54	1.06
2:Oh:63:GLY:HA2	3:Ol:108:TYR:OH	1.55	1.06
2:Uh:63:GLY:HA2	3:Ul:108:TYR:OH	1.54	1.06
2:fh:63:GLY:HA2	3:fl:108:TYR:OH	1.55	1.06
2:lh:63:GLY:HA2	3:ll:108:TYR:OH	1.54	1.06
2:mh:63:GLY:HA2	3:ml:108:TYR:OH	1.54	1.06
2:Lh:63:GLY:HA2	3:Ll:108:TYR:OH	1.54	1.06
2:Xh:63:GLY:HA2	3:Xl:108:TYR:OH	1.55	1.06
2:kh:63:GLY:HA2	3:kl:108:TYR:OH	1.54	1.06
2:Nh:63:GLY:HA2	3:Nl:108:TYR:OH	1.54	1.06
2:Rh:63:GLY:HA2	3:Rl:108:TYR:OH	1.54	1.06
2:Th:63:GLY:HA2	3:Tl:108:TYR:OH	1.54	1.06
2:4h:63:GLY:HA2	3:4l:108:TYR:OH	1.54	1.06
2:ch:63:GLY:HA2	3:cl:108:TYR:OH	1.54	1.06
2:ih:63:GLY:HA2	3:il:108:TYR:OH	1.54	1.06
2:gh:63:GLY:HA2	3:gl:108:TYR:OH	1.54	1.05
2:th:63:GLY:HA2	3:tl:108:TYR:OH	1.54	1.05
2:Kh:63:GLY:HA2	3:Kl:108:TYR:OH	1.54	1.05
2:Vh:63:GLY:HA2	3:Vl:108:TYR:OH	1.54	1.05
2:jh:63:GLY:HA2	3:jl:108:TYR:OH	1.54	1.05
2:qh:63:GLY:HA2	3:ql:108:TYR:OH	1.54	1.05
2:Eh:63:GLY:HA2	3:El:108:TYR:OH	1.54	1.05
2:xh:63:GLY:HA2	3:xl:108:TYR:OH	1.54	1.05
2:Wh:63:GLY:HA2	3:Wl:108:TYR:OH	1.55	1.04
2:nh:63:GLY:HA2	3:nl:108:TYR:OH	1.54	1.04
2:Gh:63:GLY:HA2	3:Gl:108:TYR:OH	1.54	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:zh:63:GLY:HA2	3:zl:108:TYR:OH	1.55	1.04
2:hh:63:GLY:HA2	3:hl:108:TYR:OH	1.58	1.03
2:Eh:77:LYS:HD3	2:Eh:89:ILE:CG1	1.89	1.03
2:Uh:77:LYS:HD3	2:Uh:89:ILE:CG1	1.89	1.03
2:qh:77:LYS:HD3	2:qh:89:ILE:CG1	1.89	1.03
2:Fh:77:LYS:HD3	2:Fh:89:ILE:CG1	1.89	1.03
2:Qh:77:LYS:HD3	2:Qh:89:ILE:CG1	1.89	1.03
2:mh:77:LYS:HD3	2:mh:89:ILE:CG1	1.89	1.03
2:rh:77:LYS:HD3	2:rh:89:ILE:CG1	1.89	1.03
2:sh:77:LYS:HD3	2:sh:89:ILE:CG1	1.89	1.03
2:Dh:77:LYS:HD3	2:Dh:89:ILE:CG1	1.89	1.02
2:Mh:77:LYS:HD3	2:Mh:89:ILE:CG1	1.89	1.02
2:Oh:77:LYS:HD3	2:Oh:89:ILE:CG1	1.89	1.02
2:bh:77:LYS:HD3	2:bh:89:ILE:CG1	1.89	1.02
2:eh:77:LYS:HD3	2:eh:89:ILE:CG1	1.89	1.02
2:Ah:63:GLY:HA2	3:Al:108:TYR:OH	1.59	1.02
2:Lh:77:LYS:HD3	2:Lh:89:ILE:CG1	1.89	1.02
2:Yh:77:LYS:HD3	2:Yh:89:ILE:CG1	1.89	1.02
2:fh:77:LYS:HD3	2:fh:89:ILE:CG1	1.89	1.02
2:7h:77:LYS:HD3	2:7h:89:ILE:CG1	1.89	1.02
2:Ah:77:LYS:HD3	2:Ah:89:ILE:CG1	1.89	1.02
2:Jh:77:LYS:HD3	2:Jh:89:ILE:CG1	1.89	1.02
2:Nh:77:LYS:HD3	2:Nh:89:ILE:CG1	1.89	1.02
2:ch:77:LYS:HD3	2:ch:89:ILE:CG1	1.89	1.02
2:kh:77:LYS:HD3	2:kh:89:ILE:CG1	1.89	1.02
2:ph:77:LYS:HD3	2:ph:89:ILE:CG1	1.89	1.02
2:th:77:LYS:HD3	2:th:89:ILE:CG1	1.89	1.02
2:vh:77:LYS:HD3	2:vh:89:ILE:CG1	1.89	1.02
2:Rh:77:LYS:HD3	2:Rh:89:ILE:CG1	1.89	1.02
2:gh:77:LYS:HD3	2:gh:89:ILE:CG1	1.89	1.02
2:Ih:77:LYS:HD3	2:Ih:89:ILE:CG1	1.89	1.02
2:Th:77:LYS:HD3	2:Th:89:ILE:CG1	1.89	1.02
2:Zh:77:LYS:HD3	2:Zh:89:ILE:CG1	1.89	1.02
2:5h:77:LYS:HD3	2:5h:89:ILE:CG1	1.89	1.02
2:dh:77:LYS:HD3	2:dh:89:ILE:CG1	1.89	1.02
2:oh:77:LYS:HD3	2:oh:89:ILE:CG1	1.89	1.02
2:xh:77:LYS:HD3	2:xh:89:ILE:CG1	1.89	1.02
2:8h:77:LYS:HD3	2:8h:89:ILE:CG1	1.89	1.02
2:Kh:77:LYS:HD3	2:Kh:89:ILE:CG1	1.89	1.01
2:Ph:77:LYS:HD3	2:Ph:89:ILE:CG1	1.89	1.01
2:Sh:77:LYS:HD3	2:Sh:89:ILE:CG1	1.89	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1h:77:LYS:HD3	2:1h:89:ILE:CG1	1.89	1.01
2:3h:77:LYS:HD3	2:3h:89:ILE:CG1	1.89	1.01
2:lh:77:LYS:HD3	2:lh:89:ILE:CG1	1.89	1.01
2:wh:77:LYS:HD3	2:wh:89:ILE:CG1	1.89	1.01
2:Xh:77:LYS:HD3	2:Xh:89:ILE:CG1	1.89	1.01
2:Bh:77:LYS:HD3	2:Bh:89:ILE:CG1	1.89	1.01
2:ih:77:LYS:HD3	2:ih:89:ILE:CG1	1.89	1.01
2:uh:77:LYS:HD3	2:uh:89:ILE:CG1	1.89	1.01
2:jh:77:LYS:HD3	2:jh:89:ILE:CG1	1.89	1.01
2:Hh:77:LYS:HD3	2:Hh:89:ILE:CG1	1.89	1.00
2:Vh:77:LYS:HD3	2:Vh:89:ILE:CG1	1.89	1.00
2:4h:77:LYS:HD3	2:4h:89:ILE:CG1	1.89	1.00
2:hh:77:LYS:HD3	2:hh:89:ILE:CG1	1.89	1.00
2:zh:77:LYS:HD3	2:zh:89:ILE:CG1	1.89	1.00
2:Wh:77:LYS:HD3	2:Wh:89:ILE:CG1	1.89	1.00
2:2h:77:LYS:HD3	2:2h:89:ILE:CG1	1.89	1.00
2:6h:77:LYS:HD3	2:6h:89:ILE:CG1	1.89	1.00
2:yh:77:LYS:HD3	2:yh:89:ILE:CG1	1.89	1.00
2:Ch:77:LYS:HD3	2:Ch:89:ILE:CG1	1.89	1.00
2:nh:77:LYS:HD3	2:nh:89:ILE:CG1	1.89	1.00
2:ah:77:LYS:HD3	2:ah:89:ILE:CG1	1.89	1.00
2:Gh:77:LYS:HD3	2:Gh:89:ILE:CG1	1.89	1.00
2:mh:77:LYS:HD3	2:mh:89:ILE:HG13	1.00	1.00
2:Uh:77:LYS:HD3	2:Uh:89:ILE:HG13	1.00	1.00
2:3h:77:LYS:HD3	2:3h:89:ILE:HG13	1.00	1.00
2:5h:77:LYS:HD3	2:5h:89:ILE:HG13	1.00	1.00
2:Qh:77:LYS:HD3	2:Qh:89:ILE:HG13	1.00	0.99
2:Wh:77:LYS:HD3	2:Wh:89:ILE:HG13	1.00	0.99
2:rh:77:LYS:HD3	2:rh:89:ILE:HG13	1.00	0.99
2:zh:77:LYS:HD3	2:zh:89:ILE:HG13	1.00	0.99
2:7h:77:LYS:HD3	2:7h:89:ILE:HG13	1.00	0.99
2:Yh:77:LYS:HD3	2:Yh:89:ILE:HG13	1.00	0.99
2:hh:77:LYS:HD3	2:hh:89:ILE:HG13	1.00	0.99
2:ph:77:LYS:HD3	2:ph:89:ILE:HG13	1.00	0.99
2:Ah:77:LYS:HD3	2:Ah:89:ILE:HG13	1.00	0.99
2:Kh:77:LYS:HD3	2:Kh:89:ILE:HG13	1.00	0.99
2:4h:77:LYS:HD3	2:4h:89:ILE:HG13	1.00	0.99
2:lh:77:LYS:HD3	2:lh:89:ILE:HG13	1.00	0.99
2:Nh:77:LYS:HD3	2:Nh:89:ILE:HG13	1.00	0.99
2:Sh:77:LYS:HD3	2:Sh:89:ILE:HG13	1.00	0.99
2:ch:77:LYS:HD3	2:ch:89:ILE:HG13	1.00	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gh:77:LYS:HD3	2:Gh:89:ILE:HG13	1.00	0.99
2:Xh:77:LYS:HD3	2:Xh:89:ILE:HG13	1.00	0.99
1:K:423:SER:HB2	1:K:728:THR:HG22	1.45	0.98
1:1:423:SER:HB2	1:1:728:THR:HG22	1.45	0.98
1:w:423:SER:HB2	1:w:728:THR:HG22	1.45	0.98
1:x:423:SER:HB2	1:x:728:THR:HG22	1.45	0.98
2:nh:77:LYS:HD3	2:nh:89:ILE:HG13	1.00	0.98
2:sh:77:LYS:HD3	2:sh:89:ILE:HG13	1.00	0.98
2:xh:77:LYS:HD3	2:xh:89:ILE:HG13	1.00	0.98
1:W:423:SER:HB2	1:W:728:THR:HG22	1.45	0.98
2:ih:77:LYS:HD3	2:ih:89:ILE:HG13	1.00	0.98
1:z:423:SER:HB2	1:z:728:THR:HG22	1.45	0.98
2:Eh:77:LYS:HD3	2:Eh:89:ILE:HG13	1.00	0.98
2:Rh:77:LYS:HD3	2:Rh:89:ILE:HG13	1.00	0.98
2:ah:77:LYS:HD3	2:ah:89:ILE:HG13	1.00	0.98
2:kh:77:LYS:HD3	2:kh:89:ILE:HG13	1.00	0.98
2:8h:77:LYS:HD3	2:8h:89:ILE:HG13	1.00	0.98
1:B:423:SER:HB2	1:B:728:THR:HG22	1.45	0.98
1:a:423:SER:HB2	1:a:728:THR:HG22	1.45	0.98
2:Fh:77:LYS:HD3	2:Fh:89:ILE:HG13	1.00	0.98
2:6h:77:LYS:HD3	2:6h:89:ILE:HG13	1.00	0.98
1:C:423:SER:HB2	1:C:728:THR:HG22	1.45	0.98
1:u:423:SER:HB2	1:u:728:THR:HG22	1.45	0.98
2:Ch:77:LYS:HD3	2:Ch:89:ILE:HG13	1.00	0.98
2:Ih:77:LYS:HD3	2:Ih:89:ILE:HG13	1.00	0.98
2:Th:77:LYS:HD3	2:Th:89:ILE:HG13	1.00	0.98
2:Zh:77:LYS:HD3	2:Zh:89:ILE:HG13	1.00	0.98
2:oh:77:LYS:HD3	2:oh:89:ILE:HG13	1.00	0.98
2:qh:77:LYS:HD3	2:qh:89:ILE:HG13	1.00	0.98
1:P:423:SER:HB2	1:P:728:THR:HG22	1.45	0.98
1:T:423:SER:HB2	1:T:728:THR:HG22	1.45	0.98
1:Y:423:SER:HB2	1:Y:728:THR:HG22	1.45	0.98
1:7:423:SER:HB2	1:7:728:THR:HG22	1.45	0.98
2:2h:77:LYS:HD3	2:2h:89:ILE:HG13	1.00	0.98
2:gh:77:LYS:HD3	2:gh:89:ILE:HG13	1.00	0.98
2:th:77:LYS:HD3	2:th:89:ILE:HG13	1.00	0.98
1:5:423:SER:HB2	1:5:728:THR:HG22	1.45	0.98
1:2:423:SER:HB2	1:2:728:THR:HG22	1.45	0.98
1:6:423:SER:HB2	1:6:728:THR:HG22	1.45	0.98
1:d:423:SER:HB2	1:d:728:THR:HG22	1.45	0.98
1:g:423:SER:HB2	1:g:728:THR:HG22	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:423:SER:HB2	1:r:728:THR:HG22	1.45	0.98
2:Lh:77:LYS:HD3	2:Lh:89:ILE:HG13	1.00	0.98
1:3:423:SER:HB2	1:3:728:THR:HG22	1.45	0.98
2:Fh:77:LYS:CD	2:Fh:89:ILE:HG13	1.94	0.98
2:Lh:77:LYS:CD	2:Lh:89:ILE:HG13	1.94	0.98
2:fh:77:LYS:HD3	2:fh:89:ILE:HG13	1.00	0.98
2:vh:77:LYS:HD3	2:vh:89:ILE:HG13	1.00	0.98
2:Jh:77:LYS:HD3	2:Jh:89:ILE:HG13	1.00	0.98
2:bh:77:LYS:CD	2:bh:89:ILE:HG13	1.94	0.98
2:sh:77:LYS:CD	2:sh:89:ILE:HG13	1.94	0.98
2:th:77:LYS:CD	2:th:89:ILE:HG13	1.94	0.98
1:Q:423:SER:HB2	1:Q:728:THR:HG22	1.45	0.97
2:Dh:77:LYS:HD3	2:Dh:89:ILE:HG13	1.00	0.97
2:Mh:77:LYS:CD	2:Mh:89:ILE:HG13	1.94	0.97
2:Ph:77:LYS:CD	2:Ph:89:ILE:HG13	1.94	0.97
2:dh:77:LYS:CD	2:dh:89:ILE:HG13	1.94	0.97
2:eh:77:LYS:HD3	2:eh:89:ILE:HG13	1.00	0.97
2:eh:77:LYS:CD	2:eh:89:ILE:HG13	1.94	0.97
2:Dh:77:LYS:CD	2:Dh:89:ILE:HG13	1.94	0.97
2:Uh:77:LYS:CD	2:Uh:89:ILE:HG13	1.94	0.97
2:wh:77:LYS:HD3	2:wh:89:ILE:HG13	1.00	0.97
2:1h:77:LYS:HD3	2:1h:89:ILE:HG13	1.00	0.97
2:3h:77:LYS:CD	2:3h:89:ILE:HG13	1.94	0.97
2:5h:77:LYS:CD	2:5h:89:ILE:HG13	1.94	0.97
2:mh:77:LYS:CD	2:mh:89:ILE:HG13	1.94	0.97
2:Oh:77:LYS:HD3	2:Oh:89:ILE:HG13	1.00	0.97
1:R:423:SER:HB2	1:R:728:THR:HG22	1.45	0.97
1:t:423:SER:HB2	1:t:728:THR:HG22	1.45	0.97
2:jh:77:LYS:HD3	2:jh:89:ILE:HG13	1.00	0.97
2:ph:77:LYS:CD	2:ph:89:ILE:HG13	1.94	0.97
2:xh:77:LYS:CD	2:xh:89:ILE:HG13	1.94	0.97
1:l:423:SER:HB2	1:l:728:THR:HG22	1.45	0.97
2:Kh:77:LYS:CD	2:Kh:89:ILE:HG13	1.94	0.97
2:Mh:77:LYS:HD3	2:Mh:89:ILE:HG13	1.00	0.97
2:Vh:77:LYS:HD3	2:Vh:89:ILE:HG13	1.00	0.97
1:D:423:SER:HB2	1:D:728:THR:HG22	1.45	0.97
1:k:423:SER:HB2	1:k:728:THR:HG22	1.45	0.97
2:Ah:77:LYS:CD	2:Ah:89:ILE:HG13	1.94	0.97
2:Bh:77:LYS:HD3	2:Bh:89:ILE:HG13	1.00	0.97
2:Hh:77:LYS:HD3	2:Hh:89:ILE:HG13	1.00	0.97
2:Nh:77:LYS:CD	2:Nh:89:ILE:HG13	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bh:77:LYS:HD3	2:bh:89:ILE:HG13	1.00	0.97
2:uh:77:LYS:HD3	2:uh:89:ILE:HG13	1.00	0.97
1:L:423:SER:HB2	1:L:728:THR:HG22	1.45	0.97
1:S:423:SER:HB2	1:S:728:THR:HG22	1.45	0.97
1:4:423:SER:HB2	1:4:728:THR:HG22	1.45	0.97
1:e:423:SER:HB2	1:e:728:THR:HG22	1.45	0.97
1:h:423:SER:HB2	1:h:728:THR:HG22	1.45	0.97
2:ch:77:LYS:CD	2:ch:89:ILE:HG13	1.94	0.97
2:oh:77:LYS:CD	2:oh:89:ILE:HG13	1.94	0.97
2:rh:77:LYS:CD	2:rh:89:ILE:HG13	1.94	0.97
1:A:423:SER:HB2	1:A:728:THR:HG22	1.45	0.97
1:c:423:SER:HB2	1:c:728:THR:HG22	1.45	0.97
2:yh:77:LYS:HD3	2:yh:89:ILE:HG13	1.00	0.97
1:V:423:SER:HB2	1:V:728:THR:HG22	1.45	0.96
1:i:423:SER:HB2	1:i:728:THR:HG22	1.45	0.96
1:p:423:SER:HB2	1:p:728:THR:HG22	1.45	0.96
2:Ih:77:LYS:CD	2:Ih:89:ILE:HG13	1.94	0.96
1:N:423:SER:HB2	1:N:728:THR:HG22	1.45	0.96
2:Ph:77:LYS:HD3	2:Ph:89:ILE:HG13	1.00	0.96
2:wh:77:LYS:CD	2:wh:89:ILE:HG13	1.94	0.96
1:j:423:SER:HB2	1:j:728:THR:HG22	1.45	0.96
2:Hh:77:LYS:CD	2:Hh:89:ILE:HG13	1.94	0.96
2:4h:77:LYS:CD	2:4h:89:ILE:HG13	1.94	0.96
2:hh:77:LYS:CD	2:hh:89:ILE:HG13	1.94	0.96
2:qh:77:LYS:CD	2:qh:89:ILE:HG13	1.94	0.96
2:1h:77:LYS:CD	2:1h:89:ILE:HG13	1.94	0.96
1:X:423:SER:HB2	1:X:728:THR:HG22	1.45	0.96
1:Z:423:SER:HB2	1:Z:728:THR:HG22	1.45	0.96
2:Bh:77:LYS:CD	2:Bh:89:ILE:HG13	1.94	0.96
2:Eh:77:LYS:CD	2:Eh:89:ILE:HG13	1.94	0.96
2:dh:77:LYS:HD3	2:dh:89:ILE:HG13	1.00	0.96
2:yh:77:LYS:CD	2:yh:89:ILE:HG13	1.94	0.96
1:F:423:SER:HB2	1:F:728:THR:HG22	1.45	0.96
1:s:423:SER:HB2	1:s:728:THR:HG22	1.45	0.96
2:uh:77:LYS:CD	2:uh:89:ILE:HG13	1.94	0.96
1:n:423:SER:HB2	1:n:728:THR:HG22	1.45	0.96
1:q:423:SER:HB2	1:q:728:THR:HG22	1.45	0.96
2:Wh:77:LYS:CD	2:Wh:89:ILE:HG13	1.94	0.96
2:zh:77:LYS:CD	2:zh:89:ILE:HG13	1.94	0.96
2:jh:77:LYS:CD	2:jh:89:ILE:HG13	1.94	0.96
2:kh:77:LYS:CD	2:kh:89:ILE:HG13	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:423:SER:HB2	1:H:728:THR:HG22	1.45	0.96
1:y:423:SER:HB2	1:y:728:THR:HG22	1.45	0.96
2:Gh:77:LYS:CD	2:Gh:89:ILE:HG13	1.94	0.96
2:Rh:77:LYS:CD	2:Rh:89:ILE:HG13	1.94	0.96
1:E:423:SER:HB2	1:E:728:THR:HG22	1.45	0.96
1:8:423:SER:HB2	1:8:728:THR:HG22	1.45	0.96
2:Oh:77:LYS:CD	2:Oh:89:ILE:HG13	1.94	0.96
2:Vh:77:LYS:CD	2:Vh:89:ILE:HG13	1.94	0.96
2:fh:77:LYS:CD	2:fh:89:ILE:HG13	1.94	0.96
2:nh:77:LYS:CD	2:nh:89:ILE:HG13	1.94	0.96
1:G:423:SER:HB2	1:G:728:THR:HG22	1.45	0.95
2:ih:77:LYS:CD	2:ih:89:ILE:HG13	1.94	0.95
1:J:423:SER:HB2	1:J:728:THR:HG22	1.45	0.95
1:M:423:SER:HB2	1:M:728:THR:HG22	1.45	0.95
2:Xh:77:LYS:CD	2:Xh:89:ILE:HG13	1.94	0.95
2:ah:77:LYS:CD	2:ah:89:ILE:HG13	1.94	0.95
1:v:423:SER:HB2	1:v:728:THR:HG22	1.45	0.95
2:Ch:77:LYS:CD	2:Ch:89:ILE:HG13	1.94	0.95
1:b:423:SER:HB2	1:b:728:THR:HG22	1.45	0.95
2:Jh:77:LYS:CD	2:Jh:89:ILE:HG13	1.94	0.95
2:2h:77:LYS:CD	2:2h:89:ILE:HG13	1.94	0.95
2:6h:77:LYS:CD	2:6h:89:ILE:HG13	1.94	0.95
2:vh:77:LYS:CD	2:vh:89:ILE:HG13	1.94	0.95
1:m:423:SER:HB2	1:m:728:THR:HG22	1.45	0.95
2:Th:77:LYS:CD	2:Th:89:ILE:HG13	1.94	0.95
2:8h:77:LYS:CD	2:8h:89:ILE:HG13	1.94	0.95
2:gh:77:LYS:CD	2:gh:89:ILE:HG13	1.94	0.95
2:7h:77:LYS:CD	2:7h:89:ILE:HG13	1.94	0.95
1:U:423:SER:HB2	1:U:728:THR:HG22	1.45	0.94
2:Sh:77:LYS:CD	2:Sh:89:ILE:HG13	1.94	0.94
2:Yh:77:LYS:CD	2:Yh:89:ILE:HG13	1.94	0.94
2:Zh:77:LYS:CD	2:Zh:89:ILE:HG13	1.94	0.94
1:I:423:SER:HB2	1:I:728:THR:HG22	1.45	0.94
1:o:423:SER:HB2	1:o:728:THR:HG22	1.45	0.94
2:lh:77:LYS:CD	2:lh:89:ILE:HG13	1.94	0.94
1:f:423:SER:HB2	1:f:728:THR:HG22	1.45	0.94
2:Qh:77:LYS:CD	2:Qh:89:ILE:HG13	1.94	0.94
1:O:423:SER:HB2	1:O:728:THR:HG22	1.45	0.94
2:Dh:77:LYS:HG3	2:Dh:89:ILE:HD11	1.52	0.92
2:6h:77:LYS:HG3	2:6h:89:ILE:HD11	1.52	0.92
2:fh:77:LYS:HG3	2:fh:89:ILE:HD11	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oh:77:LYS:HG3	2:Oh:89:ILE:HD11	1.52	0.92
2:1h:77:LYS:HG3	2:1h:89:ILE:HD11	1.52	0.92
2:2h:77:LYS:HG3	2:2h:89:ILE:HD11	1.52	0.92
2:eh:77:LYS:HG3	2:eh:89:ILE:HD11	1.52	0.92
2:wh:77:LYS:HG3	2:wh:89:ILE:HD11	1.52	0.92
2:Uh:77:LYS:HG3	2:Uh:89:ILE:HD11	1.52	0.92
2:ih:77:LYS:HG3	2:ih:89:ILE:HD11	1.52	0.92
2:Xh:77:LYS:HG3	2:Xh:89:ILE:HD11	1.52	0.92
2:mh:77:LYS:HG3	2:mh:89:ILE:HD11	1.52	0.92
1:M:423:SER:CB	1:M:728:THR:HG22	2.01	0.92
1:b:423:SER:CB	1:b:728:THR:HG22	2.01	0.92
2:Eh:77:LYS:HG3	2:Eh:89:ILE:HD11	1.52	0.92
2:Mh:77:LYS:HG3	2:Mh:89:ILE:HD11	1.52	0.92
2:Th:77:LYS:HG3	2:Th:89:ILE:HD11	1.52	0.92
2:bh:77:LYS:HG3	2:bh:89:ILE:HD11	1.52	0.92
2:Fh:77:LYS:HG3	2:Fh:89:ILE:HD11	1.52	0.91
2:Rh:77:LYS:HG3	2:Rh:89:ILE:HD11	1.52	0.91
2:sh:77:LYS:HG3	2:sh:89:ILE:HD11	1.52	0.91
1:B:423:SER:CB	1:B:728:THR:HG22	2.01	0.91
1:u:423:SER:CB	1:u:728:THR:HG22	2.01	0.91
2:Nh:77:LYS:HG3	2:Nh:89:ILE:HD11	1.52	0.91
2:ch:77:LYS:HG3	2:ch:89:ILE:HD11	1.52	0.91
2:gh:77:LYS:HG3	2:gh:89:ILE:HD11	1.52	0.91
2:kh:77:LYS:HG3	2:kh:89:ILE:HD11	1.52	0.91
2:qh:77:LYS:HG3	2:qh:89:ILE:HD11	1.52	0.91
1:3:423:SER:CB	1:3:728:THR:HG22	2.01	0.91
1:5:423:SER:CB	1:5:728:THR:HG22	2.01	0.91
1:E:423:SER:CB	1:E:728:THR:HG22	2.01	0.91
1:q:423:SER:CB	1:q:728:THR:HG22	2.01	0.91
1:w:423:SER:CB	1:w:728:THR:HG22	2.01	0.91
1:1:423:SER:CB	1:1:728:THR:HG22	2.01	0.91
2:Ih:77:LYS:HG3	2:Ih:89:ILE:HD11	1.52	0.91
1:X:423:SER:CB	1:X:728:THR:HG22	2.01	0.91
1:Z:423:SER:CB	1:Z:728:THR:HG22	2.01	0.91
1:d:423:SER:CB	1:d:728:THR:HG22	2.01	0.91
2:Qh:77:LYS:HG3	2:Qh:89:ILE:HD11	1.52	0.91
2:oh:77:LYS:HG3	2:oh:89:ILE:HD11	1.52	0.91
1:I:423:SER:CB	1:I:728:THR:HG22	2.01	0.91
1:P:423:SER:CB	1:P:728:THR:HG22	2.01	0.91
1:W:423:SER:CB	1:W:728:THR:HG22	2.01	0.91
1:i:423:SER:CB	1:i:728:THR:HG22	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:423:SER:CB	1:o:728:THR:HG22	2.01	0.91
1:p:423:SER:CB	1:p:728:THR:HG22	2.01	0.91
1:t:423:SER:CB	1:t:728:THR:HG22	2.01	0.91
1:x:423:SER:CB	1:x:728:THR:HG22	2.01	0.91
2:Bh:77:LYS:HG3	2:Bh:89:ILE:HD11	1.52	0.91
2:Wh:77:LYS:HG3	2:Wh:89:ILE:HD11	1.52	0.91
2:zh:77:LYS:HG3	2:zh:89:ILE:HD11	1.52	0.91
1:L:423:SER:CB	1:L:728:THR:HG22	2.01	0.91
1:z:423:SER:CB	1:z:728:THR:HG22	2.01	0.91
1:8:423:SER:CB	1:8:728:THR:HG22	2.01	0.91
2:rh:77:LYS:HG3	2:rh:89:ILE:HD11	1.52	0.91
2:uh:77:LYS:HG3	2:uh:89:ILE:HD11	1.52	0.91
2:7h:77:LYS:HG3	2:7h:89:ILE:HD11	1.52	0.91
1:A:423:SER:CB	1:A:728:THR:HG22	2.01	0.91
1:K:423:SER:CB	1:K:728:THR:HG22	2.01	0.91
2:Yh:77:LYS:HG3	2:Yh:89:ILE:HD11	1.52	0.91
3:al:53:THR:HG21	3:al:71:SER:HA	1.53	0.91
3:il:53:THR:HG21	3:il:71:SER:HA	1.53	0.91
3:Cl:53:THR:HG21	3:Cl:71:SER:HA	1.54	0.90
3:Jl:53:THR:HG21	3:Jl:71:SER:HA	1.54	0.90
3:Yl:53:THR:HG21	3:Yl:71:SER:HA	1.53	0.90
3:vl:53:THR:HG21	3:vl:71:SER:HA	1.54	0.90
3:Il:53:THR:HG21	3:Il:71:SER:HA	1.54	0.90
3:7l:53:THR:HG21	3:7l:71:SER:HA	1.53	0.90
1:O:423:SER:CB	1:O:728:THR:HG22	2.01	0.90
1:6:423:SER:CB	1:6:728:THR:HG22	2.01	0.90
1:e:423:SER:CB	1:e:728:THR:HG22	2.01	0.90
1:f:423:SER:CB	1:f:728:THR:HG22	2.01	0.90
3:Rl:53:THR:HG21	3:Rl:71:SER:HA	1.53	0.90
3:Xl:53:THR:HG21	3:Xl:71:SER:HA	1.54	0.90
3:dl:53:THR:HG21	3:dl:71:SER:HA	1.53	0.90
3:ol:53:THR:HG21	3:ol:71:SER:HA	1.54	0.90
1:D:423:SER:CB	1:D:728:THR:HG22	2.01	0.90
1:2:423:SER:CB	1:2:728:THR:HG22	2.01	0.90
3:Al:53:THR:HG21	3:Al:71:SER:HA	1.53	0.90
3:Ol:53:THR:HG21	3:Ol:71:SER:HA	1.54	0.90
3:fl:53:THR:HG21	3:fl:71:SER:HA	1.54	0.90
1:Q:423:SER:CB	1:Q:728:THR:HG22	2.01	0.90
1:Y:423:SER:CB	1:Y:728:THR:HG22	2.01	0.90
2:4h:77:LYS:HG3	2:4h:89:ILE:HD11	1.52	0.90
2:hh:77:LYS:HG3	2:hh:89:ILE:HD11	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Pl:53:THR:HG21	3:Pl:71:SER:HA	1.53	0.90
3:kl:53:THR:HG21	3:kl:71:SER:HA	1.53	0.90
3:pl:53:THR:HG21	3:pl:71:SER:HA	1.53	0.90
1:V:423:SER:CB	1:V:728:THR:HG22	2.01	0.90
1:7:423:SER:CB	1:7:728:THR:HG22	2.01	0.90
3:cl:53:THR:HG21	3:cl:71:SER:HA	1.53	0.90
3:el:53:THR:HG21	3:el:71:SER:HA	1.54	0.90
1:j:423:SER:CB	1:j:728:THR:HG22	2.01	0.90
1:r:423:SER:CB	1:r:728:THR:HG22	2.01	0.90
3:Dl:53:THR:HG21	3:Dl:71:SER:HA	1.54	0.90
3:ul:53:THR:HG21	3:ul:71:SER:HA	1.54	0.90
1:F:423:SER:CB	1:F:728:THR:HG22	2.01	0.90
1:S:423:SER:CB	1:S:728:THR:HG22	2.01	0.90
1:U:423:SER:CB	1:U:728:THR:HG22	2.01	0.90
1:g:423:SER:CB	1:g:728:THR:HG22	2.01	0.90
2:Ph:77:LYS:HG3	2:Ph:89:ILE:HD11	1.52	0.90
2:xh:77:LYS:HG3	2:xh:89:ILE:HD11	1.52	0.90
3:Nl:53:THR:HG21	3:Nl:71:SER:HA	1.53	0.90
1:l:423:SER:CB	1:l:728:THR:HG22	2.01	0.90
1:m:423:SER:CB	1:m:728:THR:HG22	2.01	0.90
1:s:423:SER:CB	1:s:728:THR:HG22	2.01	0.90
2:Jh:77:LYS:HG3	2:Jh:89:ILE:HD11	1.52	0.90
2:ph:77:LYS:HG3	2:ph:89:ILE:HD11	1.52	0.90
3:Bl:53:THR:HG21	3:Bl:71:SER:HA	1.53	0.90
3:El:53:THR:HG21	3:El:71:SER:HA	1.54	0.90
1:T:423:SER:CB	1:T:728:THR:HG22	2.01	0.90
2:Kh:77:LYS:HG3	2:Kh:89:ILE:HD11	1.52	0.90
3:2l:53:THR:HG21	3:2l:71:SER:HA	1.53	0.90
3:ql:53:THR:HG21	3:ql:71:SER:HA	1.54	0.90
1:c:423:SER:CB	1:c:728:THR:HG22	2.01	0.89
2:vh:77:LYS:HG3	2:vh:89:ILE:HD11	1.52	0.89
3:jl:53:THR:HG21	3:jl:71:SER:HA	1.53	0.89
3:zl:53:THR:HG21	3:zl:71:SER:HA	1.54	0.89
1:C:423:SER:CB	1:C:728:THR:HG22	2.01	0.89
1:N:423:SER:CB	1:N:728:THR:HG22	2.01	0.89
1:y:423:SER:CB	1:y:728:THR:HG22	2.01	0.89
2:Ah:77:LYS:HG3	2:Ah:89:ILE:HD11	1.52	0.89
2:Hh:77:LYS:HG3	2:Hh:89:ILE:HD11	1.52	0.89
2:dh:77:LYS:HG3	2:dh:89:ILE:HD11	1.52	0.89
2:yh:77:LYS:HG3	2:yh:89:ILE:HD11	1.52	0.89
3:Fl:53:THR:HG21	3:Fl:71:SER:HA	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6l:53:THR:HG21	3:6l:71:SER:HA	1.54	0.89
1:R:423:SER:CB	1:R:728:THR:HG22	2.01	0.89
1:n:423:SER:CB	1:n:728:THR:HG22	2.01	0.89
2:nh:77:LYS:HG3	2:nh:89:ILE:HD11	1.52	0.89
3:Wl:53:THR:HG21	3:Wl:71:SER:HA	1.54	0.89
3:sl:53:THR:HG21	3:sl:71:SER:HA	1.53	0.89
1:H:423:SER:CB	1:H:728:THR:HG22	2.01	0.89
1:a:423:SER:CB	1:a:728:THR:HG22	2.01	0.89
2:Sh:77:LYS:HG3	2:Sh:89:ILE:HD11	1.52	0.89
3:Ql:53:THR:HG21	3:Ql:71:SER:HA	1.54	0.89
3:Tl:53:THR:HG21	3:Tl:71:SER:HA	1.53	0.89
3:Vl:53:THR:HG21	3:Vl:71:SER:HA	1.54	0.89
1:G:423:SER:CB	1:G:728:THR:HG22	2.01	0.89
2:Gh:77:LYS:HG3	2:Gh:89:ILE:HD11	1.52	0.89
3:Ul:53:THR:HG21	3:Ul:71:SER:HA	1.53	0.89
3:gl:53:THR:HG21	3:gl:71:SER:HA	1.53	0.89
1:k:423:SER:CB	1:k:728:THR:HG22	2.01	0.89
1:v:423:SER:CB	1:v:728:THR:HG22	2.01	0.89
2:Lh:77:LYS:HG3	2:Lh:89:ILE:HD11	1.52	0.89
2:lh:77:LYS:HG3	2:lh:89:ILE:HD11	1.52	0.89
2:ph:112:VAL:HG13	2:ph:143:GLY:O	1.73	0.89
2:th:77:LYS:HG3	2:th:89:ILE:HD11	1.52	0.89
3:Sl:53:THR:HG21	3:Sl:71:SER:HA	1.54	0.89
3:ll:53:THR:HG21	3:ll:71:SER:HA	1.54	0.89
3:rl:53:THR:HG21	3:rl:71:SER:HA	1.54	0.89
1:J:423:SER:CB	1:J:728:THR:HG22	2.01	0.89
2:Ah:112:VAL:HG13	2:Ah:143:GLY:O	1.73	0.89
2:3h:77:LYS:HG3	2:3h:89:ILE:HD11	1.52	0.89
2:5h:77:LYS:HG3	2:5h:89:ILE:HD11	1.52	0.89
2:sh:112:VAL:HG13	2:sh:143:GLY:O	1.73	0.89
3:Gl:53:THR:HG21	3:Gl:71:SER:HA	1.53	0.89
3:ml:53:THR:HG21	3:ml:71:SER:HA	1.53	0.89
1:h:423:SER:CB	1:h:728:THR:HG22	2.01	0.89
2:Dh:77:LYS:CG	2:Dh:89:ILE:HD11	2.03	0.89
2:Fh:112:VAL:HG13	2:Fh:143:GLY:O	1.73	0.89
2:Hh:112:VAL:HG13	2:Hh:143:GLY:O	1.73	0.89
2:Qh:77:LYS:CG	2:Qh:89:ILE:HD11	2.03	0.89
2:Uh:112:VAL:HG13	2:Uh:143:GLY:O	1.73	0.89
2:eh:77:LYS:CG	2:eh:89:ILE:HD11	2.03	0.89
2:fh:77:LYS:CG	2:fh:89:ILE:HD11	2.03	0.89
2:rh:77:LYS:CG	2:rh:89:ILE:HD11	2.03	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:uh:77:LYS:CG	2:uh:89:ILE:HD11	2.03	0.89
2:Bh:77:LYS:CG	2:Bh:89:ILE:HD11	2.03	0.89
2:Kh:77:LYS:CG	2:Kh:89:ILE:HD11	2.03	0.89
2:Kh:112:VAL:HG13	2:Kh:143:GLY:O	1.73	0.89
2:Nh:112:VAL:HG13	2:Nh:143:GLY:O	1.73	0.89
2:Ph:77:LYS:CG	2:Ph:89:ILE:HD11	2.03	0.89
2:Qh:112:VAL:HG13	2:Qh:143:GLY:O	1.73	0.89
2:dh:77:LYS:CG	2:dh:89:ILE:HD11	2.03	0.89
2:ih:112:VAL:HG13	2:ih:143:GLY:O	1.73	0.89
2:mh:77:LYS:CG	2:mh:89:ILE:HD11	2.03	0.89
2:mh:112:VAL:HG13	2:mh:143:GLY:O	1.73	0.89
2:rh:112:VAL:HG13	2:rh:143:GLY:O	1.73	0.89
2:xh:77:LYS:CG	2:xh:89:ILE:HD11	2.03	0.89
2:xh:112:VAL:HG13	2:xh:143:GLY:O	1.73	0.89
2:yh:112:VAL:HG13	2:yh:143:GLY:O	1.73	0.89
2:7h:112:VAL:HG13	2:7h:143:GLY:O	1.73	0.89
3:Ll:54:VAL:H	3:Ll:72:ASN:ND2	1.71	0.89
3:tl:54:VAL:H	3:tl:72:ASN:ND2	1.71	0.89
1:4:423:SER:CB	1:4:728:THR:HG22	2.01	0.89
2:Eh:112:VAL:HG13	2:Eh:143:GLY:O	1.73	0.89
2:Gh:112:VAL:HG13	2:Gh:143:GLY:O	1.73	0.89
2:Jh:112:VAL:HG13	2:Jh:143:GLY:O	1.73	0.89
2:Oh:77:LYS:CG	2:Oh:89:ILE:HD11	2.03	0.89
2:Rh:112:VAL:HG13	2:Rh:143:GLY:O	1.73	0.89
2:Uh:77:LYS:CG	2:Uh:89:ILE:HD11	2.03	0.89
2:Xh:112:VAL:HG13	2:Xh:143:GLY:O	1.73	0.89
2:Yh:112:VAL:HG13	2:Yh:143:GLY:O	1.73	0.89
2:Zh:77:LYS:HG3	2:Zh:89:ILE:HD11	1.52	0.89
2:3h:77:LYS:CG	2:3h:89:ILE:HD11	2.03	0.89
2:5h:77:LYS:CG	2:5h:89:ILE:HD11	2.03	0.89
2:ch:112:VAL:HG13	2:ch:143:GLY:O	1.73	0.89
3:Fl:54:VAL:H	3:Fl:72:ASN:ND2	1.71	0.89
3:Kl:54:VAL:H	3:Kl:72:ASN:ND2	1.71	0.89
3:nl:53:THR:HG21	3:nl:71:SER:HA	1.54	0.89
3:xl:54:VAL:H	3:xl:72:ASN:ND2	1.71	0.89
3:7l:54:VAL:H	3:7l:72:ASN:ND2	1.71	0.89
2:Mh:112:VAL:HG13	2:Mh:143:GLY:O	1.73	0.88
2:Vh:77:LYS:CG	2:Vh:89:ILE:HD11	2.03	0.88
2:6h:112:VAL:HG13	2:6h:143:GLY:O	1.73	0.88
2:fh:112:VAL:HG13	2:fh:143:GLY:O	1.73	0.88
2:kh:112:VAL:HG13	2:kh:143:GLY:O	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nh:112:VAL:HG13	2:nh:143:GLY:O	1.73	0.88
2:8h:77:LYS:HG3	2:8h:89:ILE:HD11	1.52	0.88
3:Dl:54:VAL:H	3:Dl:72:ASN:ND2	1.71	0.88
3:Yl:54:VAL:H	3:Yl:72:ASN:ND2	1.71	0.88
3:el:54:VAL:H	3:el:72:ASN:ND2	1.71	0.88
3:sl:54:VAL:H	3:sl:72:ASN:ND2	1.71	0.88
3:tl:53:THR:HG21	3:tl:71:SER:HA	1.53	0.88
2:Oh:112:VAL:HG13	2:Oh:143:GLY:O	1.73	0.88
2:Rh:77:LYS:CG	2:Rh:89:ILE:HD11	2.03	0.88
2:Th:112:VAL:HG13	2:Th:143:GLY:O	1.73	0.88
2:2h:112:VAL:HG13	2:2h:143:GLY:O	1.73	0.88
2:bh:112:VAL:HG13	2:bh:143:GLY:O	1.73	0.88
2:jh:77:LYS:CG	2:jh:89:ILE:HD11	2.03	0.88
2:qh:112:VAL:HG13	2:qh:143:GLY:O	1.73	0.88
2:vh:112:VAL:HG13	2:vh:143:GLY:O	1.73	0.88
3:Ll:53:THR:HG21	3:Ll:71:SER:HA	1.53	0.88
3:4l:53:THR:HG21	3:4l:71:SER:HA	1.53	0.88
3:hl:53:THR:HG21	3:hl:71:SER:HA	1.53	0.88
3:ll:54:VAL:H	3:ll:72:ASN:ND2	1.71	0.88
3:rl:54:VAL:H	3:rl:72:ASN:ND2	1.71	0.88
3:vl:54:VAL:H	3:vl:72:ASN:ND2	1.71	0.88
2:Fh:77:LYS:CG	2:Fh:89:ILE:HD11	2.03	0.88
2:1h:77:LYS:CG	2:1h:89:ILE:HD11	2.03	0.88
2:kh:77:LYS:CG	2:kh:89:ILE:HD11	2.03	0.88
3:Al:54:VAL:H	3:Al:72:ASN:ND2	1.71	0.88
3:Jl:54:VAL:H	3:Jl:72:ASN:ND2	1.71	0.88
3:Mi:54:VAL:H	3:Mi:72:ASN:ND2	1.71	0.88
3:Ql:54:VAL:H	3:Ql:72:ASN:ND2	1.71	0.88
3:Sl:54:VAL:H	3:Sl:72:ASN:ND2	1.71	0.88
2:Sh:77:LYS:CG	2:Sh:89:ILE:HD11	2.03	0.88
2:gh:112:VAL:HG13	2:gh:143:GLY:O	1.73	0.88
2:lh:77:LYS:CG	2:lh:89:ILE:HD11	2.03	0.88
2:sh:77:LYS:CG	2:sh:89:ILE:HD11	2.03	0.88
2:wh:77:LYS:CG	2:wh:89:ILE:HD11	2.03	0.88
3:Kl:53:THR:HG21	3:Kl:71:SER:HA	1.53	0.88
3:bl:54:VAL:H	3:bl:72:ASN:ND2	1.71	0.88
3:xl:53:THR:HG21	3:xl:71:SER:HA	1.53	0.88
2:Ah:77:LYS:CG	2:Ah:89:ILE:HD11	2.03	0.88
2:Vh:77:LYS:HG3	2:Vh:89:ILE:HD11	1.52	0.88
3:El:54:VAL:H	3:El:72:ASN:ND2	1.71	0.88
3:Wl:54:VAL:H	3:Wl:72:ASN:ND2	1.71	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:pl:54:VAL:H	3:pl:72:ASN:ND2	1.71	0.88
3:zl:54:VAL:H	3:zl:72:ASN:ND2	1.71	0.88
2:Ch:77:LYS:CG	2:Ch:89:ILE:HD11	2.03	0.88
2:Lh:112:VAL:HG13	2:Lh:143:GLY:O	1.73	0.88
2:ph:77:LYS:CG	2:ph:89:ILE:HD11	2.03	0.88
3:bl:53:THR:HG21	3:bl:71:SER:HA	1.53	0.88
3:ql:54:VAL:H	3:ql:72:ASN:ND2	1.71	0.88
2:Hh:77:LYS:CG	2:Hh:89:ILE:HD11	2.03	0.88
2:Xh:77:LYS:CG	2:Xh:89:ILE:HD11	2.03	0.88
2:lh:112:VAL:HG13	2:lh:143:GLY:O	1.73	0.88
2:ah:77:LYS:HG3	2:ah:89:ILE:HD11	1.52	0.88
2:th:112:VAL:HG13	2:th:143:GLY:O	1.73	0.88
2:uh:112:VAL:HG13	2:uh:143:GLY:O	1.73	0.88
2:wh:112:VAL:HG13	2:wh:143:GLY:O	1.73	0.88
2:yh:77:LYS:CG	2:yh:89:ILE:HD11	2.03	0.88
3:ml:53:THR:HG21	3:ml:71:SER:HA	1.53	0.88
2:Jh:77:LYS:CG	2:Jh:89:ILE:HD11	2.03	0.88
2:Nh:77:LYS:CG	2:Nh:89:ILE:HD11	2.03	0.88
2:Zh:112:VAL:HG13	2:Zh:143:GLY:O	1.73	0.88
2:4h:77:LYS:CG	2:4h:89:ILE:HD11	2.03	0.88
2:ah:77:LYS:CG	2:ah:89:ILE:HD11	2.03	0.88
2:jh:77:LYS:HG3	2:jh:89:ILE:HD11	1.52	0.88
3:Gl:54:VAL:H	3:Gl:72:ASN:ND2	1.71	0.88
3:2l:54:VAL:H	3:2l:72:ASN:ND2	1.71	0.88
3:5l:53:THR:HG21	3:5l:71:SER:HA	1.53	0.88
3:6l:54:VAL:H	3:6l:72:ASN:ND2	1.71	0.88
3:nl:54:VAL:H	3:nl:72:ASN:ND2	1.71	0.88
3:8l:53:THR:HG21	3:8l:71:SER:HA	1.54	0.88
2:Bh:112:VAL:HG13	2:Bh:143:GLY:O	1.73	0.88
2:ch:77:LYS:CG	2:ch:89:ILE:HD11	2.03	0.88
2:ih:77:LYS:CG	2:ih:89:ILE:HD11	2.03	0.88
2:nh:77:LYS:CG	2:nh:89:ILE:HD11	2.03	0.88
3:Zl:53:THR:HG21	3:Zl:71:SER:HA	1.54	0.88
3:3l:53:THR:HG21	3:3l:71:SER:HA	1.53	0.88
3:3l:54:VAL:H	3:3l:72:ASN:ND2	1.71	0.88
3:5l:54:VAL:H	3:5l:72:ASN:ND2	1.71	0.88
3:ml:54:VAL:H	3:ml:72:ASN:ND2	1.71	0.88
3:wl:53:THR:HG21	3:wl:71:SER:HA	1.53	0.88
2:Ch:77:LYS:HG3	2:Ch:89:ILE:HD11	1.52	0.88
2:hh:77:LYS:CG	2:hh:89:ILE:HD11	2.03	0.88
2:vh:77:LYS:CG	2:vh:89:ILE:HD11	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:8h:112:VAL:HG13	2:8h:143:GLY:O	1.73	0.88
3:Ul:54:VAL:H	3:Ul:72:ASN:ND2	1.71	0.88
2:Lh:77:LYS:CG	2:Lh:89:ILE:HD11	2.03	0.87
2:Th:77:LYS:CG	2:Th:89:ILE:HD11	2.03	0.87
2:Vh:112:VAL:HG13	2:Vh:143:GLY:O	1.73	0.87
3:Il:54:VAL:H	3:Il:72:ASN:ND2	1.71	0.87
3:1l:53:THR:HG21	3:1l:71:SER:HA	1.53	0.87
3:4l:54:VAL:H	3:4l:72:ASN:ND2	1.71	0.87
3:hl:54:VAL:H	3:hl:72:ASN:ND2	1.71	0.87
2:Ch:112:VAL:HG13	2:Ch:143:GLY:O	1.73	0.87
2:Gh:77:LYS:CG	2:Gh:89:ILE:HD11	2.03	0.87
2:Wh:77:LYS:CG	2:Wh:89:ILE:HD11	2.03	0.87
2:ah:112:VAL:HG13	2:ah:143:GLY:O	1.73	0.87
2:bh:77:LYS:CG	2:bh:89:ILE:HD11	2.03	0.87
2:gh:77:LYS:CG	2:gh:89:ILE:HD11	2.03	0.87
2:jh:112:VAL:HG13	2:jh:143:GLY:O	1.73	0.87
2:th:77:LYS:CG	2:th:89:ILE:HD11	2.03	0.87
2:zh:77:LYS:CG	2:zh:89:ILE:HD11	2.03	0.87
2:7h:77:LYS:CG	2:7h:89:ILE:HD11	2.03	0.87
2:Yh:77:LYS:CG	2:Yh:89:ILE:HD11	2.03	0.87
2:ch:81:ASP:HA	2:ch:84:LYS:CG	2.05	0.87
3:ol:54:VAL:H	3:ol:72:ASN:ND2	1.71	0.87
2:Mh:77:LYS:CG	2:Mh:89:ILE:HD11	2.03	0.87
2:Nh:81:ASP:HA	2:Nh:84:LYS:CG	2.05	0.87
2:2h:77:LYS:CG	2:2h:89:ILE:HD11	2.03	0.87
2:eh:112:VAL:HG13	2:eh:143:GLY:O	1.73	0.87
2:hh:112:VAL:HG13	2:hh:143:GLY:O	1.73	0.87
2:2h:81:ASP:HA	2:2h:84:LYS:CG	2.05	0.87
2:6h:77:LYS:CG	2:6h:89:ILE:HD11	2.03	0.87
2:6h:81:ASP:HA	2:6h:84:LYS:CG	2.05	0.87
2:dh:81:ASP:HA	2:dh:84:LYS:CG	2.05	0.87
2:oh:112:VAL:HG13	2:oh:143:GLY:O	1.73	0.87
3:Bl:54:VAL:H	3:Bl:72:ASN:ND2	1.71	0.87
3:kl:54:VAL:H	3:kl:72:ASN:ND2	1.71	0.87
3:yl:54:VAL:H	3:yl:72:ASN:ND2	1.71	0.87
2:Eh:77:LYS:CG	2:Eh:89:ILE:HD11	2.03	0.87
2:Ph:81:ASP:HA	2:Ph:84:LYS:CG	2.05	0.87
2:5h:112:VAL:HG13	2:5h:143:GLY:O	1.73	0.87
2:dh:112:VAL:HG13	2:dh:143:GLY:O	1.73	0.87
3:fl:54:VAL:H	3:fl:72:ASN:ND2	1.71	0.87
3:il:54:VAL:H	3:il:72:ASN:ND2	1.71	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:jl:54:VAL:H	3:jl:72:ASN:ND2	1.71	0.87
2:Oh:81:ASP:HA	2:Oh:84:LYS:CG	2.05	0.87
2:4h:112:VAL:HG13	2:4h:143:GLY:O	1.73	0.87
2:zh:81:ASP:HA	2:zh:84:LYS:CG	2.05	0.87
3:Hl:54:VAL:H	3:Hl:72:ASN:ND2	1.71	0.87
3:ul:54:VAL:H	3:ul:72:ASN:ND2	1.71	0.87
2:Ah:81:ASP:HA	2:Ah:84:LYS:CG	2.05	0.87
2:Dh:112:VAL:HG13	2:Dh:143:GLY:O	1.73	0.87
2:Ih:112:VAL:HG13	2:Ih:143:GLY:O	1.73	0.87
2:Uh:81:ASP:HA	2:Uh:84:LYS:CG	2.05	0.87
2:Wh:112:VAL:HG13	2:Wh:143:GLY:O	1.73	0.87
2:lh:112:VAL:HG13	2:lh:143:GLY:O	1.73	0.87
2:mh:81:ASP:HA	2:mh:84:LYS:CG	2.05	0.87
2:ph:81:ASP:HA	2:ph:84:LYS:CG	2.05	0.87
2:8h:77:LYS:CG	2:8h:89:ILE:HD11	2.03	0.87
3:Hl:53:THR:HG21	3:Hl:71:SER:HA	1.53	0.87
3:Pl:54:VAL:H	3:Pl:72:ASN:ND2	1.71	0.87
3:Rl:54:VAL:H	3:Rl:72:ASN:ND2	1.71	0.87
3:Tl:54:VAL:H	3:Tl:72:ASN:ND2	1.71	0.87
3:Vl:54:VAL:H	3:Vl:72:ASN:ND2	1.71	0.87
3:Zl:54:VAL:H	3:Zl:72:ASN:ND2	1.71	0.87
3:dl:54:VAL:H	3:dl:72:ASN:ND2	1.71	0.87
3:gl:54:VAL:H	3:gl:72:ASN:ND2	1.71	0.87
3:yl:53:THR:HG21	3:yl:71:SER:HA	1.53	0.87
3:8l:54:VAL:H	3:8l:72:ASN:ND2	1.71	0.87
2:Bh:81:ASP:HA	2:Bh:84:LYS:CG	2.05	0.87
2:Ih:77:LYS:CG	2:Ih:89:ILE:HD11	2.03	0.87
2:Ph:112:VAL:HG13	2:Ph:143:GLY:O	1.73	0.87
2:Wh:81:ASP:HA	2:Wh:84:LYS:CG	2.05	0.87
2:3h:112:VAL:HG13	2:3h:143:GLY:O	1.73	0.87
2:5h:81:ASP:HA	2:5h:84:LYS:CG	2.05	0.87
2:fh:81:ASP:HA	2:fh:84:LYS:CG	2.05	0.87
2:jh:81:ASP:HA	2:jh:84:LYS:CG	2.05	0.87
2:qh:77:LYS:CG	2:qh:89:ILE:HD11	2.03	0.87
3:Ol:54:VAL:H	3:Ol:72:ASN:ND2	1.71	0.87
3:Xl:54:VAL:H	3:Xl:72:ASN:ND2	1.71	0.87
3:al:54:VAL:H	3:al:72:ASN:ND2	1.71	0.87
3:wl:54:VAL:H	3:wl:72:ASN:ND2	1.71	0.87
2:Sh:112:VAL:HG13	2:Sh:143:GLY:O	1.73	0.86
2:Vh:81:ASP:HA	2:Vh:84:LYS:CG	2.05	0.86
2:Zh:77:LYS:CG	2:Zh:89:ILE:HD11	2.03	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zh:81:ASP:HA	2:Zh:84:LYS:CG	2.05	0.86
2:3h:81:ASP:HA	2:3h:84:LYS:CG	2.05	0.86
2:4h:81:ASP:HA	2:4h:84:LYS:CG	2.05	0.86
2:uh:81:ASP:HA	2:uh:84:LYS:CG	2.05	0.86
2:7h:81:ASP:HA	2:7h:84:LYS:CG	2.05	0.86
3:1l:54:VAL:H	3:1l:72:ASN:ND2	1.71	0.86
2:Yh:81:ASP:HA	2:Yh:84:LYS:CG	2.05	0.86
2:lh:81:ASP:HA	2:lh:84:LYS:CG	2.05	0.86
2:oh:77:LYS:CG	2:oh:89:ILE:HD11	2.03	0.86
3:Cl:54:VAL:H	3:Cl:72:ASN:ND2	1.71	0.86
3:Nl:54:VAL:H	3:Nl:72:ASN:ND2	1.71	0.86
3:cl:54:VAL:H	3:cl:72:ASN:ND2	1.71	0.86
2:hh:81:ASP:HA	2:hh:84:LYS:CG	2.05	0.86
2:zh:112:VAL:HG13	2:zh:143:GLY:O	1.73	0.86
2:8h:81:ASP:HA	2:8h:84:LYS:CG	2.05	0.86
2:Lh:81:ASP:HA	2:Lh:84:LYS:CG	2.05	0.86
2:Sh:81:ASP:HA	2:Sh:84:LYS:CG	2.05	0.86
2:th:81:ASP:HA	2:th:84:LYS:CG	2.05	0.86
2:Qh:81:ASP:HA	2:Qh:84:LYS:CG	2.05	0.86
2:gh:81:ASP:HA	2:gh:84:LYS:CG	2.05	0.86
2:ah:81:ASP:HA	2:ah:84:LYS:CG	2.05	0.86
2:oh:81:ASP:HA	2:oh:84:LYS:CG	2.05	0.86
2:Ih:81:ASP:HA	2:Ih:84:LYS:CG	2.05	0.86
2:Th:81:ASP:HA	2:Th:84:LYS:CG	2.05	0.86
2:nh:81:ASP:HA	2:nh:84:LYS:CG	2.05	0.86
2:xh:81:ASP:HA	2:xh:84:LYS:CG	2.05	0.86
2:Ch:81:ASP:HA	2:Ch:84:LYS:CG	2.05	0.86
2:Kh:81:ASP:HA	2:Kh:84:LYS:CG	2.05	0.86
2:kh:81:ASP:HA	2:kh:84:LYS:CG	2.05	0.86
2:rh:81:ASP:HA	2:rh:84:LYS:CG	2.05	0.86
2:Gh:81:ASP:HA	2:Gh:84:LYS:CG	2.05	0.86
2:Rh:81:ASP:HA	2:Rh:84:LYS:CG	2.05	0.86
2:eh:81:ASP:HA	2:eh:84:LYS:CG	2.05	0.86
2:bh:81:ASP:HA	2:bh:84:LYS:CG	2.05	0.86
2:Dh:81:ASP:HA	2:Dh:84:LYS:CG	2.05	0.85
2:Mh:81:ASP:HA	2:Mh:84:LYS:CG	2.05	0.85
2:ih:81:ASP:HA	2:ih:84:LYS:CG	2.05	0.85
2:Xh:81:ASP:HA	2:Xh:84:LYS:CG	2.05	0.85
2:qh:81:ASP:HA	2:qh:84:LYS:CG	2.05	0.85
2:Eh:81:ASP:HA	2:Eh:84:LYS:CG	2.05	0.85
2:Hh:81:ASP:HA	2:Hh:84:LYS:CG	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1h:81:ASP:HA	2:1h:84:LYS:CG	2.05	0.85
2:yh:81:ASP:HA	2:yh:84:LYS:CG	2.05	0.85
2:Jh:81:ASP:HA	2:Jh:84:LYS:CG	2.05	0.85
2:wh:81:ASP:HA	2:wh:84:LYS:CG	2.05	0.85
2:vh:81:ASP:HA	2:vh:84:LYS:CG	2.05	0.85
2:Fh:81:ASP:HA	2:Fh:84:LYS:CG	2.05	0.84
2:sh:81:ASP:HA	2:sh:84:LYS:CG	2.05	0.84
2:3h:86:ARG:HD3	2:3h:106:ARG:HH22	1.44	0.83
2:5h:86:ARG:HD3	2:5h:106:ARG:HH22	1.44	0.83
2:6h:86:ARG:HD3	2:6h:106:ARG:HH22	1.44	0.83
2:hh:86:ARG:HD3	2:hh:106:ARG:HH22	1.44	0.83
2:Hh:86:ARG:HD3	2:Hh:106:ARG:HH22	1.44	0.83
2:yh:86:ARG:HD3	2:yh:106:ARG:HH22	1.44	0.83
2:2h:86:ARG:HD3	2:2h:106:ARG:HH22	1.44	0.83
2:Ih:86:ARG:HD3	2:Ih:106:ARG:HH22	1.44	0.83
2:Nh:54:GLU:HG2	2:Nh:69:VAL:HG22	1.61	0.83
2:4h:86:ARG:HD3	2:4h:106:ARG:HH22	1.44	0.83
2:ch:54:GLU:HG2	2:ch:69:VAL:HG22	1.61	0.83
2:Hh:54:GLU:HG2	2:Hh:69:VAL:HG22	1.61	0.83
2:oh:86:ARG:HD3	2:oh:106:ARG:HH22	1.44	0.83
2:yh:54:GLU:HG2	2:yh:69:VAL:HG22	1.61	0.83
2:7h:86:ARG:HD3	2:7h:106:ARG:HH22	1.44	0.83
2:Th:86:ARG:HD3	2:Th:106:ARG:HH22	1.44	0.83
2:Vh:81:ASP:O	2:Vh:84:LYS:HG3	1.79	0.83
2:jh:81:ASP:O	2:jh:84:LYS:HG3	1.79	0.83
2:8h:54:GLU:HG2	2:8h:69:VAL:HG22	1.61	0.83
2:Dh:54:GLU:HG2	2:Dh:69:VAL:HG22	1.61	0.83
2:Kh:54:GLU:HG2	2:Kh:69:VAL:HG22	1.61	0.83
2:Rh:54:GLU:HG2	2:Rh:69:VAL:HG22	1.61	0.83
2:Yh:86:ARG:HD3	2:Yh:106:ARG:HH22	1.44	0.83
2:Zh:54:GLU:HG2	2:Zh:69:VAL:HG22	1.61	0.83
2:fh:86:ARG:HD3	2:fh:106:ARG:HH22	1.44	0.83
2:gh:86:ARG:HD3	2:gh:106:ARG:HH22	1.44	0.83
2:qh:86:ARG:HD3	2:qh:106:ARG:HH22	1.44	0.83
2:xh:54:GLU:HG2	2:xh:69:VAL:HG22	1.61	0.83
2:Eh:81:ASP:O	2:Eh:84:LYS:HG3	1.79	0.82
2:Gh:54:GLU:HG2	2:Gh:69:VAL:HG22	1.61	0.82
2:Lh:86:ARG:HD3	2:Lh:106:ARG:HH22	1.44	0.82
2:Th:54:GLU:HG2	2:Th:69:VAL:HG22	1.61	0.82
2:Th:81:ASP:O	2:Th:84:LYS:HG3	1.79	0.82
2:Uh:54:GLU:HG2	2:Uh:69:VAL:HG22	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3h:54:GLU:HG2	2:3h:69:VAL:HG22	1.61	0.82
2:5h:54:GLU:HG2	2:5h:69:VAL:HG22	1.61	0.82
2:ah:81:ASP:O	2:ah:84:LYS:HG3	1.79	0.82
2:eh:54:GLU:HG2	2:eh:69:VAL:HG22	1.61	0.82
2:gh:81:ASP:O	2:gh:84:LYS:HG3	1.79	0.82
2:kh:54:GLU:HG2	2:kh:69:VAL:HG22	1.61	0.82
2:mh:54:GLU:HG2	2:mh:69:VAL:HG22	1.61	0.82
2:nh:54:GLU:HG2	2:nh:69:VAL:HG22	1.61	0.82
2:oh:81:ASP:O	2:oh:84:LYS:HG3	1.79	0.82
2:qh:81:ASP:O	2:qh:84:LYS:HG3	1.79	0.82
2:wh:54:GLU:HG2	2:wh:69:VAL:HG22	1.61	0.82
2:Ch:81:ASP:O	2:Ch:84:LYS:HG3	1.79	0.82
2:Eh:86:ARG:HD3	2:Eh:106:ARG:HH22	1.44	0.82
2:Hh:81:ASP:O	2:Hh:84:LYS:HG3	1.79	0.82
2:Ih:81:ASP:O	2:Ih:84:LYS:HG3	1.79	0.82
2:Lh:81:ASP:O	2:Lh:84:LYS:HG3	1.79	0.82
2:Sh:54:GLU:HG2	2:Sh:69:VAL:HG22	1.61	0.82
2:ph:86:ARG:HD3	2:ph:106:ARG:HH22	1.44	0.82
2:rh:86:ARG:HD3	2:rh:106:ARG:HH22	1.44	0.82
2:yh:81:ASP:O	2:yh:84:LYS:HG3	1.79	0.82
2:Ah:86:ARG:HD3	2:Ah:106:ARG:HH22	1.44	0.82
2:Ch:86:ARG:HD3	2:Ch:106:ARG:HH22	1.44	0.82
2:Oh:86:ARG:HD3	2:Oh:106:ARG:HH22	1.44	0.82
2:1h:54:GLU:HG2	2:1h:69:VAL:HG22	1.61	0.82
2:th:81:ASP:O	2:th:84:LYS:HG3	1.79	0.82
2:th:86:ARG:HD3	2:th:106:ARG:HH22	1.44	0.82
2:wh:81:ASP:O	2:wh:84:LYS:HG3	1.79	0.82
2:Bh:81:ASP:O	2:Bh:84:LYS:HG3	1.79	0.82
2:Qh:86:ARG:HD3	2:Qh:106:ARG:HH22	1.44	0.82
2:1h:81:ASP:O	2:1h:84:LYS:HG3	1.79	0.82
2:gh:54:GLU:HG2	2:gh:69:VAL:HG22	1.61	0.82
2:lh:54:GLU:HG2	2:lh:69:VAL:HG22	1.61	0.82
2:vh:81:ASP:O	2:vh:84:LYS:HG3	1.79	0.82
2:Jh:81:ASP:O	2:Jh:84:LYS:HG3	1.79	0.82
2:Oh:54:GLU:HG2	2:Oh:69:VAL:HG22	1.61	0.82
2:Yh:54:GLU:HG2	2:Yh:69:VAL:HG22	1.61	0.82
2:dh:81:ASP:O	2:dh:84:LYS:HG3	1.79	0.82
2:uh:81:ASP:O	2:uh:84:LYS:HG3	1.79	0.82
2:Ph:81:ASP:O	2:Ph:84:LYS:HG3	1.79	0.82
2:2h:54:GLU:HG2	2:2h:69:VAL:HG22	1.61	0.82
2:ah:86:ARG:HD3	2:ah:106:ARG:HH22	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fh:54:GLU:HG2	2:fh:69:VAL:HG22	1.61	0.82
2:lh:86:ARG:HD3	2:lh:106:ARG:HH22	1.44	0.82
2:7h:54:GLU:HG2	2:7h:69:VAL:HG22	1.61	0.82
2:Mh:54:GLU:HG2	2:Mh:69:VAL:HG22	1.61	0.82
2:Nh:86:ARG:HD3	2:Nh:106:ARG:HH22	1.44	0.82
2:6h:54:GLU:HG2	2:6h:69:VAL:HG22	1.61	0.82
2:bh:86:ARG:HD3	2:bh:106:ARG:HH22	1.44	0.82
2:Dh:86:ARG:HD3	2:Dh:106:ARG:HH22	1.44	0.82
2:Fh:81:ASP:O	2:Fh:84:LYS:HG3	1.79	0.82
2:Ph:54:GLU:HG2	2:Ph:69:VAL:HG22	1.61	0.82
2:Sh:86:ARG:HD3	2:Sh:106:ARG:HH22	1.44	0.82
2:dh:54:GLU:HG2	2:dh:69:VAL:HG22	1.61	0.82
2:eh:81:ASP:O	2:eh:84:LYS:HG3	1.79	0.82
2:lh:81:ASP:O	2:lh:84:LYS:HG3	1.79	0.82
2:Dh:81:ASP:O	2:Dh:84:LYS:HG3	1.79	0.82
2:Jh:86:ARG:HD3	2:Jh:106:ARG:HH22	1.44	0.82
2:Uh:81:ASP:O	2:Uh:84:LYS:HG3	1.79	0.82
2:ch:86:ARG:HD3	2:ch:106:ARG:HH22	1.44	0.82
2:eh:86:ARG:HD3	2:eh:106:ARG:HH22	1.44	0.82
2:oh:54:GLU:HG2	2:oh:69:VAL:HG22	1.61	0.82
2:sh:81:ASP:O	2:sh:84:LYS:HG3	1.79	0.82
2:Ih:54:GLU:HG2	2:Ih:69:VAL:HG22	1.61	0.82
2:Mh:86:ARG:HD3	2:Mh:106:ARG:HH22	1.44	0.82
2:Sh:81:ASP:O	2:Sh:84:LYS:HG3	1.79	0.82
2:bh:54:GLU:HG2	2:bh:69:VAL:HG22	1.61	0.82
2:Xh:86:ARG:HD3	2:Xh:106:ARG:HH22	1.44	0.81
2:Yh:81:ASP:O	2:Yh:84:LYS:HG3	1.79	0.81
2:Zh:81:ASP:O	2:Zh:84:LYS:HG3	1.79	0.81
2:Zh:86:ARG:HD3	2:Zh:106:ARG:HH22	1.44	0.81
2:ih:86:ARG:HD3	2:ih:106:ARG:HH22	1.44	0.81
2:mh:81:ASP:O	2:mh:84:LYS:HG3	1.79	0.81
2:vh:86:ARG:HD3	2:vh:106:ARG:HH22	1.44	0.81
2:7h:81:ASP:O	2:7h:84:LYS:HG3	1.79	0.81
2:Gh:86:ARG:HD3	2:Gh:106:ARG:HH22	1.44	0.81
2:Oh:81:ASP:O	2:Oh:84:LYS:HG3	1.79	0.81
2:fh:81:ASP:O	2:fh:84:LYS:HG3	1.79	0.81
2:Gh:81:ASP:O	2:Gh:84:LYS:HG3	1.79	0.81
2:Kh:86:ARG:HD3	2:Kh:106:ARG:HH22	1.44	0.81
2:Xh:54:GLU:HG2	2:Xh:69:VAL:HG22	1.61	0.81
2:2h:81:ASP:O	2:2h:84:LYS:HG3	1.79	0.81
2:4h:54:GLU:HG2	2:4h:69:VAL:HG22	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4h:81:ASP:O	2:4h:84:LYS:HG3	1.79	0.81
2:6h:81:ASP:O	2:6h:84:LYS:HG3	1.79	0.81
2:hh:81:ASP:O	2:hh:84:LYS:HG3	1.79	0.81
2:xh:86:ARG:HD3	2:xh:106:ARG:HH22	1.44	0.81
2:8h:81:ASP:O	2:8h:84:LYS:HG3	1.79	0.81
2:8h:86:ARG:HD3	2:8h:106:ARG:HH22	1.44	0.81
2:Qh:81:ASP:O	2:Qh:84:LYS:HG3	1.79	0.81
2:hh:54:GLU:HG2	2:hh:69:VAL:HG22	1.61	0.81
2:ih:54:GLU:HG2	2:ih:69:VAL:HG22	1.61	0.81
2:nh:86:ARG:HD3	2:nh:106:ARG:HH22	1.44	0.81
2:Ah:54:GLU:HG2	2:Ah:69:VAL:HG22	1.61	0.81
2:Bh:86:ARG:HD3	2:Bh:106:ARG:HH22	1.44	0.81
2:Nh:81:ASP:O	2:Nh:84:LYS:HG3	1.79	0.81
2:Uh:86:ARG:HD3	2:Uh:106:ARG:HH22	1.44	0.81
2:Wh:54:GLU:HG2	2:Wh:69:VAL:HG22	1.61	0.81
2:Wh:81:ASP:O	2:Wh:84:LYS:HG3	1.79	0.81
2:bh:81:ASP:O	2:bh:84:LYS:HG3	1.79	0.81
2:nh:81:ASP:O	2:nh:84:LYS:HG3	1.79	0.81
2:ph:54:GLU:HG2	2:ph:69:VAL:HG22	1.61	0.81
2:xh:81:ASP:O	2:xh:84:LYS:HG3	1.79	0.81
2:Wh:86:ARG:HD3	2:Wh:106:ARG:HH22	1.44	0.81
2:Xh:81:ASP:O	2:Xh:84:LYS:HG3	1.79	0.81
2:ch:81:ASP:O	2:ch:84:LYS:HG3	1.79	0.81
2:rh:81:ASP:O	2:rh:84:LYS:HG3	1.79	0.81
2:uh:86:ARG:HD3	2:uh:106:ARG:HH22	1.44	0.81
2:zh:81:ASP:O	2:zh:84:LYS:HG3	1.79	0.81
2:Mh:81:ASP:O	2:Mh:84:LYS:HG3	1.79	0.81
2:ih:81:ASP:O	2:ih:84:LYS:HG3	1.79	0.81
2:kh:81:ASP:O	2:kh:84:LYS:HG3	1.79	0.81
2:ph:81:ASP:O	2:ph:84:LYS:HG3	1.79	0.81
2:zh:54:GLU:HG2	2:zh:69:VAL:HG22	1.61	0.81
2:Kh:81:ASP:O	2:Kh:84:LYS:HG3	1.79	0.81
2:Rh:81:ASP:O	2:Rh:84:LYS:HG3	1.79	0.81
2:Vh:54:GLU:HG2	2:Vh:69:VAL:HG22	1.61	0.81
2:mh:86:ARG:HD3	2:mh:106:ARG:HH22	1.44	0.81
2:sh:86:ARG:HD3	2:sh:106:ARG:HH22	1.44	0.81
2:Ah:81:ASP:O	2:Ah:84:LYS:HG3	1.79	0.81
2:Fh:86:ARG:HD3	2:Fh:106:ARG:HH22	1.44	0.81
2:Lh:54:GLU:HG2	2:Lh:69:VAL:HG22	1.61	0.81
2:zh:86:ARG:HD3	2:zh:106:ARG:HH22	1.44	0.81
2:th:54:GLU:HG2	2:th:69:VAL:HG22	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dh:86:ARG:HD3	2:dh:106:ARG:HH22	1.44	0.80
2:jh:54:GLU:HG2	2:jh:69:VAL:HG22	1.61	0.80
2:kh:86:ARG:HD3	2:kh:106:ARG:HH22	1.44	0.80
2:qh:54:GLU:HG2	2:qh:69:VAL:HG22	1.61	0.80
2:Ph:86:ARG:HD3	2:Ph:106:ARG:HH22	1.44	0.80
2:Rh:86:ARG:HD3	2:Rh:106:ARG:HH22	1.44	0.80
2:Bh:54:GLU:HG2	2:Bh:69:VAL:HG22	1.61	0.80
2:Eh:54:GLU:HG2	2:Eh:69:VAL:HG22	1.61	0.80
2:Vh:86:ARG:HD3	2:Vh:106:ARG:HH22	1.44	0.80
2:3h:81:ASP:O	2:3h:84:LYS:HG3	1.79	0.80
2:5h:81:ASP:O	2:5h:84:LYS:HG3	1.79	0.80
2:Ch:54:GLU:HG2	2:Ch:69:VAL:HG22	1.61	0.80
2:Kh:81:ASP:HA	2:Kh:84:LYS:HG3	1.64	0.80
2:Th:114:TYR:HD1	2:Th:142:GLN:HA	1.47	0.80
2:3h:114:TYR:HD1	2:3h:142:GLN:HA	1.47	0.80
2:lh:81:ASP:HA	2:lh:84:LYS:HG3	1.64	0.80
2:wh:86:ARG:HD3	2:wh:106:ARG:HH22	1.44	0.80
2:Eh:81:ASP:OD2	2:Eh:84:LYS:HD2	1.82	0.80
2:Fh:81:ASP:OD2	2:Fh:84:LYS:HD2	1.82	0.80
2:Sh:81:ASP:HA	2:Sh:84:LYS:HG3	1.64	0.80
2:Wh:81:ASP:OD2	2:Wh:84:LYS:HD2	1.82	0.80
2:2h:114:TYR:HD1	2:2h:142:GLN:HA	1.47	0.80
2:5h:114:TYR:HD1	2:5h:142:GLN:HA	1.47	0.80
2:6h:114:TYR:HD1	2:6h:142:GLN:HA	1.47	0.80
2:gh:114:TYR:HD1	2:gh:142:GLN:HA	1.47	0.80
2:uh:54:GLU:HG2	2:uh:69:VAL:HG22	1.61	0.80
2:xh:81:ASP:HA	2:xh:84:LYS:HG3	1.64	0.80
2:xh:114:TYR:HD1	2:xh:142:GLN:HA	1.47	0.80
2:Ah:81:ASP:HA	2:Ah:84:LYS:HG3	1.64	0.80
2:Bh:114:TYR:HD1	2:Bh:142:GLN:HA	1.47	0.80
2:Hh:81:ASP:OD2	2:Hh:84:LYS:HD2	1.82	0.80
2:Jh:54:GLU:HG2	2:Jh:69:VAL:HG22	1.61	0.80
2:Kh:114:TYR:HD1	2:Kh:142:GLN:HA	1.47	0.80
2:Vh:81:ASP:HA	2:Vh:84:LYS:HG3	1.64	0.80
2:1h:86:ARG:HD3	2:1h:106:ARG:HH22	1.44	0.80
2:1h:114:TYR:HD1	2:1h:142:GLN:HA	1.47	0.80
2:ah:54:GLU:HG2	2:ah:69:VAL:HG22	1.61	0.80
2:jh:81:ASP:HA	2:jh:84:LYS:HG3	1.64	0.80
2:mh:114:TYR:HD1	2:mh:142:GLN:HA	1.47	0.80
2:oh:81:ASP:HA	2:oh:84:LYS:HG3	1.64	0.80
2:qh:81:ASP:OD2	2:qh:84:LYS:HD2	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:sh:81:ASP:OD2	2:sh:84:LYS:HD2	1.82	0.80
2:uh:81:ASP:HA	2:uh:84:LYS:HG3	1.64	0.80
2:yh:81:ASP:OD2	2:yh:84:LYS:HD2	1.82	0.80
2:yh:114:TYR:HD1	2:yh:142:GLN:HA	1.47	0.80
2:zh:81:ASP:OD2	2:zh:84:LYS:HD2	1.82	0.80
2:Bh:81:ASP:HA	2:Bh:84:LYS:HG3	1.64	0.80
2:Bh:81:ASP:OD2	2:Bh:84:LYS:HD2	1.82	0.80
2:Dh:81:ASP:OD2	2:Dh:84:LYS:HD2	1.82	0.80
2:Fh:54:GLU:HG2	2:Fh:69:VAL:HG22	1.61	0.80
2:Gh:81:ASP:OD2	2:Gh:84:LYS:HD2	1.82	0.80
2:Ih:81:ASP:HA	2:Ih:84:LYS:HG3	1.64	0.80
2:Uh:114:TYR:HD1	2:Uh:142:GLN:HA	1.47	0.80
2:Wh:114:TYR:HD1	2:Wh:142:GLN:HA	1.47	0.80
2:ch:114:TYR:HD1	2:ch:142:GLN:HA	1.47	0.80
2:eh:81:ASP:OD2	2:eh:84:LYS:HD2	1.82	0.80
2:jh:86:ARG:HD3	2:jh:106:ARG:HH22	1.44	0.80
2:ph:81:ASP:HA	2:ph:84:LYS:HG3	1.64	0.80
2:sh:54:GLU:HG2	2:sh:69:VAL:HG22	1.61	0.80
2:uh:114:TYR:HD1	2:uh:142:GLN:HA	1.47	0.80
2:wh:114:TYR:HD1	2:wh:142:GLN:HA	1.47	0.80
2:zh:114:TYR:HD1	2:zh:142:GLN:HA	1.47	0.80
2:Hh:114:TYR:HD1	2:Hh:142:GLN:HA	1.47	0.80
2:Xh:114:TYR:HD1	2:Xh:142:GLN:HA	1.47	0.80
2:Zh:81:ASP:OD2	2:Zh:84:LYS:HD2	1.82	0.80
2:bh:81:ASP:HA	2:bh:84:LYS:HG3	1.64	0.80
2:nh:81:ASP:OD2	2:nh:84:LYS:HD2	1.82	0.80
2:uh:81:ASP:OD2	2:uh:84:LYS:HD2	1.82	0.80
2:vh:54:GLU:HG2	2:vh:69:VAL:HG22	1.61	0.80
2:8h:81:ASP:OD2	2:8h:84:LYS:HD2	1.82	0.80
2:Fh:81:ASP:HA	2:Fh:84:LYS:HG3	1.64	0.80
2:Ih:81:ASP:OD2	2:Ih:84:LYS:HD2	1.82	0.80
2:Lh:81:ASP:HA	2:Lh:84:LYS:HG3	1.64	0.80
2:Lh:114:TYR:HD1	2:Lh:142:GLN:HA	1.47	0.80
2:Mh:81:ASP:HA	2:Mh:84:LYS:HG3	1.64	0.80
2:Nh:81:ASP:OD2	2:Nh:84:LYS:HD2	1.82	0.80
2:Nh:114:TYR:HD1	2:Nh:142:GLN:HA	1.47	0.80
2:Ph:81:ASP:OD2	2:Ph:84:LYS:HD2	1.82	0.80
2:4h:81:ASP:OD2	2:4h:84:LYS:HD2	1.82	0.80
2:hh:81:ASP:OD2	2:hh:84:LYS:HD2	1.82	0.80
2:oh:81:ASP:OD2	2:oh:84:LYS:HD2	1.82	0.80
2:th:114:TYR:HD1	2:th:142:GLN:HA	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3h:81:ASP:OD2	2:3h:84:LYS:HD2	1.82	0.80
2:ch:81:ASP:OD2	2:ch:84:LYS:HD2	1.82	0.80
2:dh:81:ASP:OD2	2:dh:84:LYS:HD2	1.82	0.80
2:ih:114:TYR:HD1	2:ih:142:GLN:HA	1.47	0.80
2:sh:81:ASP:HA	2:sh:84:LYS:HG3	1.64	0.80
2:th:81:ASP:HA	2:th:84:LYS:HG3	1.64	0.80
2:Ah:114:TYR:HD1	2:Ah:142:GLN:HA	1.47	0.79
2:Gh:114:TYR:HD1	2:Gh:142:GLN:HA	1.47	0.79
2:Nh:81:ASP:HA	2:Nh:84:LYS:HG3	1.64	0.79
2:Xh:81:ASP:OD2	2:Xh:84:LYS:HD2	1.82	0.79
2:3h:81:ASP:HA	2:3h:84:LYS:HG3	1.64	0.79
2:5h:81:ASP:OD2	2:5h:84:LYS:HD2	1.82	0.79
2:ph:114:TYR:HD1	2:ph:142:GLN:HA	1.47	0.79
2:zh:81:ASP:HA	2:zh:84:LYS:HG3	1.64	0.79
2:7h:114:TYR:HD1	2:7h:142:GLN:HA	1.47	0.79
2:Dh:81:ASP:HA	2:Dh:84:LYS:HG3	1.64	0.79
2:Mh:114:TYR:HD1	2:Mh:142:GLN:HA	1.47	0.79
2:Wh:81:ASP:HA	2:Wh:84:LYS:HG3	1.64	0.79
2:Yh:81:ASP:OD2	2:Yh:84:LYS:HD2	1.82	0.79
2:bh:114:TYR:HD1	2:bh:142:GLN:HA	1.47	0.79
2:ih:81:ASP:OD2	2:ih:84:LYS:HD2	1.82	0.79
2:lh:81:ASP:OD2	2:lh:84:LYS:HD2	1.82	0.79
2:7h:81:ASP:OD2	2:7h:84:LYS:HD2	1.82	0.79
2:Yh:114:TYR:HD1	2:Yh:142:GLN:HA	1.47	0.79
2:5h:81:ASP:HA	2:5h:84:LYS:HG3	1.64	0.79
2:ch:81:ASP:HA	2:ch:84:LYS:HG3	1.64	0.79
2:eh:81:ASP:HA	2:eh:84:LYS:HG3	1.64	0.79
2:mh:81:ASP:OD2	2:mh:84:LYS:HD2	1.82	0.79
2:nh:114:TYR:HD1	2:nh:142:GLN:HA	1.47	0.79
2:Oh:81:ASP:HA	2:Oh:84:LYS:HG3	1.64	0.79
2:Sh:81:ASP:OD2	2:Sh:84:LYS:HD2	1.82	0.79
2:Uh:81:ASP:HA	2:Uh:84:LYS:HG3	1.64	0.79
2:Uh:81:ASP:OD2	2:Uh:84:LYS:HD2	1.82	0.79
2:fh:81:ASP:HA	2:fh:84:LYS:HG3	1.64	0.79
2:Zh:81:ASP:HA	2:Zh:84:LYS:HG3	1.64	0.79
2:2h:81:ASP:HA	2:2h:84:LYS:HG3	1.64	0.79
2:ah:114:TYR:HD1	2:ah:142:GLN:HA	1.47	0.79
2:oh:114:TYR:HD1	2:oh:142:GLN:HA	1.47	0.79
2:Th:81:ASP:OD2	2:Th:84:LYS:HD2	1.82	0.79
2:6h:81:ASP:HA	2:6h:84:LYS:HG3	1.64	0.79
2:gh:81:ASP:OD2	2:gh:84:LYS:HD2	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mh:81:ASP:HA	2:mh:84:LYS:HG3	1.64	0.79
2:Ch:114:TYR:HD1	2:Ch:142:GLN:HA	1.47	0.79
2:Ih:114:TYR:HD1	2:Ih:142:GLN:HA	1.47	0.79
2:Mh:81:ASP:OD2	2:Mh:84:LYS:HD2	1.82	0.79
2:Qh:54:GLU:HG2	2:Qh:69:VAL:HG22	1.61	0.79
2:lh:81:ASP:OD2	2:lh:84:LYS:HD2	1.82	0.79
2:ah:81:ASP:HA	2:ah:84:LYS:HG3	1.64	0.79
1:r:423:SER:CB	1:r:728:THR:CG2	2.61	0.79
2:bh:81:ASP:OD2	2:bh:84:LYS:HD2	1.82	0.79
2:ph:81:ASP:OD2	2:ph:84:LYS:HD2	1.82	0.79
2:rh:54:GLU:HG2	2:rh:69:VAL:HG22	1.61	0.79
2:th:81:ASP:OD2	2:th:84:LYS:HD2	1.82	0.79
2:vh:81:ASP:OD2	2:vh:84:LYS:HD2	1.82	0.79
2:8h:81:ASP:HA	2:8h:84:LYS:HG3	1.64	0.79
2:8h:114:TYR:HD1	2:8h:142:GLN:HA	1.47	0.79
1:E:423:SER:CB	1:E:728:THR:CG2	2.61	0.79
1:Q:423:SER:CB	1:Q:728:THR:CG2	2.61	0.79
1:q:423:SER:CB	1:q:728:THR:CG2	2.61	0.79
2:Ch:81:ASP:HA	2:Ch:84:LYS:HG3	1.64	0.79
2:Rh:114:TYR:HD1	2:Rh:142:GLN:HA	1.47	0.79
2:Xh:81:ASP:HA	2:Xh:84:LYS:HG3	1.64	0.79
2:jh:81:ASP:OD2	2:jh:84:LYS:HD2	1.82	0.79
2:kh:114:TYR:HD1	2:kh:142:GLN:HA	1.47	0.79
2:wh:81:ASP:OD2	2:wh:84:LYS:HD2	1.82	0.79
1:R:423:SER:CB	1:R:728:THR:CG2	2.61	0.79
1:k:423:SER:CB	1:k:728:THR:CG2	2.61	0.79
2:Ah:81:ASP:OD2	2:Ah:84:LYS:HD2	1.82	0.79
2:Jh:81:ASP:OD2	2:Jh:84:LYS:HD2	1.82	0.79
2:Kh:81:ASP:OD2	2:Kh:84:LYS:HD2	1.82	0.79
2:Lh:81:ASP:OD2	2:Lh:84:LYS:HD2	1.82	0.79
2:Oh:114:TYR:HD1	2:Oh:142:GLN:HA	1.47	0.79
2:Zh:114:TYR:HD1	2:Zh:142:GLN:HA	1.47	0.79
1:M:423:SER:CB	1:M:728:THR:CG2	2.61	0.78
1:b:423:SER:CB	1:b:728:THR:CG2	2.61	0.78
1:7:423:SER:CB	1:7:728:THR:CG2	2.61	0.78
2:Jh:25:GLU:OE2	2:Jh:141:GLY:HA3	1.83	0.78
2:Vh:81:ASP:OD2	2:Vh:84:LYS:HD2	1.82	0.78
2:4h:25:GLU:OE2	2:4h:141:GLY:HA3	1.83	0.78
2:fh:114:TYR:HD1	2:fh:142:GLN:HA	1.47	0.78
2:ih:81:ASP:HA	2:ih:84:LYS:HG3	1.64	0.78
2:kh:25:GLU:OE2	2:kh:141:GLY:HA3	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kh:81:ASP:HA	2:kh:84:LYS:HG3	1.64	0.78
2:xh:81:ASP:OD2	2:xh:84:LYS:HD2	1.82	0.78
1:H:423:SER:CB	1:H:728:THR:CG2	2.61	0.78
1:W:423:SER:CB	1:W:728:THR:CG2	2.61	0.78
1:Y:423:SER:CB	1:Y:728:THR:CG2	2.61	0.78
1:3:423:SER:CB	1:3:728:THR:CG2	2.61	0.78
1:5:423:SER:CB	1:5:728:THR:CG2	2.61	0.78
1:z:423:SER:CB	1:z:728:THR:CG2	2.61	0.78
2:Ch:81:ASP:OD2	2:Ch:84:LYS:HD2	1.82	0.78
2:Kh:25:GLU:OE2	2:Kh:141:GLY:HA3	1.83	0.78
2:Ph:25:GLU:OE2	2:Ph:141:GLY:HA3	1.84	0.78
2:Rh:25:GLU:OE2	2:Rh:141:GLY:HA3	1.84	0.78
2:Rh:81:ASP:HA	2:Rh:84:LYS:HG3	1.64	0.78
2:Sh:114:TYR:HD1	2:Sh:142:GLN:HA	1.47	0.78
2:Wh:25:GLU:OE2	2:Wh:141:GLY:HA3	1.84	0.78
2:ah:81:ASP:OD2	2:ah:84:LYS:HD2	1.82	0.78
2:hh:25:GLU:OE2	2:hh:141:GLY:HA3	1.84	0.78
2:qh:25:GLU:OE2	2:qh:141:GLY:HA3	1.83	0.78
2:qh:114:TYR:HD1	2:qh:142:GLN:HA	1.47	0.78
2:rh:81:ASP:OD2	2:rh:84:LYS:HD2	1.82	0.78
1:v:423:SER:CB	1:v:728:THR:CG2	2.61	0.78
1:y:423:SER:CB	1:y:728:THR:CG2	2.61	0.78
2:Ch:25:GLU:OE2	2:Ch:141:GLY:HA3	1.83	0.78
2:Eh:25:GLU:OE2	2:Eh:141:GLY:HA3	1.83	0.78
2:Qh:81:ASP:OD2	2:Qh:84:LYS:HD2	1.82	0.78
2:Xh:25:GLU:OE2	2:Xh:141:GLY:HA3	1.83	0.78
2:4h:81:ASP:HA	2:4h:84:LYS:HG3	1.64	0.78
2:dh:25:GLU:OE2	2:dh:141:GLY:HA3	1.84	0.78
2:eh:114:TYR:HD1	2:eh:142:GLN:HA	1.47	0.78
2:lh:114:TYR:HD1	2:lh:142:GLN:HA	1.47	0.78
2:ph:25:GLU:OE2	2:ph:141:GLY:HA3	1.83	0.78
2:vh:25:GLU:OE2	2:vh:141:GLY:HA3	1.84	0.78
2:xh:25:GLU:OE2	2:xh:141:GLY:HA3	1.84	0.78
1:D:423:SER:CB	1:D:728:THR:CG2	2.61	0.78
1:J:423:SER:CB	1:J:728:THR:CG2	2.61	0.78
1:e:423:SER:CB	1:e:728:THR:CG2	2.61	0.78
2:Eh:114:TYR:HD1	2:Eh:142:GLN:HA	1.47	0.78
2:Yh:25:GLU:OE2	2:Yh:141:GLY:HA3	1.84	0.78
2:2h:25:GLU:OE2	2:2h:141:GLY:HA3	1.83	0.78
2:6h:25:GLU:OE2	2:6h:141:GLY:HA3	1.83	0.78
2:ah:25:GLU:OE2	2:ah:141:GLY:HA3	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fh:25:GLU:OE2	2:fh:141:GLY:HA3	1.83	0.78
2:ih:25:GLU:OE2	2:ih:141:GLY:HA3	1.83	0.78
2:kh:81:ASP:OD2	2:kh:84:LYS:HD2	1.82	0.78
2:zh:25:GLU:OE2	2:zh:141:GLY:HA3	1.84	0.78
2:7h:81:ASP:HA	2:7h:84:LYS:HG3	1.64	0.78
3:al:53:THR:CG2	3:al:71:SER:HA	2.14	0.78
1:B:423:SER:CB	1:B:728:THR:CG2	2.61	0.78
1:1:423:SER:CB	1:1:728:THR:CG2	2.61	0.78
1:f:423:SER:CB	1:f:728:THR:CG2	2.61	0.78
1:u:423:SER:CB	1:u:728:THR:CG2	2.61	0.78
1:w:423:SER:CB	1:w:728:THR:CG2	2.61	0.78
2:Ah:25:GLU:OE2	2:Ah:141:GLY:HA3	1.83	0.78
2:Jh:114:TYR:HD1	2:Jh:142:GLN:HA	1.47	0.78
2:Oh:25:GLU:OE2	2:Oh:141:GLY:HA3	1.84	0.78
2:Qh:114:TYR:HD1	2:Qh:142:GLN:HA	1.47	0.78
2:Rh:81:ASP:OD2	2:Rh:84:LYS:HD2	1.82	0.78
2:Yh:81:ASP:HA	2:Yh:84:LYS:HG3	1.64	0.78
2:hh:114:TYR:HD1	2:hh:142:GLN:HA	1.47	0.78
2:oh:25:GLU:OE2	2:oh:141:GLY:HA3	1.83	0.78
2:7h:25:GLU:OE2	2:7h:141:GLY:HA3	1.84	0.78
3:Cl:53:THR:CG2	3:Cl:71:SER:HA	2.14	0.78
1:O:423:SER:CB	1:O:728:THR:CG2	2.61	0.78
1:l:423:SER:CB	1:l:728:THR:CG2	2.61	0.78
2:Dh:114:TYR:HD1	2:Dh:142:GLN:HA	1.47	0.78
2:Qh:81:ASP:HA	2:Qh:84:LYS:HG3	1.64	0.78
3:cl:53:THR:CG2	3:cl:71:SER:HA	2.14	0.78
1:C:423:SER:CB	1:C:728:THR:CG2	2.61	0.78
1:I:423:SER:CB	1:I:728:THR:CG2	2.61	0.78
1:N:423:SER:CB	1:N:728:THR:CG2	2.61	0.78
1:S:423:SER:CB	1:S:728:THR:CG2	2.61	0.78
1:2:423:SER:CB	1:2:728:THR:CG2	2.61	0.78
1:c:423:SER:CB	1:c:728:THR:CG2	2.61	0.78
2:Ih:25:GLU:OE2	2:Ih:141:GLY:HA3	1.83	0.78
2:2h:81:ASP:OD2	2:2h:84:LYS:HD2	1.82	0.78
2:6h:81:ASP:OD2	2:6h:84:LYS:HD2	1.82	0.78
2:hh:81:ASP:HA	2:hh:84:LYS:HG3	1.64	0.78
2:rh:81:ASP:HA	2:rh:84:LYS:HG3	1.64	0.78
2:sh:114:TYR:HD1	2:sh:142:GLN:HA	1.47	0.78
2:th:25:GLU:OE2	2:th:141:GLY:HA3	1.83	0.78
2:vh:114:TYR:HD1	2:vh:142:GLN:HA	1.47	0.78
3:Nl:53:THR:CG2	3:Nl:71:SER:HA	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:423:SER:CB	1:K:728:THR:CG2	2.61	0.78
1:6:423:SER:CB	1:6:728:THR:CG2	2.61	0.78
1:a:423:SER:CB	1:a:728:THR:CG2	2.61	0.78
1:o:423:SER:CB	1:o:728:THR:CG2	2.61	0.78
2:Lh:25:GLU:OE2	2:Lh:141:GLY:HA3	1.84	0.78
2:rh:114:TYR:HD1	2:rh:142:GLN:HA	1.47	0.78
3:6l:53:THR:CG2	3:6l:71:SER:HA	2.14	0.78
1:P:423:SER:CB	1:P:728:THR:CG2	2.61	0.78
1:d:423:SER:CB	1:d:728:THR:CG2	2.61	0.78
1:x:423:SER:CB	1:x:728:THR:CG2	2.61	0.78
2:Fh:114:TYR:HD1	2:Fh:142:GLN:HA	1.47	0.78
2:Gh:25:GLU:OE2	2:Gh:141:GLY:HA3	1.83	0.78
2:Oh:81:ASP:OD2	2:Oh:84:LYS:HD2	1.82	0.78
2:4h:114:TYR:HD1	2:4h:142:GLN:HA	1.47	0.78
2:nh:25:GLU:OE2	2:nh:141:GLY:HA3	1.83	0.78
3:Yl:53:THR:CG2	3:Yl:71:SER:HA	2.14	0.78
3:2l:53:THR:CG2	3:2l:71:SER:HA	2.14	0.78
3:7l:53:THR:CG2	3:7l:71:SER:HA	2.14	0.78
1:T:423:SER:CB	1:T:728:THR:CG2	2.61	0.78
2:Hh:81:ASP:HA	2:Hh:84:LYS:HG3	1.64	0.78
2:Ph:114:TYR:HD1	2:Ph:142:GLN:HA	1.47	0.78
2:fh:81:ASP:OD2	2:fh:84:LYS:HD2	1.82	0.78
3:Sl:53:THR:CG2	3:Sl:71:SER:HA	2.14	0.78
3:Zl:53:THR:CG2	3:Zl:71:SER:HA	2.14	0.78
3:ll:53:THR:CG2	3:ll:71:SER:HA	2.14	0.78
3:8l:53:THR:CG2	3:8l:71:SER:HA	2.14	0.78
1:U:423:SER:CB	1:U:728:THR:CG2	2.61	0.77
1:h:423:SER:CB	1:h:728:THR:CG2	2.61	0.77
1:j:423:SER:CB	1:j:728:THR:CG2	2.61	0.77
1:t:423:SER:CB	1:t:728:THR:CG2	2.61	0.77
2:Eh:81:ASP:HA	2:Eh:84:LYS:HG3	1.64	0.77
2:Zh:25:GLU:OE2	2:Zh:141:GLY:HA3	1.83	0.77
2:yh:81:ASP:HA	2:yh:84:LYS:HG3	1.64	0.77
1:A:423:SER:CB	1:A:728:THR:CG2	2.61	0.77
1:G:423:SER:CB	1:G:728:THR:CG2	2.61	0.77
1:V:423:SER:CB	1:V:728:THR:CG2	2.61	0.77
1:g:423:SER:CB	1:g:728:THR:CG2	2.61	0.77
1:m:423:SER:CB	1:m:728:THR:CG2	2.61	0.77
2:Bh:25:GLU:OE2	2:Bh:141:GLY:HA3	1.84	0.77
2:Th:25:GLU:OE2	2:Th:141:GLY:HA3	1.83	0.77
2:Th:81:ASP:HA	2:Th:84:LYS:HG3	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lh:25:GLU:OE2	2:lh:141:GLY:HA3	1.84	0.77
2:qh:81:ASP:HA	2:qh:84:LYS:HG3	1.64	0.77
2:rh:25:GLU:OE2	2:rh:141:GLY:HA3	1.83	0.77
2:8h:25:GLU:OE2	2:8h:141:GLY:HA3	1.84	0.77
1:F:423:SER:CB	1:F:728:THR:CG2	2.61	0.77
1:L:423:SER:CB	1:L:728:THR:CG2	2.61	0.77
1:4:423:SER:CB	1:4:728:THR:CG2	2.61	0.77
1:n:423:SER:CB	1:n:728:THR:CG2	2.61	0.77
1:p:423:SER:CB	1:p:728:THR:CG2	2.61	0.77
2:Gh:81:ASP:HA	2:Gh:84:LYS:HG3	1.64	0.77
2:1h:81:ASP:HA	2:1h:84:LYS:HG3	1.64	0.77
2:dh:114:TYR:HD1	2:dh:142:GLN:HA	1.47	0.77
2:nh:81:ASP:HA	2:nh:84:LYS:HG3	1.64	0.77
2:wh:25:GLU:OE2	2:wh:141:GLY:HA3	1.83	0.77
3:Dl:53:THR:CG2	3:Dl:71:SER:HA	2.14	0.77
3:dl:53:THR:CG2	3:dl:71:SER:HA	2.14	0.77
1:i:423:SER:CB	1:i:728:THR:CG2	2.61	0.77
1:s:423:SER:CB	1:s:728:THR:CG2	2.61	0.77
1:8:423:SER:CB	1:8:728:THR:CG2	2.61	0.77
2:Dh:25:GLU:OE2	2:Dh:141:GLY:HA3	1.84	0.77
2:Qh:25:GLU:OE2	2:Qh:141:GLY:HA3	1.83	0.77
2:Sh:25:GLU:OE2	2:Sh:141:GLY:HA3	1.84	0.77
2:bh:25:GLU:OE2	2:bh:141:GLY:HA3	1.83	0.77
2:eh:25:GLU:OE2	2:eh:141:GLY:HA3	1.84	0.77
2:gh:25:GLU:OE2	2:gh:141:GLY:HA3	1.84	0.77
2:gh:81:ASP:HA	2:gh:84:LYS:HG3	1.64	0.77
2:jh:114:TYR:HD1	2:jh:142:GLN:HA	1.47	0.77
2:uh:25:GLU:OE2	2:uh:141:GLY:HA3	1.84	0.77
2:wh:81:ASP:HA	2:wh:84:LYS:HG3	1.64	0.77
3:Fl:53:THR:CG2	3:Fl:71:SER:HA	2.14	0.77
3:el:53:THR:CG2	3:el:71:SER:HA	2.14	0.77
1:X:423:SER:CB	1:X:728:THR:CG2	2.61	0.77
1:Z:423:SER:CB	1:Z:728:THR:CG2	2.61	0.77
2:1h:25:GLU:OE2	2:1h:141:GLY:HA3	1.83	0.77
3:Pl:53:THR:CG2	3:Pl:71:SER:HA	2.14	0.77
3:vl:53:THR:CG2	3:vl:71:SER:HA	2.14	0.77
3:vl:54:VAL:H	3:vl:72:ASN:HD21	1.33	0.77
2:Mh:25:GLU:OE2	2:Mh:141:GLY:HA3	1.83	0.77
2:Ph:81:ASP:HA	2:Ph:84:LYS:HG3	1.64	0.77
2:3h:25:GLU:OE2	2:3h:141:GLY:HA3	1.83	0.77
2:3h:63:GLY:CA	3:3l:108:TYR:OH	2.31	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5h:63:GLY:CA	3:5l:108:TYR:OH	2.31	0.77
2:dh:81:ASP:HA	2:dh:84:LYS:HG3	1.64	0.77
3:Jl:53:THR:CG2	3:Jl:71:SER:HA	2.14	0.77
3:Nl:54:VAL:H	3:Nl:72:ASN:HD21	1.33	0.77
3:Rl:53:THR:CG2	3:Rl:71:SER:HA	2.14	0.77
3:cl:54:VAL:H	3:cl:72:ASN:HD21	1.33	0.77
3:kl:54:VAL:H	3:kl:72:ASN:HD21	1.33	0.77
3:sl:53:THR:CG2	3:sl:71:SER:HA	2.14	0.77
3:xl:53:THR:CG2	3:xl:71:SER:HA	2.14	0.77
2:sh:63:GLY:HA2	3:sl:108:TYR:CZ	2.20	0.77
3:Jl:54:VAL:H	3:Jl:72:ASN:HD21	1.33	0.77
3:Kl:53:THR:CG2	3:Kl:71:SER:HA	2.14	0.77
3:Vl:53:THR:CG2	3:Vl:71:SER:HA	2.14	0.77
3:jl:53:THR:CG2	3:jl:71:SER:HA	2.14	0.77
3:kl:53:THR:CG2	3:kl:71:SER:HA	2.14	0.77
2:Fh:25:GLU:OE2	2:Fh:141:GLY:HA3	1.84	0.77
2:Vh:25:GLU:OE2	2:Vh:141:GLY:HA3	1.83	0.77
2:Vh:114:TYR:HD1	2:Vh:142:GLN:HA	1.47	0.77
2:4h:63:GLY:HA2	3:4l:108:TYR:CZ	2.20	0.77
2:mh:25:GLU:OE2	2:mh:141:GLY:HA3	1.83	0.77
2:sh:25:GLU:OE2	2:sh:141:GLY:HA3	1.83	0.77
3:Al:54:VAL:H	3:Al:72:ASN:HD21	1.33	0.77
3:Ml:53:THR:CG2	3:Ml:71:SER:HA	2.14	0.77
3:Rl:54:VAL:H	3:Rl:72:ASN:HD21	1.33	0.77
3:3l:53:THR:CG2	3:3l:71:SER:HA	2.14	0.77
3:wl:53:THR:CG2	3:wl:71:SER:HA	2.14	0.77
2:5h:25:GLU:OE2	2:5h:141:GLY:HA3	1.84	0.77
3:1l:53:THR:CG2	3:1l:71:SER:HA	2.14	0.77
3:5l:53:THR:CG2	3:5l:71:SER:HA	2.14	0.77
3:6l:54:VAL:H	3:6l:72:ASN:HD21	1.33	0.77
3:il:54:VAL:H	3:il:72:ASN:HD21	1.33	0.77
3:ol:53:THR:CG2	3:ol:71:SER:HA	2.14	0.77
2:Uh:25:GLU:OE2	2:Uh:141:GLY:HA3	1.84	0.77
2:3h:63:GLY:HA2	3:3l:108:TYR:CZ	2.19	0.77
2:5h:63:GLY:HA2	3:5l:108:TYR:CZ	2.19	0.77
2:6h:63:GLY:HA2	3:6l:108:TYR:CZ	2.19	0.77
2:ch:25:GLU:OE2	2:ch:141:GLY:HA3	1.84	0.77
2:jh:25:GLU:OE2	2:jh:141:GLY:HA3	1.83	0.77
2:vh:81:ASP:HA	2:vh:84:LYS:HG3	1.64	0.77
3:El:53:THR:CG2	3:El:71:SER:HA	2.14	0.77
3:Ml:54:VAL:H	3:Ml:72:ASN:HD21	1.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2l:54:VAL:H	3:2l:72:ASN:HD21	1.33	0.77
3:4l:53:THR:CG2	3:4l:71:SER:HA	2.14	0.77
3:bl:54:VAL:H	3:bl:72:ASN:HD21	1.33	0.77
3:nl:53:THR:CG2	3:nl:71:SER:HA	2.14	0.77
3:ql:53:THR:CG2	3:ql:71:SER:HA	2.14	0.77
2:lh:63:GLY:HA2	3:ll:108:TYR:CZ	2.20	0.76
2:oh:63:GLY:HA2	3:ol:108:TYR:CZ	2.20	0.76
3:Gl:53:THR:CG2	3:Gl:71:SER:HA	2.14	0.76
3:Il:53:THR:CG2	3:Il:71:SER:HA	2.14	0.76
3:Ql:53:THR:CG2	3:Ql:71:SER:HA	2.14	0.76
3:Xl:54:VAL:H	3:Xl:72:ASN:HD21	1.33	0.76
3:bl:53:THR:CG2	3:bl:71:SER:HA	2.14	0.76
3:gl:53:THR:CG2	3:gl:71:SER:HA	2.14	0.76
3:hl:53:THR:CG2	3:hl:71:SER:HA	2.14	0.76
3:pl:54:VAL:H	3:pl:72:ASN:HD21	1.33	0.76
3:rl:53:THR:CG2	3:rl:71:SER:HA	2.14	0.76
2:Nh:25:GLU:OE2	2:Nh:141:GLY:HA3	1.84	0.76
3:Al:53:THR:CG2	3:Al:71:SER:HA	2.14	0.76
2:Hh:25:GLU:OE2	2:Hh:141:GLY:HA3	1.84	0.76
2:Jh:81:ASP:HA	2:Jh:84:LYS:HG3	1.64	0.76
2:2h:63:GLY:HA2	3:2l:108:TYR:CZ	2.19	0.76
2:yh:25:GLU:OE2	2:yh:141:GLY:HA3	1.84	0.76
3:hl:53:THR:CG2	3:hl:71:SER:HA	2.14	0.76
3:tl:53:THR:CG2	3:tl:71:SER:HA	2.14	0.76
3:pl:53:THR:CG2	3:pl:71:SER:HA	2.14	0.76
3:ul:53:THR:CG2	3:ul:71:SER:HA	2.14	0.76
2:Fh:63:GLY:HA2	3:Fl:108:TYR:CZ	2.21	0.76
3:Bl:53:THR:CG2	3:Bl:71:SER:HA	2.14	0.76
3:Wl:53:THR:CG2	3:Wl:71:SER:HA	2.14	0.76
3:yl:53:THR:CG2	3:yl:71:SER:HA	2.14	0.76
3:zl:53:THR:CG2	3:zl:71:SER:HA	2.14	0.76
2:Kh:63:GLY:HA2	3:Kl:108:TYR:CZ	2.21	0.76
2:ih:63:GLY:HA2	3:il:108:TYR:CZ	2.21	0.76
2:wh:63:GLY:CA	3:wl:108:TYR:OH	2.34	0.76
3:Cl:54:VAL:H	3:Cl:72:ASN:HD21	1.33	0.76
3:il:53:THR:CG2	3:il:71:SER:HA	2.14	0.76
2:Nh:63:GLY:HA2	3:Nl:108:TYR:CZ	2.21	0.76
2:lh:63:GLY:CA	3:ll:108:TYR:OH	2.34	0.76
2:xh:63:GLY:HA2	3:xl:108:TYR:CZ	2.21	0.76
3:Xl:53:THR:CG2	3:Xl:71:SER:HA	2.14	0.76
3:al:54:VAL:H	3:al:72:ASN:HD21	1.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Uh:63:GLY:HA2	3:Ul:108:TYR:CZ	2.21	0.76
2:ch:63:GLY:HA2	3:cl:108:TYR:CZ	2.21	0.76
3:Ol:53:THR:CG2	3:Ol:71:SER:HA	2.14	0.76
3:Ql:54:VAL:H	3:Ql:72:ASN:HD21	1.33	0.76
3:fl:53:THR:CG2	3:fl:71:SER:HA	2.14	0.76
3:ml:53:THR:CG2	3:ml:71:SER:HA	2.14	0.76
3:tl:53:THR:CG2	3:tl:71:SER:HA	2.14	0.76
1:3:423:SER:HB2	1:3:728:THR:CG2	2.16	0.76
1:5:423:SER:HB2	1:5:728:THR:CG2	2.16	0.76
2:Th:63:GLY:HA2	3:Tl:108:TYR:CZ	2.21	0.76
2:Xh:63:GLY:HA2	3:Xl:108:TYR:CZ	2.21	0.76
2:gh:63:GLY:HA2	3:gl:108:TYR:CZ	2.21	0.76
2:mh:63:GLY:HA2	3:ml:108:TYR:CZ	2.21	0.76
3:ol:54:VAL:H	3:ol:72:ASN:HD21	1.33	0.76
1:J:423:SER:HB2	1:J:728:THR:CG2	2.16	0.76
1:W:423:SER:HB2	1:W:728:THR:CG2	2.16	0.76
1:Z:423:SER:HB2	1:Z:728:THR:CG2	2.16	0.76
1:z:423:SER:HB2	1:z:728:THR:CG2	2.16	0.76
1:8:423:SER:HB2	1:8:728:THR:CG2	2.16	0.76
2:Lh:63:GLY:HA2	3:Ll:108:TYR:CZ	2.21	0.76
2:th:63:GLY:HA2	3:tl:108:TYR:CZ	2.21	0.76
2:8h:63:GLY:HA2	3:8l:108:TYR:CZ	2.21	0.76
3:Ll:53:THR:CG2	3:Ll:71:SER:HA	2.14	0.76
3:Ul:53:THR:CG2	3:Ul:71:SER:HA	2.14	0.76
3:ml:54:VAL:H	3:ml:72:ASN:HD21	1.33	0.76
3:rl:54:VAL:H	3:rl:72:ASN:HD21	1.33	0.76
1:c:423:SER:HB2	1:c:728:THR:CG2	2.16	0.76
1:s:423:SER:HB2	1:s:728:THR:CG2	2.16	0.76
1:v:423:SER:HB2	1:v:728:THR:CG2	2.16	0.76
2:Eh:63:GLY:HA2	3:El:108:TYR:CZ	2.21	0.76
2:Kh:63:GLY:CA	3:Kl:108:TYR:OH	2.34	0.76
2:Zh:63:GLY:HA2	3:Zl:108:TYR:CZ	2.21	0.76
2:lh:63:GLY:HA2	3:ll:108:TYR:CZ	2.20	0.76
2:fh:63:GLY:HA2	3:fl:108:TYR:CZ	2.21	0.76
2:qh:63:GLY:HA2	3:ql:108:TYR:CZ	2.21	0.76
2:xh:63:GLY:CA	3:xl:108:TYR:OH	2.34	0.76
3:Il:54:VAL:H	3:Il:72:ASN:HD21	1.33	0.76
1:N:423:SER:HB2	1:N:728:THR:CG2	2.16	0.75
1:V:423:SER:HB2	1:V:728:THR:CG2	2.16	0.75
1:a:423:SER:HB2	1:a:728:THR:CG2	2.16	0.75
2:Gh:63:GLY:HA2	3:Gl:108:TYR:CZ	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oh:63:GLY:HA2	3:Ol:108:TYR:CZ	2.21	0.75
3:nl:54:VAL:H	3:nl:72:ASN:HD21	1.33	0.75
1:C:423:SER:HB2	1:C:728:THR:CG2	2.16	0.75
1:F:423:SER:HB2	1:F:728:THR:CG2	2.16	0.75
1:R:423:SER:HB2	1:R:728:THR:CG2	2.16	0.75
1:U:423:SER:HB2	1:U:728:THR:CG2	2.16	0.75
1:j:423:SER:HB2	1:j:728:THR:CG2	2.16	0.75
1:m:423:SER:HB2	1:m:728:THR:CG2	2.16	0.75
1:o:423:SER:HB2	1:o:728:THR:CG2	2.16	0.75
2:Yh:63:GLY:HA2	3:Yl:108:TYR:CZ	2.21	0.75
2:4h:63:GLY:CA	3:4l:108:TYR:OH	2.34	0.75
2:nh:63:GLY:HA2	3:nl:108:TYR:CZ	2.21	0.75
2:wh:63:GLY:HA2	3:wl:108:TYR:CZ	2.20	0.75
3:Ul:54:VAL:H	3:Ul:72:ASN:HD21	1.33	0.75
1:I:423:SER:HB2	1:I:728:THR:CG2	2.16	0.75
1:k:423:SER:HB2	1:k:728:THR:CG2	2.16	0.75
2:jh:63:GLY:HA2	3:jl:108:TYR:CZ	2.21	0.75
2:7h:63:GLY:HA2	3:7l:108:TYR:CZ	2.21	0.75
1:O:423:SER:HB2	1:O:728:THR:CG2	2.16	0.75
2:Vh:63:GLY:HA2	3:Vl:108:TYR:CZ	2.21	0.75
2:rh:63:GLY:HA2	3:rl:108:TYR:CZ	2.20	0.75
2:vh:63:GLY:HA2	3:vl:108:TYR:CZ	2.21	0.75
3:Gl:54:VAL:H	3:Gl:72:ASN:HD21	1.33	0.75
1:P:423:SER:HB2	1:P:728:THR:CG2	2.16	0.75
1:f:423:SER:HB2	1:f:728:THR:CG2	2.16	0.75
2:Jh:63:GLY:HA2	3:Jl:108:TYR:CZ	2.21	0.75
2:2h:63:GLY:CA	3:2l:108:TYR:OH	2.31	0.75
2:6h:63:GLY:CA	3:6l:108:TYR:OH	2.31	0.75
2:lh:63:GLY:HA2	3:ll:108:TYR:CZ	2.21	0.75
3:Sl:54:VAL:H	3:Sl:72:ASN:HD21	1.33	0.75
1:D:423:SER:HB2	1:D:728:THR:CG2	2.16	0.75
1:d:423:SER:HB2	1:d:728:THR:CG2	2.16	0.75
1:y:423:SER:HB2	1:y:728:THR:CG2	2.16	0.75
2:Qh:63:GLY:HA2	3:Ql:108:TYR:CZ	2.20	0.75
3:Zl:54:VAL:H	3:Zl:72:ASN:HD21	1.33	0.75
1:G:423:SER:HB2	1:G:728:THR:CG2	2.16	0.75
1:M:423:SER:HB2	1:M:728:THR:CG2	2.16	0.75
1:h:423:SER:HB2	1:h:728:THR:CG2	2.16	0.75
1:n:423:SER:HB2	1:n:728:THR:CG2	2.16	0.75
2:Sh:63:GLY:HA2	3:Sl:108:TYR:CZ	2.21	0.75
1:H:423:SER:HB2	1:H:728:THR:CG2	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:423:SER:HB2	1:S:728:THR:CG2	2.16	0.75
1:4:423:SER:HB2	1:4:728:THR:CG2	2.16	0.75
1:e:423:SER:HB2	1:e:728:THR:CG2	2.16	0.75
2:kh:63:GLY:HA2	3:kl:108:TYR:CZ	2.21	0.75
3:Vl:54:VAL:H	3:Vl:72:ASN:HD21	1.33	0.75
3:ll:54:VAL:H	3:ll:72:ASN:HD21	1.33	0.75
3:8l:54:VAL:H	3:8l:72:ASN:HD21	1.33	0.75
1:b:423:SER:HB2	1:b:728:THR:CG2	2.16	0.75
2:Dh:63:GLY:HA2	3:Dl:108:TYR:CZ	2.21	0.75
2:Rh:63:GLY:HA2	3:Rl:108:TYR:CZ	2.21	0.75
2:gh:63:GLY:CA	3:gl:108:TYR:OH	2.34	0.75
3:jl:54:VAL:H	3:jl:72:ASN:HD21	1.33	0.75
1:Q:423:SER:HB2	1:Q:728:THR:CG2	2.16	0.74
1:2:423:SER:HB2	1:2:728:THR:CG2	2.16	0.74
1:l:423:SER:HB2	1:l:728:THR:CG2	2.16	0.74
1:q:423:SER:HB2	1:q:728:THR:CG2	2.16	0.74
3:El:54:VAL:H	3:El:72:ASN:HD21	1.33	0.74
1:X:423:SER:HB2	1:X:728:THR:CG2	2.16	0.74
1:g:423:SER:HB2	1:g:728:THR:CG2	2.16	0.74
1:i:423:SER:HB2	1:i:728:THR:CG2	2.16	0.74
1:r:423:SER:HB2	1:r:728:THR:CG2	2.16	0.74
1:t:423:SER:HB2	1:t:728:THR:CG2	2.16	0.74
2:Bh:63:GLY:HA2	3:Bl:108:TYR:CZ	2.21	0.74
2:Th:63:GLY:CA	3:Tl:108:TYR:OH	2.34	0.74
2:ph:63:GLY:HA2	3:pl:108:TYR:CZ	2.21	0.74
3:Kl:54:VAL:H	3:Kl:72:ASN:HD21	1.33	0.74
3:ql:54:VAL:H	3:ql:72:ASN:HD21	1.33	0.74
1:E:423:SER:HB2	1:E:728:THR:CG2	2.16	0.74
1:6:423:SER:HB2	1:6:728:THR:CG2	2.16	0.74
2:uh:63:GLY:HA2	3:ul:108:TYR:CZ	2.21	0.74
3:Bl:54:VAL:H	3:Bl:72:ASN:HD21	1.33	0.74
3:xl:54:VAL:H	3:xl:72:ASN:HD21	1.33	0.74
1:L:423:SER:HB2	1:L:728:THR:CG2	2.16	0.74
1:T:423:SER:HB2	1:T:728:THR:CG2	2.16	0.74
2:ah:63:GLY:HA2	3:al:108:TYR:CZ	2.21	0.74
2:hh:63:GLY:HA2	3:hl:108:TYR:CZ	2.22	0.74
2:ph:63:GLY:CA	3:pl:108:TYR:OH	2.34	0.74
3:gl:54:VAL:H	3:gl:72:ASN:HD21	1.33	0.74
3:7l:54:VAL:H	3:7l:72:ASN:HD21	1.33	0.74
1:7:423:SER:HB2	1:7:728:THR:CG2	2.16	0.74
3:Yl:54:VAL:H	3:Yl:72:ASN:HD21	1.33	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:423:SER:HB2	1:A:728:THR:CG2	2.16	0.74
2:Ch:63:GLY:HA2	3:Cl:108:TYR:CZ	2.21	0.74
2:Rh:63:GLY:CA	3:Rl:108:TYR:OH	2.35	0.74
2:Sh:63:GLY:CA	3:Sl:108:TYR:OH	2.35	0.74
2:eh:63:GLY:HA2	3:el:108:TYR:CZ	2.22	0.74
2:oh:63:GLY:CA	3:ol:108:TYR:OH	2.34	0.74
2:uh:63:GLY:CA	3:ul:108:TYR:OH	2.35	0.74
1:Y:423:SER:HB2	1:Y:728:THR:CG2	2.16	0.74
2:Fh:63:GLY:CA	3:Fl:108:TYR:OH	2.33	0.74
2:Mh:63:GLY:HA2	3:Ml:108:TYR:CZ	2.21	0.74
2:lh:63:GLY:CA	3:ll:108:TYR:OH	2.35	0.74
3:Pl:54:VAL:H	3:Pl:72:ASN:HD21	1.33	0.74
3:Tl:54:VAL:H	3:Tl:72:ASN:HD21	1.33	0.74
1:p:423:SER:HB2	1:p:728:THR:CG2	2.16	0.74
2:Ih:63:GLY:CA	3:Il:108:TYR:OH	2.34	0.74
2:Wh:63:GLY:HA2	3:Wl:108:TYR:CZ	2.22	0.74
2:bh:63:GLY:HA2	3:bl:108:TYR:CZ	2.21	0.74
2:zh:63:GLY:HA2	3:zl:108:TYR:CZ	2.21	0.74
3:sl:54:VAL:H	3:sl:72:ASN:HD21	1.33	0.74
3:ul:54:VAL:H	3:ul:72:ASN:HD21	1.33	0.74
2:Bh:63:GLY:CA	3:Bl:108:TYR:OH	2.35	0.74
2:Hh:63:GLY:HA2	3:Hl:108:TYR:CZ	2.21	0.74
3:dl:54:VAL:H	3:dl:72:ASN:HD21	1.33	0.74
3:wl:54:VAL:H	3:wl:72:ASN:HD21	1.33	0.74
3:yl:54:VAL:H	3:yl:72:ASN:HD21	1.33	0.74
2:Ph:63:GLY:HA2	3:Pl:108:TYR:CZ	2.21	0.74
2:Yh:63:GLY:CA	3:Yl:108:TYR:OH	2.35	0.74
2:yh:63:GLY:HA2	3:yl:108:TYR:CZ	2.21	0.74
2:7h:63:GLY:CA	3:7l:108:TYR:OH	2.35	0.74
3:Fl:54:VAL:H	3:Fl:72:ASN:HD21	1.33	0.74
3:1l:54:VAL:H	3:1l:72:ASN:HD21	1.33	0.74
2:dh:63:GLY:HA2	3:dl:108:TYR:CZ	2.21	0.73
2:sh:63:GLY:CA	3:sl:108:TYR:OH	2.33	0.73
3:Hl:54:VAL:H	3:Hl:72:ASN:HD21	1.33	0.73
3:5l:54:VAL:H	3:5l:72:ASN:HD21	1.33	0.73
3:Dl:54:VAL:H	3:Dl:72:ASN:HD21	1.33	0.73
2:jh:63:GLY:CA	3:jl:108:TYR:OH	2.35	0.73
2:Lh:63:GLY:CA	3:Ll:108:TYR:OH	2.35	0.73
2:Vh:63:GLY:CA	3:Vl:108:TYR:OH	2.35	0.73
3:Wl:54:VAL:H	3:Wl:72:ASN:HD21	1.33	0.73
3:3l:54:VAL:H	3:3l:72:ASN:HD21	1.33	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:tl:54:VAL:H	3:tl:72:ASN:HD21	1.33	0.73
2:fh:63:GLY:CA	3:fl:108:TYR:OH	2.35	0.73
3:el:54:VAL:H	3:el:72:ASN:HD21	1.33	0.73
3:zl:54:VAL:H	3:zl:72:ASN:HD21	1.33	0.73
2:Nh:63:GLY:CA	3:Nl:108:TYR:OH	2.35	0.73
2:Oh:63:GLY:CA	3:Ol:108:TYR:OH	2.35	0.73
2:th:63:GLY:CA	3:tl:108:TYR:OH	2.35	0.73
2:Gh:63:GLY:CA	3:Gl:108:TYR:OH	2.35	0.73
3:Ll:54:VAL:H	3:Ll:72:ASN:HD21	1.33	0.73
2:Wh:25:GLU:OE2	2:Wh:141:GLY:C	2.32	0.73
2:ch:63:GLY:CA	3:cl:108:TYR:OH	2.35	0.73
2:hh:63:GLY:CA	3:hl:108:TYR:OH	2.36	0.73
2:Ah:25:GLU:OE2	2:Ah:141:GLY:C	2.32	0.73
2:Gh:25:GLU:OE2	2:Gh:141:GLY:C	2.32	0.73
2:Jh:25:GLU:OE2	2:Jh:141:GLY:C	2.32	0.73
2:Xh:25:GLU:OE2	2:Xh:141:GLY:C	2.32	0.73
2:kh:63:GLY:CA	3:kl:108:TYR:OH	2.35	0.73
2:nh:63:GLY:CA	3:nl:108:TYR:OH	2.35	0.73
2:vh:25:GLU:OE2	2:vh:141:GLY:C	2.32	0.73
2:zh:25:GLU:OE2	2:zh:141:GLY:C	2.32	0.73
2:8h:25:GLU:OE2	2:8h:141:GLY:C	2.32	0.73
2:Mh:63:GLY:CA	3:ml:108:TYR:OH	2.35	0.73
2:Rh:25:GLU:OE2	2:Rh:141:GLY:C	2.32	0.73
2:Zh:25:GLU:OE2	2:Zh:141:GLY:C	2.32	0.73
2:bh:63:GLY:CA	3:bl:108:TYR:OH	2.35	0.73
2:ih:25:GLU:OE2	2:ih:141:GLY:C	2.32	0.73
2:kh:25:GLU:OE2	2:kh:141:GLY:C	2.32	0.73
2:nh:25:GLU:OE2	2:nh:141:GLY:C	2.32	0.73
2:ph:25:GLU:OE2	2:ph:141:GLY:C	2.32	0.73
2:rh:63:GLY:CA	3:rl:108:TYR:OH	2.34	0.73
2:Eh:63:GLY:CA	3:El:108:TYR:OH	2.35	0.72
2:Qh:63:GLY:CA	3:Ql:108:TYR:OH	2.34	0.72
2:Uh:25:GLU:OE2	2:Uh:141:GLY:C	2.32	0.72
2:5h:25:GLU:OE2	2:5h:141:GLY:C	2.32	0.72
2:dh:63:GLY:CA	3:dl:108:TYR:OH	2.35	0.72
2:mh:25:GLU:OE2	2:mh:141:GLY:C	2.32	0.72
2:yh:25:GLU:OE2	2:yh:141:GLY:C	2.32	0.72
1:w:423:SER:HB2	1:w:728:THR:CG2	2.16	0.72
2:Hh:25:GLU:OE2	2:Hh:141:GLY:C	2.32	0.72
2:Qh:25:GLU:OE2	2:Qh:141:GLY:C	2.32	0.72
2:3h:25:GLU:OE2	2:3h:141:GLY:C	2.32	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lh:25:GLU:OE2	2:lh:141:GLY:C	2.32	0.72
2:rh:25:GLU:OE2	2:rh:141:GLY:C	2.32	0.72
2:8h:63:GLY:CA	3:8l:108:TYR:OH	2.35	0.72
2:Ph:63:GLY:CA	3:Pl:108:TYR:OH	2.35	0.72
2:Sh:25:GLU:OE2	2:Sh:141:GLY:C	2.32	0.72
2:Xh:63:GLY:CA	3:Xl:108:TYR:OH	2.35	0.72
2:4h:25:GLU:OE2	2:4h:141:GLY:C	2.32	0.72
2:hh:25:GLU:OE2	2:hh:141:GLY:C	2.32	0.72
2:ih:63:GLY:CA	3:il:108:TYR:OH	2.35	0.72
2:qh:63:GLY:CA	3:ql:108:TYR:OH	2.35	0.72
1:l:423:SER:HB2	1:l:728:THR:CG2	2.16	0.72
2:Ih:25:GLU:OE2	2:Ih:141:GLY:C	2.32	0.72
2:Yh:25:GLU:OE2	2:Yh:141:GLY:C	2.32	0.72
2:Zh:63:GLY:CA	3:Zl:108:TYR:OH	2.35	0.72
2:7h:25:GLU:OE2	2:7h:141:GLY:C	2.32	0.72
3:Ol:54:VAL:H	3:Ol:72:ASN:HD21	1.33	0.72
1:x:423:SER:HB2	1:x:728:THR:CG2	2.16	0.72
2:Ch:25:GLU:OE2	2:Ch:141:GLY:C	2.32	0.72
2:Kh:25:GLU:OE2	2:Kh:141:GLY:C	2.32	0.72
2:ah:25:GLU:OE2	2:ah:141:GLY:C	2.32	0.72
2:oh:25:GLU:OE2	2:oh:141:GLY:C	2.32	0.72
2:xh:25:GLU:OE2	2:xh:141:GLY:C	2.32	0.72
2:Dh:63:GLY:CA	3:Dl:108:TYR:OH	2.35	0.72
2:wh:25:GLU:OE2	2:wh:141:GLY:C	2.32	0.72
3:fl:54:VAL:H	3:fl:72:ASN:HD21	1.33	0.72
1:K:423:SER:HB2	1:K:728:THR:CG2	2.16	0.72
2:lh:25:GLU:OE2	2:lh:141:GLY:C	2.32	0.72
2:vh:63:GLY:CA	3:vl:108:TYR:OH	2.35	0.72
3:hl:54:VAL:H	3:hl:72:ASN:HD21	1.33	0.72
2:Jh:63:GLY:CA	3:Jl:108:TYR:OH	2.35	0.72
2:Mh:25:GLU:OE2	2:Mh:141:GLY:C	2.32	0.72
2:Ah:63:GLY:HA2	3:Al:108:TYR:CZ	2.25	0.72
2:Th:25:GLU:OE2	2:Th:141:GLY:C	2.32	0.72
2:6h:25:GLU:OE2	2:6h:141:GLY:C	2.32	0.72
2:bh:25:GLU:OE2	2:bh:141:GLY:C	2.32	0.72
2:eh:63:GLY:CA	3:el:108:TYR:OH	2.36	0.72
2:gh:25:GLU:OE2	2:gh:141:GLY:C	2.32	0.72
2:sh:25:GLU:OE2	2:sh:141:GLY:C	2.32	0.72
2:Fh:25:GLU:OE2	2:Fh:141:GLY:C	2.32	0.72
2:2h:25:GLU:OE2	2:2h:141:GLY:C	2.32	0.72
2:dh:25:GLU:OE2	2:dh:141:GLY:C	2.32	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:uh:25:GLU:OE2	2:uh:141:GLY:C	2.32	0.71
3:4l:54:VAL:H	3:4l:72:ASN:HD21	1.33	0.71
2:Eh:25:GLU:OE2	2:Eh:141:GLY:C	2.32	0.71
2:Ph:25:GLU:OE2	2:Ph:141:GLY:C	2.32	0.71
2:fh:25:GLU:OE2	2:fh:141:GLY:C	2.32	0.71
2:Oh:25:GLU:OE2	2:Oh:141:GLY:C	2.32	0.71
2:jh:25:GLU:OE2	2:jh:141:GLY:C	2.32	0.71
2:Bh:25:GLU:OE2	2:Bh:141:GLY:C	2.32	0.71
2:Nh:25:GLU:OE2	2:Nh:141:GLY:C	2.32	0.71
2:Vh:25:GLU:OE2	2:Vh:141:GLY:C	2.32	0.71
2:qh:25:GLU:OE2	2:qh:141:GLY:C	2.32	0.71
1:n:295:ASP:OD1	1:n:298:ARG:NH1	2.24	0.71
2:Lh:25:GLU:OE2	2:Lh:141:GLY:C	2.32	0.71
2:ch:25:GLU:OE2	2:ch:141:GLY:C	2.32	0.71
2:th:25:GLU:OE2	2:th:141:GLY:C	2.32	0.71
1:D:381:ASN:ND2	1:D:383:GLY:O	2.24	0.71
1:G:295:ASP:OD1	1:G:298:ARG:NH1	2.24	0.71
1:Z:295:ASP:OD1	1:Z:298:ARG:NH1	2.24	0.71
1:e:381:ASN:ND2	1:e:383:GLY:O	2.24	0.71
1:q:295:ASP:OD1	1:q:298:ARG:NH1	2.24	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:eh:25:GLU:OE2	2:eh:141:GLY:C	2.32	0.71
1:E:295:ASP:OD1	1:E:298:ARG:NH1	2.24	0.71
1:K:295:ASP:OD1	1:K:298:ARG:NH1	2.24	0.71
1:1:295:ASP:OD1	1:1:298:ARG:NH1	2.24	0.71
1:8:295:ASP:OD1	1:8:298:ARG:NH1	2.24	0.71
2:Dh:25:GLU:OE2	2:Dh:141:GLY:C	2.32	0.71
1:L:295:ASP:OD1	1:L:298:ARG:NH1	2.24	0.71
1:R:381:ASN:ND2	1:R:383:GLY:O	2.24	0.71
1:b:295:ASP:OD1	1:b:298:ARG:NH1	2.24	0.71
1:k:381:ASN:ND2	1:k:383:GLY:O	2.24	0.71
2:Uh:63:GLY:CA	3:Ul:108:TYR:OH	2.35	0.71
2:mh:63:GLY:CA	3:ml:108:TYR:OH	2.35	0.71
1:M:295:ASP:OD1	1:M:298:ARG:NH1	2.24	0.70
1:R:295:ASP:OD1	1:R:298:ARG:NH1	2.24	0.70
1:T:489:SER:H	1:T:495:ASN:HD21	1.39	0.70
1:V:295:ASP:OD1	1:V:298:ARG:NH1	2.24	0.70
1:W:489:SER:H	1:W:495:ASN:HD21	1.40	0.70
1:5:489:SER:H	1:5:495:ASN:HD21	1.39	0.70
1:g:295:ASP:OD1	1:g:298:ARG:NH1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:t:295:ASP:OD1	1:t:298:ARG:NH1	2.24	0.70
1:z:489:SER:H	1:z:495:ASN:HD21	1.40	0.70
2:ah:63:GLY:CA	3:al:108:TYR:OH	2.35	0.70
1:N:295:ASP:OD1	1:N:298:ARG:NH1	2.24	0.70
1:T:295:ASP:OD1	1:T:298:ARG:NH1	2.24	0.70
1:Y:489:SER:H	1:Y:495:ASN:HD21	1.39	0.70
1:3:489:SER:H	1:3:495:ASN:HD21	1.39	0.70
1:f:295:ASP:OD1	1:f:298:ARG:NH1	2.24	0.70
1:g:489:SER:H	1:g:495:ASN:HD21	1.39	0.70
2:Ch:63:GLY:CA	3:Cl:108:TYR:OH	2.35	0.70
1:J:295:ASP:OD1	1:J:298:ARG:NH1	2.24	0.70
1:O:295:ASP:OD1	1:O:298:ARG:NH1	2.24	0.70
1:O:489:SER:H	1:O:495:ASN:HD21	1.39	0.70
1:Y:295:ASP:OD1	1:Y:298:ARG:NH1	2.24	0.70
1:c:295:ASP:OD1	1:c:298:ARG:NH1	2.24	0.70
1:f:489:SER:H	1:f:495:ASN:HD21	1.39	0.70
1:S:295:ASP:OD1	1:S:298:ARG:NH1	2.24	0.70
1:3:295:ASP:OD1	1:3:298:ARG:NH1	2.24	0.70
1:6:489:SER:H	1:6:495:ASN:HD21	1.39	0.70
1:v:295:ASP:OD1	1:v:298:ARG:NH1	2.24	0.70
1:x:381:ASN:ND2	1:x:383:GLY:O	2.24	0.70
1:7:295:ASP:OD1	1:7:298:ARG:NH1	2.24	0.70
1:7:489:SER:H	1:7:495:ASN:HD21	1.39	0.70
1:D:489:SER:H	1:D:495:ASN:HD21	1.40	0.70
1:F:295:ASP:OD1	1:F:298:ARG:NH1	2.24	0.70
1:2:489:SER:H	1:2:495:ASN:HD21	1.39	0.70
1:l:295:ASP:OD1	1:l:298:ARG:NH1	2.24	0.70
1:q:489:SER:H	1:q:495:ASN:HD21	1.39	0.70
1:E:489:SER:H	1:E:495:ASN:HD21	1.39	0.70
1:F:489:SER:H	1:F:495:ASN:HD21	1.39	0.70
1:H:295:ASP:OD1	1:H:298:ARG:NH1	2.24	0.70
1:K:381:ASN:ND2	1:K:383:GLY:O	2.24	0.70
1:5:295:ASP:OD1	1:5:298:ARG:NH1	2.24	0.70
1:c:381:ASN:ND2	1:c:383:GLY:O	2.24	0.70
1:e:489:SER:H	1:e:495:ASN:HD21	1.40	0.70
1:s:295:ASP:OD1	1:s:298:ARG:NH1	2.24	0.70
1:t:489:SER:H	1:t:495:ASN:HD21	1.39	0.70
1:u:423:SER:HB2	1:u:728:THR:CG2	2.16	0.70
1:z:295:ASP:OD1	1:z:298:ARG:NH1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bh:114:TYR:CD1	2:bh:142:GLN:HA	2.27	0.70
2:yh:63:GLY:CA	3:yl:108:TYR:OH	2.35	0.70
1:A:295:ASP:OD1	1:A: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:p:295:ASP:OD1	1:p:298:ARG:NH1	2.24	0.70
1:s:489:SER:H	1:s:495:ASN:HD21	1.39	0.70
1:y:295:ASP:OD1	1:y:298:ARG:NH1	2.24	0.70
2:Mh:114:TYR:CD1	2:Mh:142:GLN:HA	2.27	0.70
2:Yh:114:TYR:CD1	2:Yh:142:GLN:HA	2.27	0.70
1:A:489:SER:H	1:A:495:ASN:HD21	1.39	0.70
1:I:295:ASP:OD1	1:I:298:ARG:NH1	2.24	0.70
1:L:489:SER:H	1:L:495:ASN:HD21	1.39	0.70
1:N:381:ASN:ND2	1:N:383:GLY:O	2.24	0.70
1:X:295:ASP:OD1	1:X:298:ARG:NH1	2.24	0.70
1:i:295:ASP:OD1	1:i:298:ARG:NH1	2.24	0.70
2:Fh:114:TYR:CD1	2:Fh:142:GLN:HA	2.27	0.70
2:Hh:63:GLY:CA	3:Hl:108:TYR:OH	2.35	0.70
2:Sh:114:TYR:CD1	2:Sh:142:GLN:HA	2.27	0.70
2:lh:114:TYR:CD1	2:lh:142:GLN:HA	2.27	0.70
2:sh:114:TYR:CD1	2:sh:142:GLN:HA	2.27	0.70
1:B:423:SER:HB2	1:B:728:THR:CG2	2.16	0.70
1:K:489:SER:H	1:K:495:ASN:HD21	1.39	0.70
1:m:295:ASP:OD1	1:m:298:ARG:NH1	2.24	0.70
1:o:295:ASP:OD1	1:o:298:ARG:NH1	2.24	0.70
1:8:489:SER:H	1:8:495:ASN:HD21	1.39	0.70
2:7h:114:TYR:CD1	2:7h:142:GLN:HA	2.27	0.70
1:B:295:ASP:OD1	1:B:298:ARG:NH1	2.24	0.70
1:b:381:ASN:ND2	1:b:383:GLY:O	2.24	0.70
1:p:489:SER:H	1:p:495:ASN:HD21	1.39	0.70
1:x:489:SER:H	1:x:495:ASN:HD21	1.39	0.70
1:D:295:ASP:OD1	1:D:298:ARG:NH1	2.24	0.69
1:M:381:ASN:ND2	1:M:383:GLY:O	2.24	0.69
1:S:489:SER:H	1:S:495:ASN:HD21	1.39	0.69
1:Z:489:SER:H	1:Z:495:ASN:HD21	1.39	0.69
1:1:381:ASN:ND2	1:1:383:GLY:O	2.24	0.69
1:4:489:SER:H	1:4:495:ASN:HD21	1.39	0.69
1:e:295:ASP:OD1	1:e:298:ARG:NH1	2.24	0.69
1:l:489:SER:H	1:l:495:ASN:HD21	1.39	0.69
2:Ah:114:TYR:CD1	2:Ah:142:GLN:HA	2.27	0.69
2:Hh:77:LYS:HG3	2:Hh:89:ILE:CD1	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Jh:77:LYS:HG3	2:Jh:89:ILE:CD1	2.22	0.69
2:yh:77:LYS:HG3	2:yh:89:ILE:CD1	2.22	0.69
1:2:381:ASN:ND2	1:2:383:GLY:O	2.24	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
2:Bh:77:LYS:HG3	2:Bh:89:ILE:CD1	2.22	0.69
2:Dh:77:LYS:HG3	2:Dh:89:ILE:CD1	2.23	0.69
2:Oh:77:LYS:HG3	2:Oh:89:ILE:CD1	2.22	0.69
2:Vh:77:LYS:HG3	2:Vh:89:ILE:CD1	2.23	0.69
2:bh:77:LYS:HG3	2:bh:89:ILE:CD1	2.23	0.69
2:fh:77:LYS:HG3	2:fh:89:ILE:CD1	2.22	0.69
2:jh:77:LYS:HG3	2:jh:89:ILE:CD1	2.23	0.69
2:oh:114:TYR:CD1	2:oh:142:GLN:HA	2.27	0.69
2:ph:114:TYR:CD1	2:ph:142:GLN:HA	2.27	0.69
2:uh:77:LYS:HG3	2:uh:89:ILE:CD1	2.22	0.69
2:vh:77:LYS:HG3	2:vh:89:ILE:CD1	2.22	0.69
2:vh:114:TYR:CD1	2:vh:142:GLN:HA	2.27	0.69
1:6:381:ASN:ND2	1:6:383:GLY:O	2.24	0.69
1:a:295:ASP:OD1	1:a:298:ARG:NH1	2.24	0.69
1:h:489:SER:H	1:h:495:ASN:HD21	1.39	0.69
1:j:489:SER:H	1:j:495:ASN:HD21	1.39	0.69
2:Bh:114:TYR:CD1	2:Bh:142:GLN:HA	2.27	0.69
2:Ih:114:TYR:CD1	2:Ih:142:GLN:HA	2.27	0.69
2:Mh:77:LYS:HG3	2:Mh:89:ILE:CD1	2.23	0.69
2:4h:77:LYS:HG3	2:4h:89:ILE:CD1	2.23	0.69
2:eh:77:LYS:HG3	2:eh:89:ILE:CD1	2.22	0.69
1:Q:295:ASP:OD1	1:Q:298:ARG:NH1	2.24	0.69
1:V:489:SER:H	1:V:495:ASN:HD21	1.39	0.69
1:4:295:ASP:OD1	1:4:298:ARG:NH1	2.24	0.69
1:d:295:ASP:OD1	1:d:298:ARG:NH1	2.24	0.69
1:g:381:ASN:ND2	1:g:383:GLY:O	2.24	0.69
1:h:295:ASP:OD1	1:h:298:ARG:NH1	2.24	0.69
1:n:489:SER:H	1:n:495:ASN:HD21	1.39	0.69
1:w:381:ASN:ND2	1:w:383:GLY:O	2.24	0.69
2:Jh:114:TYR:CD1	2:Jh:142:GLN:HA	2.27	0.69
2:Vh:114:TYR:CD1	2:Vh:142:GLN:HA	2.27	0.69
2:gh:114:TYR:CD1	2:gh:142:GLN:HA	2.27	0.69
2:hh:77:LYS:HG3	2:hh:89:ILE:CD1	2.23	0.69
2:jh:114:TYR:CD1	2:jh:142:GLN:HA	2.27	0.69
2:mh:114:TYR:CD1	2:mh:142:GLN:HA	2.27	0.69
2:rh:114:TYR:CD1	2:rh:142:GLN:HA	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:uh:114:TYR:CD1	2:uh:142:GLN:HA	2.27	0.69
1:C:295:ASP:OD1	1:C:298:ARG:NH1	2.24	0.69
1:G:489:SER:H	1:G:495:ASN:HD21	1.39	0.69
1:P:295:ASP:OD1	1:P:298:ARG:NH1	2.24	0.69
2:Ch:77:LYS:HG3	2:Ch:89:ILE:CD1	2.23	0.69
2:Gh:77:LYS:HG3	2:Gh:89:ILE:CD1	2.22	0.69
2:Th:114:TYR:CD1	2:Th:142:GLN:HA	2.27	0.69
2:Uh:114:TYR:CD1	2:Uh:142:GLN:HA	2.27	0.69
2:6h:77:LYS:HG3	2:6h:89:ILE:CD1	2.23	0.69
1:6:295:ASP:OD1	1:6:298:ARG:NH1	2.24	0.69
1:y:381:ASN:ND2	1:y:383:GLY:O	2.24	0.69
2:eh:114:TYR:CD1	2:eh:142:GLN:HA	2.27	0.69
2:nh:77:LYS:HG3	2:nh:89:ILE:CD1	2.22	0.69
1:T:381:ASN:ND2	1:T:383:GLY:O	2.24	0.69
1:r:381:ASN:ND2	1:r:383:GLY:O	2.24	0.69
2:Dh:114:TYR:CD1	2:Dh:142:GLN:HA	2.27	0.69
2:Yh:77:LYS:HG3	2:Yh:89:ILE:CD1	2.22	0.69
2:2h:77:LYS:HG3	2:2h:89:ILE:CD1	2.23	0.69
2:2h:114:TYR:CD1	2:2h:142:GLN:HA	2.27	0.69
2:hh:114:TYR:CD1	2:hh:142:GLN:HA	2.27	0.69
2:th:114:TYR:CD1	2:th:142:GLN:HA	2.27	0.69
1:H:381:ASN:ND2	1:H:383:GLY:O	2.24	0.69
1:I:489:SER:H	1:I:495:ASN:HD21	1.40	0.69
1:Q:381:ASN:ND2	1:Q:383:GLY:O	2.24	0.69
1:X:381:ASN:ND2	1:X:383:GLY:O	2.24	0.69
1:2:295:ASP:OD1	1:2:298:ARG:NH1	2.24	0.69
2:Eh:114:TYR:CD1	2:Eh:142:GLN:HA	2.27	0.69
2:Lh:114:TYR:CD1	2:Lh:142:GLN:HA	2.27	0.69
2:Ph:114:TYR:CD1	2:Ph:142:GLN:HA	2.27	0.69
2:1h:114:TYR:CD1	2:1h:142:GLN:HA	2.27	0.69
2:4h:114:TYR:CD1	2:4h:142:GLN:HA	2.27	0.69
2:6h:114:TYR:CD1	2:6h:142:GLN:HA	2.27	0.69
2:dh:114:TYR:CD1	2:dh:142:GLN:HA	2.27	0.69
2:qh:114:TYR:CD1	2:qh:142:GLN:HA	2.27	0.69
2:wh:77:LYS:HG3	2:wh:89:ILE:CD1	2.23	0.69
2:wh:114:TYR:CD1	2:wh:142:GLN:HA	2.27	0.69
2:zh:63:GLY:CA	3:zl:108:TYR:OH	2.35	0.69
2:7h:77:LYS:HG3	2:7h:89:ILE:CD1	2.23	0.69
1:i:381:ASN:ND2	1:i:383:GLY:O	2.24	0.69
1:o:489:SER:H	1:o:495:ASN:HD21	1.39	0.69
1:z:381:ASN:ND2	1:z:383:GLY:O	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Sh:70:ILE:HB	2:Sh:89:ILE:HD12	1.75	0.69
2:lh:77:LYS:HG3	2:lh:89:ILE:CD1	2.23	0.69
2:ih:114:TYR:CD1	2:ih:142:GLN:HA	2.27	0.69
2:lh:70:ILE:HB	2:lh:89:ILE:HD12	1.75	0.69
2:ah:114:TYR:CD1	2:ah:142:GLN:HA	2.27	0.69
2:qh:77:LYS:HG3	2:qh:89:ILE:CD1	2.22	0.69
1:d:489:SER:H	1:d:495:ASN:HD21	1.39	0.68
2:Eh:77:LYS:HG3	2:Eh:89:ILE:CD1	2.22	0.68
2:Ih:70:ILE:HB	2:Ih:89:ILE:HD12	1.75	0.68
2:Th:77:LYS:HG3	2:Th:89:ILE:CD1	2.22	0.68
2:Wh:63:GLY:CA	3:Wl:108:TYR:OH	2.36	0.68
2:Wh:114:TYR:CD1	2:Wh:142:GLN:HA	2.27	0.68
2:Xh:114:TYR:CD1	2:Xh:142:GLN:HA	2.27	0.68
2:5h:114:TYR:CD1	2:5h:142:GLN:HA	2.27	0.68
2:oh:70:ILE:HB	2:oh:89:ILE:HD12	1.75	0.68
2:zh:114:TYR:CD1	2:zh:142:GLN:HA	2.27	0.68
1:N:489:SER:H	1:N:495:ASN:HD21	1.39	0.68
1:W:381:ASN:ND2	1:W:383:GLY:O	2.24	0.68
1:3:381:ASN:ND2	1:3:383:GLY:O	2.24	0.68
1:5:381:ASN:ND2	1:5:383:GLY:O	2.24	0.68
1:b:489:SER:H	1:b:495:ASN:HD21	1.39	0.68
1:u:381:ASN:ND2	1:u:383:GLY:O	2.24	0.68
1:u:489:SER:H	1:u:495:ASN:HD21	1.39	0.68
2:Ch:114:TYR:CD1	2:Ch:142:GLN:HA	2.27	0.68
2:Kh:77:LYS:HG3	2:Kh:89:ILE:CD1	2.22	0.68
2:Uh:77:LYS:HG3	2:Uh:89:ILE:CD1	2.22	0.68
2:3h:114:TYR:CD1	2:3h:142:GLN:HA	2.27	0.68
2:ch:114:TYR:CD1	2:ch:142:GLN:HA	2.27	0.68
2:fh:114:TYR:CD1	2:fh:142:GLN:HA	2.27	0.68
2:jh:70:ILE:HB	2:jh:89:ILE:HD12	1.75	0.68
2:nh:114:TYR:CD1	2:nh:142:GLN:HA	2.27	0.68
2:rh:70:ILE:HB	2:rh:89:ILE:HD12	1.75	0.68
1:B:489:SER:H	1:B:495:ASN:HD21	1.39	0.68
1:M:489:SER:H	1:M:495:ASN:HD21	1.39	0.68
2:Mh:70:ILE:HB	2:Mh:89:ILE:HD12	1.75	0.68
2:Nh:114:TYR:CD1	2:Nh:142:GLN:HA	2.27	0.68
2:Qh:70:ILE:HB	2:Qh:89:ILE:HD12	1.75	0.68
2:Vh:70:ILE:HB	2:Vh:89:ILE:HD12	1.75	0.68
2:ch:77:LYS:HG3	2:ch:89:ILE:CD1	2.23	0.68
2:gh:77:LYS:HG3	2:gh:89:ILE:CD1	2.22	0.68
2:xh:77:LYS:HG3	2:xh:89:ILE:CD1	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:381:ASN:ND2	1:B:383:GLY:O	2.24	0.68
1:P:489:SER:H	1:P:495:ASN:HD21	1.39	0.68
1:c:489:SER:H	1:c:495:ASN:HD21	1.39	0.68
2:Gh:114:TYR:CD1	2:Gh:142:GLN:HA	2.27	0.68
2:Nh:77:LYS:HG3	2:Nh:89:ILE:CD1	2.23	0.68
2:Oh:114:TYR:CD1	2:Oh:142:GLN:HA	2.27	0.68
2:mh:77:LYS:HG3	2:mh:89:ILE:CD1	2.22	0.68
1:V:381:ASN:ND2	1:V:383:GLY:O	2.24	0.68
1:1:489:SER:H	1:1:495:ASN:HD21	1.39	0.68
1:j:381:ASN:ND2	1:j:383:GLY:O	2.24	0.68
2:Fh:70:ILE:HB	2:Fh:89:ILE:HD12	1.75	0.68
2:Qh:77:LYS:HG3	2:Qh:89:ILE:CD1	2.23	0.68
2:Zh:77:LYS:HG3	2:Zh:89:ILE:CD1	2.22	0.68
2:bh:70:ILE:HB	2:bh:89:ILE:HD12	1.75	0.68
2:sh:70:ILE:HB	2:sh:89:ILE:HD12	1.75	0.68
1:C:489:SER:H	1:C:495:ASN:HD21	1.39	0.68
1:k:489:SER:H	1:k:495:ASN:HD21	1.39	0.68
2:sh:77:LYS:HG3	2:sh:89:ILE:CD1	2.23	0.68
2:zh:77:LYS:HG3	2:zh:89:ILE:CD1	2.23	0.68
2:8h:77:LYS:HG3	2:8h:89:ILE:CD1	2.22	0.68
1:p:381:ASN:ND2	1:p:383:GLY:O	2.24	0.68
1:r:489:SER:H	1:r:495:ASN:HD21	1.40	0.68
1:w:489:SER:H	1:w:495:ASN:HD21	1.39	0.68
2:Wh:77:LYS:HG3	2:Wh:89:ILE:CD1	2.23	0.68
2:hh:70:ILE:HB	2:hh:89:ILE:HD12	1.75	0.68
2:kh:77:LYS:HG3	2:kh:89:ILE:CD1	2.22	0.68
2:rh:77:LYS:HG3	2:rh:89:ILE:CD1	2.23	0.68
2:zh:70:ILE:HB	2:zh:89:ILE:HD12	1.75	0.68
1:Q:489:SER:H	1:Q:495:ASN:HD21	1.40	0.68
1:R:489:SER:H	1:R:495:ASN:HD21	1.39	0.68
1:a:489:SER:H	1:a:495:ASN:HD21	1.39	0.68
1:f:381:ASN:ND2	1:f:383:GLY:O	2.24	0.68
2:Fh:77:LYS:HG3	2:Fh:89:ILE:CD1	2.23	0.68
2:Gh:70:ILE:HB	2:Gh:89:ILE:HD12	1.75	0.68
2:Hh:70:ILE:HB	2:Hh:89:ILE:HD12	1.75	0.68
2:Ih:77:LYS:HG3	2:Ih:89:ILE:CD1	2.23	0.68
2:Ph:70:ILE:HB	2:Ph:89:ILE:HD12	1.75	0.68
2:Wh:70:ILE:HB	2:Wh:89:ILE:HD12	1.75	0.68
2:dh:70:ILE:HB	2:dh:89:ILE:HD12	1.75	0.68
2:oh:77:LYS:HG3	2:oh:89:ILE:CD1	2.23	0.68
1:A:381:ASN:ND2	1:A:383:GLY:O	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:489:SER:H	1:i:495:ASN:HD21	1.39	0.68
1:y:489:SER:H	1:y:495:ASN:HD21	1.39	0.68
2:Rh:77:LYS:HG3	2:Rh:89:ILE:CD1	2.22	0.68
2:gh:70:ILE:HB	2:gh:89:ILE:HD12	1.76	0.68
2:nh:70:ILE:HB	2:nh:89:ILE:HD12	1.75	0.68
2:yh:70:ILE:HB	2:yh:89:ILE:HD12	1.75	0.68
1:H:489:SER:H	1:H:495:ASN:HD21	1.39	0.68
1:J:489:SER:H	1:J:495:ASN:HD21	1.39	0.68
1:X:489:SER:H	1:X:495:ASN:HD21	1.39	0.68
1:Z:423:SER:HB3	1:Z:728:THR:CG2	2.24	0.68
1:q:381:ASN:ND2	1:q:383:GLY:O	2.24	0.68
1:s:381:ASN:ND2	1:s:383:GLY:O	2.24	0.68
1:v:489:SER:H	1:v:495:ASN:HD21	1.39	0.68
1:w:423:SER:HB3	1:w:728:THR:CG2	2.25	0.68
2:Gh:25:GLU:OE2	2:Gh:141:GLY:CA	2.42	0.68
2:Kh:114:TYR:CD1	2:Kh:142:GLN:HA	2.27	0.68
2:Oh:25:GLU:OE2	2:Oh:141:GLY:CA	2.43	0.68
2:Th:70:ILE:HB	2:Th:89:ILE:HD12	1.76	0.68
2:1h:25:GLU:OE2	2:1h:141:GLY:CA	2.42	0.68
2:4h:70:ILE:HB	2:4h:89:ILE:HD12	1.75	0.68
2:fh:25:GLU:OE2	2:fh:141:GLY:CA	2.42	0.68
2:lh:77:LYS:HG3	2:lh:89:ILE:CD1	2.22	0.68
2:wh:25:GLU:OE2	2:wh:141:GLY:CA	2.42	0.68
1:L:423:SER:HB3	1:L:728:THR:CG2	2.25	0.67
1:O:381:ASN:ND2	1:O:383:GLY:O	2.24	0.67
1:U:381:ASN:ND2	1:U:383:GLY:O	2.24	0.67
1:U:423:SER:HB3	1:U:728:THR:CG2	2.25	0.67
1:m:423:SER:HB3	1:m:728:THR:CG2	2.25	0.67
1:t:423:SER:HB3	1:t:728:THR:CG2	2.25	0.67
2:Eh:70:ILE:HB	2:Eh:89:ILE:HD12	1.75	0.67
2:Hh:114:TYR:CD1	2:Hh:142:GLN:HA	2.27	0.67
2:Jh:25:GLU:OE2	2:Jh:141:GLY:CA	2.42	0.67
2:Kh:25:GLU:OE2	2:Kh:141:GLY:CA	2.42	0.67
2:Qh:114:TYR:CD1	2:Qh:142:GLN:HA	2.27	0.67
2:Vh:25:GLU:OE2	2:Vh:141:GLY:CA	2.42	0.67
2:Vh:81:ASP:CA	2:Vh:84:LYS:HG3	2.25	0.67
2:eh:25:GLU:OE2	2:eh:141:GLY:CA	2.42	0.67
2:jh:81:ASP:CA	2:jh:84:LYS:HG3	2.25	0.67
2:kh:25:GLU:OE2	2:kh:141:GLY:CA	2.42	0.67
2:nh:25:GLU:OE2	2:nh:141:GLY:CA	2.42	0.67
2:8h:114:TYR:CD1	2:8h:142:GLN:HA	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:423:SER:HB3	1:A:728:THR:CG2	2.25	0.67
1:S:381:ASN:ND2	1:S:383:GLY:O	2.24	0.67
1:U:489:SER:H	1:U:495:ASN:HD21	1.39	0.67
1:l:381:ASN:ND2	1:l:383:GLY:O	2.24	0.67
1:m:381:ASN:ND2	1:m:383:GLY:O	2.24	0.67
1:m:489:SER:H	1:m:495:ASN:HD21	1.39	0.67
1:8:423:SER:HB3	1:8:728:THR:CG2	2.24	0.67
2:Dh:25:GLU:OE2	2:Dh:141:GLY:CA	2.43	0.67
2:Hh:81:ASP:CA	2:Hh:84:LYS:HG3	2.25	0.67
2:Jh:70:ILE:HB	2:Jh:89:ILE:HD12	1.75	0.67
2:Rh:25:GLU:OE2	2:Rh:141:GLY:CA	2.42	0.67
2:Sh:77:LYS:HG3	2:Sh:89:ILE:CD1	2.22	0.67
2:Xh:81:ASP:CA	2:Xh:84:LYS:HG3	2.25	0.67
2:1h:81:ASP:CA	2:1h:84:LYS:HG3	2.25	0.67
2:jh:25:GLU:OE2	2:jh:141:GLY:CA	2.42	0.67
2:qh:25:GLU:OE2	2:qh:141:GLY:CA	2.42	0.67
2:qh:70:ILE:HB	2:qh:89:ILE:HD12	1.75	0.67
2:vh:25:GLU:OE2	2:vh:141:GLY:CA	2.42	0.67
2:wh:81:ASP:CA	2:wh:84:LYS:HG3	2.25	0.67
2:xh:25:GLU:OE2	2:xh:141:GLY:CA	2.42	0.67
2:xh:114:TYR:CD1	2:xh:142:GLN:HA	2.27	0.67
2:yh:81:ASP:CA	2:yh:84:LYS:HG3	2.25	0.67
2:yh:114:TYR:CD1	2:yh:142:GLN:HA	2.27	0.67
1:E:381:ASN:ND2	1:E:383:GLY:O	2.24	0.67
1:F:381:ASN:ND2	1:F:383:GLY:O	2.24	0.67
1:p:423:SER:HB3	1:p:728:THR:CG2	2.25	0.67
2:Ch:56:VAL:HG21	2:Ch:140:TRP:CH2	2.30	0.67
2:Dh:70:ILE:HB	2:Dh:89:ILE:HD12	1.75	0.67
2:Eh:25:GLU:OE2	2:Eh:141:GLY:CA	2.42	0.67
2:Ih:25:GLU:OE2	2:Ih:141:GLY:CA	2.42	0.67
2:Jh:81:ASP:CA	2:Jh:84:LYS:HG3	2.25	0.67
2:ah:81:ASP:CA	2:ah:84:LYS:HG3	2.25	0.67
2:eh:70:ILE:HB	2:eh:89:ILE:HD12	1.75	0.67
2:ih:81:ASP:CA	2:ih:84:LYS:HG3	2.25	0.67
2:oh:25:GLU:OE2	2:oh:141:GLY:CA	2.42	0.67
2:vh:70:ILE:HB	2:vh:89:ILE:HD12	1.75	0.67
2:vh:81:ASP:CA	2:vh:84:LYS:HG3	2.25	0.67
2:Bh:81:ASP:CA	2:Bh:84:LYS:HG3	2.25	0.67
2:Ch:81:ASP:CA	2:Ch:84:LYS:HG3	2.25	0.67
2:Eh:56:VAL:HG21	2:Eh:140:TRP:CH2	2.30	0.67
2:Lh:25:GLU:OE2	2:Lh:141:GLY:CA	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Lh:56:VAL:HG21	2:Lh:140:TRP:CH2	2.30	0.67
2:Oh:70:ILE:HB	2:Oh:89:ILE:HD12	1.75	0.67
2:Th:25:GLU:OE2	2:Th:141:GLY:CA	2.42	0.67
2:Xh:56:VAL:HG21	2:Xh:140:TRP:CH2	2.30	0.67
2:Zh:114:TYR:CD1	2:Zh:142:GLN:HA	2.27	0.67
2:5h:70:ILE:HB	2:5h:89:ILE:HD12	1.75	0.67
2:ah:56:VAL:HG21	2:ah:140:TRP:CH2	2.30	0.67
2:gh:25:GLU:OE2	2:gh:141:GLY:CA	2.42	0.67
2:ih:56:VAL:HG21	2:ih:140:TRP:CH2	2.30	0.67
2:ih:70:ILE:HB	2:ih:89:ILE:HD12	1.75	0.67
2:qh:56:VAL:HG21	2:qh:140:TRP:CH2	2.30	0.67
2:th:56:VAL:HG21	2:th:140:TRP:CH2	2.30	0.67
2:th:70:ILE:HB	2:th:89:ILE:HD12	1.75	0.67
2:uh:81:ASP:CA	2:uh:84:LYS:HG3	2.25	0.67
1:C:381:ASN:ND2	1:C:383:GLY:O	2.24	0.67
1:Y:423:SER:HB3	1:Y:728:THR:CG2	2.24	0.67
1:a:381:ASN:ND2	1:a:383:GLY:O	2.24	0.67
1:e:423:SER:HB3	1:e:728:THR:CG2	2.24	0.67
1:7:423:SER:HB3	1:7:728:THR:CG2	2.24	0.67
2:Ah:81:ASP:CA	2:Ah:84:LYS:HG3	2.25	0.67
2:Ph:77:LYS:HG3	2:Ph:89:ILE:CD1	2.22	0.67
2:Wh:56:VAL:HG21	2:Wh:140:TRP:CH2	2.30	0.67
2:Xh:25:GLU:OE2	2:Xh:141:GLY:CA	2.42	0.67
2:Xh:70:ILE:HB	2:Xh:89:ILE:HD12	1.75	0.67
2:2h:25:GLU:OE2	2:2h:141:GLY:CA	2.42	0.67
2:6h:25:GLU:OE2	2:6h:141:GLY:CA	2.42	0.67
2:fh:70:ILE:HB	2:fh:89:ILE:HD12	1.75	0.67
2:mh:70:ILE:HB	2:mh:89:ILE:HD12	1.75	0.67
2:xh:56:VAL:HG21	2:xh:140:TRP:CH2	2.30	0.67
2:8h:70:ILE:HB	2:8h:89:ILE:HD12	1.75	0.67
1:I:423:SER:HB3	1:I:728:THR:CG2	2.24	0.67
1:J:423:SER:HB3	1:J:728:THR:CG2	2.25	0.67
1:4:423:SER:HB3	1:4:728:THR:CG2	2.25	0.67
1:v:423:SER:HB3	1:v:728:THR:CG2	2.25	0.67
1:7:381:ASN:ND2	1:7:383:GLY:O	2.24	0.67
2:Bh:70:ILE:HB	2:Bh:89:ILE:HD12	1.75	0.67
2:Jh:56:VAL:HG21	2:Jh:140:TRP:CH2	2.30	0.67
2:Kh:56:VAL:HG21	2:Kh:140:TRP:CH2	2.30	0.67
2:Ph:81:ASP:CA	2:Ph:84:LYS:HG3	2.25	0.67
2:Rh:56:VAL:HG21	2:Rh:140:TRP:CH2	2.30	0.67
2:2h:70:ILE:HB	2:2h:89:ILE:HD12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3h:70:ILE:HB	2:3h:89:ILE:HD12	1.75	0.67
2:ch:25:GLU:OE2	2:ch:141:GLY:CA	2.42	0.67
2:ih:25:GLU:OE2	2:ih:141:GLY:CA	2.42	0.67
2:kh:56:VAL:HG21	2:kh:140:TRP:CH2	2.30	0.67
2:ph:81:ASP:CA	2:ph:84:LYS:HG3	2.25	0.67
2:sh:25:GLU:OE2	2:sh:141:GLY:CA	2.42	0.67
2:zh:56:VAL:HG21	2:zh:140:TRP:CH2	2.30	0.67
1:D:423:SER:HB3	1:D:728:THR:CG2	2.24	0.67
1:H:423:SER:HB3	1:H:728:THR:CG2	2.25	0.67
1:h:423:SER:HB3	1:h:728:THR:CG2	2.25	0.67
1:o:423:SER:HB3	1:o:728:THR:CG2	2.24	0.67
2:Fh:25:GLU:OE2	2:Fh:141:GLY:CA	2.42	0.67
2:Lh:70:ILE:HB	2:Lh:89:ILE:HD12	1.75	0.67
2:Lh:77:LYS:HG3	2:Lh:89:ILE:CD1	2.22	0.67
2:Nh:25:GLU:OE2	2:Nh:141:GLY:CA	2.42	0.67
2:Qh:56:VAL:HG21	2:Qh:140:TRP:CH2	2.30	0.67
2:Yh:56:VAL:HG21	2:Yh:140:TRP:CH2	2.30	0.67
2:Zh:70:ILE:HB	2:Zh:89:ILE:HD12	1.75	0.67
2:5h:81:ASP:CA	2:5h:84:LYS:HG3	2.25	0.67
2:6h:70:ILE:HB	2:6h:89:ILE:HD12	1.75	0.67
2:ah:25:GLU:OE2	2:ah:141:GLY:CA	2.42	0.67
2:dh:77:LYS:HG3	2:dh:89:ILE:CD1	2.22	0.67
2:dh:81:ASP:CA	2:dh:84:LYS:HG3	2.25	0.67
2:nh:81:ASP:CA	2:nh:84:LYS:HG3	2.25	0.67
2:rh:56:VAL:HG21	2:rh:140:TRP:CH2	2.30	0.67
2:sh:81:ASP:CA	2:sh:84:LYS:HG3	2.25	0.67
2:uh:70:ILE:HB	2:uh:89:ILE:HD12	1.75	0.67
2:vh:56:VAL:HG21	2:vh:140:TRP:CH2	2.30	0.67
2:7h:56:VAL:HG21	2:7h:140:TRP:CH2	2.30	0.67
2:8h:81:ASP:CA	2:8h:84:LYS:HG3	2.25	0.67
3:4l:82:ARG:HH12	3:4l:100:GLN:HG3	1.60	0.67
3:gl:82:ARG:HH12	3:gl:100:GLN:HG3	1.60	0.67
3:hl:82:ARG:HH12	3:hl:100:GLN:HG3	1.60	0.67
1:N:423:SER:HB3	1:N:728:THR:CG2	2.24	0.67
1:R:423:SER:HB3	1:R:728:THR:CG2	2.25	0.67
1:c:423:SER:HB3	1:c:728:THR:CG2	2.24	0.67
1:t:381:ASN:ND2	1:t:383:GLY:O	2.24	0.67
1:y:423:SER:HB3	1:y:728:THR:CG2	2.25	0.67
2:Bh:25:GLU:OE2	2:Bh:141:GLY:CA	2.42	0.67
2:Gh:81:ASP:CA	2:Gh:84:LYS:HG3	2.25	0.67
2:Nh:81:ASP:CA	2:Nh:84:LYS:HG3	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zh:81:ASP:CA	2:Zh:84:LYS:HG3	2.25	0.67
2:2h:56:VAL:HG21	2:2h:140:TRP:CH2	2.30	0.67
2:3h:81:ASP:CA	2:3h:84:LYS:HG3	2.25	0.67
2:6h:56:VAL:HG21	2:6h:140:TRP:CH2	2.30	0.67
2:uh:25:GLU:OE2	2:uh:141:GLY:CA	2.42	0.67
3:Jl:82:ARG:HH12	3:Jl:100:GLN:HG3	1.60	0.67
3:Ql:82:ARG:HH12	3:Ql:100:GLN:HG3	1.60	0.67
3:Tl:82:ARG:HH12	3:Tl:100:GLN:HG3	1.60	0.67
3:Vl:82:ARG:HH12	3:Vl:100:GLN:HG3	1.60	0.67
1:Y:381:ASN:ND2	1:Y:383:GLY:O	2.24	0.67
2:Ch:25:GLU:OE2	2:Ch:141:GLY:CA	2.42	0.67
2:Fh:81:ASP:CA	2:Fh:84:LYS:HG3	2.25	0.67
2:Ih:56:VAL:HG21	2:Ih:140:TRP:CH2	2.30	0.67
2:1h:56:VAL:HG21	2:1h:140:TRP:CH2	2.30	0.67
2:ch:56:VAL:HG21	2:ch:140:TRP:CH2	2.30	0.67
2:dh:56:VAL:HG21	2:dh:140:TRP:CH2	2.30	0.67
2:hh:56:VAL:HG21	2:hh:140:TRP:CH2	2.30	0.67
2:th:25:GLU:OE2	2:th:141:GLY:CA	2.42	0.67
2:th:77:LYS:HG3	2:th:89:ILE:CD1	2.22	0.67
2:zh:81:ASP:CA	2:zh:84:LYS:HG3	2.25	0.67
3:El:82:ARG:HH12	3:El:100:GLN:HG3	1.60	0.67
3:Fl:82:ARG:HH12	3:Fl:100:GLN:HG3	1.60	0.67
3:Zl:82:ARG:HH12	3:Zl:100:GLN:HG3	1.60	0.67
3:jl:82:ARG:HH12	3:jl:100:GLN:HG3	1.60	0.67
3:kl:82:ARG:HH12	3:kl:100:GLN:HG3	1.60	0.67
3:rl:82:ARG:HH12	3:rl:100:GLN:HG3	1.60	0.67
3:sl:82:ARG:HH12	3:sl:100:GLN:HG3	1.60	0.67
3:vl:82:ARG:HH12	3:vl:100:GLN:HG3	1.60	0.67
1:P:381:ASN:ND2	1:P:383:GLY:O	2.24	0.67
1:5:423:SER:HB3	1:5:728:THR:CG2	2.25	0.67
1:d:381:ASN:ND2	1:d:383:GLY:O	2.24	0.67
1:k:423:SER:HB3	1:k:728:THR:CG2	2.25	0.67
2:Gh:56:VAL:HG21	2:Gh:140:TRP:CH2	2.30	0.67
2:Kh:70:ILE:HB	2:Kh:89:ILE:HD12	1.76	0.67
2:Oh:56:VAL:HG21	2:Oh:140:TRP:CH2	2.30	0.67
2:Ph:56:VAL:HG21	2:Ph:140:TRP:CH2	2.30	0.67
2:Qh:25:GLU:OE2	2:Qh:141:GLY:CA	2.42	0.67
2:Th:81:ASP:CA	2:Th:84:LYS:HG3	2.25	0.67
2:Uh:70:ILE:HB	2:Uh:89:ILE:HD12	1.75	0.67
2:3h:56:VAL:HG21	2:3h:140:TRP:CH2	2.30	0.67
2:4h:56:VAL:HG21	2:4h:140:TRP:CH2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5h:56:VAL:HG21	2:5h:140:TRP:CH2	2.30	0.67
2:ch:81:ASP:CA	2:ch:84:LYS:HG3	2.24	0.67
2:gh:81:ASP:CA	2:gh:84:LYS:HG3	2.25	0.67
2:kh:114:TYR:CD1	2:kh:142:GLN:HA	2.27	0.67
2:nh:56:VAL:HG21	2:nh:140:TRP:CH2	2.30	0.67
2:oh:56:VAL:HG21	2:oh:140:TRP:CH2	2.30	0.67
2:rh:25:GLU:OE2	2:rh:141:GLY:CA	2.42	0.67
2:wh:56:VAL:HG21	2:wh:140:TRP:CH2	2.30	0.67
3:dl:82:ARG:HH12	3:dl:100:GLN:HG3	1.60	0.67
3:fl:82:ARG:HH12	3:fl:100:GLN:HG3	1.60	0.67
1:G:423:SER:HB3	1:G:728:THR:CG2	2.24	0.66
1:L:381:ASN:ND2	1:L:383:GLY:O	2.24	0.66
1:3:423:SER:HB3	1:3:728:THR:CG2	2.25	0.66
2:Rh:114:TYR:CD1	2:Rh:142:GLN:HA	2.27	0.66
2:Wh:81:ASP:CA	2:Wh:84:LYS:HG3	2.25	0.66
2:Xh:77:LYS:HG3	2:Xh:89:ILE:CD1	2.23	0.66
2:bh:25:GLU:OE2	2:bh:141:GLY:CA	2.42	0.66
2:ch:70:ILE:HB	2:ch:89:ILE:HD12	1.75	0.66
2:oh:81:ASP:CA	2:oh:84:LYS:HG3	2.25	0.66
2:xh:70:ILE:HB	2:xh:89:ILE:HD12	1.76	0.66
3:Pl:82:ARG:HH12	3:Pl:100:GLN:HG3	1.60	0.66
3:Rl:82:ARG:HH12	3:Rl:100:GLN:HG3	1.60	0.66
3:ql:82:ARG:HH12	3:ql:100:GLN:HG3	1.60	0.66
3:8l:82:ARG:HH12	3:8l:100:GLN:HG3	1.60	0.66
1:B:423:SER:HB3	1:B:728:THR:CG2	2.25	0.66
1:Q:423:SER:HB3	1:Q:728:THR:CG2	2.24	0.66
1:n:423:SER:HB3	1:n:728:THR:CG2	2.24	0.66
1:s:423:SER:HB3	1:s:728:THR:CG2	2.25	0.66
2:Ah:77:LYS:HG3	2:Ah:89:ILE:CD1	2.22	0.66
2:Bh:56:VAL:HG21	2:Bh:140:TRP:CH2	2.30	0.66
2:Hh:56:VAL:HG21	2:Hh:140:TRP:CH2	2.30	0.66
2:Mh:25:GLU:OE2	2:Mh:141:GLY:CA	2.42	0.66
2:Nh:56:VAL:HG21	2:Nh:140:TRP:CH2	2.30	0.66
2:Uh:81:ASP:CA	2:Uh:84:LYS:HG3	2.25	0.66
2:Vh:56:VAL:HG21	2:Vh:140:TRP:CH2	2.30	0.66
2:Yh:25:GLU:OE2	2:Yh:141:GLY:CA	2.42	0.66
2:4h:25:GLU:OE2	2:4h:141:GLY:CA	2.42	0.66
2:fh:56:VAL:HG21	2:fh:140:TRP:CH2	2.30	0.66
2:kh:70:ILE:HB	2:kh:89:ILE:HD12	1.75	0.66
2:mh:81:ASP:CA	2:mh:84:LYS:HG3	2.25	0.66
2:ph:25:GLU:OE2	2:ph:141:GLY:CA	2.42	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:uh:56:VAL:HG21	2:uh:140:TRP:CH2	2.30	0.66
2:yh:56:VAL:HG21	2:yh:140:TRP:CH2	2.30	0.66
3:Ol:82:ARG:HH12	3:Ol:100:GLN:HG3	1.60	0.66
3:ol:82:ARG:HH12	3:ol:100:GLN:HG3	1.60	0.66
3:wl:82:ARG:HH12	3:wl:100:GLN:HG3	1.60	0.66
1:F:423:SER:HB3	1:F:728:THR:CG2	2.25	0.66
1:b:423:SER:HB3	1:b:728:THR:CG2	2.24	0.66
1:o:381:ASN:ND2	1:o:383:GLY:O	2.24	0.66
1:r:423:SER:HB3	1:r:728:THR:CG2	2.24	0.66
1:u:423:SER:HB3	1:u:728:THR:CG2	2.25	0.66
2:Ah:25:GLU:OE2	2:Ah:141:GLY:CA	2.42	0.66
2:Ah:70:ILE:HB	2:Ah:89:ILE:HD12	1.75	0.66
2:Dh:56:VAL:HG21	2:Dh:140:TRP:CH2	2.30	0.66
2:Eh:81:ASP:CA	2:Eh:84:LYS:HG3	2.25	0.66
2:Ih:81:ASP:CA	2:Ih:84:LYS:HG3	2.25	0.66
2:Mh:56:VAL:HG21	2:Mh:140:TRP:CH2	2.30	0.66
2:Rh:70:ILE:HB	2:Rh:89:ILE:HD12	1.75	0.66
2:Sh:56:VAL:HG21	2:Sh:140:TRP:CH2	2.30	0.66
2:Uh:25:GLU:OE2	2:Uh:141:GLY:CA	2.42	0.66
2:Wh:25:GLU:OE2	2:Wh:141:GLY:CA	2.42	0.66
2:Zh:25:GLU:OE2	2:Zh:141:GLY:CA	2.42	0.66
2:Zh:56:VAL:HG21	2:Zh:140:TRP:CH2	2.30	0.66
2:4h:81:ASP:CA	2:4h:84:LYS:HG3	2.25	0.66
2:6h:81:ASP:CA	2:6h:84:LYS:HG3	2.25	0.66
2:eh:56:VAL:HG21	2:eh:140:TRP:CH2	2.30	0.66
2:jh:56:VAL:HG21	2:jh:140:TRP:CH2	2.30	0.66
2:7h:25:GLU:OE2	2:7h:141:GLY:CA	2.42	0.66
2:7h:70:ILE:HB	2:7h:89:ILE:HD12	1.75	0.66
3:Il:82:ARG:HH12	3:Il:100:GLN:HG3	1.60	0.66
3:6l:82:ARG:HH12	3:6l:100:GLN:HG3	1.60	0.66
1:O:423:SER:HB3	1:O:728:THR:CG2	2.24	0.66
1:6:423:SER:HB3	1:6:728:THR:CG2	2.24	0.66
2:Fh:56:VAL:HG21	2:Fh:140:TRP:CH2	2.30	0.66
2:Kh:81:ASP:CA	2:Kh:84:LYS:HG3	2.25	0.66
2:Nh:70:ILE:HB	2:Nh:89:ILE:HD12	1.75	0.66
2:Yh:70:ILE:HB	2:Yh:89:ILE:HD12	1.75	0.66
2:hh:25:GLU:OE2	2:hh:141:GLY:CA	2.42	0.66
2:ih:77:LYS:HG3	2:ih:89:ILE:CD1	2.23	0.66
2:lh:56:VAL:HG21	2:lh:140:TRP:CH2	2.30	0.66
2:mh:25:GLU:OE2	2:mh:141:GLY:CA	2.42	0.66
2:ph:77:LYS:HG3	2:ph:89:ILE:CD1	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:qh:81:ASP:CA	2:qh:84:LYS:HG3	2.25	0.66
2:8h:25:GLU:OE2	2:8h:141:GLY:CA	2.43	0.66
3:cl:82:ARG:HH12	3:cl:100:GLN:HG3	1.60	0.66
1:M:423:SER:HB3	1:M:728:THR:CG2	2.24	0.66
1:V:423:SER:HB3	1:V:728:THR:CG2	2.25	0.66
1:1:423:SER:HB3	1:1:728:THR:CG2	2.25	0.66
1:f:423:SER:HB3	1:f:728:THR:CG2	2.24	0.66
2:Ph:25:GLU:OE2	2:Ph:141:GLY:CA	2.42	0.66
2:Qh:81:ASP:CA	2:Qh:84:LYS:HG3	2.25	0.66
2:Rh:81:ASP:CA	2:Rh:84:LYS:HG3	2.25	0.66
2:Th:56:VAL:HG21	2:Th:140:TRP:CH2	2.30	0.66
2:2h:81:ASP:CA	2:2h:84:LYS:HG3	2.25	0.66
2:3h:25:GLU:OE2	2:3h:141:GLY:CA	2.42	0.66
2:bh:56:VAL:HG21	2:bh:140:TRP:CH2	2.30	0.66
2:hh:81:ASP:CA	2:hh:84:LYS:HG3	2.25	0.66
2:ph:70:ILE:HB	2:ph:89:ILE:HD12	1.75	0.66
2:wh:70:ILE:HB	2:wh:89:ILE:HD12	1.75	0.66
2:zh:25:GLU:OE2	2:zh:141:GLY:CA	2.42	0.66
2:8h:56:VAL:HG21	2:8h:140:TRP:CH2	2.30	0.66
3:1l:82:ARG:HH12	3:1l:100:GLN:HG3	1.60	0.66
3:2l:82:ARG:HH12	3:2l:100:GLN:HG3	1.60	0.66
1:2:423:SER:HB3	1:2:728:THR:CG2	2.25	0.66
1:d:423:SER:HB3	1:d:728:THR:CG2	2.25	0.66
1:q:423:SER:HB3	1:q:728:THR:CG2	2.24	0.66
2:Hh:25:GLU:OE2	2:Hh:141:GLY:CA	2.42	0.66
2:Mh:81:ASP:CA	2:Mh:84:LYS:HG3	2.25	0.66
2:1h:70:ILE:HB	2:1h:89:ILE:HD12	1.75	0.66
2:ah:70:ILE:HB	2:ah:89:ILE:HD12	1.75	0.66
2:bh:81:ASP:CA	2:bh:84:LYS:HG3	2.25	0.66
2:dh:25:GLU:OE2	2:dh:141:GLY:CA	2.42	0.66
2:gh:56:VAL:HG21	2:gh:140:TRP:CH2	2.30	0.66
2:kh:81:ASP:CA	2:kh:84:LYS:HG3	2.25	0.66
2:sh:56:VAL:HG21	2:sh:140:TRP:CH2	2.30	0.66
2:xh:81:ASP:CA	2:xh:84:LYS:HG3	2.25	0.66
3:Nl:82:ARG:HH12	3:Nl:100:GLN:HG3	1.60	0.66
3:ll:82:ARG:HH12	3:ll:100:GLN:HG3	1.60	0.66
3:xl:82:ARG:HH12	3:xl:100:GLN:HG3	1.60	0.66
1:E:423:SER:HB3	1:E:728:THR:CG2	2.24	0.66
1:I:381:ASN:ND2	1:I:383:GLY:O	2.24	0.66
1:g:423:SER:HB3	1:g:728:THR:CG2	2.24	0.66
1:i:423:SER:HB3	1:i:728:THR:CG2	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:423:SER:HB3	1:j:728:THR:CG2	2.25	0.66
2:Ch:70:ILE:HB	2:Ch:89:ILE:HD12	1.75	0.66
2:Oh:81:ASP:CA	2:Oh:84:LYS:HG3	2.25	0.66
2:Yh:81:ASP:CA	2:Yh:84:LYS:HG3	2.24	0.66
2:5h:25:GLU:OE2	2:5h:141:GLY:CA	2.42	0.66
2:ah:77:LYS:HG3	2:ah:89:ILE:CD1	2.23	0.66
2:fh:81:ASP:CA	2:fh:84:LYS:HG3	2.25	0.66
2:rh:81:ASP:CA	2:rh:84:LYS:HG3	2.25	0.66
2:yh:25:GLU:OE2	2:yh:141:GLY:CA	2.42	0.66
2:7h:81:ASP:CA	2:7h:84:LYS:HG3	2.25	0.66
3:Yl:82:ARG:HH12	3:Yl:100:GLN:HG3	1.60	0.66
1:P:423:SER:HB3	1:P:728:THR:CG2	2.25	0.66
1:T:423:SER:HB3	1:T:728:THR:CG2	2.25	0.66
2:mh:56:VAL:HG21	2:mh:140:TRP:CH2	2.30	0.66
2:ph:56:VAL:HG21	2:ph:140:TRP:CH2	2.30	0.66
3:Kl:82:ARG:HH12	3:Kl:100:GLN:HG3	1.60	0.66
3:Sl:82:ARG:HH12	3:Sl:100:GLN:HG3	1.60	0.66
3:Ul:59:GLN:O	3:Ul:105:ALA:HB1	1.96	0.66
3:ml:59:GLN:O	3:ml:105:ALA:HB1	1.96	0.66
1:X:423:SER:HB3	1:X:728:THR:CG2	2.24	0.66
2:Lh:81:ASP:CA	2:Lh:84:LYS:HG3	2.25	0.66
2:Sh:81:ASP:CA	2:Sh:84:LYS:HG3	2.25	0.66
2:Uh:56:VAL:HG21	2:Uh:140:TRP:CH2	2.30	0.66
2:th:81:ASP:CA	2:th:84:LYS:HG3	2.25	0.66
3:Ol:59:GLN:O	3:Ol:105:ALA:HB1	1.96	0.66
3:ml:82:ARG:HH12	3:ml:100:GLN:HG3	1.60	0.66
3:zl:59:GLN:O	3:zl:105:ALA:HB1	1.96	0.66
3:7l:82:ARG:HH12	3:7l:100:GLN:HG3	1.60	0.66
1:C:423:SER:HB3	1:C:728:THR:CG2	2.25	0.66
2:Ah:56:VAL:HG21	2:Ah:140:TRP:CH2	2.30	0.66
2:Sh:25:GLU:OE2	2:Sh:141:GLY:CA	2.42	0.66
2:lh:25:GLU:OE2	2:lh:141:GLY:CA	2.42	0.66
2:lh:81:ASP:CA	2:lh:84:LYS:HG3	2.25	0.66
3:Bl:59:GLN:O	3:Bl:105:ALA:HB1	1.96	0.66
3:Hl:59:GLN:O	3:Hl:105:ALA:HB1	1.96	0.66
3:Ll:59:GLN:O	3:Ll:105:ALA:HB1	1.96	0.66
3:Ql:59:GLN:O	3:Ql:105:ALA:HB1	1.96	0.66
3:Sl:59:GLN:O	3:Sl:105:ALA:HB1	1.96	0.66
3:Wl:59:GLN:O	3:Wl:105:ALA:HB1	1.96	0.66
3:Yl:59:GLN:O	3:Yl:105:ALA:HB1	1.96	0.66
3:dl:59:GLN:O	3:dl:105:ALA:HB1	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:fl:59:GLN:O	3:fl:105:ALA:HB1	1.96	0.66
3:ll:59:GLN:O	3:ll:105:ALA:HB1	1.96	0.66
3:rl:59:GLN:O	3:rl:105:ALA:HB1	1.96	0.66
3:7l:59:GLN:O	3:7l:105:ALA:HB1	1.96	0.66
1:4:381:ASN:ND2	1:4:383:GLY:O	2.24	0.65
1:a:423:SER:HB3	1:a:728:THR:CG2	2.25	0.65
1:x:423:SER:HB3	1:x:728:THR:CG2	2.24	0.65
2:fh:86:ARG:HH11	2:fh:106:ARG:HH21	1.44	0.65
3:Cl:59:GLN:O	3:Cl:105:ALA:HB1	1.96	0.65
3:Pl:59:GLN:O	3:Pl:105:ALA:HB1	1.96	0.65
3:ul:59:GLN:O	3:ul:105:ALA:HB1	1.96	0.65
3:yl:59:GLN:O	3:yl:105:ALA:HB1	1.96	0.65
1:K:423:SER:HB3	1:K:728:THR:CG2	2.24	0.65
2:Ch:86:ARG:HH11	2:Ch:106:ARG:HH21	1.45	0.65
2:Ih:86:ARG:HH11	2:Ih:106:ARG:HH21	1.45	0.65
2:Oh:86:ARG:HH11	2:Oh:106:ARG:HH21	1.45	0.65
2:ah:86:ARG:HH11	2:ah:106:ARG:HH21	1.45	0.65
3:Al:59:GLN:O	3:Al:105:ALA:HB1	1.96	0.65
3:Ul:82:ARG:HH12	3:Ul:100:GLN:HG3	1.60	0.65
3:Vl:59:GLN:O	3:Vl:105:ALA:HB1	1.96	0.65
3:al:59:GLN:O	3:al:105:ALA:HB1	1.96	0.65
1:h:381:ASN:ND2	1:h:383:GLY:O	2.24	0.65
2:oh:86:ARG:HH11	2:oh:106:ARG:HH21	1.45	0.65
3:Gl:82:ARG:HH12	3:Gl:100:GLN:HG3	1.60	0.65
3:Hl:82:ARG:HH12	3:Hl:100:GLN:HG3	1.60	0.65
3:Jl:59:GLN:O	3:Jl:105:ALA:HB1	1.96	0.65
3:Zl:59:GLN:O	3:Zl:105:ALA:HB1	1.96	0.65
3:1l:25:THR:HB	3:1l:43:SER:HB2	1.79	0.65
3:cl:59:GLN:O	3:cl:105:ALA:HB1	1.96	0.65
3:jl:59:GLN:O	3:jl:105:ALA:HB1	1.96	0.65
3:nl:82:ARG:HH12	3:nl:100:GLN:HG3	1.60	0.65
3:pl:59:GLN:O	3:pl:105:ALA:HB1	1.96	0.65
3:tl:59:GLN:O	3:tl:105:ALA:HB1	1.96	0.65
3:wl:25:THR:HB	3:wl:43:SER:HB2	1.79	0.65
2:Fh:86:ARG:CD	2:Fh:106:ARG:HH22	2.10	0.65
2:Uh:86:ARG:CD	2:Uh:106:ARG:HH22	2.10	0.65
2:3h:77:LYS:HG3	2:3h:89:ILE:CD1	2.23	0.65
2:gh:86:ARG:CD	2:gh:106:ARG:HH22	2.10	0.65
2:hh:86:ARG:CD	2:hh:106:ARG:HH22	2.10	0.65
2:mh:86:ARG:CD	2:mh:106:ARG:HH22	2.10	0.65
2:qh:86:ARG:CD	2:qh:106:ARG:HH22	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bl:82:ARG:HH12	3:Bl:100:GLN:HG3	1.60	0.65
3:Cl:25:THR:HB	3:Cl:43:SER:HB2	1.79	0.65
3:Cl:82:ARG:HH12	3:Cl:100:GLN:HG3	1.60	0.65
3:Nl:59:GLN:O	3:Nl:105:ALA:HB1	1.96	0.65
3:Wl:25:THR:HB	3:Wl:43:SER:HB2	1.79	0.65
3:Xl:59:GLN:O	3:Xl:105:ALA:HB1	1.96	0.65
3:al:25:THR:HB	3:al:43:SER:HB2	1.79	0.65
3:hl:59:GLN:O	3:hl:105:ALA:HB1	1.96	0.65
3:nl:25:THR:HB	3:nl:43:SER:HB2	1.79	0.65
3:vl:59:GLN:O	3:vl:105:ALA:HB1	1.96	0.65
3:sl:59:GLN:O	3:sl:105:ALA:HB1	1.96	0.65
1:W:423:SER:HB3	1:W:728:THR:CG2	2.24	0.65
2:Eh:86:ARG:CD	2:Eh:106:ARG:HH22	2.10	0.65
2:Th:86:ARG:CD	2:Th:106:ARG:HH22	2.10	0.65
2:5h:77:LYS:HG3	2:5h:89:ILE:CD1	2.23	0.65
2:sh:86:ARG:CD	2:sh:106:ARG:HH22	2.10	0.65
3:Gl:25:THR:HB	3:Gl:43:SER:HB2	1.79	0.65
3:Jl:25:THR:HB	3:Jl:43:SER:HB2	1.79	0.65
3:Ql:25:THR:HB	3:Ql:43:SER:HB2	1.79	0.65
3:Tl:25:THR:HB	3:Tl:43:SER:HB2	1.79	0.65
3:Tl:59:GLN:O	3:Tl:105:ALA:HB1	1.96	0.65
3:4l:59:GLN:O	3:4l:105:ALA:HB1	1.96	0.65
3:gl:59:GLN:O	3:gl:105:ALA:HB1	1.96	0.65
3:il:59:GLN:O	3:il:105:ALA:HB1	1.96	0.65
3:pl:25:THR:HB	3:pl:43:SER:HB2	1.79	0.65
3:rl:25:THR:HB	3:rl:43:SER:HB2	1.79	0.65
3:tl:82:ARG:HH12	3:tl:100:GLN:HG3	1.60	0.65
3:yl:82:ARG:HH12	3:yl:100:GLN:HG3	1.60	0.65
3:zl:25:THR:HB	3:zl:43:SER:HB2	1.79	0.65
1:z:423:SER:HB3	1:z:728:THR:CG2	2.24	0.65
2:Jh:86:ARG:CD	2:Jh:106:ARG:HH22	2.10	0.65
2:Rh:86:ARG:CD	2:Rh:106:ARG:HH22	2.10	0.65
2:4h:86:ARG:CD	2:4h:106:ARG:HH22	2.10	0.65
2:kh:86:ARG:CD	2:kh:106:ARG:HH22	2.10	0.65
2:yh:86:ARG:CD	2:yh:106:ARG:HH22	2.10	0.65
3:Dl:82:ARG:HH12	3:Dl:100:GLN:HG3	1.60	0.65
3:Il:25:THR:HB	3:Il:43:SER:HB2	1.79	0.65
3:Ll:82:ARG:HH12	3:Ll:100:GLN:HG3	1.60	0.65
3:3l:25:THR:HB	3:3l:43:SER:HB2	1.79	0.65
3:4l:25:THR:HB	3:4l:43:SER:HB2	1.79	0.65
3:gl:25:THR:HB	3:gl:43:SER:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ol:25:THR:HB	3:ol:43:SER:HB2	1.79	0.65
3:ul:82:ARG:HH12	3:ul:100:GLN:HG3	1.60	0.65
3:vl:25:THR:HB	3:vl:43:SER:HB2	1.79	0.65
3:sl:25:THR:HB	3:sl:43:SER:HB2	1.79	0.65
1:l:423:SER:HB3	1:l:728:THR:CG2	2.25	0.65
2:Dh:81:ASP:CA	2:Dh:84:LYS:HG3	2.25	0.65
2:Fh:86:ARG:HH11	2:Fh:106:ARG:HH21	1.45	0.65
2:Hh:86:ARG:CD	2:Hh:106:ARG:HH22	2.10	0.65
2:Vh:86:ARG:CD	2:Vh:106:ARG:HH22	2.10	0.65
2:sh:86:ARG:HH11	2:sh:106:ARG:HH21	1.45	0.65
3:Zl:25:THR:HB	3:Zl:43:SER:HB2	1.79	0.65
3:5l:25:THR:HB	3:5l:43:SER:HB2	1.79	0.65
3:al:82:ARG:HH12	3:al:100:GLN:HG3	1.60	0.65
3:el:82:ARG:HH12	3:el:100:GLN:HG3	1.60	0.65
3:kl:25:THR:HB	3:kl:43:SER:HB2	1.79	0.65
3:ul:49:ILE:O	3:ul:87:ARG:NH2	2.30	0.65
1:S:423:SER:HB3	1:S:728:THR:CG2	2.25	0.65
2:Hh:86:ARG:HH11	2:Hh:106:ARG:HH21	1.45	0.65
2:jh:86:ARG:CD	2:jh:106:ARG:HH22	2.10	0.65
2:jh:86:ARG:HH11	2:jh:106:ARG:HH21	1.45	0.65
2:vh:86:ARG:CD	2:vh:106:ARG:HH22	2.10	0.65
3:Al:25:THR:HB	3:Al:43:SER:HB2	1.79	0.65
3:Al:82:ARG:HH12	3:Al:100:GLN:HG3	1.60	0.65
3:Bl:49:ILE:O	3:Bl:87:ARG:NH2	2.30	0.65
3:Il:49:ILE:O	3:Il:87:ARG:NH2	2.30	0.65
3:Mi:82:ARG:HH12	3:Mi:100:GLN:HG3	1.60	0.65
3:Rl:25:THR:HB	3:Rl:43:SER:HB2	1.79	0.65
3:5l:49:ILE:O	3:5l:87:ARG:NH2	2.30	0.65
3:bl:82:ARG:HH12	3:bl:100:GLN:HG3	1.60	0.65
3:hl:25:THR:HB	3:hl:43:SER:HB2	1.79	0.65
3:kl:49:ILE:O	3:kl:87:ARG:NH2	2.30	0.65
3:ol:49:ILE:O	3:ol:87:ARG:NH2	2.30	0.65
2:Jh:86:ARG:HH11	2:Jh:106:ARG:HH21	1.45	0.65
2:Nh:66:TRP:CZ2	2:Nh:69:VAL:HG23	2.32	0.65
2:Vh:86:ARG:HH11	2:Vh:106:ARG:HH21	1.45	0.65
2:Wh:86:ARG:HH11	2:Wh:106:ARG:HH21	1.45	0.65
2:3h:66:TRP:CZ2	2:3h:69:VAL:HG23	2.32	0.65
2:eh:81:ASP:CA	2:eh:84:LYS:HG3	2.25	0.65
2:fh:66:TRP:CZ2	2:fh:69:VAL:HG23	2.32	0.65
2:vh:86:ARG:HH11	2:vh:106:ARG:HH21	1.45	0.65
2:yh:86:ARG:HH11	2:yh:106:ARG:HH21	1.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Fl:49:ILE:O	3:Fl:87:ARG:NH2	2.30	0.65
3:Ol:49:ILE:O	3:Ol:87:ARG:NH2	2.30	0.65
3:Rl:49:ILE:O	3:Rl:87:ARG:NH2	2.30	0.65
3:Sl:49:ILE:O	3:Sl:87:ARG:NH2	2.30	0.65
3:4l:49:ILE:O	3:4l:87:ARG:NH2	2.30	0.65
3:sl:49:ILE:O	3:sl:87:ARG:NH2	2.30	0.65
3:tl:25:THR:HB	3:tl:43:SER:HB2	1.79	0.65
2:Eh:66:TRP:CZ2	2:Eh:69:VAL:HG23	2.32	0.65
2:Gh:86:ARG:CD	2:Gh:106:ARG:HH22	2.10	0.65
2:Kh:66:TRP:CZ2	2:Kh:69:VAL:HG23	2.32	0.65
2:Oh:66:TRP:CZ2	2:Oh:69:VAL:HG23	2.32	0.65
2:Uh:66:TRP:CZ2	2:Uh:69:VAL:HG23	2.32	0.65
2:Zh:86:ARG:CD	2:Zh:106:ARG:HH22	2.10	0.65
2:5h:66:TRP:CZ2	2:5h:69:VAL:HG23	2.32	0.65
2:bh:66:TRP:CZ2	2:bh:69:VAL:HG23	2.32	0.65
2:ch:66:TRP:CZ2	2:ch:69:VAL:HG23	2.32	0.65
2:eh:66:TRP:CZ2	2:eh:69:VAL:HG23	2.32	0.65
2:eh:86:ARG:CD	2:eh:106:ARG:HH22	2.10	0.65
2:mh:66:TRP:CZ2	2:mh:69:VAL:HG23	2.32	0.65
2:nh:86:ARG:CD	2:nh:106:ARG:HH22	2.10	0.65
2:oh:86:ARG:CD	2:oh:106:ARG:HH22	2.10	0.65
2:8h:86:ARG:CD	2:8h:106:ARG:HH22	2.10	0.65
3:Dl:59:GLN:O	3:Dl:105:ALA:HB1	1.96	0.65
3:Ll:25:THR:HB	3:Ll:43:SER:HB2	1.79	0.65
3:Sl:25:THR:HB	3:Sl:43:SER:HB2	1.79	0.65
3:Vl:49:ILE:O	3:Vl:87:ARG:NH2	2.30	0.65
3:Xl:82:ARG:HH12	3:Xl:100:GLN:HG3	1.60	0.65
3:Yl:25:THR:HB	3:Yl:43:SER:HB2	1.79	0.65
3:3l:59:GLN:O	3:3l:105:ALA:HB1	1.96	0.65
3:fl:49:ILE:O	3:fl:87:ARG:NH2	2.30	0.65
3:hl:49:ILE:O	3:hl:87:ARG:NH2	2.30	0.65
3:il:82:ARG:HH12	3:il:100:GLN:HG3	1.60	0.65
3:jl:49:ILE:O	3:jl:87:ARG:NH2	2.30	0.65
3:ll:25:THR:HB	3:ll:43:SER:HB2	1.79	0.65
1:L:423:SER:HB3	1:L:728:THR:HG21	1.80	0.64
1:e:423:SER:HB3	1:e:728:THR:HG21	1.79	0.64
1:n:381:ASN:ND2	1:n:383:GLY:O	2.24	0.64
2:Bh:86:ARG:HH11	2:Bh:106:ARG:HH21	1.45	0.64
2:Dh:66:TRP:CZ2	2:Dh:69:VAL:HG23	2.32	0.64
2:Ih:86:ARG:CD	2:Ih:106:ARG:HH22	2.10	0.64
2:Jh:66:TRP:CZ2	2:Jh:69:VAL:HG23	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Lh:86:ARG:CD	2:Lh:106:ARG:HH22	2.10	0.64
2:Mh:66:TRP:CZ2	2:Mh:69:VAL:HG23	2.32	0.64
2:Mh:81:ASP:C	2:Mh:84:LYS:HG3	2.23	0.64
2:Ph:86:ARG:HH11	2:Ph:106:ARG:HH21	1.45	0.64
2:Qh:86:ARG:HH11	2:Qh:106:ARG:HH21	1.45	0.64
2:Th:86:ARG:HH11	2:Th:106:ARG:HH21	1.45	0.64
2:gh:86:ARG:HH11	2:gh:106:ARG:HH21	1.45	0.64
2:ih:66:TRP:CZ2	2:ih:69:VAL:HG23	2.32	0.64
2:uh:86:ARG:HH11	2:uh:106:ARG:HH21	1.45	0.64
2:vh:66:TRP:CZ2	2:vh:69:VAL:HG23	2.32	0.64
2:xh:66:TRP:CZ2	2:xh:69:VAL:HG23	2.32	0.64
2:zh:86:ARG:HH11	2:zh:106:ARG:HH21	1.45	0.64
3:Ml:49:ILE:O	3:Ml:87:ARG:NH2	2.30	0.64
3:2l:49:ILE:O	3:2l:87:ARG:NH2	2.30	0.64
3:2l:59:GLN:O	3:2l:105:ALA:HB1	1.96	0.64
3:3l:82:ARG:HH12	3:3l:100:GLN:HG3	1.60	0.64
3:6l:49:ILE:O	3:6l:87:ARG:NH2	2.30	0.64
3:6l:59:GLN:O	3:6l:105:ALA:HB1	1.96	0.64
3:zl:82:ARG:HH12	3:zl:100:GLN:HG3	1.60	0.64
3:7l:25:THR:HB	3:7l:43:SER:HB2	1.79	0.64
1:G:381:ASN:ND2	1:G:383:GLY:O	2.24	0.64
1:J:381:ASN:ND2	1:J:383:GLY:O	2.24	0.64
1:X:423:SER:HB3	1:X:728:THR:HG21	1.79	0.64
1:1:423:SER:HB3	1:1:728:THR:HG21	1.80	0.64
1:i:423:SER:HB3	1:i:728:THR:HG21	1.79	0.64
1:r:423:SER:HB3	1:r:728:THR:HG21	1.79	0.64
1:t:423:SER:HB3	1:t:728:THR:HG21	1.80	0.64
1:v:381:ASN:ND2	1:v:383:GLY:O	2.24	0.64
1:w:423:SER:HB3	1:w:728:THR:HG21	1.80	0.64
2:Nh:86:ARG:CD	2:Nh:106:ARG:HH22	2.10	0.64
2:Qh:81:ASP:C	2:Qh:84:LYS:HG3	2.23	0.64
2:Xh:66:TRP:CZ2	2:Xh:69:VAL:HG23	2.32	0.64
2:Zh:66:TRP:CZ2	2:Zh:69:VAL:HG23	2.32	0.64
2:6h:66:TRP:CZ2	2:6h:69:VAL:HG23	2.32	0.64
2:bh:81:ASP:C	2:bh:84:LYS:HG3	2.23	0.64
2:dh:86:ARG:CD	2:dh:106:ARG:HH22	2.10	0.64
2:qh:66:TRP:CZ2	2:qh:69:VAL:HG23	2.32	0.64
2:rh:81:ASP:C	2:rh:84:LYS:HG3	2.23	0.64
2:th:86:ARG:CD	2:th:106:ARG:HH22	2.10	0.64
2:8h:66:TRP:CZ2	2:8h:69:VAL:HG23	2.32	0.64
3:Kl:25:THR:HB	3:Kl:43:SER:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TI:49:ILE:O	3:TI:87:ARG:NH2	2.30	0.64
3:5I:59:GLN:O	3:5I:105:ALA:HB1	1.96	0.64
3:5I:82:ARG:HH12	3:5I:100:GLN:HG3	1.60	0.64
3:6I:25:THR:HB	3:6I:43:SER:HB2	1.79	0.64
3:BI:49:ILE:O	3:BI:87:ARG:NH2	2.30	0.64
3:EI:59:GLN:O	3:EI:105:ALA:HB1	1.96	0.64
3:GI:49:ILE:O	3:GI:87:ARG:NH2	2.30	0.64
3:PI:82:ARG:HH12	3:PI:100:GLN:HG3	1.60	0.64
3:XI:59:GLN:O	3:XI:105:ALA:HB1	1.96	0.64
1:D:423:SER:HB3	1:D:728:THR:HG21	1.80	0.64
1:M:423:SER:HB3	1:M:728:THR:HG21	1.79	0.64
1:Q:423:SER:HB3	1:Q:728:THR:HG21	1.79	0.64
1:Y:423:SER:HB3	1:Y:728:THR:HG21	1.80	0.64
1:b:423:SER:HB3	1:b:728:THR:HG21	1.79	0.64
2:Ch:66:TRP:CZ2	2:Ch:69:VAL:HG23	2.32	0.64
2:Dh:86:ARG:HH11	2:Dh:106:ARG:HH21	1.45	0.64
2:Fh:81:ASP:C	2:Fh:84:LYS:HG3	2.23	0.64
2:Ph:86:ARG:CD	2:Ph:106:ARG:HH22	2.10	0.64
2:1h:66:TRP:CZ2	2:1h:69:VAL:HG23	2.32	0.64
2:2h:66:TRP:CZ2	2:2h:69:VAL:HG23	2.32	0.64
2:4h:86:ARG:HH11	2:4h:106:ARG:HH21	1.45	0.64
2:ah:66:TRP:CZ2	2:ah:69:VAL:HG23	2.32	0.64
2:ch:86:ARG:CD	2:ch:106:ARG:HH22	2.10	0.64
2:dh:86:ARG:HH11	2:dh:106:ARG:HH21	1.45	0.64
2:rh:86:ARG:HH11	2:rh:106:ARG:HH21	1.45	0.64
2:sh:81:ASP:C	2:sh:84:LYS:HG3	2.23	0.64
3:KI:59:GLN:O	3:KI:105:ALA:HB1	1.96	0.64
3:MI:59:GLN:O	3:MI:105:ALA:HB1	1.96	0.64
3:ZI:49:ILE:O	3:ZI:87:ARG:NH2	2.30	0.64
3:XI:25:THR:HB	3:XI:43:SER:HB2	1.79	0.64
1:U:423:SER:HB3	1:U:728:THR:HG21	1.80	0.64
1:2:423:SER:HB3	1:2:728:THR:HG21	1.80	0.64
1:6:423:SER:HB3	1:6:728:THR:HG21	1.80	0.64
1:c:423:SER:HB3	1:c:728:THR:HG21	1.80	0.64
2:Lh:66:TRP:CZ2	2:Lh:69:VAL:HG23	2.32	0.64
2:Lh:86:ARG:HH11	2:Lh:106:ARG:HH21	1.45	0.64
2:Zh:86:ARG:HH11	2:Zh:106:ARG:HH21	1.45	0.64
2:ah:86:ARG:CD	2:ah:106:ARG:HH22	2.10	0.64
2:wh:66:TRP:CZ2	2:wh:69:VAL:HG23	2.32	0.64
3:EI:25:THR:HB	3:EI:43:SER:HB2	1.79	0.64
3:PI:49:ILE:O	3:PI:87:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ul:49:ILE:O	3:Ul:87:ARG:NH2	2.30	0.64
3:Wl:82:ARG:HH12	3:Wl:100:GLN:HG3	1.60	0.64
3:il:25:THR:HB	3:il:43:SER:HB2	1.79	0.64
3:ml:49:ILE:O	3:ml:87:ARG:NH2	2.30	0.64
3:ql:25:THR:HB	3:ql:43:SER:HB2	1.79	0.64
3:wl:59:GLN:O	3:wl:105:ALA:HB1	1.96	0.64
3:8l:49:ILE:O	3:8l:87:ARG:NH2	2.30	0.64
1:N:423:SER:HB3	1:N:728:THR:HG21	1.80	0.64
1:T:386:ALA:O	1:6:706:LYS:HA	1.98	0.64
1:V:423:SER:HB3	1:V:728:THR:HG21	1.80	0.64
1:3:423:SER:HB3	1:3:728:THR:HG21	1.80	0.64
1:5:423:SER:HB3	1:5:728:THR:HG21	1.80	0.64
1:g:423:SER:HB3	1:g:728:THR:HG21	1.80	0.64
1:m:423:SER:HB3	1:m:728:THR:HG21	1.80	0.64
1:7:423:SER:HB3	1:7:728:THR:HG21	1.80	0.64
2:Ch:86:ARG:CD	2:Ch:106:ARG:HH22	2.10	0.64
2:Fh:66:TRP:CZ2	2:Fh:69:VAL:HG23	2.32	0.64
2:Hh:66:TRP:CZ2	2:Hh:69:VAL:HG23	2.32	0.64
2:Lh:81:ASP:C	2:Lh:84:LYS:HG3	2.23	0.64
2:Mh:86:ARG:HH11	2:Mh:106:ARG:HH21	1.45	0.64
2:Uh:86:ARG:HH11	2:Uh:106:ARG:HH21	1.45	0.64
2:Wh:81:ASP:HA	2:Wh:84:LYS:CD	2.28	0.64
2:hh:86:ARG:HH11	2:hh:106:ARG:HH21	1.45	0.64
2:mh:86:ARG:HH11	2:mh:106:ARG:HH21	1.45	0.64
2:sh:66:TRP:CZ2	2:sh:69:VAL:HG23	2.32	0.64
2:th:66:TRP:CZ2	2:th:69:VAL:HG23	2.32	0.64
2:yh:66:TRP:CZ2	2:yh:69:VAL:HG23	2.32	0.64
2:zh:81:ASP:HA	2:zh:84:LYS:CD	2.28	0.64
2:8h:86:ARG:HH11	2:8h:106:ARG:HH21	1.44	0.64
3:Jl:49:ILE:O	3:Jl:87:ARG:NH2	2.30	0.64
3:Ql:49:ILE:O	3:Ql:87:ARG:NH2	2.30	0.64
3:2l:25:THR:HB	3:2l:43:SER:HB2	1.79	0.64
3:bl:25:THR:HB	3:bl:43:SER:HB2	1.79	0.64
3:dl:49:ILE:O	3:dl:87:ARG:NH2	2.30	0.64
1:C:423:SER:HB3	1:C:728:THR:HG21	1.80	0.64
1:T:423:SER:HB3	1:T:728:THR:HG21	1.80	0.64
1:j:423:SER:HB3	1:j:728:THR:HG21	1.80	0.64
1:8:381:ASN:ND2	1:8:383:GLY:O	2.24	0.64
2:Ph:81:ASP:HA	2:Ph:84:LYS:CD	2.28	0.64
2:Rh:66:TRP:CZ2	2:Rh:69:VAL:HG23	2.32	0.64
2:Sh:86:ARG:CD	2:Sh:106:ARG:HH22	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Vh:81:ASP:HA	2:Vh:84:LYS:CD	2.28	0.64
2:Wh:81:ASP:C	2:Wh:84:LYS:HG3	2.23	0.64
2:Zh:81:ASP:HA	2:Zh:84:LYS:CD	2.28	0.64
2:dh:81:ASP:HA	2:dh:84:LYS:CD	2.28	0.64
2:eh:86:ARG:HH11	2:eh:106:ARG:HH21	1.45	0.64
2:gh:66:TRP:CZ2	2:gh:69:VAL:HG23	2.32	0.64
2:kh:66:TRP:CZ2	2:kh:69:VAL:HG23	2.32	0.64
2:th:81:ASP:C	2:th:84:LYS:HG3	2.23	0.64
2:th:86:ARG:HH11	2:th:106:ARG:HH21	1.45	0.64
2:zh:81:ASP:C	2:zh:84:LYS:HG3	2.23	0.64
2:8h:81:ASP:HA	2:8h:84:LYS:CD	2.28	0.64
3:Ml:25:THR:HB	3:Ml:43:SER:HB2	1.79	0.64
3:Nl:49:ILE:O	3:Nl:87:ARG:NH2	2.30	0.64
3:Vl:25:THR:HB	3:Vl:43:SER:HB2	1.79	0.64
3:Wl:49:ILE:O	3:Wl:87:ARG:NH2	2.30	0.64
3:Xl:25:THR:HB	3:Xl:43:SER:HB2	1.79	0.64
3:bl:59:GLN:O	3:bl:105:ALA:HB1	1.96	0.64
3:ll:49:ILE:O	3:ll:87:ARG:NH2	2.30	0.64
3:ql:49:ILE:O	3:ql:87:ARG:NH2	2.30	0.64
3:rl:49:ILE:O	3:rl:87:ARG:NH2	2.30	0.64
3:sl:59:GLN:O	3:sl:105:ALA:HB1	1.96	0.64
3:zl:49:ILE:O	3:zl:87:ARG:NH2	2.30	0.64
1:W:423:SER:HB3	1:W:728:THR:HG21	1.80	0.64
1:a:423:SER:HB3	1:a:728:THR:HG21	1.80	0.64
1:k:423:SER:HB3	1:k:728:THR:HG21	1.80	0.64
1:z:423:SER:HB3	1:z:728:THR:HG21	1.79	0.64
2:Ah:81:ASP:HA	2:Ah:84:LYS:CD	2.28	0.64
2:Kh:81:ASP:HA	2:Kh:84:LYS:CD	2.28	0.64
2:Th:66:TRP:CZ2	2:Th:69:VAL:HG23	2.32	0.64
2:Uh:81:ASP:C	2:Uh:84:LYS:HG3	2.23	0.64
2:1h:86:ARG:HH11	2:1h:106:ARG:HH21	1.45	0.64
2:3h:81:ASP:HA	2:3h:84:LYS:CD	2.28	0.64
2:5h:81:ASP:HA	2:5h:84:LYS:CD	2.28	0.64
2:bh:86:ARG:HH11	2:bh:106:ARG:HH21	1.45	0.64
2:jh:66:TRP:CZ2	2:jh:69:VAL:HG23	2.32	0.64
2:jh:81:ASP:HA	2:jh:84:LYS:CD	2.28	0.64
2:mh:81:ASP:C	2:mh:84:LYS:HG3	2.23	0.64
2:vh:81:ASP:HA	2:vh:84:LYS:CD	2.28	0.64
2:xh:81:ASP:HA	2:xh:84:LYS:CD	2.28	0.64
2:xh:81:ASP:C	2:xh:84:LYS:HG3	2.23	0.64
2:zh:66:TRP:CZ2	2:zh:69:VAL:HG23	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cl:49:ILE:O	3:Cl:87:ARG:NH2	2.30	0.64
3:El:59:GLN:O	3:El:105:ALA:HB1	1.96	0.64
3:Rl:59:GLN:O	3:Rl:105:ALA:HB1	1.96	0.64
3:Sl:49:ILE:O	3:Sl:87:ARG:NH2	2.30	0.64
3:cl:49:ILE:O	3:cl:87:ARG:NH2	2.30	0.64
3:kl:59:GLN:O	3:kl:105:ALA:HB1	1.96	0.64
3:vl:49:ILE:O	3:vl:87:ARG:NH2	2.30	0.64
3:yl:25:THR:HB	3:yl:43:SER:HB2	1.79	0.64
1:H:423:SER:HB3	1:H:728:THR:HG21	1.80	0.64
1:R:423:SER:HB3	1:R:728:THR:HG21	1.80	0.64
1:u:423:SER:HB3	1:u:728:THR:HG21	1.80	0.64
2:Ah:81:ASP:C	2:Ah:84:LYS:HG3	2.23	0.64
2:Bh:86:ARG:CD	2:Bh:106:ARG:HH22	2.10	0.64
2:Ch:81:ASP:HA	2:Ch:84:LYS:CD	2.28	0.64
2:Ih:66:TRP:HZ2	2:Ih:69:VAL:HG23	1.63	0.64
2:Jh:81:ASP:HA	2:Jh:84:LYS:CD	2.28	0.64
2:Nh:86:ARG:HH11	2:Nh:106:ARG:HH21	1.45	0.64
2:Rh:86:ARG:HD3	2:Rh:106:ARG:NH2	2.13	0.64
2:Vh:66:TRP:CZ2	2:Vh:69:VAL:HG23	2.32	0.64
2:Wh:66:TRP:CZ2	2:Wh:69:VAL:HG23	2.32	0.64
2:Xh:81:ASP:C	2:Xh:84:LYS:HG3	2.23	0.64
2:1h:66:TRP:HZ2	2:1h:69:VAL:HG23	1.63	0.64
2:dh:81:ASP:C	2:dh:84:LYS:HG3	2.23	0.64
2:hh:81:ASP:HA	2:hh:84:LYS:CD	2.28	0.64
2:kh:86:ARG:HD3	2:kh:106:ARG:NH2	2.13	0.64
2:lh:86:ARG:CD	2:lh:106:ARG:HH22	2.10	0.64
2:nh:66:TRP:HZ2	2:nh:69:VAL:HG23	1.63	0.64
2:oh:66:TRP:HZ2	2:oh:69:VAL:HG23	1.63	0.64
2:ph:81:ASP:HA	2:ph:84:LYS:CD	2.28	0.64
2:uh:81:ASP:HA	2:uh:84:LYS:CD	2.28	0.64
2:wh:66:TRP:HZ2	2:wh:69:VAL:HG23	1.63	0.64
3:El:49:ILE:O	3:El:87:ARG:NH2	2.30	0.64
3:Il:59:GLN:O	3:Il:105:ALA:HB1	1.96	0.64
3:al:49:ILE:O	3:al:87:ARG:NH2	2.30	0.64
3:jl:25:THR:HB	3:jl:43:SER:HB2	1.79	0.64
3:ql:59:GLN:O	3:ql:105:ALA:HB1	1.96	0.64
1:B:423:SER:HB3	1:B:728:THR:HG21	1.80	0.64
1:Z:381:ASN:ND2	1:Z:383:GLY:O	2.24	0.64
1:y:423:SER:HB3	1:y:728:THR:HG21	1.80	0.64
2:Ah:86:ARG:HD3	2:Ah:106:ARG:NH2	2.13	0.64
2:Bh:81:ASP:HA	2:Bh:84:LYS:CD	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gh:66:TRP:HZ2	2:Gh:69:VAL:HG23	1.63	0.64
2:Gh:81:ASP:HA	2:Gh:84:LYS:CD	2.28	0.64
2:Kh:81:ASP:C	2:Kh:84:LYS:HG3	2.23	0.64
2:Nh:86:ARG:HD3	2:Nh:106:ARG:NH2	2.13	0.64
2:Ph:66:TRP:CZ2	2:Ph:69:VAL:HG23	2.32	0.64
2:1h:86:ARG:CD	2:1h:106:ARG:HH22	2.10	0.64
2:4h:81:ASP:HA	2:4h:84:LYS:CD	2.28	0.64
2:6h:86:ARG:CD	2:6h:106:ARG:HH22	2.10	0.64
2:ah:81:ASP:HA	2:ah:84:LYS:CD	2.28	0.64
2:ch:86:ARG:HD3	2:ch:106:ARG:NH2	2.13	0.64
2:ih:81:ASP:C	2:ih:84:LYS:HG3	2.23	0.64
2:kh:66:TRP:HZ2	2:kh:69:VAL:HG23	1.63	0.64
2:ph:81:ASP:C	2:ph:84:LYS:HG3	2.23	0.64
2:sh:66:TRP:HZ2	2:sh:69:VAL:HG23	1.63	0.64
2:xh:86:ARG:HH11	2:xh:106:ARG:HH21	1.45	0.64
3:Al:49:ILE:O	3:Al:87:ARG:NH2	2.30	0.64
3:Dl:49:ILE:O	3:Dl:87:ARG:NH2	2.30	0.64
3:Fl:25:THR:HB	3:Fl:43:SER:HB2	1.79	0.64
3:Fl:59:GLN:O	3:Fl:105:ALA:HB1	1.96	0.64
3:Hl:25:THR:HB	3:Hl:43:SER:HB2	1.79	0.64
3:Kl:49:ILE:O	3:Kl:87:ARG:NH2	2.30	0.64
3:dl:25:THR:HB	3:dl:43:SER:HB2	1.79	0.64
3:pl:49:ILE:O	3:pl:87:ARG:NH2	2.30	0.64
3:xl:49:ILE:O	3:xl:87:ARG:NH2	2.30	0.64
2:Fh:66:TRP:HZ2	2:Fh:69:VAL:HG23	1.63	0.64
2:Gh:66:TRP:CZ2	2:Gh:69:VAL:HG23	2.32	0.64
2:Jh:81:ASP:C	2:Jh:84:LYS:HG3	2.23	0.64
2:Kh:86:ARG:HH11	2:Kh:106:ARG:HH21	1.45	0.64
2:Oh:81:ASP:C	2:Oh:84:LYS:HG3	2.23	0.64
2:Ph:81:ASP:C	2:Ph:84:LYS:HG3	2.23	0.64
2:Rh:66:TRP:HZ2	2:Rh:69:VAL:HG23	1.63	0.64
2:1h:81:ASP:C	2:1h:84:LYS:HG3	2.23	0.64
2:2h:86:ARG:CD	2:2h:106:ARG:HH22	2.10	0.64
2:bh:66:TRP:HZ2	2:bh:69:VAL:HG23	1.63	0.64
2:ih:86:ARG:CD	2:ih:106:ARG:HH22	2.10	0.64
2:kh:81:ASP:C	2:kh:84:LYS:HG3	2.23	0.64
2:nh:81:ASP:HA	2:nh:84:LYS:CD	2.28	0.64
2:ph:86:ARG:HD3	2:ph:106:ARG:NH2	2.13	0.64
2:uh:86:ARG:HD3	2:uh:106:ARG:NH2	2.13	0.64
2:uh:86:ARG:CD	2:uh:106:ARG:HH22	2.10	0.64
2:wh:86:ARG:CD	2:wh:106:ARG:HH22	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:wh:86:ARG:HH11	2:wh:106:ARG:HH21	1.45	0.64
3:Bl:25:THR:HB	3:Bl:43:SER:HB2	1.79	0.64
3:Gl:49:ILE:O	3:Gl:87:ARG:NH2	2.30	0.64
3:Hl:49:ILE:O	3:Hl:87:ARG:NH2	2.30	0.64
3:Yl:49:ILE:O	3:Yl:87:ARG:NH2	2.30	0.64
3:el:49:ILE:O	3:el:87:ARG:NH2	2.30	0.64
3:nl:59:GLN:O	3:nl:105:ALA:HB1	1.96	0.64
3:sl:25:THR:HB	3:sl:43:SER:HB2	1.79	0.64
3:ul:25:THR:HB	3:ul:43:SER:HB2	1.79	0.64
3:yl:49:ILE:O	3:yl:87:ARG:NH2	2.30	0.64
2:Bh:86:ARG:HD3	2:Bh:106:ARG:NH2	2.13	0.63
2:Rh:81:ASP:C	2:Rh:84:LYS:HG3	2.23	0.63
2:Sh:66:TRP:CZ2	2:Sh:69:VAL:HG23	2.32	0.63
2:Vh:66:TRP:HZ2	2:Vh:69:VAL:HG23	1.63	0.63
2:Vh:81:ASP:C	2:Vh:84:LYS:HG3	2.23	0.63
2:Yh:86:ARG:CD	2:Yh:106:ARG:HH22	2.10	0.63
2:2h:81:ASP:C	2:2h:84:LYS:HG3	2.23	0.63
2:4h:66:TRP:CZ2	2:4h:69:VAL:HG23	2.32	0.63
2:5h:86:ARG:HH11	2:5h:106:ARG:HH21	1.44	0.63
2:6h:81:ASP:C	2:6h:84:LYS:HG3	2.23	0.63
2:ch:86:ARG:HH11	2:ch:106:ARG:HH21	1.45	0.63
2:dh:66:TRP:CZ2	2:dh:69:VAL:HG23	2.32	0.63
2:fh:81:ASP:C	2:fh:84:LYS:HG3	2.23	0.63
2:hh:66:TRP:CZ2	2:hh:69:VAL:HG23	2.32	0.63
2:nh:66:TRP:CZ2	2:nh:69:VAL:HG23	2.32	0.63
2:oh:81:ASP:C	2:oh:84:LYS:HG3	2.23	0.63
2:ph:66:TRP:CZ2	2:ph:69:VAL:HG23	2.32	0.63
2:qh:81:ASP:C	2:qh:84:LYS:HG3	2.23	0.63
2:wh:81:ASP:C	2:wh:84:LYS:HG3	2.23	0.63
3:Il:59:GLN:O	3:Il:105:ALA:HB1	1.96	0.63
3:Pl:25:THR:HB	3:Pl:43:SER:HB2	1.79	0.63
3:fl:25:THR:HB	3:fl:43:SER:HB2	1.79	0.63
3:nl:49:ILE:O	3:nl:87:ARG:NH2	2.30	0.63
3:7l:49:ILE:O	3:7l:87:ARG:NH2	2.30	0.63
2:Dh:81:ASP:C	2:Dh:84:LYS:HG3	2.23	0.63
2:Eh:81:ASP:C	2:Eh:84:LYS:HG3	2.23	0.63
2:Kh:86:ARG:HD3	2:Kh:106:ARG:NH2	2.13	0.63
2:Mh:66:TRP:HZ2	2:Mh:69:VAL:HG23	1.63	0.63
2:Nh:66:TRP:HZ2	2:Nh:69:VAL:HG23	1.63	0.63
2:Qh:66:TRP:CZ2	2:Qh:69:VAL:HG23	2.32	0.63
2:Uh:66:TRP:HZ2	2:Uh:69:VAL:HG23	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Wh:66:TRP:HZ2	2:Wh:69:VAL:HG23	1.63	0.63
2:Xh:86:ARG:CD	2:Xh:106:ARG:HH22	2.10	0.63
2:1h:81:ASP:HA	2:1h:84:LYS:CD	2.28	0.63
2:2h:66:TRP:HZ2	2:2h:69:VAL:HG23	1.63	0.63
2:2h:86:ARG:HH11	2:2h:106:ARG:HH21	1.44	0.63
2:eh:81:ASP:C	2:eh:84:LYS:HG3	2.23	0.63
2:jh:66:TRP:HZ2	2:jh:69:VAL:HG23	1.63	0.63
2:jh:81:ASP:C	2:jh:84:LYS:HG3	2.23	0.63
2:lh:66:TRP:CZ2	2:lh:69:VAL:HG23	2.32	0.63
2:nh:86:ARG:HD3	2:nh:106:ARG:NH2	2.13	0.63
3:Gl:59:GLN:O	3:Gl:105:ALA:HB1	1.96	0.63
3:tl:49:ILE:O	3:tl:87:ARG:NH2	2.30	0.63
1:l:423:SER:HB3	1:l:728:THR:HG21	1.80	0.63
2:Gh:86:ARG:HD3	2:Gh:106:ARG:NH2	2.13	0.63
2:Hh:81:ASP:C	2:Hh:84:LYS:HG3	2.23	0.63
2:Rh:81:ASP:HA	2:Rh:84:LYS:CD	2.28	0.63
2:Th:66:TRP:HZ2	2:Th:69:VAL:HG23	1.63	0.63
2:3h:81:ASP:C	2:3h:84:LYS:HG3	2.23	0.63
2:6h:66:TRP:HZ2	2:6h:69:VAL:HG23	1.63	0.63
2:ch:66:TRP:HZ2	2:ch:69:VAL:HG23	1.63	0.63
2:gh:66:TRP:HZ2	2:gh:69:VAL:HG23	1.63	0.63
2:gh:81:ASP:HA	2:gh:84:LYS:CD	2.28	0.63
2:kh:81:ASP:HA	2:kh:84:LYS:CD	2.28	0.63
2:lh:81:ASP:HA	2:lh:84:LYS:CD	2.28	0.63
2:mh:66:TRP:HZ2	2:mh:69:VAL:HG23	1.63	0.63
2:rh:66:TRP:CZ2	2:rh:69:VAL:HG23	2.32	0.63
2:uh:66:TRP:HZ2	2:uh:69:VAL:HG23	1.63	0.63
2:vh:66:TRP:HZ2	2:vh:69:VAL:HG23	1.63	0.63
2:wh:81:ASP:HA	2:wh:84:LYS:CD	2.28	0.63
2:xh:86:ARG:HD3	2:xh:106:ARG:NH2	2.13	0.63
2:xh:86:ARG:CD	2:xh:106:ARG:HH22	2.10	0.63
2:7h:86:ARG:CD	2:7h:106:ARG:HH22	2.10	0.63
3:Ll:49:ILE:O	3:Ll:87:ARG:NH2	2.30	0.63
3:Nl:25:THR:HB	3:Nl:43:SER:HB2	1.79	0.63
3:Ol:25:THR:HB	3:Ol:43:SER:HB2	1.79	0.63
3:Xl:49:ILE:O	3:Xl:87:ARG:NH2	2.30	0.63
3:ol:59:GLN:O	3:ol:105:ALA:HB1	1.96	0.63
1:K:423:SER:HB3	1:K:728:THR:HG21	1.80	0.63
1:S:423:SER:HB3	1:S:728:THR:HG21	1.80	0.63
2:Ah:66:TRP:CZ2	2:Ah:69:VAL:HG23	2.32	0.63
2:Bh:66:TRP:CZ2	2:Bh:69:VAL:HG23	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bh:66:TRP:HZ2	2:Bh:69:VAL:HG23	1.63	0.63
2:Gh:81:ASP:C	2:Gh:84:LYS:HG3	2.23	0.63
2:Jh:66:TRP:HZ2	2:Jh:69:VAL:HG23	1.63	0.63
2:Rh:86:ARG:HH11	2:Rh:106:ARG:HH21	1.45	0.63
2:Sh:81:ASP:HA	2:Sh:84:LYS:CD	2.28	0.63
2:Th:81:ASP:HA	2:Th:84:LYS:CD	2.28	0.63
2:Yh:66:TRP:CZ2	2:Yh:69:VAL:HG23	2.32	0.63
2:3h:86:ARG:HH11	2:3h:106:ARG:HH21	1.45	0.63
2:fh:81:ASP:HA	2:fh:84:LYS:CD	2.28	0.63
2:kh:86:ARG:HH11	2:kh:106:ARG:HH21	1.45	0.63
2:mh:81:ASP:HA	2:mh:84:LYS:CD	2.28	0.63
2:nh:81:ASP:C	2:nh:84:LYS:HG3	2.23	0.63
2:qh:81:ASP:HA	2:qh:84:LYS:CD	2.28	0.63
2:uh:66:TRP:CZ2	2:uh:69:VAL:HG23	2.32	0.63
2:vh:81:ASP:C	2:vh:84:LYS:HG3	2.23	0.63
2:yh:66:TRP:HZ2	2:yh:69:VAL:HG23	1.63	0.63
2:yh:81:ASP:C	2:yh:84:LYS:HG3	2.23	0.63
2:zh:66:TRP:HZ2	2:zh:69:VAL:HG23	1.63	0.63
2:7h:66:TRP:CZ2	2:7h:69:VAL:HG23	2.32	0.63
3:Dl:25:THR:HB	3:Dl:43:SER:HB2	1.79	0.63
3:cl:25:THR:HB	3:cl:43:SER:HB2	1.79	0.63
2:Bh:81:ASP:C	2:Bh:84:LYS:HG3	2.23	0.63
2:Ch:81:ASP:C	2:Ch:84:LYS:HG3	2.23	0.63
2:Eh:81:ASP:HA	2:Eh:84:LYS:CD	2.28	0.63
2:Kh:86:ARG:CD	2:Kh:106:ARG:HH22	2.10	0.63
2:Oh:81:ASP:HA	2:Oh:84:LYS:CD	2.28	0.63
2:Sh:86:ARG:HH11	2:Sh:106:ARG:HH21	1.45	0.63
2:Uh:81:ASP:HA	2:Uh:84:LYS:CD	2.28	0.63
2:5h:81:ASP:C	2:5h:84:LYS:HG3	2.23	0.63
2:6h:86:ARG:HH11	2:6h:106:ARG:HH21	1.45	0.63
3:Rl:58:GLN:HB2	3:Rl:68:LEU:HD11	1.81	0.63
3:Vl:58:GLN:HB2	3:Vl:68:LEU:HD11	1.81	0.63
3:2l:58:GLN:HB2	3:2l:68:LEU:HD11	1.81	0.63
3:3l:58:GLN:HB2	3:3l:68:LEU:HD11	1.81	0.63
3:6l:58:GLN:HB2	3:6l:68:LEU:HD11	1.81	0.63
3:il:49:ILE:O	3:il:87:ARG:NH2	2.30	0.63
3:jl:58:GLN:HB2	3:jl:68:LEU:HD11	1.81	0.63
3:ll:58:GLN:HB2	3:ll:68:LEU:HD11	1.81	0.63
1:s:423:SER:HB3	1:s:728:THR:HG21	1.80	0.63
1:x:423:SER:HB3	1:x:728:THR:HG21	1.80	0.63
2:Eh:66:TRP:HZ2	2:Eh:69:VAL:HG23	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Hh:66:TRP:HZ2	2:Hh:69:VAL:HG23	1.63	0.63
2:Ih:66:TRP:CZ2	2:Ih:69:VAL:HG23	2.32	0.63
2:4h:66:TRP:HZ2	2:4h:69:VAL:HG23	1.63	0.63
2:gh:81:ASP:C	2:gh:84:LYS:HG3	2.23	0.63
2:ih:86:ARG:HH11	2:ih:106:ARG:HH21	1.45	0.63
2:lh:86:ARG:HH11	2:lh:106:ARG:HH21	1.45	0.63
2:th:81:ASP:HA	2:th:84:LYS:CD	2.28	0.63
2:uh:81:ASP:C	2:uh:84:LYS:HG3	2.23	0.63
3:Ol:58:GLN:HB2	3:Ol:68:LEU:HD11	1.81	0.63
3:Sl:58:GLN:HB2	3:Sl:68:LEU:HD11	1.81	0.63
3:1l:49:ILE:O	3:1l:87:ARG:NH2	2.30	0.63
3:5l:58:GLN:HB2	3:5l:68:LEU:HD11	1.81	0.63
3:cl:58:GLN:HB2	3:cl:68:LEU:HD11	1.81	0.63
3:el:25:THR:HB	3:el:43:SER:HB2	1.79	0.63
3:fl:58:GLN:HB2	3:fl:68:LEU:HD11	1.81	0.63
3:kl:58:GLN:HB2	3:kl:68:LEU:HD11	1.81	0.63
1:F:423:SER:HB3	1:F:728:THR:HG21	1.80	0.63
1:n:423:SER:HB3	1:n:728:THR:HG21	1.80	0.63
1:8:423:SER:HB3	1:8:728:THR:HG21	1.79	0.63
2:Dh:86:ARG:HD3	2:Dh:106:ARG:NH2	2.13	0.63
2:Fh:81:ASP:HA	2:Fh:84:LYS:CD	2.28	0.63
2:Lh:81:ASP:HA	2:Lh:84:LYS:CD	2.28	0.63
2:Nh:81:ASP:C	2:Nh:84:LYS:HG3	2.23	0.63
2:Th:81:ASP:C	2:Th:84:LYS:HG3	2.23	0.63
2:Xh:86:ARG:HH11	2:Xh:106:ARG:HH21	1.45	0.63
2:ah:81:ASP:C	2:ah:84:LYS:HG3	2.23	0.63
2:ch:81:ASP:C	2:ch:84:LYS:HG3	2.23	0.63
2:hh:66:TRP:HZ2	2:hh:69:VAL:HG23	1.63	0.63
2:lh:81:ASP:C	2:lh:84:LYS:HG3	2.23	0.63
2:oh:66:TRP:CZ2	2:oh:69:VAL:HG23	2.32	0.63
2:8h:81:ASP:C	2:8h:84:LYS:HG3	2.23	0.63
3:Hl:58:GLN:HB2	3:Hl:68:LEU:HD11	1.81	0.63
3:Nl:58:GLN:HB2	3:Nl:68:LEU:HD11	1.81	0.63
3:Zl:58:GLN:HB2	3:Zl:68:LEU:HD11	1.81	0.63
3:ml:25:THR:HB	3:ml:43:SER:HB2	1.79	0.63
3:yl:58:GLN:HB2	3:yl:68:LEU:HD11	1.81	0.63
3:8l:58:GLN:HB2	3:8l:68:LEU:HD11	1.81	0.63
1:J:423:SER:HB3	1:J:728:THR:HG21	1.80	0.63
1:P:423:SER:HB3	1:P:728:THR:HG21	1.80	0.63
1:d:423:SER:HB3	1:d:728:THR:HG21	1.80	0.63
1:v:423:SER:HB3	1:v:728:THR:HG21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oh:86:ARG:HD3	2:Oh:106:ARG:NH2	2.13	0.63
2:Qh:66:TRP:HZ2	2:Qh:69:VAL:HG23	1.63	0.63
2:Qh:81:ASP:HA	2:Qh:84:LYS:CD	2.28	0.63
2:Sh:81:ASP:C	2:Sh:84:LYS:HG3	2.23	0.63
2:Xh:81:ASP:HA	2:Xh:84:LYS:CD	2.28	0.63
2:6h:81:ASP:HA	2:6h:84:LYS:CD	2.28	0.63
2:eh:81:ASP:HA	2:eh:84:LYS:CD	2.28	0.63
2:eh:86:ARG:HD3	2:eh:106:ARG:NH2	2.13	0.63
2:fh:86:ARG:HD3	2:fh:106:ARG:NH2	2.13	0.63
2:rh:81:ASP:HA	2:rh:84:LYS:CD	2.28	0.63
2:yh:81:ASP:HA	2:yh:84:LYS:CD	2.28	0.63
3:Jl:58:GLN:HB2	3:Jl:68:LEU:HD11	1.81	0.63
3:Pl:58:GLN:HB2	3:Pl:68:LEU:HD11	1.81	0.63
3:Tl:58:GLN:HB2	3:Tl:68:LEU:HD11	1.81	0.63
3:gl:58:GLN:HB2	3:gl:68:LEU:HD11	1.81	0.63
1:G:423:SER:HB3	1:G:728:THR:HG21	1.80	0.63
2:Hh:81:ASP:HA	2:Hh:84:LYS:CD	2.28	0.63
2:Ih:81:ASP:HA	2:Ih:84:LYS:CD	2.28	0.63
2:Oh:66:TRP:HZ2	2:Oh:69:VAL:HG23	1.63	0.63
2:Zh:81:ASP:C	2:Zh:84:LYS:HG3	2.23	0.63
2:2h:81:ASP:HA	2:2h:84:LYS:CD	2.28	0.63
2:ch:81:ASP:HA	2:ch:84:LYS:CD	2.28	0.63
2:oh:81:ASP:HA	2:oh:84:LYS:CD	2.28	0.63
2:qh:66:TRP:HZ2	2:qh:69:VAL:HG23	1.63	0.63
3:Ul:25:THR:HB	3:Ul:43:SER:HB2	1.79	0.63
3:vl:58:GLN:HB2	3:vl:68:LEU:HD11	1.81	0.63
3:wl:49:ILE:O	3:wl:87:ARG:NH2	2.30	0.63
1:O:423:SER:HB3	1:O:728:THR:HG21	1.79	0.62
1:Z:423:SER:HB3	1:Z:728:THR:HG21	1.79	0.62
2:Dh:81:ASP:HA	2:Dh:84:LYS:CD	2.28	0.62
2:Ih:35:ARG:HG2	2:Ih:36:SER:H	1.64	0.62
2:Nh:81:ASP:HA	2:Nh:84:LYS:CD	2.28	0.62
2:Xh:35:ARG:HG2	2:Xh:36:SER:H	1.64	0.62
2:3h:66:TRP:HB2	3:3l:120:PHE:HE2	1.64	0.62
2:4h:81:ASP:C	2:4h:84:LYS:HG3	2.23	0.62
2:6h:86:ARG:HD3	2:6h:106:ARG:NH2	2.13	0.62
2:fh:66:TRP:HZ2	2:fh:69:VAL:HG23	1.63	0.62
2:ih:81:ASP:HA	2:ih:84:LYS:CD	2.28	0.62
2:kh:35:ARG:HG2	2:kh:36:SER:H	1.65	0.62
2:oh:35:ARG:HG2	2:oh:36:SER:H	1.64	0.62
2:ph:86:ARG:HH11	2:ph:106:ARG:HH21	1.45	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:rh:66:TRP:HZ2	2:rh:69:VAL:HG23	1.63	0.62
2:sh:81:ASP:HA	2:sh:84:LYS:CD	2.28	0.62
2:wh:86:ARG:HD3	2:wh:106:ARG:NH2	2.13	0.62
3:al:58:GLN:HB2	3:al:68:LEU:HD11	1.81	0.62
3:wl:58:GLN:HB2	3:wl:68:LEU:HD11	1.81	0.62
1:4:423:SER:HB3	1:4:728:THR:HG21	1.80	0.62
1:f:423:SER:HB3	1:f:728:THR:HG21	1.80	0.62
2:Ah:86:ARG:HH11	2:Ah:106:ARG:HH21	1.45	0.62
2:Bh:35:ARG:HG2	2:Bh:36:SER:H	1.65	0.62
2:Oh:35:ARG:HG2	2:Oh:36:SER:H	1.65	0.62
2:Wh:35:ARG:HG2	2:Wh:36:SER:H	1.64	0.62
2:1h:86:ARG:HD3	2:1h:106:ARG:NH2	2.13	0.62
2:2h:86:ARG:HD3	2:2h:106:ARG:NH2	2.13	0.62
2:5h:66:TRP:HB2	3:5l:120:PHE:HE2	1.64	0.62
2:5h:86:ARG:CD	2:5h:106:ARG:HH22	2.10	0.62
2:6h:66:TRP:HB2	3:6l:120:PHE:HE2	1.64	0.62
2:eh:66:TRP:HZ2	2:eh:69:VAL:HG23	1.63	0.62
2:hh:81:ASP:C	2:hh:84:LYS:HG3	2.23	0.62
2:ih:35:ARG:HG2	2:ih:36:SER:H	1.64	0.62
2:uh:35:ARG:HG2	2:uh:36:SER:H	1.65	0.62
3:Cl:58:GLN:HB2	3:Cl:68:LEU:HD11	1.81	0.62
3:Dl:58:GLN:HB2	3:Dl:68:LEU:HD11	1.81	0.62
3:Il:58:GLN:HB2	3:Il:68:LEU:HD11	1.81	0.62
3:dl:58:GLN:HB2	3:dl:68:LEU:HD11	1.81	0.62
3:el:58:GLN:HB2	3:el:68:LEU:HD11	1.81	0.62
1:h:423:SER:HB3	1:h:728:THR:HG21	1.80	0.62
2:Dh:35:ARG:HG2	2:Dh:36:SER:H	1.65	0.62
2:Gh:86:ARG:HH11	2:Gh:106:ARG:HH21	1.45	0.62
2:Rh:35:ARG:HG2	2:Rh:36:SER:H	1.65	0.62
2:1h:35:ARG:HG2	2:1h:36:SER:H	1.64	0.62
2:2h:66:TRP:HB2	3:2l:120:PHE:HE2	1.64	0.62
2:3h:86:ARG:CD	2:3h:106:ARG:HH22	2.10	0.62
2:bh:86:ARG:CD	2:bh:106:ARG:HH22	2.10	0.62
2:eh:35:ARG:HG2	2:eh:36:SER:H	1.64	0.62
2:fh:35:ARG:HG2	2:fh:36:SER:H	1.65	0.62
2:zh:35:ARG:HG2	2:zh:36:SER:H	1.65	0.62
2:7h:81:ASP:HA	2:7h:84:LYS:CD	2.28	0.62
3:Xl:58:GLN:HB2	3:Xl:68:LEU:HD11	1.81	0.62
1:q:423:SER:HB3	1:q:728:THR:HG21	1.80	0.62
2:Eh:86:ARG:HH11	2:Eh:106:ARG:HH21	1.45	0.62
2:Mh:86:ARG:CD	2:Mh:106:ARG:HH22	2.10	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oh:86:ARG:CD	2:Oh:106:ARG:HH22	2.10	0.62
2:Wh:86:ARG:HD3	2:Wh:106:ARG:NH2	2.13	0.62
2:Yh:81:ASP:HA	2:Yh:84:LYS:CD	2.28	0.62
2:fh:86:ARG:CD	2:fh:106:ARG:HH22	2.10	0.62
2:qh:35:ARG:HG2	2:qh:36:SER:H	1.64	0.62
3:il:58:GLN:HB2	3:il:68:LEU:HD11	1.81	0.62
1:p:423:SER:HB3	1:p:728:THR:HG21	1.80	0.62
2:Eh:35:ARG:HG2	2:Eh:36:SER:H	1.65	0.62
2:Ih:81:ASP:C	2:Ih:84:LYS:HG3	2.23	0.62
2:Wh:86:ARG:CD	2:Wh:106:ARG:HH22	2.10	0.62
2:2h:35:ARG:HG2	2:2h:36:SER:H	1.64	0.62
2:ch:35:ARG:HG2	2:ch:36:SER:H	1.64	0.62
2:nh:86:ARG:HH11	2:nh:106:ARG:HH21	1.45	0.62
2:wh:35:ARG:HG2	2:wh:36:SER:H	1.64	0.62
2:zh:86:ARG:HD3	2:zh:106:ARG:NH2	2.13	0.62
2:8h:35:ARG:HG2	2:8h:36:SER:H	1.65	0.62
3:Gl:58:GLN:HB2	3:Gl:68:LEU:HD11	1.81	0.62
3:bl:58:GLN:HB2	3:bl:68:LEU:HD11	1.81	0.62
3:nl:58:GLN:HB2	3:nl:68:LEU:HD11	1.81	0.62
3:sl:58:GLN:HB2	3:sl:68:LEU:HD11	1.81	0.62
1:E:423:SER:HB3	1:E:728:THR:HG21	1.80	0.62
1:l:706:LYS:HA	1:o:386:ALA:O	2.00	0.62
2:Dh:66:TRP:HZ2	2:Dh:69:VAL:HG23	1.63	0.62
2:Kh:35:ARG:HG2	2:Kh:36:SER:H	1.64	0.62
2:Nh:35:ARG:HG2	2:Nh:36:SER:H	1.64	0.62
2:Ph:66:TRP:HZ2	2:Ph:69:VAL:HG23	1.63	0.62
2:Uh:86:ARG:HD3	2:Uh:106:ARG:NH2	2.13	0.62
2:Zh:35:ARG:HG2	2:Zh:36:SER:H	1.65	0.62
2:6h:35:ARG:HG2	2:6h:36:SER:H	1.64	0.62
3:Fl:58:GLN:HB2	3:Fl:68:LEU:HD11	1.81	0.62
3:MI:58:GLN:HB2	3:MI:68:LEU:HD11	1.81	0.62
3:Wl:58:GLN:HB2	3:Wl:68:LEU:HD11	1.81	0.62
3:zl:58:GLN:HB2	3:zl:68:LEU:HD11	1.81	0.62
1:A:423:SER:HB3	1:A:728:THR:HG21	1.80	0.62
1:o:423:SER:HB3	1:o:728:THR:HG21	1.79	0.62
2:Hh:35:ARG:HG2	2:Hh:36:SER:H	1.64	0.62
2:Uh:35:ARG:HG2	2:Uh:36:SER:H	1.64	0.62
2:ah:86:ARG:HD3	2:ah:106:ARG:NH2	2.13	0.62
2:mh:35:ARG:HG2	2:mh:36:SER:H	1.64	0.62
2:mh:86:ARG:HD3	2:mh:106:ARG:NH2	2.13	0.62
2:ph:66:TRP:HZ2	2:ph:69:VAL:HG23	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:qh:86:ARG:HH11	2:qh:106:ARG:HH21	1.45	0.62
2:xh:35:ARG:HG2	2:xh:36:SER:H	1.64	0.62
2:zh:86:ARG:CD	2:zh:106:ARG:HH22	2.10	0.62
2:7h:81:ASP:C	2:7h:84:LYS:HG3	2.23	0.62
3:Ul:58:GLN:HB2	3:Ul:68:LEU:HD11	1.81	0.62
3:ml:58:GLN:HB2	3:ml:68:LEU:HD11	1.81	0.62
1:I:423:SER:HB3	1:I:728:THR:HG21	1.79	0.62
2:3h:35:ARG:HG2	2:3h:36:SER:H	1.64	0.62
2:bh:81:ASP:HA	2:bh:84:LYS:CD	2.28	0.62
2:dh:66:TRP:HZ2	2:dh:69:VAL:HG23	1.63	0.62
2:Ch:86:ARG:HD3	2:Ch:106:ARG:NH2	2.13	0.62
2:Dh:86:ARG:CD	2:Dh:106:ARG:HH22	2.10	0.62
2:Mh:81:ASP:HA	2:Mh:84:LYS:CD	2.28	0.62
2:Yh:81:ASP:C	2:Yh:84:LYS:HG3	2.23	0.62
2:lh:86:ARG:HD3	2:lh:106:ARG:NH2	2.13	0.62
2:rh:86:ARG:CD	2:rh:106:ARG:HH22	2.10	0.62
2:yh:35:ARG:HG2	2:yh:36:SER:H	1.64	0.62
2:8h:66:TRP:HZ2	2:8h:69:VAL:HG23	1.63	0.62
3:Il:58:GLN:HB2	3:Il:68:LEU:HD11	1.81	0.62
2:Ch:35:ARG:HG2	2:Ch:36:SER:H	1.64	0.62
2:Ch:66:TRP:HZ2	2:Ch:69:VAL:HG23	1.63	0.62
2:Fh:35:ARG:HG2	2:Fh:36:SER:H	1.64	0.62
2:Ph:86:ARG:HD3	2:Ph:106:ARG:NH2	2.13	0.62
2:Qh:86:ARG:CD	2:Qh:106:ARG:HH22	2.10	0.62
2:Th:35:ARG:HG2	2:Th:36:SER:H	1.64	0.62
2:Uh:56:VAL:HG21	2:Uh:140:TRP:HH2	1.65	0.62
2:Yh:86:ARG:HH11	2:Yh:106:ARG:HH21	1.45	0.62
2:2h:56:VAL:HG21	2:2h:140:TRP:HH2	1.65	0.62
2:5h:35:ARG:HG2	2:5h:36:SER:H	1.65	0.62
2:ah:66:TRP:HZ2	2:ah:69:VAL:HG23	1.63	0.62
2:gh:35:ARG:HG2	2:gh:36:SER:H	1.64	0.62
2:mh:56:VAL:HG21	2:mh:140:TRP:HH2	1.65	0.62
2:rh:86:ARG:HD3	2:rh:106:ARG:NH2	2.13	0.62
3:ol:58:GLN:HB2	3:ol:68:LEU:HD11	1.81	0.62
2:Mh:56:VAL:HG21	2:Mh:140:TRP:HH2	1.65	0.61
2:Sh:35:ARG:HG2	2:Sh:36:SER:H	1.64	0.61
2:Sh:86:ARG:HD3	2:Sh:106:ARG:NH2	2.13	0.61
2:Xh:86:ARG:HD3	2:Xh:106:ARG:NH2	2.13	0.61
2:Yh:66:TRP:HZ2	2:Yh:69:VAL:HG23	1.63	0.61
2:Zh:66:TRP:HZ2	2:Zh:69:VAL:HG23	1.63	0.61
2:Zh:86:ARG:HD3	2:Zh:106:ARG:NH2	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ah:35:ARG:HG2	2:ah:36:SER:H	1.64	0.61
2:dh:86:ARG:HD3	2:dh:106:ARG:NH2	2.13	0.61
2:lh:35:ARG:HG2	2:lh:36:SER:H	1.64	0.61
2:rh:35:ARG:HG2	2:rh:36:SER:H	1.65	0.61
2:sh:35:ARG:HG2	2:sh:36:SER:H	1.64	0.61
2:yh:86:ARG:HD3	2:yh:106:ARG:NH2	2.13	0.61
2:7h:86:ARG:HH11	2:7h:106:ARG:HH21	1.45	0.61
2:8h:56:VAL:HG21	2:8h:140:TRP:HH2	1.65	0.61
2:8h:86:ARG:HD3	2:8h:106:ARG:NH2	2.13	0.61
1:H:386:ALA:O	1:K:706:LYS:HA	2.00	0.61
2:Ah:56:VAL:HG21	2:Ah:140:TRP:HH2	1.65	0.61
2:Ah:66:TRP:HZ2	2:Ah:69:VAL:HG23	1.63	0.61
2:Qh:86:ARG:HD3	2:Qh:106:ARG:NH2	2.13	0.61
2:Zh:56:VAL:HG21	2:Zh:140:TRP:HH2	1.65	0.61
2:6h:56:VAL:HG21	2:6h:140:TRP:HH2	1.65	0.61
2:oh:56:VAL:HG21	2:oh:140:TRP:HH2	1.65	0.61
2:sh:86:ARG:HD3	2:sh:106:ARG:NH2	2.13	0.61
2:wh:56:VAL:HG21	2:wh:140:TRP:HH2	1.65	0.61
2:7h:66:TRP:HZ2	2:7h:69:VAL:HG23	1.63	0.61
2:Fh:86:ARG:HD3	2:Fh:106:ARG:NH2	2.13	0.61
2:Hh:86:ARG:HD3	2:Hh:106:ARG:NH2	2.13	0.61
2:Kh:66:TRP:HZ2	2:Kh:69:VAL:HG23	1.63	0.61
2:Qh:35:ARG:HG2	2:Qh:36:SER:H	1.65	0.61
2:1h:56:VAL:HG21	2:1h:140:TRP:HH2	1.65	0.61
2:ih:86:ARG:HD3	2:ih:106:ARG:NH2	2.13	0.61
2:nh:56:VAL:HG21	2:nh:140:TRP:HH2	1.65	0.61
2:qh:56:VAL:HG21	2:qh:140:TRP:HH2	1.65	0.61
2:xh:66:TRP:HZ2	2:xh:69:VAL:HG23	1.63	0.61
1:C:706:LYS:HA	1:7:386:ALA:O	2.01	0.61
1:I:386:ALA:O	1:w:706:LYS:HA	2.01	0.61
1:K:386:ALA:O	1:3:706:LYS:HA	2.01	0.61
1:Y:386:ALA:O	1:a:706:LYS:HA	2.01	0.61
1:2:706:LYS:HA	1:g:386:ALA:O	2.00	0.61
1:5:706:LYS:HA	1:x:386:ALA:O	2.00	0.61
2:Eh:56:VAL:HG21	2:Eh:140:TRP:HH2	1.65	0.61
2:Gh:56:VAL:HG21	2:Gh:140:TRP:HH2	1.65	0.61
2:Ih:56:VAL:HG21	2:Ih:140:TRP:HH2	1.65	0.61
2:Jh:35:ARG:HG2	2:Jh:36:SER:H	1.64	0.61
2:Kh:56:VAL:HG21	2:Kh:140:TRP:HH2	1.65	0.61
2:Th:86:ARG:HD3	2:Th:106:ARG:NH2	2.13	0.61
2:3h:86:ARG:HD3	2:3h:106:ARG:NH2	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ih:66:TRP:HZ2	2:ih:69:VAL:HG23	1.63	0.61
2:lh:66:TRP:HZ2	2:lh:69:VAL:HG23	1.63	0.61
2:xh:56:VAL:HG21	2:xh:140:TRP:HH2	1.65	0.61
2:7h:86:ARG:HD3	2:7h:106:ARG:NH2	2.13	0.61
3:Bl:58:GLN:HB2	3:Bl:68:LEU:HD11	1.81	0.61
3:ul:58:GLN:HB2	3:ul:68:LEU:HD11	1.81	0.61
1:x:706:LYS:HA	1:y:386:ALA:O	2.01	0.61
2:Lh:66:TRP:HZ2	2:Lh:69:VAL:HG23	1.63	0.61
2:Nh:77:LYS:CG	2:Nh:89:ILE:CD1	2.79	0.61
2:Qh:56:VAL:HG21	2:Qh:140:TRP:HH2	1.65	0.61
2:Xh:66:TRP:HZ2	2:Xh:69:VAL:HG23	1.63	0.61
2:4h:35:ARG:HG2	2:4h:36:SER:H	1.64	0.61
2:ch:77:LYS:CG	2:ch:89:ILE:CD1	2.79	0.61
2:jh:35:ARG:HG2	2:jh:36:SER:H	1.64	0.61
2:jh:86:ARG:HD3	2:jh:106:ARG:NH2	2.13	0.61
2:rh:56:VAL:HG21	2:rh:140:TRP:HH2	1.65	0.61
2:vh:35:ARG:HG2	2:vh:36:SER:H	1.64	0.61
3:Ll:58:GLN:HB2	3:Ll:68:LEU:HD11	1.81	0.61
3:Ql:58:GLN:HB2	3:Ql:68:LEU:HD11	1.81	0.61
3:rl:58:GLN:HB2	3:rl:68:LEU:HD11	1.81	0.61
1:G:706:LYS:HA	1:1:386:ALA:O	2.00	0.61
2:Ah:35:ARG:HG2	2:Ah:36:SER:H	1.64	0.61
2:Kh:77:LYS:CG	2:Kh:89:ILE:CD1	2.79	0.61
2:Lh:56:VAL:HG21	2:Lh:140:TRP:HH2	1.65	0.61
2:Sh:66:TRP:HZ2	2:Sh:69:VAL:HG23	1.63	0.61
2:5h:86:ARG:HD3	2:5h:106:ARG:NH2	2.13	0.61
2:6h:77:LYS:CG	2:6h:89:ILE:CD1	2.79	0.61
2:ah:56:VAL:HG21	2:ah:140:TRP:HH2	1.65	0.61
2:hh:35:ARG:HG2	2:hh:36:SER:H	1.64	0.61
2:ph:86:ARG:CD	2:ph:106:ARG:HH22	2.10	0.61
3:Kl:58:GLN:HB2	3:Kl:68:LEU:HD11	1.81	0.61
3:4l:58:GLN:HB2	3:4l:68:LEU:HD11	1.81	0.61
3:ql:58:GLN:HB2	3:ql:68:LEU:HD11	1.81	0.61
3:tl:58:GLN:HB2	3:tl:68:LEU:HD11	1.81	0.61
3:xl:58:GLN:HB2	3:xl:68:LEU:HD11	1.81	0.61
3:7l:58:GLN:HB2	3:7l:68:LEU:HD11	1.81	0.61
1:Q:386:ALA:O	1:h:706:LYS:HA	2.01	0.61
1:4:706:LYS:HA	1:r:386:ALA:O	2.01	0.61
1:k:386:ALA:O	1:y:706:LYS:HA	2.01	0.61
2:Ch:56:VAL:HG21	2:Ch:140:TRP:HH2	1.65	0.61
2:Vh:35:ARG:HG2	2:Vh:36:SER:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Yh:86:ARG:HD3	2:Yh:106:ARG:NH2	2.13	0.61
2:2h:77:LYS:CG	2:2h:89:ILE:CD1	2.79	0.61
2:bh:35:ARG:HG2	2:bh:36:SER:H	1.64	0.61
2:ch:56:VAL:HG21	2:ch:140:TRP:HH2	1.65	0.61
2:dh:35:ARG:HG2	2:dh:36:SER:H	1.64	0.61
2:gh:86:ARG:HD3	2:gh:106:ARG:NH2	2.13	0.61
2:qh:86:ARG:HD3	2:qh:106:ARG:NH2	2.13	0.61
2:th:56:VAL:HG21	2:th:140:TRP:HH2	1.65	0.61
3:El:58:GLN:HB2	3:El:68:LEU:HD11	1.81	0.61
3:hl:58:GLN:HB2	3:hl:68:LEU:HD11	1.81	0.61
1:H:706:LYS:HA	1:R:386:ALA:O	2.01	0.61
1:O:706:LYS:HA	1:3:386:ALA:O	2.01	0.61
1:V:706:LYS:HA	1:c:386:ALA:O	2.01	0.61
1:2:386:ALA:O	1:8:706:LYS:HA	2.01	0.61
1:d:706:LYS:HA	1:u:386:ALA:O	2.01	0.61
2:Ah:86:ARG:CD	2:Ah:106:ARG:HH22	2.10	0.61
2:Vh:86:ARG:HD3	2:Vh:106:ARG:NH2	2.13	0.61
2:bh:56:VAL:HG21	2:bh:140:TRP:HH2	1.65	0.61
2:bh:86:ARG:HD3	2:bh:106:ARG:NH2	2.13	0.61
2:ph:35:ARG:HG2	2:ph:36:SER:H	1.65	0.61
2:th:66:TRP:HZ2	2:th:69:VAL:HG23	1.63	0.61
2:8h:37:LEU:HB3	2:8h:102:MET:HB2	1.83	0.61
3:Yl:58:GLN:HB2	3:Yl:68:LEU:HD11	1.81	0.61
1:B:386:ALA:O	1:P:706:LYS:HA	2.01	0.61
1:E:614:GLN:HE22	1:E:725:PRO:HA	1.66	0.61
1:N:386:ALA:O	1:j:706:LYS:HA	2.01	0.61
1:Q:706:LYS:HA	1:W:386:ALA:O	2.01	0.61
1:5:386:ALA:O	1:f:706:LYS:HA	2.01	0.61
1:q:614:GLN:HE22	1:q:725:PRO:HA	1.66	0.61
1:r:706:LYS:HA	1:z:386:ALA:O	2.01	0.61
1:u:706:LYS:HA	1:8:386:ALA:O	2.01	0.61
2:Gh:35:ARG:HG2	2:Gh:36:SER:H	1.64	0.61
2:Mh:35:ARG:HG2	2:Mh:36:SER:H	1.64	0.61
2:Ph:35:ARG:HG2	2:Ph:36:SER:H	1.64	0.61
2:Qh:37:LEU:HB3	2:Qh:102:MET:HB2	1.83	0.61
2:Wh:37:LEU:HB3	2:Wh:102:MET:HB2	1.83	0.61
2:Zh:37:LEU:HB3	2:Zh:102:MET:HB2	1.83	0.61
2:3h:66:TRP:HZ2	2:3h:69:VAL:HG23	1.63	0.61
2:jh:56:VAL:HG21	2:jh:140:TRP:HH2	1.65	0.61
2:sh:37:LEU:HB3	2:sh:102:MET:HB2	1.83	0.61
3:Al:58:GLN:HB2	3:Al:68:LEU:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:706:LYS:HA	1:Z:386:ALA:O	2.01	0.61
1:H:614:GLN:HE22	1:H:725:PRO:HA	1.66	0.61
1:L:386:ALA:O	1:z:706:LYS:HA	2.01	0.61
1:M:614:GLN:HE22	1:M:725:PRO:HA	1.66	0.61
1:P:386:ALA:O	1:T:706:LYS:HA	2.01	0.61
1:T:614:GLN:HE22	1:T:725:PRO:HA	1.66	0.61
1:W:706:LYS:HA	1:t:386:ALA:O	2.01	0.61
1:3:614:GLN:HE22	1:3:725:PRO:HA	1.66	0.61
1:b:614:GLN:HE22	1:b:725:PRO:HA	1.66	0.61
1:g:614:GLN:HE22	1:g:725:PRO:HA	1.66	0.61
1:v:386:ALA:O	1:7:706:LYS:HA	2.01	0.61
1:y:614:GLN:HE22	1:y:725:PRO:HA	1.66	0.61
2:Eh:37:LEU:HB3	2:Eh:102:MET:HB2	1.83	0.61
2:Fh:37:LEU:HB3	2:Fh:102:MET:HB2	1.83	0.61
2:Mh:86:ARG:HD3	2:Mh:106:ARG:NH2	2.13	0.61
2:Nh:56:VAL:HG21	2:Nh:140:TRP:HH2	1.65	0.61
2:Vh:56:VAL:HG21	2:Vh:140:TRP:HH2	1.65	0.61
2:nh:35:ARG:HG2	2:nh:36:SER:H	1.64	0.61
2:qh:37:LEU:HB3	2:qh:102:MET:HB2	1.83	0.61
2:rh:37:LEU:HB3	2:rh:102:MET:HB2	1.83	0.61
2:zh:37:LEU:HB3	2:zh:102:MET:HB2	1.83	0.61
1:E:386:ALA:O	1:L:706:LYS:HA	2.01	0.60
1:E:706:LYS:HA	1:4:386:ALA:O	2.01	0.60
1:J:386:ALA:O	1:Y:706:LYS:HA	2.01	0.60
1:U:614:GLN:HE22	1:U:725:PRO:HA	1.66	0.60
1:5:614:GLN:HE22	1:5:725:PRO:HA	1.66	0.60
1:h:386:ALA:O	1:q:706:LYS:HA	2.01	0.60
1:h:614:GLN:HE22	1:h:725:PRO:HA	1.66	0.60
1:m:614:GLN:HE22	1:m:725:PRO:HA	1.66	0.60
1:z:614:GLN:HE22	1:z:725:PRO:HA	1.66	0.60
2:Ah:63:GLY:CA	3:Al:108:TYR:OH	2.43	0.60
2:Bh:56:VAL:HG21	2:Bh:140:TRP:HH2	1.65	0.60
2:Eh:86:ARG:HD3	2:Eh:106:ARG:NH2	2.13	0.60
2:Fh:66:TRP:HB2	3:Fl:120:PHE:HE2	1.66	0.60
2:Ih:77:LYS:CG	2:Ih:89:ILE:CD1	2.79	0.60
2:Jh:86:ARG:HD3	2:Jh:106:ARG:NH2	2.13	0.60
2:Oh:56:VAL:HG21	2:Oh:140:TRP:HH2	1.65	0.60
2:2h:37:LEU:HB3	2:2h:102:MET:HB2	1.83	0.60
2:fh:56:VAL:HG21	2:fh:140:TRP:HH2	1.65	0.60
2:ih:56:VAL:HG21	2:ih:140:TRP:HH2	1.65	0.60
2:oh:77:LYS:CG	2:oh:89:ILE:CD1	2.79	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ph:56:VAL:HG21	2:ph:140:TRP:HH2	1.65	0.60
3:pl:58:GLN:HB2	3:pl:68:LEU:HD11	1.81	0.60
1:W:614:GLN:HE22	1:W:725:PRO:HA	1.66	0.60
1:Y:614:GLN:HE22	1:Y:725:PRO:HA	1.66	0.60
1:4:614:GLN:HE22	1:4:725:PRO:HA	1.66	0.60
1:c:614:GLN:HE22	1:c:725:PRO:HA	1.66	0.60
1:d:386:ALA:O	1:g:706:LYS:HA	2.01	0.60
1:q:386:ALA:O	1:t:706:LYS:HA	2.01	0.60
2:Dh:56:VAL:HG21	2:Dh:140:TRP:HH2	1.65	0.60
2:Gh:37:LEU:HB3	2:Gh:102:MET:HB2	1.83	0.60
2:nh:37:LEU:HB3	2:nh:102:MET:HB2	1.83	0.60
2:uh:56:VAL:HG21	2:uh:140:TRP:HH2	1.65	0.60
2:vh:86:ARG:HD3	2:vh:106:ARG:NH2	2.13	0.60
2:zh:56:VAL:HG21	2:zh:140:TRP:HH2	1.65	0.60
2:8h:77:LYS:CG	2:8h:89:ILE:CD1	2.79	0.60
1:L:614:GLN:HE22	1:L:725:PRO:HA	1.66	0.60
1:N:614:GLN:HE22	1:N:725:PRO:HA	1.66	0.60
1:e:386:ALA:O	1:o:706:LYS:HA	2.01	0.60
1:n:706:LYS:HA	1:w:386:ALA:O	2.01	0.60
1:7:614:GLN:HE22	1:7:725:PRO:HA	1.66	0.60
2:Mh:37:LEU:HB3	2:Mh:102:MET:HB2	1.83	0.60
2:Nh:37:LEU:HB3	2:Nh:102:MET:HB2	1.83	0.60
2:Ph:77:LYS:CG	2:Ph:89:ILE:CD1	2.79	0.60
2:Xh:56:VAL:HG21	2:Xh:140:TRP:HH2	1.65	0.60
2:5h:66:TRP:HZ2	2:5h:69:VAL:HG23	1.63	0.60
2:6h:37:LEU:HB3	2:6h:102:MET:HB2	1.83	0.60
2:dh:77:LYS:CG	2:dh:89:ILE:CD1	2.79	0.60
2:fh:37:LEU:HB3	2:fh:102:MET:HB2	1.83	0.60
2:oh:86:ARG:HD3	2:oh:106:ARG:NH2	2.13	0.60
1:D:386:ALA:O	1:I:706:LYS:HA	2.01	0.60
1:D:614:GLN:HE22	1:D:725:PRO:HA	1.66	0.60
1:O:614:GLN:HE22	1:O:725:PRO:HA	1.66	0.60
1:R:614:GLN:HE22	1:R:725:PRO:HA	1.66	0.60
1:e:614:GLN:HE22	1:e:725:PRO:HA	1.66	0.60
1:k:614:GLN:HE22	1:k:725:PRO:HA	1.66	0.60
1:t:614:GLN:HE22	1:t:725:PRO:HA	1.66	0.60
2:Fh:56:VAL:HG21	2:Fh:140:TRP:HH2	1.65	0.60
2:Oh:37:LEU:HB3	2:Oh:102:MET:HB2	1.83	0.60
2:Uh:37:LEU:HB3	2:Uh:102:MET:HB2	1.83	0.60
2:Wh:56:VAL:HG21	2:Wh:140:TRP:HH2	1.65	0.60
2:Zh:77:LYS:CG	2:Zh:89:ILE:CD1	2.79	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ch:37:LEU:HB3	2:ch:102:MET:HB2	1.83	0.60
2:eh:56:VAL:HG21	2:eh:140:TRP:HH2	1.65	0.60
2:sh:56:VAL:HG21	2:sh:140:TRP:HH2	1.65	0.60
1:C:614:GLN:HE22	1:C:725:PRO:HA	1.66	0.60
1:F:614:GLN:HE22	1:F:725:PRO:HA	1.66	0.60
1:G:614:GLN:HE22	1:G:725:PRO:HA	1.66	0.60
1:a:386:ALA:O	1:s:706:LYS:HA	2.01	0.60
1:n:614:GLN:HE22	1:n:725:PRO:HA	1.66	0.60
1:s:614:GLN:HE22	1:s:725:PRO:HA	1.66	0.60
2:Ih:86:ARG:HD3	2:Ih:106:ARG:NH2	2.13	0.60
2:bh:37:LEU:HB3	2:bh:102:MET:HB2	1.83	0.60
2:mh:37:LEU:HB3	2:mh:102:MET:HB2	1.83	0.60
2:sh:68:ALA:HB3	2:sh:89:ILE:HG21	1.84	0.60
1:A:706:LYS:HA	1:V:386:ALA:O	2.01	0.60
1:C:386:ALA:O	1:F:706:LYS:HA	2.01	0.60
1:M:386:ALA:O	1:l:706:LYS:HA	2.01	0.60
1:f:614:GLN:HE22	1:f:725:PRO:HA	1.66	0.60
2:Ch:37:LEU:HB3	2:Ch:102:MET:HB2	1.83	0.60
2:Fh:68:ALA:HB3	2:Fh:89:ILE:HG21	1.84	0.60
2:Ih:37:LEU:HB3	2:Ih:102:MET:HB2	1.83	0.60
2:Jh:77:LYS:CG	2:Jh:89:ILE:CD1	2.79	0.60
2:Oh:135:TYR:HB3	3:Ol:112:TRP:HE1	1.67	0.60
2:Wh:135:TYR:HB3	3:Wl:112:TRP:HE1	1.67	0.60
2:5h:68:ALA:HB3	2:5h:89:ILE:HG21	1.84	0.60
2:fh:135:TYR:HB3	3:fl:112:TRP:HE1	1.67	0.60
2:lh:56:VAL:HG21	2:lh:140:TRP:HH2	1.65	0.60
2:7h:68:ALA:HB3	2:7h:89:ILE:HG21	1.84	0.60
1:a:614:GLN:HE22	1:a:725:PRO:HA	1.66	0.60
2:Eh:77:LYS:CG	2:Eh:89:ILE:CD1	2.79	0.60
2:Sh:68:ALA:HB3	2:Sh:89:ILE:HG21	1.84	0.60
2:Yh:35:ARG:HG2	2:Yh:36:SER:H	1.64	0.60
2:Yh:68:ALA:HB3	2:Yh:89:ILE:HG21	1.84	0.60
2:3h:68:ALA:HB3	2:3h:89:ILE:HG21	1.84	0.60
2:ah:37:LEU:HB3	2:ah:102:MET:HB2	1.83	0.60
2:lh:68:ALA:HB3	2:lh:89:ILE:HG21	1.84	0.60
2:th:35:ARG:HG2	2:th:36:SER:H	1.64	0.60
2:vh:77:LYS:CG	2:vh:89:ILE:CD1	2.79	0.60
2:zh:135:TYR:HB3	3:zl:112:TRP:HE1	1.67	0.60
2:7h:37:LEU:HB3	2:7h:102:MET:HB2	1.83	0.60
1:S:706:LYS:HA	1:b:386:ALA:O	2.01	0.60
1:Z:706:LYS:HA	1:6:386:ALA:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:614:GLN:HE22	1:8:725:PRO:HA	1.66	0.60
2:Kh:68:ALA:HB3	2:Kh:89:ILE:HG21	1.84	0.60
2:Th:56:VAL:HG21	2:Th:140:TRP:HH2	1.65	0.60
2:Yh:37:LEU:HB3	2:Yh:102:MET:HB2	1.83	0.60
2:gh:56:VAL:HG21	2:gh:140:TRP:HH2	1.65	0.60
2:gh:77:LYS:CG	2:gh:89:ILE:CD1	2.79	0.60
2:oh:37:LEU:HB3	2:oh:102:MET:HB2	1.83	0.60
2:7h:35:ARG:HG2	2:7h:36:SER:H	1.64	0.60
1:A:386:ALA:O	1:M:706:LYS:HA	2.02	0.60
1:Q:614:GLN:HE22	1:Q:725:PRO:HA	1.66	0.60
1:U:386:ALA:O	1:e:706:LYS:HA	2.01	0.60
2:Hh:37:LEU:HB3	2:Hh:102:MET:HB2	1.83	0.60
2:Hh:68:ALA:HB3	2:Hh:89:ILE:HG21	1.84	0.60
2:Lh:35:ARG:HG2	2:Lh:36:SER:H	1.64	0.60
2:Sh:56:VAL:HG21	2:Sh:140:TRP:HH2	1.65	0.60
2:Th:77:LYS:CG	2:Th:89:ILE:CD1	2.79	0.60
2:Vh:37:LEU:HB3	2:Vh:102:MET:HB2	1.83	0.60
2:3h:56:VAL:HG21	2:3h:140:TRP:HH2	1.65	0.60
2:qh:77:LYS:CG	2:qh:89:ILE:CD1	2.79	0.60
2:rh:68:ALA:HB3	2:rh:89:ILE:HG21	1.84	0.60
2:yh:68:ALA:HB3	2:yh:89:ILE:HG21	1.84	0.60
1:D:706:LYS:HA	1:m:386:ALA:O	2.01	0.60
1:Z:614:GLN:HE22	1:Z:725:PRO:HA	1.66	0.60
1:j:386:ALA:O	1:p:706:LYS:HA	2.01	0.60
2:Dh:37:LEU:HB3	2:Dh:102:MET:HB2	1.83	0.60
2:Ph:68:ALA:HB3	2:Ph:89:ILE:HG21	1.84	0.60
2:Qh:68:ALA:HB3	2:Qh:89:ILE:HG21	1.84	0.60
2:dh:68:ALA:HB3	2:dh:89:ILE:HG21	1.84	0.60
2:eh:37:LEU:HB3	2:eh:102:MET:HB2	1.83	0.60
2:jh:37:LEU:HB3	2:jh:102:MET:HB2	1.83	0.60
2:kh:135:TYR:HB3	3:kl:112:TRP:HE1	1.67	0.60
2:ph:37:LEU:HB3	2:ph:102:MET:HB2	1.83	0.60
2:xh:68:ALA:HB3	2:xh:89:ILE:HG21	1.84	0.60
2:yh:37:LEU:HB3	2:yh:102:MET:HB2	1.83	0.60
1:F:386:ALA:O	1:X:706:LYS:HA	2.02	0.59
1:N:706:LYS:HA	1:S:386:ALA:O	2.01	0.59
1:b:706:LYS:HA	1:p:386:ALA:O	2.02	0.59
1:j:614:GLN:HE22	1:j:725:PRO:HA	1.66	0.59
1:r:614:GLN:HE22	1:r:725:PRO:HA	1.66	0.59
1:x:614:GLN:HE22	1:x:725:PRO:HA	1.66	0.59
2:Ah:37:LEU:HB3	2:Ah:102:MET:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Jh:56:VAL:HG21	2:Jh:140:TRP:HH2	1.65	0.59
2:Lh:86:ARG:HD3	2:Lh:106:ARG:NH2	2.13	0.59
2:Rh:135:TYR:HB3	3:Rl:112:TRP:HE1	1.67	0.59
2:Sh:37:LEU:HB3	2:Sh:102:MET:HB2	1.83	0.59
2:2h:68:ALA:HB3	2:2h:89:ILE:HG21	1.84	0.59
2:5h:56:VAL:HG21	2:5h:140:TRP:HH2	1.65	0.59
2:kh:37:LEU:HB3	2:kh:102:MET:HB2	1.83	0.59
1:O:386:ALA:O	1:R:706:LYS:HA	2.01	0.59
1:V:614:GLN:HE22	1:V:725:PRO:HA	1.66	0.59
1:X:614:GLN:HE22	1:X:725:PRO:HA	1.66	0.59
1:c:706:LYS:HA	1:l:386:ALA:O	2.01	0.59
1:f:386:ALA:O	1:k:706:LYS:HA	2.01	0.59
1:i:614:GLN:HE22	1:i:725:PRO:HA	1.66	0.59
1:i:706:LYS:HA	1:s:386:ALA:O	2.02	0.59
1:m:706:LYS:HA	1:n:386:ALA:O	2.01	0.59
2:Ah:68:ALA:HB3	2:Ah:89:ILE:HG21	1.84	0.59
2:Dh:68:ALA:HB3	2:Dh:89:ILE:HG21	1.84	0.59
2:Vh:135:TYR:HB3	3:Vl:112:TRP:HE1	1.67	0.59
2:6h:68:ALA:HB3	2:6h:89:ILE:HG21	1.84	0.59
2:eh:68:ALA:HB3	2:eh:89:ILE:HG21	1.84	0.59
2:ih:135:TYR:HB3	3:il:112:TRP:HE1	1.67	0.59
2:jh:135:TYR:HB3	3:jl:112:TRP:HE1	1.67	0.59
2:kh:56:VAL:HG21	2:kh:140:TRP:HH2	1.65	0.59
2:kh:68:ALA:HB3	2:kh:89:ILE:HG21	1.84	0.59
2:lh:37:LEU:HB3	2:lh:102:MET:HB2	1.83	0.59
2:mh:135:TYR:HB3	3:ml:112:TRP:HE1	1.67	0.59
2:ph:68:ALA:HB3	2:ph:89:ILE:HG21	1.84	0.59
2:th:86:ARG:HD3	2:th:106:ARG:NH2	2.13	0.59
1:A:614:GLN:HE22	1:A:725:PRO:HA	1.66	0.59
1:B:614:GLN:HE22	1:B:725:PRO:HA	1.66	0.59
1:H:580:SER:O	1:7:484:ARG:HD3	2.03	0.59
1:J:706:LYS:HA	1:i:386:ALA:O	2.01	0.59
1:K:614:GLN:HE22	1:K:725:PRO:HA	1.66	0.59
1:X:386:ALA:O	1:v:706:LYS:HA	2.01	0.59
1:Y:484:ARG:HD3	1:y:580:SER:O	2.03	0.59
1:2:614:GLN:HE22	1:2:725:PRO:HA	1.66	0.59
2:Ih:68:ALA:HB3	2:Ih:89:ILE:HG21	1.84	0.59
2:Lh:37:LEU:HB3	2:Lh:102:MET:HB2	1.83	0.59
2:Mh:135:TYR:HB3	3:Ml:112:TRP:HE1	1.67	0.59
2:Rh:37:LEU:HB3	2:Rh:102:MET:HB2	1.83	0.59
2:Rh:68:ALA:HB3	2:Rh:89:ILE:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Uh:135:TYR:HB3	3:Ul:112:TRP:HE1	1.67	0.59
2:Xh:37:LEU:HB3	2:Xh:102:MET:HB2	1.83	0.59
2:Xh:135:TYR:HB3	3:Xl:112:TRP:HE1	1.67	0.59
2:5h:37:LEU:HB3	2:5h:102:MET:HB2	1.83	0.59
2:uh:77:LYS:CG	2:uh:89:ILE:CD1	2.79	0.59
2:vh:56:VAL:HG21	2:vh:140:TRP:HH2	1.65	0.59
1:G:386:ALA:O	1:U:706:LYS:HA	2.01	0.59
1:G:484:ARG:HD3	1:t:580:SER:O	2.03	0.59
1:6:614:GLN:HE22	1:6:725:PRO:HA	1.66	0.59
1:u:614:GLN:HE22	1:u:725:PRO:HA	1.66	0.59
2:Bh:77:LYS:CG	2:Bh:89:ILE:CD1	2.79	0.59
2:Jh:37:LEU:HB3	2:Jh:102:MET:HB2	1.83	0.59
2:Jh:68:ALA:HB3	2:Jh:89:ILE:HG21	1.84	0.59
2:Ph:56:VAL:HG21	2:Ph:140:TRP:HH2	1.65	0.59
2:Qh:135:TYR:HB3	3:Ql:112:TRP:HE1	1.68	0.59
2:Rh:56:VAL:HG21	2:Rh:140:TRP:HH2	1.65	0.59
2:Zh:68:ALA:HB3	2:Zh:89:ILE:HG21	1.84	0.59
2:3h:37:LEU:HB3	2:3h:102:MET:HB2	1.83	0.59
2:4h:56:VAL:HG21	2:4h:140:TRP:HH2	1.65	0.59
2:bh:135:TYR:HB3	3:bl:112:TRP:HE1	1.67	0.59
2:ch:135:TYR:HB3	3:cl:112:TRP:HE1	1.67	0.59
2:eh:77:LYS:CG	2:eh:89:ILE:CD1	2.79	0.59
2:hh:56:VAL:HG21	2:hh:140:TRP:HH2	1.65	0.59
2:oh:68:ALA:HB3	2:oh:89:ILE:HG21	1.84	0.59
2:rh:135:TYR:HB3	3:rl:112:TRP:HE1	1.68	0.59
2:uh:68:ALA:HB3	2:uh:89:ILE:HG21	1.84	0.59
1:D:580:SER:O	1:H:484:ARG:HD3	2.03	0.59
1:I:614:GLN:HE22	1:I:725:PRO:HA	1.66	0.59
1:L:580:SER:O	1:n:484:ARG:HD3	2.03	0.59
1:e:580:SER:O	1:y:484:ARG:HD3	2.03	0.59
1:p:614:GLN:HE22	1:p:725:PRO:HA	1.66	0.59
2:Bh:37:LEU:HB3	2:Bh:102:MET:HB2	1.83	0.59
2:Bh:68:ALA:HB3	2:Bh:89:ILE:HG21	1.84	0.59
2:Bh:135:TYR:HB3	3:Bl:112:TRP:HE1	1.67	0.59
2:Ch:135:TYR:HB3	3:Cl:112:TRP:HE1	1.67	0.59
2:Dh:77:LYS:CG	2:Dh:89:ILE:CD1	2.79	0.59
2:Nh:135:TYR:HB3	3:Nl:112:TRP:HE1	1.67	0.59
2:Wh:68:ALA:HB3	2:Wh:89:ILE:HG21	1.84	0.59
2:dh:56:VAL:HG21	2:dh:140:TRP:HH2	1.65	0.59
2:ih:37:LEU:HB3	2:ih:102:MET:HB2	1.83	0.59
2:sh:66:TRP:HB2	3:sl:120:PHE:HE2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:th:37:LEU:HB3	2:th:102:MET:HB2	1.83	0.59
2:uh:37:LEU:HB3	2:uh:102:MET:HB2	1.83	0.59
2:vh:37:LEU:HB3	2:vh:102:MET:HB2	1.83	0.59
2:vh:68:ALA:HB3	2:vh:89:ILE:HG21	1.84	0.59
2:zh:68:ALA:HB3	2:zh:89:ILE:HG21	1.84	0.59
2:8h:68:ALA:HB3	2:8h:89:ILE:HG21	1.84	0.59
1:S:614:GLN:HE22	1:S:725:PRO:HA	1.66	0.59
1:w:614:GLN:HE22	1:w:725:PRO:HA	1.66	0.59
2:Th:37:LEU:HB3	2:Th:102:MET:HB2	1.83	0.59
2:Yh:56:VAL:HG21	2:Yh:140:TRP:HH2	1.65	0.59
2:ah:135:TYR:HB3	3:al:112:TRP:HE1	1.67	0.59
2:fh:77:LYS:CG	2:fh:89:ILE:CD1	2.79	0.59
2:7h:56:VAL:HG21	2:7h:140:TRP:HH2	1.65	0.59
1:M:484:ARG:HD3	1:S:580:SER:O	2.03	0.59
1:P:614:GLN:HE22	1:P:725:PRO:HA	1.66	0.59
1:1:614:GLN:HE22	1:1:725:PRO:HA	1.66	0.59
2:Lh:135:TYR:HB3	3:Ll:112:TRP:HE1	1.67	0.59
2:dh:37:LEU:HB3	2:dh:102:MET:HB2	1.83	0.59
2:wh:68:ALA:HB3	2:wh:89:ILE:HG21	1.84	0.59
1:J:580:SER:O	1:X:484:ARG:HD3	2.03	0.59
1:U:580:SER:O	1:q:484:ARG:HD3	2.03	0.59
1:b:484:ARG:HD3	1:l:580:SER:O	2.03	0.59
1:l:614:GLN:HE22	1:l:725:PRO:HA	1.66	0.59
1:o:614:GLN:HE22	1:o:725:PRO:HA	1.66	0.59
2:Hh:135:TYR:HB3	3:HI:112:TRP:HE1	1.66	0.59
2:Ph:37:LEU:HB3	2:Ph:102:MET:HB2	1.83	0.59
2:1h:37:LEU:HB3	2:1h:102:MET:HB2	1.83	0.59
2:5h:77:LYS:CG	2:5h:89:ILE:CD1	2.79	0.59
2:bh:77:LYS:CG	2:bh:89:ILE:CD1	2.79	0.59
2:dh:135:TYR:HB3	3:dl:112:TRP:HE1	1.66	0.59
2:gh:37:LEU:HB3	2:gh:102:MET:HB2	1.83	0.59
2:uh:135:TYR:HB3	3:ul:112:TRP:HE1	1.67	0.59
2:wh:37:LEU:HB3	2:wh:102:MET:HB2	1.83	0.59
1:d:614:GLN:HE22	1:d:725:PRO:HA	1.66	0.59
1:i:484:ARG:HD3	1:v:580:SER:O	2.03	0.59
1:k:580:SER:O	1:8:484:ARG:HD3	2.03	0.59
2:Gh:68:ALA:HB3	2:Gh:89:ILE:HG21	1.84	0.59
2:Hh:56:VAL:HG21	2:Hh:140:TRP:HH2	1.65	0.59
2:Mh:77:LYS:CG	2:Mh:89:ILE:CD1	2.79	0.59
2:Oh:77:LYS:CG	2:Oh:89:ILE:CD1	2.79	0.59
2:Yh:77:LYS:CG	2:Yh:89:ILE:CD1	2.79	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1h:68:ALA:HB3	2:1h:89:ILE:HG21	1.84	0.59
2:3h:77:LYS:CG	2:3h:89:ILE:CD1	2.79	0.59
2:eh:135:TYR:HB3	3:el:112:TRP:HE1	1.66	0.59
2:th:135:TYR:HB3	3:tl:112:TRP:HE1	1.67	0.59
1:D:484:ARG:HD3	1:7:580:SER:O	2.03	0.59
1:E:484:ARG:HD3	1:m:580:SER:O	2.03	0.59
1:J:484:ARG:HD3	1:o:580:SER:O	2.03	0.59
1:K:580:SER:O	1:m:484:ARG:HD3	2.03	0.59
1:N:484:ARG:HD3	1:d:580:SER:O	2.03	0.59
1:P:484:ARG:HD3	1:W:580:SER:O	2.03	0.59
1:Q:580:SER:O	1:l:484:ARG:HD3	2.03	0.59
1:R:580:SER:O	1:Z:484:ARG:HD3	2.03	0.59
1:j:580:SER:O	1:u:484:ARG:HD3	2.03	0.59
1:s:484:ARG:HD3	1:w:580:SER:O	2.03	0.59
1:v:614:GLN:HE22	1:v:725:PRO:HA	1.66	0.59
2:Nh:77:LYS:HD2	2:Nh:79:TYR:OH	2.03	0.59
2:Oh:68:ALA:HB3	2:Oh:89:ILE:HG21	1.84	0.59
2:Vh:77:LYS:HD2	2:Vh:79:TYR:OH	2.03	0.59
2:jh:77:LYS:HD2	2:jh:79:TYR:OH	2.03	0.59
2:yh:77:LYS:CG	2:yh:89:ILE:CD1	2.79	0.59
2:8h:135:TYR:HB3	3:8l:112:TRP:HE1	1.67	0.59
1:A:484:ARG:HD3	1:4:580:SER:O	2.03	0.58
1:B:484:ARG:HD3	1:V:580:SER:O	2.03	0.58
1:E:580:SER:O	1:K:484:ARG:HD3	2.03	0.58
1:I:580:SER:O	1:v:484:ARG:HD3	2.03	0.58
1:J:614:GLN:HE22	1:J:725:PRO:HA	1.66	0.58
1:L:583:LEU:O	1:L:588:ARG:HD2	2.03	0.58
1:S:484:ARG:HD3	1:r:580:SER:O	2.03	0.58
1:U:484:ARG:HD3	1:x:580:SER:O	2.03	0.58
1:Y:580:SER:O	1:e:484:ARG:HD3	2.03	0.58
1:d:484:ARG:HD3	1:z:580:SER:O	2.03	0.58
1:q:580:SER:O	1:x:484:ARG:HD3	2.03	0.58
1:t:583:LEU:O	1:t:588:ARG:HD2	2.03	0.58
2:Eh:77:LYS:HD2	2:Eh:79:TYR:OH	2.03	0.58
2:Hh:77:LYS:CG	2:Hh:89:ILE:CD1	2.79	0.58
2:Ih:135:TYR:HB3	3:Il:112:TRP:HE1	1.68	0.58
2:Mh:68:ALA:HB3	2:Mh:89:ILE:HG21	1.84	0.58
2:Ph:135:TYR:HB3	3:Pl:112:TRP:HE1	1.66	0.58
2:Th:68:ALA:HB3	2:Th:89:ILE:HG21	1.84	0.58
2:Uh:77:LYS:CG	2:Uh:89:ILE:CD1	2.79	0.58
2:4h:37:LEU:HB3	2:4h:102:MET:HB2	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bh:68:ALA:HB3	2:bh:89:ILE:HG21	1.84	0.58
2:ch:77:LYS:HD2	2:ch:79:TYR:OH	2.03	0.58
2:fh:68:ALA:HB3	2:fh:89:ILE:HG21	1.84	0.58
2:nh:68:ALA:HB3	2:nh:89:ILE:HG21	1.84	0.58
2:qh:77:LYS:HD2	2:qh:79:TYR:OH	2.03	0.58
2:yh:135:TYR:HB3	3:yl:112:TRP:HE1	1.66	0.58
1:K:583:LEU:O	1:K:588:ARG:HD2	2.04	0.58
1:x:583:LEU:O	1:x:588:ARG:HD2	2.03	0.58
2:Zh:135:TYR:HB3	3:Zl:112:TRP:HE1	1.67	0.58
2:lh:135:TYR:HB3	3:ll:112:TRP:HE1	1.67	0.58
2:qh:68:ALA:HB3	2:qh:89:ILE:HG21	1.84	0.58
2:yh:56:VAL:HG21	2:yh:140:TRP:HH2	1.65	0.58
2:7h:77:LYS:CG	2:7h:89:ILE:CD1	2.79	0.58
1:B:583:LEU:O	1:B:588:ARG:HD2	2.03	0.58
1:N:580:SER:O	1:z:484:ARG:HD3	2.03	0.58
1:P:580:SER:O	1:c:484:ARG:HD3	2.03	0.58
1:f:484:ARG:HD3	1:u:580:SER:O	2.03	0.58
1:u:583:LEU:O	1:u:588:ARG:HD2	2.03	0.58
2:Ih:66:TRP:HB2	3:Il:120:PHE:HE2	1.68	0.58
2:Jh:135:TYR:HB3	3:Jl:112:TRP:HE1	1.67	0.58
2:Lh:68:ALA:HB3	2:Lh:89:ILE:HG21	1.84	0.58
2:Qh:77:LYS:HD2	2:Qh:79:TYR:OH	2.03	0.58
2:Yh:135:TYR:HB3	3:Yl:112:TRP:HE1	1.67	0.58
2:hh:37:LEU:HB3	2:hh:102:MET:HB2	1.83	0.58
2:hh:135:TYR:HB3	3:hl:112:TRP:HE1	1.69	0.58
2:jh:68:ALA:HB3	2:jh:89:ILE:HG21	1.84	0.58
2:mh:77:LYS:CG	2:mh:89:ILE:CD1	2.79	0.58
2:oh:135:TYR:HB3	3:ol:112:TRP:HE1	1.68	0.58
2:rh:77:LYS:HD2	2:rh:79:TYR:OH	2.03	0.58
2:th:68:ALA:HB3	2:th:89:ILE:HG21	1.84	0.58
2:vh:66:TRP:HB2	3:vl:120:PHE:HE2	1.68	0.58
1:A:583:LEU:O	1:A:588:ARG:HD2	2.03	0.58
1:B:580:SER:O	1:O:484:ARG:HD3	2.03	0.58
1:C:583:LEU:O	1:C:588:ARG:HD2	2.04	0.58
1:G:580:SER:O	1:T:484:ARG:HD3	2.03	0.58
1:I:583:LEU:O	1:I:588:ARG:HD2	2.03	0.58
1:U:583:LEU:O	1:U:588:ARG:HD2	2.03	0.58
1:W:484:ARG:HD3	1:c:580:SER:O	2.03	0.58
1:a:583:LEU:O	1:a:588:ARG:HD2	2.04	0.58
1:m:583:LEU:O	1:m:588:ARG:HD2	2.03	0.58
1:p:583:LEU:O	1:p:588:ARG:HD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:77:LYS:HD2	2:Ch:79:TYR:OH	2.03	0.58
2:Dh:135:TYR:HB3	3:Di:112:TRP:HE1	1.67	0.58
2:Eh:68:ALA:HB3	2:Eh:89:ILE:HG21	1.84	0.58
2:Gh:135:TYR:HB3	3:Gl:112:TRP:HE1	1.67	0.58
2:Jh:66:TRP:HB2	3:Jl:120:PHE:HE2	1.68	0.58
2:Kh:37:LEU:HB3	2:Kh:102:MET:HB2	1.83	0.58
2:Kh:77:LYS:HD2	2:Kh:79:TYR:OH	2.03	0.58
2:Oh:77:LYS:HD2	2:Oh:79:TYR:OH	2.03	0.58
2:Sh:66:TRP:HB2	3:Sl:120:PHE:HE2	1.68	0.58
2:Sh:135:TYR:HB3	3:Sl:112:TRP:HE1	1.67	0.58
2:Vh:68:ALA:HB3	2:Vh:89:ILE:HG21	1.84	0.58
2:ah:77:LYS:HD2	2:ah:79:TYR:OH	2.03	0.58
2:gh:68:ALA:HB3	2:gh:89:ILE:HG21	1.84	0.58
2:gh:135:TYR:HB3	3:gl:112:TRP:HE1	1.68	0.58
2:lh:66:TRP:HB2	3:ll:120:PHE:HE2	1.68	0.58
2:nh:135:TYR:HB3	3:nl:112:TRP:HE1	1.67	0.58
2:oh:66:TRP:HB2	3:ol:120:PHE:HE2	1.68	0.58
2:wh:77:LYS:HD2	2:wh:79:TYR:OH	2.03	0.58
2:xh:77:LYS:HD2	2:xh:79:TYR:OH	2.03	0.58
1:F:583:LEU:O	1:F:588:ARG:HD2	2.03	0.58
1:M:583:LEU:O	1:M:588:ARG:HD2	2.03	0.58
1:S:583:LEU:O	1:S:588:ARG:HD2	2.03	0.58
1:X:580:SER:O	1:o:484:ARG:HD3	2.03	0.58
1:5:583:LEU:O	1:5:588:ARG:HD2	2.03	0.58
1:b:583:LEU:O	1:b:588:ARG:HD2	2.03	0.58
1:g:484:ARG:HD3	1:n:580:SER:O	2.03	0.58
1:h:580:SER:O	1:p:484:ARG:HD3	2.03	0.58
1:l:583:LEU:O	1:l:588:ARG:HD2	2.03	0.58
1:o:583:LEU:O	1:o:588:ARG:HD2	2.03	0.58
1:s:583:LEU:O	1:s:588:ARG:HD2	2.03	0.58
2:Ch:68:ALA:HB3	2:Ch:89:ILE:HG21	1.84	0.58
2:Lh:66:TRP:HB2	3:Ll:120:PHE:HE2	1.69	0.58
2:Nh:68:ALA:HB3	2:Nh:89:ILE:HG21	1.84	0.58
2:Th:135:TYR:HB3	3:Tl:112:TRP:HE1	1.68	0.58
2:Uh:77:LYS:HD2	2:Uh:79:TYR:OH	2.03	0.58
2:1h:77:LYS:HD2	2:1h:79:TYR:OH	2.03	0.58
2:4h:86:ARG:HD3	2:4h:106:ARG:NH2	2.13	0.58
2:6h:77:LYS:HD2	2:6h:79:TYR:OH	2.03	0.58
2:ch:68:ALA:HB3	2:ch:89:ILE:HG21	1.84	0.58
2:vh:135:TYR:HB3	3:vl:112:TRP:HE1	1.67	0.58
2:xh:37:LEU:HB3	2:xh:102:MET:HB2	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:xh:66:TRP:HB2	3:xl:120:PHE:HE2	1.68	0.58
2:7h:135:TYR:HB3	3:7l:112:TRP:HE1	1.67	0.58
1:M:580:SER:O	1:r:484:ARG:HD3	2.03	0.58
1:3:583:LEU:O	1:3:588:ARG:HD2	2.03	0.58
1:e:583:LEU:O	1:e:588:ARG:HD2	2.03	0.58
2:Kh:66:TRP:HB2	3:Kl:120:PHE:HE2	1.68	0.58
2:Kh:135:TYR:HB3	3:Kl:112:TRP:HE1	1.68	0.58
2:Lh:77:LYS:CG	2:Lh:89:ILE:CD1	2.79	0.58
2:2h:77:LYS:HD2	2:2h:79:TYR:OH	2.03	0.58
2:fh:77:LYS:HD2	2:fh:79:TYR:OH	2.03	0.58
2:hh:86:ARG:HD3	2:hh:106:ARG:NH2	2.13	0.58
2:mh:77:LYS:HD2	2:mh:79:TYR:OH	2.03	0.58
2:ph:135:TYR:HB3	3:pl:112:TRP:HE1	1.68	0.58
2:th:66:TRP:HB2	3:tl:120:PHE:HE2	1.69	0.58
2:th:77:LYS:HD2	2:th:79:TYR:OH	2.03	0.58
2:uh:77:LYS:HD2	2:uh:79:TYR:OH	2.03	0.58
2:wh:77:LYS:CG	2:wh:89:ILE:CD1	2.79	0.58
2:xh:135:TYR:HB3	3:xl:112:TRP:HE1	1.68	0.58
2:7h:77:LYS:HD2	2:7h:79:TYR:OH	2.03	0.58
1:D:583:LEU:O	1:D:588:ARG:HD2	2.03	0.58
1:F:484:ARG:HD3	1:1:580:SER:O	2.04	0.58
1:I:484:ARG:HD3	1:i:580:SER:O	2.03	0.58
1:P:583:LEU:O	1:P:588:ARG:HD2	2.04	0.58
1:Q:484:ARG:HD3	1:b:580:SER:O	2.03	0.58
1:5:580:SER:O	1:h:484:ARG:HD3	2.03	0.58
1:a:484:ARG:HD3	1:8:580:SER:O	2.03	0.58
1:d:583:LEU:O	1:d:588:ARG:HD2	2.04	0.58
1:7:583:LEU:O	1:7:588:ARG:HD2	2.03	0.58
2:Bh:77:LYS:HD2	2:Bh:79:TYR:OH	2.03	0.58
2:Gh:77:LYS:CG	2:Gh:89:ILE:CD1	2.79	0.58
2:Jh:77:LYS:HD2	2:Jh:79:TYR:OH	2.03	0.58
2:Lh:77:LYS:HD2	2:Lh:79:TYR:OH	2.03	0.58
2:Mh:77:LYS:HD2	2:Mh:79:TYR:OH	2.03	0.58
2:Uh:68:ALA:HB3	2:Uh:89:ILE:HG21	1.84	0.58
2:Yh:77:LYS:HD2	2:Yh:79:TYR:OH	2.03	0.58
2:1h:77:LYS:CG	2:1h:89:ILE:CD1	2.79	0.58
2:4h:77:LYS:HD2	2:4h:79:TYR:OH	2.03	0.58
2:ah:66:TRP:HB2	3:al:120:PHE:HE2	1.69	0.58
2:ah:68:ALA:HB3	2:ah:89:ILE:HG21	1.84	0.58
2:eh:77:LYS:HD2	2:eh:79:TYR:OH	2.03	0.58
2:hh:77:LYS:HD2	2:hh:79:TYR:OH	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mh:68:ALA:HB3	2:mh:89:ILE:HG21	1.84	0.58
2:nh:77:LYS:CG	2:nh:89:ILE:CD1	2.79	0.58
2:th:77:LYS:CG	2:th:89:ILE:CD1	2.79	0.58
3:Kl:59:GLN:C	3:Kl:105:ALA:HB1	2.29	0.58
3:Ql:59:GLN:C	3:Ql:105:ALA:HB1	2.29	0.58
3:3l:59:GLN:C	3:3l:105:ALA:HB1	2.29	0.58
3:rl:59:GLN:C	3:rl:105:ALA:HB1	2.29	0.58
3:xl:59:GLN:C	3:xl:105:ALA:HB1	2.29	0.58
1:C:484:ARG:HD3	1:Z:580:SER:O	2.03	0.58
1:Y:583:LEU:O	1:Y:588:ARG:HD2	2.03	0.58
1:1:484:ARG:HD3	1:6:580:SER:O	2.02	0.58
1:2:583:LEU:O	1:2:588:ARG:HD2	2.03	0.58
1:3:580:SER:O	1:4:484:ARG:HD3	2.03	0.58
1:n:583:LEU:O	1:n:588:ARG:HD2	2.03	0.58
1:y:583:LEU:O	1:y:588:ARG:HD2	2.04	0.58
2:Ch:66:TRP:HB2	3:Cl:120:PHE:HE2	1.69	0.58
2:Ph:77:LYS:HD2	2:Ph:79:TYR:OH	2.03	0.58
2:Xh:68:ALA:HB3	2:Xh:89:ILE:HG21	1.84	0.58
2:6h:135:TYR:HB3	3:6l:112:TRP:HE1	1.69	0.58
2:bh:77:LYS:HD2	2:bh:79:TYR:OH	2.03	0.58
2:ph:66:TRP:HB2	3:pl:120:PHE:HE2	1.68	0.58
2:vh:77:LYS:HD2	2:vh:79:TYR:OH	2.03	0.58
2:xh:77:LYS:CG	2:xh:89:ILE:CD1	2.79	0.58
3:Gl:87:ARG:NH1	3:Gl:89:GLY:O	2.36	0.58
3:5l:59:GLN:C	3:5l:105:ALA:HB1	2.29	0.58
3:sl:59:GLN:C	3:sl:105:ALA:HB1	2.29	0.58
1:G:583:LEU:O	1:G:588:ARG:HD2	2.03	0.58
1:H:235:MET:HE1	1:H:240:ILE:HG13	1.86	0.58
1:N:583:LEU:O	1:N:588:ARG:HD2	2.03	0.58
1:X:235:MET:HE1	1:X:240:ILE:HG13	1.86	0.58
1:1:583:LEU:O	1:1:588:ARG:HD2	2.03	0.58
1:h:583:LEU:O	1:h:588:ARG:HD2	2.03	0.58
1:i:235:MET:HE1	1:i:240:ILE:HG13	1.86	0.58
1:w:583:LEU:O	1:w:588:ARG:HD2	2.03	0.58
1:y:235:MET:HE1	1:y:240:ILE:HG13	1.86	0.58
2:Dh:77:LYS:HD2	2:Dh:79:TYR:OH	2.03	0.58
2:Ih:24:VAL:HB	2:Ih:42:ALA:HB3	1.86	0.58
2:Lh:24:VAL:HB	2:Lh:42:ALA:HB3	1.86	0.58
2:Mh:24:VAL:HB	2:Mh:42:ALA:HB3	1.86	0.58
2:dh:77:LYS:HD2	2:dh:79:TYR:OH	2.03	0.58
2:oh:24:VAL:HB	2:oh:42:ALA:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Al:87:ARG:NH1	3:Al:89:GLY:O	2.36	0.58
3:Bl:59:GLN:C	3:Bl:105:ALA:HB1	2.29	0.58
3:Fl:59:GLN:C	3:Fl:105:ALA:HB1	2.29	0.58
3:Mi:87:ARG:NH1	3:Mi:89:GLY:O	2.36	0.58
3:Rl:87:ARG:NH1	3:Rl:89:GLY:O	2.36	0.58
3:Vl:87:ARG:NH1	3:Vl:89:GLY:O	2.36	0.58
3:ul:59:GLN:C	3:ul:105:ALA:HB1	2.29	0.58
3:7l:87:ARG:NH1	3:7l:89:GLY:O	2.36	0.58
1:C:580:SER:O	1:R:484:ARG:HD3	2.03	0.58
1:H:583:LEU:O	1:H:588:ARG:HD2	2.04	0.58
1:N:235:MET:HE1	1:N:240:ILE:HG13	1.86	0.58
1:4:583:LEU:O	1:4:588:ARG:HD2	2.03	0.58
1:6:583:LEU:O	1:6:588:ARG:HD2	2.03	0.58
1:c:583:LEU:O	1:c:588:ARG:HD2	2.03	0.58
2:Bh:119:PRO:HD2	2:Bh:136:ALA:O	2.04	0.58
2:Fh:77:LYS:HD2	2:Fh:79:TYR:OH	2.03	0.58
2:Hh:24:VAL:HB	2:Hh:42:ALA:HB3	1.86	0.58
2:Hh:81:ASP:HA	2:Hh:84:LYS:HD2	1.86	0.58
2:Oh:81:ASP:HA	2:Oh:84:LYS:HD2	1.86	0.58
2:Uh:66:TRP:HB2	3:Ul:120:PHE:HE2	1.69	0.58
2:Xh:77:LYS:HD2	2:Xh:79:TYR:OH	2.03	0.58
2:1h:66:TRP:HB2	3:1l:120:PHE:HE2	1.69	0.58
2:2h:135:TYR:HB3	3:2l:112:TRP:HE1	1.69	0.58
2:4h:77:LYS:CG	2:4h:89:ILE:CD1	2.79	0.58
2:5h:77:LYS:HD2	2:5h:79:TYR:OH	2.03	0.58
2:bh:24:VAL:HB	2:bh:42:ALA:HB3	1.86	0.58
2:fh:81:ASP:HA	2:fh:84:LYS:HD2	1.86	0.58
2:mh:66:TRP:HB2	3:ml:120:PHE:HE2	1.69	0.58
2:qh:66:TRP:HB2	3:ql:120:PHE:HE2	1.69	0.58
2:sh:135:TYR:HB3	3:sl:112:TRP:HE1	1.68	0.58
2:th:24:VAL:HB	2:th:42:ALA:HB3	1.86	0.58
2:uh:119:PRO:HD2	2:uh:136:ALA:O	2.04	0.58
2:wh:119:PRO:HD2	2:wh:136:ALA:O	2.04	0.58
2:yh:81:ASP:HA	2:yh:84:LYS:HD2	1.86	0.58
3:Fl:87:ARG:NH1	3:Fl:89:GLY:O	2.36	0.58
3:Wl:59:GLN:C	3:Wl:105:ALA:HB1	2.29	0.58
3:1l:59:GLN:C	3:1l:105:ALA:HB1	2.29	0.58
3:6l:87:ARG:NH1	3:6l:89:GLY:O	2.36	0.58
3:bl:87:ARG:NH1	3:bl:89:GLY:O	2.36	0.58
3:jl:87:ARG:NH1	3:jl:89:GLY:O	2.36	0.58
3:kl:87:ARG:NH1	3:kl:89:GLY:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:nl:87:ARG:NH1	3:nl:89:GLY:O	2.36	0.58
3:wl:59:GLN:C	3:wl:105:ALA:HB1	2.29	0.58
3:yl:59:GLN:C	3:yl:105:ALA:HB1	2.29	0.58
1:I:235:MET:HE1	1:I:240:ILE:HG13	1.86	0.57
1:T:235:MET:HE1	1:T:240:ILE:HG13	1.86	0.57
1:c:235:MET:HE1	1:c:240:ILE:HG13	1.86	0.57
1:f:580:SER:O	1:j:484:ARG:HD3	2.03	0.57
2:Ah:77:LYS:HD2	2:Ah:79:TYR:OH	2.03	0.57
2:Ch:119:PRO:HD2	2:Ch:136:ALA:O	2.04	0.57
2:Dh:66:TRP:HB2	3:Dl:120:PHE:HE2	1.69	0.57
2:Eh:66:TRP:HB2	3:El:120:PHE:HE2	1.69	0.57
2:Eh:135:TYR:HB3	3:El:112:TRP:HE1	1.67	0.57
2:Gh:81:ASP:HA	2:Gh:84:LYS:HD2	1.86	0.57
2:Xh:24:VAL:HB	2:Xh:42:ALA:HB3	1.86	0.57
2:3h:77:LYS:HD2	2:3h:79:TYR:OH	2.03	0.57
2:4h:135:TYR:HB3	3:4l:112:TRP:HE1	1.69	0.57
2:ah:119:PRO:HD2	2:ah:136:ALA:O	2.04	0.57
2:hh:77:LYS:CG	2:hh:89:ILE:CD1	2.79	0.57
2:ih:68:ALA:HB3	2:ih:89:ILE:HG21	1.84	0.57
2:ih:77:LYS:HD2	2:ih:79:TYR:OH	2.03	0.57
2:jh:66:TRP:HB2	3:jl:120:PHE:HE2	1.69	0.57
2:mh:81:ASP:HA	2:mh:84:LYS:HD2	1.86	0.57
2:nh:81:ASP:HA	2:nh:84:LYS:HD2	1.86	0.57
2:sh:77:LYS:HD2	2:sh:79:TYR:OH	2.04	0.57
2:yh:24:VAL:HB	2:yh:42:ALA:HB3	1.86	0.57
3:Cl:59:GLN:C	3:Cl:105:ALA:HB1	2.29	0.57
3:Hl:59:GLN:C	3:Hl:105:ALA:HB1	2.29	0.57
3:Ol:59:GLN:C	3:Ol:105:ALA:HB1	2.29	0.57
3:Yl:59:GLN:C	3:Yl:105:ALA:HB1	2.29	0.57
3:Yl:87:ARG:NH1	3:Yl:89:GLY:O	2.36	0.57
3:fl:59:GLN:C	3:fl:105:ALA:HB1	2.29	0.57
3:pl:87:ARG:NH1	3:pl:89:GLY:O	2.36	0.57
3:zl:59:GLN:C	3:zl:105:ALA:HB1	2.29	0.57
3:7l:59:GLN:C	3:7l:105:ALA:HB1	2.29	0.57
1:B:235:MET:HE1	1:B:240:ILE:HG13	1.86	0.57
1:4:235:MET:HE1	1:4:240:ILE:HG13	1.86	0.57
1:a:580:SER:O	1:k:484:ARG:HD3	2.03	0.57
1:o:235:MET:HE1	1:o:240:ILE:HG13	1.86	0.57
2:Hh:77:LYS:HD2	2:Hh:79:TYR:OH	2.03	0.57
2:Hh:119:PRO:HD2	2:Hh:136:ALA:O	2.04	0.57
2:Rh:24:VAL:HB	2:Rh:42:ALA:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Rh:86:ARG:CD	2:Rh:106:ARG:NH2	2.68	0.57
2:Uh:24:VAL:HB	2:Uh:42:ALA:HB3	1.86	0.57
2:Uh:81:ASP:HA	2:Uh:84:LYS:HD2	1.86	0.57
2:Wh:86:ARG:CD	2:Wh:106:ARG:NH2	2.68	0.57
2:Zh:86:ARG:CD	2:Zh:106:ARG:NH2	2.67	0.57
2:1h:119:PRO:HD2	2:1h:136:ALA:O	2.04	0.57
2:4h:24:VAL:HB	2:4h:42:ALA:HB3	1.86	0.57
2:4h:86:ARG:CD	2:4h:106:ARG:NH2	2.68	0.57
2:eh:81:ASP:HA	2:eh:84:LYS:HD2	1.86	0.57
2:hh:24:VAL:HB	2:hh:42:ALA:HB3	1.86	0.57
2:hh:86:ARG:CD	2:hh:106:ARG:NH2	2.68	0.57
2:ih:24:VAL:HB	2:ih:42:ALA:HB3	1.86	0.57
2:kh:24:VAL:HB	2:kh:42:ALA:HB3	1.86	0.57
2:kh:86:ARG:CD	2:kh:106:ARG:NH2	2.68	0.57
2:ph:77:LYS:HD2	2:ph:79:TYR:OH	2.03	0.57
2:qh:135:TYR:HB3	3:ql:112:TRP:HE1	1.67	0.57
2:zh:86:ARG:CD	2:zh:106:ARG:NH2	2.68	0.57
2:8h:86:ARG:CD	2:8h:106:ARG:NH2	2.67	0.57
3:Ll:59:GLN:C	3:Ll:105:ALA:HB1	2.29	0.57
3:Rl:59:GLN:C	3:Rl:105:ALA:HB1	2.29	0.57
3:Tl:59:GLN:C	3:Tl:105:ALA:HB1	2.29	0.57
3:2l:87:ARG:NH1	3:2l:89:GLY:O	2.36	0.57
3:sl:87:ARG:NH1	3:sl:89:GLY:O	2.36	0.57
1:I:322:GLU:HG2	1:I:335:ASN:HB2	1.87	0.57
1:O:580:SER:O	1:V:484:ARG:HD3	2.03	0.57
1:R:583:LEU:O	1:R:588:ARG:HD2	2.03	0.57
1:g:235:MET:HE1	1:g:240:ILE:HG13	1.86	0.57
1:j:583:LEU:O	1:j:588:ARG:HD2	2.04	0.57
1:n:235:MET:HE1	1:n:240:ILE:HG13	1.86	0.57
1:u:235:MET:HE1	1:u:240:ILE:HG13	1.86	0.57
2:Bh:24:VAL:HB	2:Bh:42:ALA:HB3	1.86	0.57
2:Dh:81:ASP:HA	2:Dh:84:LYS:HD2	1.86	0.57
2:Eh:119:PRO:HD2	2:Eh:136:ALA:O	2.04	0.57
2:Fh:81:ASP:HA	2:Fh:84:LYS:HD2	1.86	0.57
2:Hh:86:ARG:CD	2:Hh:106:ARG:NH2	2.68	0.57
2:Nh:24:VAL:HB	2:Nh:42:ALA:HB3	1.86	0.57
2:Th:66:TRP:HB2	3:Tl:120:PHE:HE2	1.68	0.57
2:Vh:66:TRP:HB2	3:Vl:120:PHE:HE2	1.69	0.57
2:Zh:66:TRP:HB2	3:Zl:120:PHE:HE2	1.70	0.57
2:Zh:77:LYS:HD2	2:Zh:79:TYR:OH	2.03	0.57
2:3h:86:ARG:CD	2:3h:106:ARG:NH2	2.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4h:119:PRO:HD2	2:4h:136:ALA:O	2.04	0.57
2:5h:86:ARG:CD	2:5h:106:ARG:NH2	2.68	0.57
2:6h:24:VAL:HB	2:6h:42:ALA:HB3	1.86	0.57
2:6h:86:ARG:CD	2:6h:106:ARG:NH2	2.67	0.57
2:ch:24:VAL:HB	2:ch:42:ALA:HB3	1.86	0.57
2:fh:66:TRP:HB2	3:fl:120:PHE:HE2	1.70	0.57
2:gh:24:VAL:HB	2:gh:42:ALA:HB3	1.86	0.57
2:hh:68:ALA:HB3	2:hh:89:ILE:HG21	1.84	0.57
2:jh:77:LYS:CG	2:jh:89:ILE:CD1	2.79	0.57
2:lh:77:LYS:HD2	2:lh:79:TYR:OH	2.03	0.57
2:mh:24:VAL:HB	2:mh:42:ALA:HB3	1.86	0.57
2:mh:119:PRO:HD2	2:mh:136:ALA:O	2.04	0.57
2:qh:119:PRO:HD2	2:qh:136:ALA:O	2.04	0.57
2:wh:66:TRP:HB2	3:wl:120:PHE:HE2	1.69	0.57
2:yh:86:ARG:CD	2:yh:106:ARG:NH2	2.68	0.57
2:yh:119:PRO:HD2	2:yh:136:ALA:O	2.04	0.57
2:zh:66:TRP:HB2	3:zl:120:PHE:HE2	1.69	0.57
2:8h:66:TRP:HB2	3:8l:120:PHE:HE2	1.70	0.57
3:Zl:59:GLN:C	3:Zl:105:ALA:HB1	2.29	0.57
3:al:59:GLN:C	3:al:105:ALA:HB1	2.29	0.57
3:gl:59:GLN:C	3:gl:105:ALA:HB1	2.29	0.57
3:8l:59:GLN:C	3:8l:105:ALA:HB1	2.29	0.57
1:G:235:MET:HE1	1:G:240:ILE:HG13	1.86	0.57
1:a:235:MET:HE1	1:a:240:ILE:HG13	1.86	0.57
1:h:235:MET:HE1	1:h:240:ILE:HG13	1.86	0.57
1:o:322:GLU:HG2	1:o:335:ASN:HB2	1.87	0.57
1:x:235:MET:HE1	1:x:240:ILE:HG13	1.86	0.57
2:Bh:86:ARG:CD	2:Bh:106:ARG:NH2	2.68	0.57
2:Ch:86:ARG:CD	2:Ch:106:ARG:NH2	2.67	0.57
2:Fh:135:TYR:HB3	3:Fl:112:TRP:HE1	1.68	0.57
2:Oh:66:TRP:HB2	3:Ol:120:PHE:HE2	1.70	0.57
2:Th:24:VAL:HB	2:Th:42:ALA:HB3	1.86	0.57
2:Uh:119:PRO:HD2	2:Uh:136:ALA:O	2.04	0.57
2:Vh:119:PRO:HD2	2:Vh:136:ALA:O	2.04	0.57
2:Wh:77:LYS:HD2	2:Wh:79:TYR:OH	2.03	0.57
2:Xh:86:ARG:CD	2:Xh:106:ARG:NH2	2.68	0.57
2:Yh:24:VAL:HB	2:Yh:42:ALA:HB3	1.86	0.57
2:1h:81:ASP:HA	2:1h:84:LYS:HD2	1.86	0.57
2:2h:24:VAL:HB	2:2h:42:ALA:HB3	1.86	0.57
2:2h:86:ARG:CD	2:2h:106:ARG:NH2	2.68	0.57
2:5h:119:PRO:HD2	2:5h:136:ALA:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5h:135:TYR:HB3	3:5l:112:TRP:HE1	1.69	0.57
2:ih:86:ARG:CD	2:ih:106:ARG:NH2	2.68	0.57
2:kh:77:LYS:HD2	2:kh:79:TYR:OH	2.03	0.57
2:lh:81:ASP:HA	2:lh:84:LYS:HD2	1.86	0.57
2:lh:86:ARG:CD	2:lh:106:ARG:NH2	2.68	0.57
2:sh:81:ASP:HA	2:sh:84:LYS:HD2	1.86	0.57
2:uh:24:VAL:HB	2:uh:42:ALA:HB3	1.86	0.57
2:uh:86:ARG:CD	2:uh:106:ARG:NH2	2.68	0.57
2:vh:119:PRO:HD2	2:vh:136:ALA:O	2.04	0.57
2:wh:81:ASP:HA	2:wh:84:LYS:HD2	1.86	0.57
2:yh:77:LYS:HD2	2:yh:79:TYR:OH	2.03	0.57
2:zh:77:LYS:CG	2:zh:89:ILE:CD1	2.79	0.57
2:7h:24:VAL:HB	2:7h:42:ALA:HB3	1.86	0.57
2:8h:77:LYS:HD2	2:8h:79:TYR:OH	2.03	0.57
3:El:59:GLN:C	3:El:105:ALA:HB1	2.29	0.57
3:Ml:59:GLN:C	3:Ml:105:ALA:HB1	2.29	0.57
3:bl:59:GLN:C	3:bl:105:ALA:HB1	2.29	0.57
1:C:235:MET:HE1	1:C:240:ILE:HG13	1.86	0.57
1:E:235:MET:HE1	1:E:240:ILE:HG13	1.86	0.57
1:K:235:MET:HE1	1:K:240:ILE:HG13	1.86	0.57
1:L:484:ARG:HD3	1:g:580:SER:O	2.03	0.57
1:M:235:MET:HE1	1:M:240:ILE:HG13	1.86	0.57
1:Q:583:LEU:O	1:Q:588:ARG:HD2	2.03	0.57
1:V:583:LEU:O	1:V:588:ARG:HD2	2.04	0.57
1:b:235:MET:HE1	1:b:240:ILE:HG13	1.86	0.57
1:k:583:LEU:O	1:k:588:ARG:HD2	2.03	0.57
1:q:235:MET:HE1	1:q:240:ILE:HG13	1.86	0.57
1:r:583:LEU:O	1:r:588:ARG:HD2	2.03	0.57
2:Fh:77:LYS:CG	2:Fh:89:ILE:CD1	2.79	0.57
2:Gh:66:TRP:HB2	3:Gl:120:PHE:HE2	1.69	0.57
2:Ih:81:ASP:HA	2:Ih:84:LYS:HD2	1.86	0.57
2:Jh:119:PRO:HD2	2:Jh:136:ALA:O	2.04	0.57
2:Kh:86:ARG:CD	2:Kh:106:ARG:NH2	2.67	0.57
2:Ph:66:TRP:HB2	3:Pl:120:PHE:HE2	1.69	0.57
2:Rh:66:TRP:HB2	3:Rl:120:PHE:HE2	1.69	0.57
2:Sh:77:LYS:HD2	2:Sh:79:TYR:OH	2.03	0.57
2:Sh:81:ASP:HA	2:Sh:84:LYS:HD2	1.86	0.57
2:Sh:86:ARG:CD	2:Sh:106:ARG:NH2	2.68	0.57
2:Th:81:ASP:HA	2:Th:84:LYS:HD2	1.86	0.57
2:Yh:86:ARG:CD	2:Yh:106:ARG:NH2	2.68	0.57
2:3h:119:PRO:HD2	2:3h:136:ALA:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4h:68:ALA:HB3	2:4h:89:ILE:HG21	1.84	0.57
2:6h:119:PRO:HD2	2:6h:136:ALA:O	2.04	0.57
2:ah:86:ARG:CD	2:ah:106:ARG:NH2	2.67	0.57
2:dh:66:TRP:HB2	3:dl:120:PHE:HE2	1.69	0.57
2:eh:66:TRP:HB2	3:el:120:PHE:HE2	1.70	0.57
2:gh:66:TRP:HB2	3:gl:120:PHE:HE2	1.68	0.57
2:hh:119:PRO:HD2	2:hh:136:ALA:O	2.04	0.57
2:jh:119:PRO:HD2	2:jh:136:ALA:O	2.04	0.57
2:oh:81:ASP:HA	2:oh:84:LYS:HD2	1.86	0.57
2:rh:77:LYS:HZ1	2:rh:77:LYS:HB2	1.68	0.57
2:xh:86:ARG:CD	2:xh:106:ARG:NH2	2.67	0.57
2:zh:77:LYS:HD2	2:zh:79:TYR:OH	2.03	0.57
2:7h:86:ARG:CD	2:7h:106:ARG:NH2	2.68	0.57
3:Jl:59:GLN:C	3:Jl:105:ALA:HB1	2.29	0.57
3:kl:59:GLN:C	3:kl:105:ALA:HB1	2.29	0.57
3:ml:59:GLN:C	3:ml:105:ALA:HB1	2.29	0.57
3:pl:59:GLN:C	3:pl:105:ALA:HB1	2.29	0.57
3:ql:59:GLN:C	3:ql:105:ALA:HB1	2.29	0.57
3:tl:59:GLN:C	3:tl:105:ALA:HB1	2.29	0.57
3:tl:87:ARG:NH1	3:tl:89:GLY:O	2.36	0.57
1:D:235:MET:HE1	1:D:240:ILE:HG13	1.86	0.57
1:W:322:GLU:HG2	1:W:335:ASN:HB2	1.87	0.57
1:2:484:ARG:HD3	1:s:580:SER:O	2.04	0.57
1:e:235:MET:HE1	1:e:240:ILE:HG13	1.86	0.57
1:z:235:MET:HE1	1:z:240:ILE:HG13	1.86	0.57
1:z:322:GLU:HG2	1:z:335:ASN:HB2	1.87	0.57
2:Ah:135:TYR:HB3	3:Al:112:TRP:HE1	1.69	0.57
2:Dh:86:ARG:CD	2:Dh:106:ARG:NH2	2.68	0.57
2:Sh:77:LYS:CG	2:Sh:89:ILE:CD1	2.79	0.57
2:Vh:77:LYS:CG	2:Vh:89:ILE:CD1	2.79	0.57
2:Wh:66:TRP:HB2	3:Wl:120:PHE:HE2	1.70	0.57
2:Wh:77:LYS:CG	2:Wh:89:ILE:CD1	2.79	0.57
2:1h:135:TYR:HB3	3:1l:112:TRP:HE1	1.69	0.57
2:2h:119:PRO:HD2	2:2h:136:ALA:O	2.04	0.57
2:ah:24:VAL:HB	2:ah:42:ALA:HB3	1.86	0.57
2:eh:86:ARG:CD	2:eh:106:ARG:NH2	2.68	0.57
2:ih:119:PRO:HD2	2:ih:136:ALA:O	2.04	0.57
2:nh:66:TRP:HB2	3:nl:120:PHE:HE2	1.69	0.57
2:sh:77:LYS:CG	2:sh:89:ILE:CD1	2.79	0.57
3:Ll:87:ARG:NH1	3:Ll:89:GLY:O	2.36	0.57
3:Ul:59:GLN:C	3:Ul:105:ALA:HB1	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vl:59:GLN:C	3:Vl:105:ALA:HB1	2.29	0.57
1:G:322:GLU:HG2	1:G:335:ASN:HB2	1.87	0.57
1:J:583:LEU:O	1:J:588:ARG:HD2	2.03	0.57
1:O:583:LEU:O	1:O:588:ARG:HD2	2.03	0.57
1:P:235:MET:HE1	1:P:240:ILE:HG13	1.86	0.57
1:R:235:MET:HE1	1:R:240:ILE:HG13	1.86	0.57
1:T:580:SER:O	1:t:484:ARG:HD3	2.03	0.57
1:W:235:MET:HE1	1:W:240:ILE:HG13	1.86	0.57
1:3:235:MET:HE1	1:3:240:ILE:HG13	1.86	0.57
1:d:235:MET:HE1	1:d:240:ILE:HG13	1.86	0.57
1:n:322:GLU:HG2	1:n:335:ASN:HB2	1.87	0.57
1:t:322:GLU:HG2	1:t:335:ASN:HB2	1.87	0.57
1:v:583:LEU:O	1:v:588:ARG:HD2	2.03	0.57
1:x:322:GLU:HG2	1:x:335:ASN:HB2	1.87	0.57
2:Ch:24:VAL:HB	2:Ch:42:ALA:HB3	1.86	0.57
2:Fh:86:ARG:CD	2:Fh:106:ARG:NH2	2.67	0.57
2:Gh:77:LYS:HD2	2:Gh:79:TYR:OH	2.03	0.57
2:Ih:77:LYS:HD2	2:Ih:79:TYR:OH	2.03	0.57
2:Nh:119:PRO:HD2	2:Nh:136:ALA:O	2.04	0.57
2:Rh:77:LYS:HD2	2:Rh:79:TYR:OH	2.03	0.57
2:Xh:119:PRO:HD2	2:Xh:136:ALA:O	2.04	0.57
2:3h:81:ASP:HA	2:3h:84:LYS:HD2	1.86	0.57
2:3h:135:TYR:HB3	3:3l:112:TRP:HE1	1.69	0.57
2:gh:81:ASP:HA	2:gh:84:LYS:HD2	1.86	0.57
2:kh:66:TRP:HB2	3:kl:120:PHE:HE2	1.69	0.57
2:rh:77:LYS:CG	2:rh:89:ILE:CD1	2.79	0.57
2:wh:135:TYR:HB3	3:wl:112:TRP:HE1	1.69	0.57
3:El:87:ARG:NH1	3:El:89:GLY:O	2.36	0.57
3:Gl:59:GLN:C	3:Gl:105:ALA:HB1	2.29	0.57
3:2l:59:GLN:C	3:2l:105:ALA:HB1	2.29	0.57
3:nl:59:GLN:C	3:nl:105:ALA:HB1	2.29	0.57
3:ql:87:ARG:NH1	3:ql:89:GLY:O	2.36	0.57
1:K:322:GLU:HG2	1:K:335:ASN:HB2	1.87	0.57
1:L:322:GLU:HG2	1:L:335:ASN:HB2	1.87	0.57
1:Y:235:MET:HE1	1:Y:240:ILE:HG13	1.86	0.57
1:Z:583:LEU:O	1:Z:588:ARG:HD2	2.03	0.57
1:f:583:LEU:O	1:f:588:ARG:HD2	2.03	0.57
1:i:583:LEU:O	1:i:588:ARG:HD2	2.03	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:Ah:86:ARG:CD	2:Ah:106:ARG:NH2	2.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Kh:119:PRO:HD2	2:Kh:136:ALA:O	2.04	0.57
2:Mh:81:ASP:HA	2:Mh:84:LYS:HD2	1.86	0.57
2:Th:77:LYS:HD2	2:Th:79:TYR:OH	2.03	0.57
2:Vh:81:ASP:HA	2:Vh:84:LYS:HD2	1.86	0.57
2:Zh:81:ASP:HA	2:Zh:84:LYS:HD2	1.86	0.57
2:2h:81:ASP:HA	2:2h:84:LYS:HD2	1.86	0.57
2:4h:66:TRP:HB2	3:4l:120:PHE:HE2	1.69	0.57
2:5h:81:ASP:HA	2:5h:84:LYS:HD2	1.86	0.57
2:6h:81:ASP:HA	2:6h:84:LYS:HD2	1.86	0.57
2:ch:86:ARG:CD	2:ch:106:ARG:NH2	2.68	0.57
2:ch:119:PRO:HD2	2:ch:136:ALA:O	2.04	0.57
2:eh:24:VAL:HB	2:eh:42:ALA:HB3	1.86	0.57
2:gh:86:ARG:CD	2:gh:106:ARG:NH2	2.67	0.57
2:jh:77:LYS:HZ1	2:jh:77:LYS:HB2	1.70	0.57
2:nh:77:LYS:HD2	2:nh:79:TYR:OH	2.03	0.57
2:ph:86:ARG:CD	2:ph:106:ARG:NH2	2.68	0.57
2:sh:86:ARG:CD	2:sh:106:ARG:NH2	2.68	0.57
2:th:86:ARG:CD	2:th:106:ARG:NH2	2.68	0.57
2:uh:66:TRP:HB2	3:ul:120:PHE:HE2	1.69	0.57
2:vh:81:ASP:HA	2:vh:84:LYS:HD2	1.86	0.57
2:8h:81:ASP:HA	2:8h:84:LYS:HD2	1.86	0.57
3:Al:59:GLN:C	3:Al:105:ALA:HB1	2.29	0.57
3:6l:59:GLN:C	3:6l:105:ALA:HB1	2.29	0.57
3:jl:59:GLN:C	3:jl:105:ALA:HB1	2.29	0.57
3:vl:59:GLN:C	3:vl:105:ALA:HB1	2.29	0.57
1:N:322:GLU:HG2	1:N:335:ASN:HB2	1.87	0.57
1:T:583:LEU:O	1:T:588:ARG:HD2	2.03	0.57
1:X:583:LEU:O	1:X:588:ARG:HD2	2.03	0.57
1:2:580:SER:O	1:w:484:ARG:HD3	2.03	0.57
1:c:322:GLU:HG2	1:c:335:ASN:HB2	1.87	0.57
1:g:583:LEU:O	1:g:588:ARG:HD2	2.03	0.57
1:l:322:GLU:HG2	1:l:335:ASN:HB2	1.87	0.57
1:q:583:LEU:O	1:q:588:ARG:HD2	2.03	0.57
2:Bh:66:TRP:HB2	3:Bl:120:PHE:HE2	1.69	0.57
2:Kh:81:ASP:HA	2:Kh:84:LYS:HD2	1.86	0.57
2:Nh:86:ARG:CD	2:Nh:106:ARG:NH2	2.68	0.57
2:Oh:119:PRO:HD2	2:Oh:136:ALA:O	2.04	0.57
2:Vh:77:LYS:HZ1	2:Vh:77:LYS:HB2	1.70	0.57
2:bh:66:TRP:HB2	3:bl:120:PHE:HE2	1.69	0.57
2:dh:81:ASP:HA	2:dh:84:LYS:HD2	1.86	0.57
2:fh:119:PRO:HD2	2:fh:136:ALA:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gh:77:LYS:HD2	2:gh:79:TYR:OH	2.03	0.57
2:jh:81:ASP:HA	2:jh:84:LYS:HD2	1.86	0.57
2:lh:77:LYS:CG	2:lh:89:ILE:CD1	2.79	0.57
2:oh:77:LYS:HD2	2:oh:79:TYR:OH	2.03	0.57
2:oh:119:PRO:HD2	2:oh:136:ALA:O	2.04	0.57
2:xh:119:PRO:HD2	2:xh:136:ALA:O	2.04	0.57
2:yh:66:TRP:HB2	3:yl:120:PHE:HE2	1.69	0.57
3:Kl:87:ARG:NH1	3:Kl:89:GLY:O	2.36	0.57
3:Sl:59:GLN:C	3:Sl:105:ALA:HB1	2.29	0.57
3:4l:59:GLN:C	3:4l:105:ALA:HB1	2.29	0.57
3:hl:59:GLN:C	3:hl:105:ALA:HB1	2.29	0.57
3:ll:59:GLN:C	3:ll:105:ALA:HB1	2.29	0.57
3:yl:48:ASN:OD1	3:yl:49:ILE:N	2.36	0.57
1:S:322:GLU:HG2	1:S:335:ASN:HB2	1.87	0.57
1:W:583:LEU:O	1:W:588:ARG:HD2	2.03	0.57
1:z:583:LEU:O	1:z:588:ARG:HD2	2.03	0.57
1:7:322:GLU:HG2	1:7:335:ASN:HB2	1.87	0.57
1:8:583:LEU:O	1:8:588:ARG:HD2	2.03	0.57
2:Dh:24:VAL:HB	2:Dh:42:ALA:HB3	1.86	0.57
2:Ih:119:PRO:HD2	2:Ih:136:ALA:O	2.04	0.57
2:Jh:81:ASP:HA	2:Jh:84:LYS:HD2	1.86	0.57
2:Lh:86:ARG:CD	2:Lh:106:ARG:NH2	2.68	0.57
2:Mh:66:TRP:HB2	3:MI:120:PHE:HE2	1.69	0.57
2:Mh:86:ARG:CD	2:Mh:106:ARG:NH2	2.68	0.57
2:Nh:81:ASP:HA	2:Nh:84:LYS:HD2	1.86	0.57
2:Ph:86:ARG:CD	2:Ph:106:ARG:NH2	2.68	0.57
2:Th:86:ARG:CD	2:Th:106:ARG:NH2	2.67	0.57
2:Wh:119:PRO:HD2	2:Wh:136:ALA:O	2.04	0.57
2:bh:81:ASP:HA	2:bh:84:LYS:HD2	1.86	0.57
2:ch:81:ASP:HA	2:ch:84:LYS:HD2	1.86	0.57
3:Nl:59:GLN:C	3:Nl:105:ALA:HB1	2.29	0.57
3:cl:59:GLN:C	3:cl:105:ALA:HB1	2.29	0.57
3:el:59:GLN:C	3:el:105:ALA:HB1	2.29	0.57
1:E:583:LEU:O	1:E:588:ARG:HD2	2.03	0.56
1:L:235:MET:HE1	1:L:240:ILE:HG13	1.86	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:V:235:MET:HE1	1:V:240:ILE:HG13	1.86	0.56
1:Y:322:GLU:HG2	1:Y:335:ASN:HB2	1.87	0.56
1:Z:235:MET:HE1	1:Z:240:ILE:HG13	1.86	0.56
1:5:235:MET:HE1	1:5:240:ILE:HG13	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:235:MET:HE1	1:f:240:ILE:HG13	1.86	0.56
1:j:235:MET:HE1	1:j:240:ILE:HG13	1.86	0.56
2:Bh:48:PHE:O	2:Bh:91:ARG:NH2	2.38	0.56
2:Fh:24:VAL:HB	2:Fh:42:ALA:HB3	1.86	0.56
2:Hh:66:TRP:HB2	3:Hi:120:PHE:HE2	1.69	0.56
2:Lh:48:PHE:O	2:Lh:91:ARG:NH2	2.38	0.56
2:Ph:81:ASP:HA	2:Ph:84:LYS:HD2	1.86	0.56
2:Rh:48:PHE:O	2:Rh:91:ARG:NH2	2.38	0.56
2:Th:119:PRO:HD2	2:Th:136:ALA:O	2.04	0.56
2:Xh:48:PHE:O	2:Xh:91:ARG:NH2	2.38	0.56
2:1h:86:ARG:CD	2:1h:106:ARG:NH2	2.68	0.56
2:bh:86:ARG:CD	2:bh:106:ARG:NH2	2.68	0.56
2:dh:24:VAL:HB	2:dh:42:ALA:HB3	1.86	0.56
2:dh:86:ARG:CD	2:dh:106:ARG:NH2	2.68	0.56
2:hh:81:ASP:HA	2:hh:84:LYS:HD2	1.86	0.56
2:ih:48:PHE:O	2:ih:91:ARG:NH2	2.38	0.56
2:jh:24:VAL:HB	2:jh:42:ALA:HB3	1.86	0.56
2:th:48:PHE:O	2:th:91:ARG:NH2	2.38	0.56
2:th:119:PRO:HD2	2:th:136:ALA:O	2.04	0.56
2:uh:48:PHE:O	2:uh:91:ARG:NH2	2.38	0.56
2:xh:81:ASP:HA	2:xh:84:LYS:HD2	1.86	0.56
2:zh:24:VAL:HB	2:zh:42:ALA:HB3	1.86	0.56
2:zh:119:PRO:HD2	2:zh:136:ALA:O	2.04	0.56
3:Di:59:GLN:C	3:Di:105:ALA:HB1	2.29	0.56
3:Hi:48:ASN:OD1	3:Hi:49:ILE:N	2.36	0.56
3:Pi:87:ARG:NH1	3:Pi:89:GLY:O	2.36	0.56
3:Xi:59:GLN:C	3:Xi:105:ALA:HB1	2.29	0.56
3:ol:59:GLN:C	3:ol:105:ALA:HB1	2.29	0.56
3:rl:48:ASN:OD1	3:rl:49:ILE:N	2.36	0.56
3:xl:87:ARG:NH1	3:xl:89:GLY:O	2.36	0.56
1:A:580:SER:O	1:3:484:ARG:HD3	2.04	0.56
1:O:235:MET:HE1	1:O:240:ILE:HG13	1.86	0.56
1:m:235:MET:HE1	1:m:240:ILE:HG13	1.86	0.56
1:t:235:MET:HE1	1:t:240:ILE:HG13	1.86	0.56
1:8:235:MET:HE1	1:8:240:ILE:HG13	1.86	0.56
2:Ah:24:VAL:HB	2:Ah:42:ALA:HB3	1.86	0.56
2:Ph:24:VAL:HB	2:Ph:42:ALA:HB3	1.86	0.56
2:Wh:24:VAL:HB	2:Wh:42:ALA:HB3	1.86	0.56
2:kh:48:PHE:O	2:kh:91:ARG:NH2	2.38	0.56
2:lh:24:VAL:HB	2:lh:42:ALA:HB3	1.86	0.56
2:ph:81:ASP:HA	2:ph:84:LYS:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:rh:24:VAL:HB	2:rh:42:ALA:HB3	1.86	0.56
2:wh:86:ARG:CD	2:wh:106:ARG:NH2	2.68	0.56
3:il:59:GLN:C	3:il:105:ALA:HB1	2.29	0.56
3:pl:59:GLN:C	3:pl:105:ALA:HB1	2.29	0.56
3:tl:87:ARG:NH1	3:tl:89:GLY:O	2.36	0.56
3:3l:48:ASN:OD1	3:3l:49:ILE:N	2.36	0.56
3:dl:59:GLN:C	3:dl:105:ALA:HB1	2.29	0.56
3:dl:87:ARG:NH1	3:dl:89:GLY:O	2.36	0.56
3:fl:87:ARG:NH1	3:fl:89:GLY:O	2.36	0.56
3:il:59:GLN:C	3:il:105:ALA:HB1	2.29	0.56
3:vl:48:ASN:OD1	3:vl:49:ILE:N	2.36	0.56
1:D:322:GLU:HG2	1:D:335:ASN:HB2	1.87	0.56
1:R:322:GLU:HG2	1:R:335:ASN:HB2	1.87	0.56
1:Z:322:GLU:HG2	1:Z:335:ASN:HB2	1.87	0.56
1:1:235:MET:HE1	1:1:240:ILE:HG13	1.86	0.56
1:4:322:GLU:HG2	1:4:335:ASN:HB2	1.87	0.56
1:6:235:MET:HE1	1:6:240:ILE:HG13	1.86	0.56
1:e:322:GLU:HG2	1:e:335:ASN:HB2	1.87	0.56
1:h:322:GLU:HG2	1:h:335:ASN:HB2	1.87	0.56
1:k:322:GLU:HG2	1:k:335:ASN:HB2	1.87	0.56
1:l:235:MET:HE1	1:l:240:ILE:HG13	1.86	0.56
1:v:457:GLN:HE22	1:v:459:ARG:HH11	1.54	0.56
1:8:322:GLU:HG2	1:8:335:ASN:HB2	1.87	0.56
2:Ah:81:ASP:HA	2:Ah:84:LYS:HD2	1.86	0.56
2:Eh:48:PHE:O	2:Eh:91:ARG:NH2	2.38	0.56
2:Eh:86:ARG:CD	2:Eh:106:ARG:NH2	2.68	0.56
2:Gh:24:VAL:HB	2:Gh:42:ALA:HB3	1.86	0.56
2:Jh:86:ARG:CD	2:Jh:106:ARG:NH2	2.67	0.56
2:Lh:119:PRO:HD2	2:Lh:136:ALA:O	2.04	0.56
2:Mh:48:PHE:O	2:Mh:91:ARG:NH2	2.38	0.56
2:Oh:24:VAL:HB	2:Oh:42:ALA:HB3	1.86	0.56
2:Oh:48:PHE:O	2:Oh:91:ARG:NH2	2.38	0.56
2:Qh:24:VAL:HB	2:Qh:42:ALA:HB3	1.86	0.56
2:Qh:119:PRO:HD2	2:Qh:136:ALA:O	2.04	0.56
2:Sh:24:VAL:HB	2:Sh:42:ALA:HB3	1.86	0.56
2:Sh:119:PRO:HD2	2:Sh:136:ALA:O	2.04	0.56
2:Uh:86:ARG:CD	2:Uh:106:ARG:NH2	2.68	0.56
2:Vh:24:VAL:HB	2:Vh:42:ALA:HB3	1.86	0.56
2:Vh:86:ARG:CD	2:Vh:106:ARG:NH2	2.67	0.56
2:Wh:81:ASP:HA	2:Wh:84:LYS:HD2	1.86	0.56
2:Yh:119:PRO:HD2	2:Yh:136:ALA:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zh:48:PHE:O	2:Zh:91:ARG:NH2	2.38	0.56
2:3h:24:VAL:HB	2:3h:42:ALA:HB3	1.86	0.56
2:4h:48:PHE:O	2:4h:91:ARG:NH2	2.38	0.56
2:4h:81:ASP:HA	2:4h:84:LYS:HD2	1.86	0.56
2:5h:24:VAL:HB	2:5h:42:ALA:HB3	1.86	0.56
2:ah:48:PHE:O	2:ah:91:ARG:NH2	2.38	0.56
2:bh:48:PHE:O	2:bh:91:ARG:NH2	2.38	0.56
2:dh:119:PRO:HD2	2:dh:136:ALA:O	2.04	0.56
2:fh:24:VAL:HB	2:fh:42:ALA:HB3	1.86	0.56
2:fh:48:PHE:O	2:fh:91:ARG:NH2	2.38	0.56
2:gh:119:PRO:HD2	2:gh:136:ALA:O	2.04	0.56
2:hh:48:PHE:O	2:hh:91:ARG:NH2	2.39	0.56
2:mh:86:ARG:CD	2:mh:106:ARG:NH2	2.68	0.56
2:nh:48:PHE:O	2:nh:91:ARG:NH2	2.38	0.56
2:qh:48:PHE:O	2:qh:91:ARG:NH2	2.38	0.56
2:qh:86:ARG:CD	2:qh:106:ARG:NH2	2.68	0.56
2:rh:66:TRP:HB2	3:rl:120:PHE:HE2	1.68	0.56
2:sh:24:VAL:HB	2:sh:42:ALA:HB3	1.86	0.56
2:sh:119:PRO:HD2	2:sh:136:ALA:O	2.04	0.56
2:th:81:ASP:HA	2:th:84:LYS:HD2	1.86	0.56
2:vh:86:ARG:CD	2:vh:106:ARG:NH2	2.68	0.56
2:wh:48:PHE:O	2:wh:91:ARG:NH2	2.38	0.56
2:yh:48:PHE:O	2:yh:91:ARG:NH2	2.38	0.56
2:zh:48:PHE:O	2:zh:91:ARG:NH2	2.38	0.56
2:zh:81:ASP:HA	2:zh:84:LYS:HD2	1.86	0.56
2:7h:119:PRO:HD2	2:7h:136:ALA:O	2.04	0.56
2:8h:48:PHE:O	2:8h:91:ARG:NH2	2.38	0.56
3:Jl:48:ASN:OD1	3:Jl:49:ILE:N	2.36	0.56
3:Ol:87:ARG:NH1	3:Ol:89:GLY:O	2.36	0.56
3:Ql:48:ASN:OD1	3:Ql:49:ILE:N	2.36	0.56
3:Xl:87:ARG:NH1	3:Xl:89:GLY:O	2.36	0.56
3:1l:87:ARG:NH1	3:1l:89:GLY:O	2.36	0.56
3:5l:48:ASN:OD1	3:5l:49:ILE:N	2.36	0.56
3:gl:87:ARG:NH1	3:gl:89:GLY:O	2.36	0.56
3:hl:48:ASN:OD1	3:hl:49:ILE:N	2.36	0.56
3:wl:87:ARG:NH1	3:wl:89:GLY:O	2.36	0.56
1:H:322:GLU:HG2	1:H:335:ASN:HB2	1.87	0.56
1:J:457:GLN:HE22	1:J:459:ARG:HH11	1.54	0.56
1:V:457:GLN:HE22	1:V:459:ARG:HH11	1.54	0.56
1:j:457:GLN:HE22	1:j:459:ARG:HH11	1.54	0.56
1:w:235:MET:HE1	1:w:240:ILE:HG13	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:48:PHE:O	2:Ch:91:ARG:NH2	2.39	0.56
2:Fh:48:PHE:O	2:Fh:91:ARG:NH2	2.38	0.56
2:Fh:119:PRO:HD2	2:Fh:136:ALA:O	2.04	0.56
2:Gh:48:PHE:O	2:Gh:91:ARG:NH2	2.38	0.56
2:Gh:119:PRO:HD2	2:Gh:136:ALA:O	2.04	0.56
2:Hh:48:PHE:O	2:Hh:91:ARG:NH2	2.38	0.56
2:Ih:86:ARG:CD	2:Ih:106:ARG:NH2	2.67	0.56
2:Lh:81:ASP:HA	2:Lh:84:LYS:HD2	1.86	0.56
2:Ph:119:PRO:HD2	2:Ph:136:ALA:O	2.04	0.56
2:Qh:66:TRP:HB2	3:Ql:120:PHE:HE2	1.68	0.56
2:Sh:48:PHE:O	2:Sh:91:ARG:NH2	2.39	0.56
2:Wh:48:PHE:O	2:Wh:91:ARG:NH2	2.38	0.56
2:1h:48:PHE:O	2:1h:91:ARG:NH2	2.38	0.56
2:ah:77:LYS:CG	2:ah:89:ILE:CD1	2.79	0.56
2:gh:48:PHE:O	2:gh:91:ARG:NH2	2.38	0.56
2:jh:86:ARG:CD	2:jh:106:ARG:NH2	2.67	0.56
2:kh:77:LYS:CG	2:kh:89:ILE:CD1	2.79	0.56
2:kh:119:PRO:HD2	2:kh:136:ALA:O	2.04	0.56
2:lh:48:PHE:O	2:lh:91:ARG:NH2	2.39	0.56
2:nh:24:VAL:HB	2:nh:42:ALA:HB3	1.86	0.56
2:nh:119:PRO:HD2	2:nh:136:ALA:O	2.04	0.56
2:ph:24:VAL:HB	2:ph:42:ALA:HB3	1.86	0.56
2:rh:86:ARG:CD	2:rh:106:ARG:NH2	2.67	0.56
2:rh:119:PRO:HD2	2:rh:136:ALA:O	2.04	0.56
2:sh:48:PHE:O	2:sh:91:ARG:NH2	2.38	0.56
3:4l:48:ASN:OD1	3:4l:49:ILE:N	2.36	0.56
1:A:235:MET:HE1	1:A:240:ILE:HG13	1.86	0.56
1:C:322:GLU:HG2	1:C:335:ASN:HB2	1.87	0.56
1:F:235:MET:HE1	1:F:240:ILE:HG13	1.86	0.56
1:2:235:MET:HE1	1:2:240:ILE:HG13	1.86	0.56
1:5:484:ARG:HD3	1:p:580:SER:O	2.04	0.56
1:a:322:GLU:HG2	1:a:335:ASN:HB2	1.87	0.56
1:p:235:MET:HE1	1:p:240:ILE:HG13	1.86	0.56
2:Eh:24:VAL:HB	2:Eh:42:ALA:HB3	1.86	0.56
2:Gh:86:ARG:CD	2:Gh:106:ARG:NH2	2.68	0.56
2:Qh:86:ARG:CD	2:Qh:106:ARG:NH2	2.67	0.56
2:Th:48:PHE:O	2:Th:91:ARG:NH2	2.38	0.56
2:Zh:119:PRO:HD2	2:Zh:136:ALA:O	2.04	0.56
2:ch:48:PHE:O	2:ch:91:ARG:NH2	2.39	0.56
2:ih:66:TRP:HB2	3:il:120:PHE:HE2	1.69	0.56
2:lh:119:PRO:HD2	2:lh:136:ALA:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nh:86:ARG:CD	2:nh:106:ARG:NH2	2.68	0.56
2:oh:86:ARG:CD	2:oh:106:ARG:NH2	2.67	0.56
2:ph:48:PHE:O	2:ph:91:ARG:NH2	2.38	0.56
2:7h:81:ASP:HA	2:7h:84:LYS:HD2	1.86	0.56
2:8h:119:PRO:HD2	2:8h:136:ALA:O	2.04	0.56
3:il:87:ARG:NH1	3:il:89:GLY:O	2.36	0.56
1:A:322:GLU:HG2	1:A:335:ASN:HB2	1.87	0.56
1:T:322:GLU:HG2	1:T:335:ASN:HB2	1.87	0.56
1:g:322:GLU:HG2	1:g:335:ASN:HB2	1.87	0.56
1:p:322:GLU:HG2	1:p:335:ASN:HB2	1.87	0.56
1:s:235:MET:HE1	1:s:240:ILE:HG13	1.86	0.56
1:w:322:GLU:HG2	1:w:335:ASN:HB2	1.87	0.56
1:y:322:GLU:HG2	1:y:335:ASN:HB2	1.87	0.56
2:Ah:48:PHE:O	2:Ah:91:ARG:NH2	2.38	0.56
2:Ch:77:LYS:CG	2:Ch:89:ILE:CD1	2.79	0.56
2:Ih:48:PHE:O	2:Ih:91:ARG:NH2	2.38	0.56
2:Jh:48:PHE:O	2:Jh:91:ARG:NH2	2.38	0.56
2:Kh:48:PHE:O	2:Kh:91:ARG:NH2	2.38	0.56
2:Nh:48:PHE:O	2:Nh:91:ARG:NH2	2.39	0.56
2:Nh:66:TRP:HB2	3:Nl:120:PHE:HE2	1.69	0.56
2:Qh:77:LYS:CG	2:Qh:89:ILE:CD1	2.79	0.56
2:Rh:119:PRO:HD2	2:Rh:136:ALA:O	2.04	0.56
2:bh:119:PRO:HD2	2:bh:136:ALA:O	2.04	0.56
2:oh:48:PHE:O	2:oh:91:ARG:NH2	2.38	0.56
2:vh:48:PHE:O	2:vh:91:ARG:NH2	2.39	0.56
2:7h:48:PHE:O	2:7h:91:ARG:NH2	2.38	0.56
1:C:457:GLN:HE22	1:C:459:ARG:HH11	1.54	0.56
2:Ah:119:PRO:HD2	2:Ah:136:ALA:O	2.04	0.56
2:Eh:81:ASP:HA	2:Eh:84:LYS:HD2	1.86	0.56
2:Mh:119:PRO:HD2	2:Mh:136:ALA:O	2.04	0.56
2:Rh:77:LYS:CG	2:Rh:89:ILE:CD1	2.79	0.56
2:Xh:66:TRP:HB2	3:Xl:120:PHE:HE2	1.69	0.56
2:Yh:48:PHE:O	2:Yh:91:ARG:NH2	2.38	0.56
2:Yh:81:ASP:HA	2:Yh:84:LYS:HD2	1.86	0.56
2:eh:119:PRO:HD2	2:eh:136:ALA:O	2.04	0.56
2:ph:119:PRO:HD2	2:ph:136:ALA:O	2.04	0.56
2:xh:48:PHE:O	2:xh:91:ARG:NH2	2.38	0.56
3:Dl:86:SER:HB2	3:Dl:93:SER:OG	2.06	0.56
3:El:86:SER:HB2	3:El:93:SER:OG	2.06	0.56
3:Jl:86:SER:HB2	3:Jl:93:SER:OG	2.06	0.56
3:Kl:26:GLN:NE2	3:Kl:109:CYS:SG	2.79	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Nl:87:ARG:NH1	3:Nl:89:GLY:O	2.36	0.56
3:1l:86:SER:HB2	3:1l:93:SER:OG	2.06	0.56
3:dl:86:SER:HB2	3:dl:93:SER:OG	2.06	0.56
3:el:86:SER:HB2	3:el:93:SER:OG	2.06	0.56
3:el:87:ARG:NH1	3:el:89:GLY:O	2.36	0.56
3:ll:87:ARG:NH1	3:ll:89:GLY:O	2.36	0.56
3:ql:86:SER:HB2	3:ql:93:SER:OG	2.06	0.56
3:vl:86:SER:HB2	3:vl:93:SER:OG	2.06	0.56
3:wl:86:SER:HB2	3:wl:93:SER:OG	2.06	0.56
3:xl:26:GLN:NE2	3:xl:109:CYS:SG	2.79	0.56
1:F:322:GLU:HG2	1:F:335:ASN:HB2	1.87	0.56
1:S:457:GLN:HE22	1:S:459:ARG:HH11	1.54	0.56
1:1:322:GLU:HG2	1:1:335:ASN:HB2	1.87	0.56
1:a:457:GLN:HE22	1:a:459:ARG:HH11	1.54	0.56
1:y:457:GLN:HE22	1:y:459:ARG:HH11	1.54	0.56
2:Xh:77:LYS:CG	2:Xh:89:ILE:CD1	2.79	0.56
2:ch:66:TRP:HB2	3:cl:120:PHE:HE2	1.69	0.56
2:qh:24:VAL:HB	2:qh:42:ALA:HB3	1.86	0.56
2:wh:24:VAL:HB	2:wh:42:ALA:HB3	1.86	0.56
3:El:26:GLN:NE2	3:El:109:CYS:SG	2.79	0.56
3:Pl:86:SER:HB2	3:Pl:93:SER:OG	2.06	0.56
3:Ql:26:GLN:NE2	3:Ql:109:CYS:SG	2.79	0.56
3:Sl:86:SER:HB2	3:Sl:93:SER:OG	2.06	0.56
3:Xl:26:GLN:NE2	3:Xl:109:CYS:SG	2.79	0.56
3:Xl:86:SER:HB2	3:Xl:93:SER:OG	2.06	0.56
3:Yl:86:SER:HB2	3:Yl:93:SER:OG	2.06	0.56
3:2l:86:SER:HB2	3:2l:93:SER:OG	2.06	0.56
3:3l:87:ARG:NH1	3:3l:89:GLY:O	2.36	0.56
3:5l:87:ARG:NH1	3:5l:89:GLY:O	2.36	0.56
3:cl:26:GLN:NE2	3:cl:109:CYS:SG	2.79	0.56
3:il:26:GLN:NE2	3:il:109:CYS:SG	2.79	0.56
3:il:86:SER:HB2	3:il:93:SER:OG	2.06	0.56
3:ql:26:GLN:NE2	3:ql:109:CYS:SG	2.79	0.56
3:rl:26:GLN:NE2	3:rl:109:CYS:SG	2.79	0.56
3:tl:86:SER:HB2	3:tl:93:SER:OG	2.06	0.56
1:J:235:MET:HE1	1:J:240:ILE:HG13	1.86	0.56
1:V:322:GLU:HG2	1:V:335:ASN:HB2	1.87	0.56
1:2:322:GLU:HG2	1:2:335:ASN:HB2	1.87	0.56
1:l:457:GLN:HE22	1:l:459:ARG:HH11	1.54	0.56
1:m:322:GLU:HG2	1:m:335:ASN:HB2	1.87	0.56
2:Ah:77:LYS:CG	2:Ah:89:ILE:CD1	2.79	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Dh:119:PRO:HD2	2:Dh:136:ALA:O	2.04	0.56
2:Qh:77:LYS:HZ1	2:Qh:77:LYS:HB2	1.70	0.56
2:1h:24:VAL:HB	2:1h:42:ALA:HB3	1.86	0.56
2:2h:48:PHE:O	2:2h:91:ARG:NH2	2.38	0.56
2:ih:77:LYS:CG	2:ih:89:ILE:CD1	2.79	0.56
2:jh:48:PHE:O	2:jh:91:ARG:NH2	2.39	0.56
2:qh:81:ASP:HA	2:qh:84:LYS:HD2	1.86	0.56
3:Bl:26:GLN:NE2	3:Bl:109:CYS:SG	2.79	0.56
3:Cl:86:SER:HB2	3:Cl:93:SER:OG	2.06	0.56
3:Ll:86:SER:HB2	3:Ll:93:SER:OG	2.06	0.56
3:Mi:86:SER:HB2	3:Mi:93:SER:OG	2.06	0.56
3:Nl:26:GLN:NE2	3:Nl:109:CYS:SG	2.79	0.56
3:Ol:26:GLN:NE2	3:Ol:109:CYS:SG	2.79	0.56
3:Sl:87:ARG:NH1	3:Sl:89:GLY:O	2.36	0.56
3:Tl:86:SER:HB2	3:Tl:93:SER:OG	2.06	0.56
3:Ul:26:GLN:NE2	3:Ul:109:CYS:SG	2.79	0.56
3:Vl:26:GLN:NE2	3:Vl:109:CYS:SG	2.79	0.56
3:Wl:86:SER:HB2	3:Wl:93:SER:OG	2.06	0.56
3:2l:26:GLN:NE2	3:2l:109:CYS:SG	2.79	0.56
3:6l:26:GLN:NE2	3:6l:109:CYS:SG	2.79	0.56
3:6l:86:SER:HB2	3:6l:93:SER:OG	2.06	0.56
3:cl:87:ARG:NH1	3:cl:89:GLY:O	2.36	0.56
3:fl:26:GLN:NE2	3:fl:109:CYS:SG	2.79	0.56
3:gl:86:SER:HB2	3:gl:93:SER:OG	2.06	0.56
3:jl:26:GLN:NE2	3:jl:109:CYS:SG	2.79	0.56
3:ll:86:SER:HB2	3:ll:93:SER:OG	2.06	0.56
3:ul:26:GLN:NE2	3:ul:109:CYS:SG	2.79	0.56
3:zl:86:SER:HB2	3:zl:93:SER:OG	2.06	0.56
3:7l:86:SER:HB2	3:7l:93:SER:OG	2.06	0.56
1:H:457:GLN:HE22	1:H:459:ARG:HH11	1.54	0.56
1:Q:322:GLU:HG2	1:Q:335:ASN:HB2	1.87	0.56
1:U:322:GLU:HG2	1:U:335:ASN:HB2	1.87	0.56
1:g:457:GLN:HE22	1:g:459:ARG:HH11	1.54	0.56
1:j:322:GLU:HG2	1:j:335:ASN:HB2	1.87	0.56
1:r:322:GLU:HG2	1:r:335:ASN:HB2	1.87	0.56
1:s:322:GLU:HG2	1:s:335:ASN:HB2	1.87	0.56
1:v:322:GLU:HG2	1:v:335:ASN:HB2	1.87	0.56
2:Vh:48:PHE:O	2:Vh:91:ARG:NH2	2.38	0.56
2:6h:48:PHE:O	2:6h:91:ARG:NH2	2.38	0.56
2:ph:77:LYS:CG	2:ph:89:ILE:CD1	2.79	0.56
2:7h:66:TRP:HB2	3:7l:120:PHE:HE2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:8h:24:VAL:HB	2:8h:42:ALA:HB3	1.86	0.56
3:Dl:87:ARG:NH1	3:Dl:89:GLY:O	2.36	0.56
3:Fl:26:GLN:NE2	3:Fl:109:CYS:SG	2.79	0.56
3:al:86:SER:HB2	3:al:93:SER:OG	2.06	0.56
3:bl:86:SER:HB2	3:bl:93:SER:OG	2.06	0.56
3:ll:26:GLN:NE2	3:ll:109:CYS:SG	2.79	0.56
3:ml:26:GLN:NE2	3:ml:109:CYS:SG	2.79	0.56
3:sl:26:GLN:NE2	3:sl:109:CYS:SG	2.79	0.56
1:B:457:GLN:HE22	1:B:459:ARG:HH11	1.54	0.55
1:F:580:SER:O	1:6:484:ARG:HD3	2.06	0.55
1:J:322:GLU:HG2	1:J:335:ASN:HB2	1.87	0.55
1:K:457:GLN:HE22	1:K:459:ARG:HH11	1.54	0.55
1:P:322:GLU:HG2	1:P:335:ASN:HB2	1.87	0.55
1:Q:235:MET:HE1	1:Q:240:ILE:HG13	1.86	0.55
1:T:457:GLN:HE22	1:T:459:ARG:HH11	1.54	0.55
1:X:322:GLU:HG2	1:X:335:ASN:HB2	1.87	0.55
1:4:457:GLN:HE22	1:4:459:ARG:HH11	1.54	0.55
1:q:322:GLU:HG2	1:q:335:ASN:HB2	1.87	0.55
1:u:457:GLN:HE22	1:u:459:ARG:HH11	1.54	0.55
1:v:235:MET:HE1	1:v:240:ILE:HG13	1.86	0.55
1:x:457:GLN:HE22	1:x:459:ARG:HH11	1.54	0.55
2:Ph:48:PHE:O	2:Ph:91:ARG:NH2	2.38	0.55
2:Zh:24:VAL:HB	2:Zh:42:ALA:HB3	1.86	0.55
2:uh:81:ASP:HA	2:uh:84:LYS:HD2	1.87	0.55
3:Ml:26:GLN:NE2	3:Ml:109:CYS:SG	2.79	0.55
3:Pl:26:GLN:NE2	3:Pl:109:CYS:SG	2.79	0.55
3:Sl:26:GLN:NE2	3:Sl:109:CYS:SG	2.79	0.55
3:Tl:26:GLN:NE2	3:Tl:109:CYS:SG	2.79	0.55
3:3l:26:GLN:NE2	3:3l:109:CYS:SG	2.79	0.55
3:dl:26:GLN:NE2	3:dl:109:CYS:SG	2.79	0.55
3:gl:26:GLN:NE2	3:gl:109:CYS:SG	2.79	0.55
3:il:48:ASN:OD1	3:il:49:ILE:N	2.36	0.55
1:C:311:LEU:HD23	1:C:311:LEU:C	2.32	0.55
1:E:322:GLU:HG2	1:E:335:ASN:HB2	1.87	0.55
1:R:457:GLN:HE22	1:R:459:ARG:HH11	1.54	0.55
1:U:311:LEU:HD23	1:U:311:LEU:C	2.32	0.55
1:5:311:LEU:C	1:5:311:LEU:HD23	2.32	0.55
1:a:311:LEU:HD23	1:a:311:LEU:C	2.32	0.55
1:d:322:GLU:HG2	1:d:335:ASN:HB2	1.87	0.55
1:i:322:GLU:HG2	1:i:335:ASN:HB2	1.87	0.55
1:k:457:GLN:HE22	1:k:459:ARG:HH11	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:311:LEU:HD23	1:m:311:LEU:C	2.32	0.55
1:r:235:MET:HE1	1:r:240:ILE:HG13	1.86	0.55
2:Ch:81:ASP:HA	2:Ch:84:LYS:HD2	1.86	0.55
2:Rh:81:ASP:HA	2:Rh:84:LYS:HD2	1.87	0.55
2:Yh:66:TRP:HB2	3:Yl:120:PHE:HE2	1.69	0.55
2:5h:48:PHE:O	2:5h:91:ARG:NH2	2.38	0.55
2:dh:48:PHE:O	2:dh:91:ARG:NH2	2.38	0.55
2:kh:81:ASP:HA	2:kh:84:LYS:HD2	1.87	0.55
3:Yl:26:GLN:NE2	3:Yl:109:CYS:SG	2.79	0.55
3:4l:26:GLN:NE2	3:4l:109:CYS:SG	2.79	0.55
3:5l:26:GLN:NE2	3:5l:109:CYS:SG	2.79	0.55
3:bl:26:GLN:NE2	3:bl:109:CYS:SG	2.79	0.55
1:F:311:LEU:HD23	1:F:311:LEU:C	2.32	0.55
1:G:457:GLN:HE22	1:G:459:ARG:HH11	1.54	0.55
1:3:311:LEU:HD23	1:3:311:LEU:C	2.32	0.55
1:6:322:GLU:HG2	1:6:335:ASN:HB2	1.87	0.55
1:h:457:GLN:HE22	1:h:459:ARG:HH11	1.54	0.55
2:Bh:81:ASP:HA	2:Bh:84:LYS:HD2	1.87	0.55
2:Kh:24:VAL:HB	2:Kh:42:ALA:HB3	1.86	0.55
2:Ph:77:LYS:HZ1	2:Ph:77:LYS:HB2	1.72	0.55
2:ah:81:ASP:HA	2:ah:84:LYS:HD2	1.86	0.55
2:nh:112:VAL:CG1	2:nh:143:GLY:O	2.52	0.55
2:vh:24:VAL:HB	2:vh:42:ALA:HB3	1.86	0.55
3:Fl:86:SER:HB2	3:Fl:93:SER:OG	2.06	0.55
3:Nl:86:SER:HB2	3:Nl:93:SER:OG	2.06	0.55
3:Ol:86:SER:HB2	3:Ol:93:SER:OG	2.06	0.55
3:Ul:86:SER:HB2	3:Ul:93:SER:OG	2.06	0.55
3:Xl:48:ASN:OD1	3:Xl:49:ILE:N	2.36	0.55
3:cl:86:SER:HB2	3:cl:93:SER:OG	2.06	0.55
3:fl:86:SER:HB2	3:fl:93:SER:OG	2.06	0.55
3:hl:26:GLN:NE2	3:hl:109:CYS:SG	2.79	0.55
3:sl:86:SER:HB2	3:sl:93:SER:OG	2.06	0.55
3:7l:26:GLN:NE2	3:7l:109:CYS:SG	2.79	0.55
3:8l:26:GLN:NE2	3:8l:109:CYS:SG	2.79	0.55
1:E:311:LEU:C	1:E:311:LEU:HD23	2.32	0.55
1:G:311:LEU:HD23	1:G:311:LEU:C	2.32	0.55
1:I:311:LEU:HD23	1:I:311:LEU:C	2.32	0.55
1:M:311:LEU:C	1:M:311:LEU:HD23	2.32	0.55
1:1:311:LEU:HD23	1:1:311:LEU:C	2.32	0.55
1:3:322:GLU:HG2	1:3:335:ASN:HB2	1.87	0.55
1:5:322:GLU:HG2	1:5:335:ASN:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:311:LEU:HD23	1:n:311:LEU:C	2.32	0.55
1:o:311:LEU:HD23	1:o:311:LEU:C	2.32	0.55
1:w:311:LEU:HD23	1:w:311:LEU:C	2.32	0.55
2:Dh:48:PHE:O	2:Dh:91:ARG:NH2	2.38	0.55
2:Jh:24:VAL:HB	2:Jh:42:ALA:HB3	1.86	0.55
2:Qh:48:PHE:O	2:Qh:91:ARG:NH2	2.38	0.55
2:3h:48:PHE:O	2:3h:91:ARG:NH2	2.38	0.55
2:dh:77:LYS:HZ1	2:dh:77:LYS:HB2	1.72	0.55
2:kh:112:VAL:CG1	2:kh:143:GLY:O	2.52	0.55
2:mh:48:PHE:O	2:mh:91:ARG:NH2	2.38	0.55
2:rh:48:PHE:O	2:rh:91:ARG:NH2	2.38	0.55
3:Wl:26:GLN:NE2	3:Wl:109:CYS:SG	2.79	0.55
3:ml:86:SER:HB2	3:ml:93:SER:OG	2.06	0.55
3:zl:26:GLN:NE2	3:zl:109:CYS:SG	2.79	0.55
1:b:311:LEU:HD23	1:b:311:LEU:C	2.32	0.55
1:f:322:GLU:HG2	1:f:335:ASN:HB2	1.87	0.55
1:n:457:GLN:HE22	1:n:459:ARG:HH11	1.54	0.55
1:q:311:LEU:HD23	1:q:311:LEU:C	2.32	0.55
1:s:311:LEU:C	1:s:311:LEU:HD23	2.32	0.55
1:t:457:GLN:HE22	1:t:459:ARG:HH11	1.54	0.55
2:Gh:112:VAL:CG1	2:Gh:143:GLY:O	2.52	0.55
2:Rh:112:VAL:CG1	2:Rh:143:GLY:O	2.52	0.55
2:Uh:48:PHE:O	2:Uh:91:ARG:NH2	2.38	0.55
2:xh:24:VAL:HB	2:xh:42:ALA:HB3	1.86	0.55
3:Al:26:GLN:NE2	3:Al:109:CYS:SG	2.79	0.55
3:Hl:87:ARG:NH1	3:Hl:89:GLY:O	2.36	0.55
3:Jl:26:GLN:NE2	3:Jl:109:CYS:SG	2.79	0.55
3:Ll:26:GLN:NE2	3:Ll:109:CYS:SG	2.79	0.55
3:Zl:26:GLN:NE2	3:Zl:109:CYS:SG	2.79	0.55
3:nl:26:GLN:NE2	3:nl:109:CYS:SG	2.79	0.55
3:ol:86:SER:HB2	3:ol:93:SER:OG	2.06	0.55
3:tl:26:GLN:NE2	3:tl:109:CYS:SG	2.79	0.55
3:vl:26:GLN:NE2	3:vl:109:CYS:SG	2.79	0.55
3:yl:26:GLN:NE2	3:yl:109:CYS:SG	2.79	0.55
3:8l:86:SER:HB2	3:8l:93:SER:OG	2.06	0.55
1:B:311:LEU:HD23	1:B:311:LEU:C	2.32	0.55
1:N:457:GLN:HE22	1:N:459:ARG:HH11	1.54	0.55
1:S:311:LEU:C	1:S:311:LEU:HD23	2.32	0.55
1:Y:457:GLN:HE22	1:Y:459:ARG:HH11	1.54	0.55
1:6:457:GLN:HE22	1:6:459:ARG:HH11	1.54	0.55
1:b:322:GLU:HG2	1:b:335:ASN:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:311:LEU:HD23	1:l:311:LEU:C	2.32	0.55
1:u:311:LEU:HD23	1:u:311:LEU:C	2.32	0.55
1:7:457:GLN:HE22	1:7:459:ARG:HH11	1.54	0.55
2:Ah:66:TRP:HB2	3:Al:120:PHE:HE2	1.71	0.55
2:Ah:112:VAL:CG1	2:Ah:143:GLY:O	2.52	0.55
2:Jh:77:LYS:HZ1	2:Jh:77:LYS:HB2	1.72	0.55
2:Xh:81:ASP:HA	2:Xh:84:LYS:HD2	1.86	0.55
2:eh:48:PHE:O	2:eh:91:ARG:NH2	2.38	0.55
2:fh:86:ARG:CD	2:fh:106:ARG:NH2	2.67	0.55
2:ih:81:ASP:HA	2:ih:84:LYS:HD2	1.86	0.55
3:Gl:26:GLN:NE2	3:Gl:109:CYS:SG	2.79	0.55
3:HI:26:GLN:NE2	3:HI:109:CYS:SG	2.79	0.55
3:Il:86:SER:HB2	3:Il:93:SER:OG	2.06	0.55
3:Rl:86:SER:HB2	3:Rl:93:SER:OG	2.06	0.55
3:Zl:86:SER:HB2	3:Zl:93:SER:OG	2.06	0.55
3:Zl:87:ARG:NH1	3:Zl:89:GLY:O	2.36	0.55
3:3l:86:SER:HB2	3:3l:93:SER:OG	2.06	0.55
3:4l:86:SER:HB2	3:4l:93:SER:OG	2.06	0.55
3:4l:87:ARG:NH1	3:4l:89:GLY:O	2.36	0.55
3:hl:87:ARG:NH1	3:hl:89:GLY:O	2.36	0.55
3:ol:48:ASN:OD1	3:ol:49:ILE:N	2.36	0.55
3:pl:26:GLN:NE2	3:pl:109:CYS:SG	2.79	0.55
3:vl:87:ARG:NH1	3:vl:89:GLY:O	2.36	0.55
1:B:322:GLU:HG2	1:B:335:ASN:HB2	1.87	0.55
1:I:457:GLN:HE22	1:I:459:ARG:HH11	1.54	0.55
1:L:457:GLN:HE22	1:L:459:ARG:HH11	1.54	0.55
1:O:322:GLU:HG2	1:O:335:ASN:HB2	1.87	0.55
1:T:311:LEU:HD23	1:T:311:LEU:C	2.32	0.55
1:X:311:LEU:C	1:X:311:LEU:HD23	2.32	0.55
1:c:457:GLN:HE22	1:c:459:ARG:HH11	1.54	0.55
1:d:311:LEU:HD23	1:d:311:LEU:C	2.32	0.55
1:u:322:GLU:HG2	1:u:335:ASN:HB2	1.87	0.55
1:8:457:GLN:HE22	1:8:459:ARG:HH11	1.54	0.55
2:Oh:86:ARG:CD	2:Oh:106:ARG:NH2	2.67	0.55
2:Qh:81:ASP:HA	2:Qh:84:LYS:HD2	1.86	0.55
2:6h:77:LYS:HZ1	2:6h:77:LYS:HB2	1.72	0.55
2:ph:112:VAL:CG1	2:ph:143:GLY:O	2.52	0.55
2:rh:81:ASP:HA	2:rh:84:LYS:HD2	1.86	0.55
2:sh:112:VAL:CG1	2:sh:143:GLY:O	2.52	0.55
3:Cl:87:ARG:NH1	3:Cl:89:GLY:O	2.36	0.55
3:Il:26:GLN:NE2	3:Il:109:CYS:SG	2.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Il:48:ASN:OD1	3:Il:49:ILE:N	2.36	0.55
3:Il:87:ARG:NH1	3:Il:89:GLY:O	2.36	0.55
3:Ql:86:SER:HB2	3:Ql:93:SER:OG	2.06	0.55
3:hl:86:SER:HB2	3:hl:93:SER:OG	2.06	0.55
3:kl:86:SER:HB2	3:kl:93:SER:OG	2.06	0.55
3:ol:87:ARG:NH1	3:ol:89:GLY:O	2.36	0.55
3:wl:26:GLN:NE2	3:wl:109:CYS:SG	2.79	0.55
3:xl:48:ASN:OD1	3:xl:49:ILE:N	2.36	0.55
3:8l:87:ARG:NH1	3:8l:89:GLY:O	2.36	0.55
1:D:457:GLN:HE22	1:D:459:ARG:HH11	1.54	0.55
1:M:322:GLU:HG2	1:M:335:ASN:HB2	1.87	0.55
1:P:311:LEU:C	1:P:311:LEU:HD23	2.32	0.55
1:Q:311:LEU:HD23	1:Q:311:LEU:C	2.32	0.55
1:W:311:LEU:HD23	1:W:311:LEU:C	2.32	0.55
1:2:457:GLN:HE22	1:2:459:ARG:HH11	1.54	0.55
1:e:457:GLN:HE22	1:e:459:ARG:HH11	1.54	0.55
1:i:311:LEU:HD23	1:i:311:LEU:C	2.32	0.55
1:z:311:LEU:HD23	1:z:311:LEU:C	2.32	0.55
2:Yh:112:VAL:CG1	2:Yh:143:GLY:O	2.52	0.55
3:1l:26:GLN:NE2	3:1l:109:CYS:SG	2.79	0.55
3:el:26:GLN:NE2	3:el:109:CYS:SG	2.79	0.55
3:ol:26:GLN:NE2	3:ol:109:CYS:SG	2.79	0.55
3:rl:86:SER:HB2	3:rl:93:SER:OG	2.06	0.55
3:yl:87:ARG:NH1	3:yl:89:GLY:O	2.36	0.55
1:H:311:LEU:C	1:H:311:LEU:HD23	2.32	0.55
1:L:311:LEU:HD23	1:L:311:LEU:C	2.32	0.55
1:T:710:VAL:O	1:T:713:THR:OG1	2.25	0.55
1:W:457:GLN:HE22	1:W:459:ARG:HH11	1.54	0.55
1:r:311:LEU:HD23	1:r:311:LEU:C	2.32	0.55
1:t:311:LEU:HD23	1:t:311:LEU:C	2.32	0.55
1:y:311:LEU:HD23	1:y:311:LEU:C	2.32	0.55
1:7:311:LEU:HD23	1:7:311:LEU:C	2.32	0.55
2:Fh:112:VAL:CG1	2:Fh:143:GLY:O	2.52	0.55
3:Cl:26:GLN:NE2	3:Cl:109:CYS:SG	2.79	0.55
3:Jl:87:ARG:NH1	3:Jl:89:GLY:O	2.36	0.55
3:Ul:87:ARG:NH1	3:Ul:89:GLY:O	2.36	0.55
3:5l:86:SER:HB2	3:5l:93:SER:OG	2.06	0.55
3:al:26:GLN:NE2	3:al:109:CYS:SG	2.79	0.55
3:al:87:ARG:NH1	3:al:89:GLY:O	2.36	0.55
1:R:311:LEU:HD23	1:R:311:LEU:C	2.32	0.55
1:Y:311:LEU:HD23	1:Y:311:LEU:C	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:311:LEU:HD23	1:g:311:LEU:C	2.32	0.55
1:k:311:LEU:C	1:k:311:LEU:HD23	2.32	0.55
1:p:311:LEU:C	1:p:311:LEU:HD23	2.32	0.55
1:x:311:LEU:HD23	1:x:311:LEU:C	2.32	0.55
2:Hh:112:VAL:CG1	2:Hh:143:GLY:O	2.52	0.55
2:yh:112:VAL:CG1	2:yh:143:GLY:O	2.52	0.55
3:Dl:26:GLN:NE2	3:Dl:109:CYS:SG	2.79	0.55
3:Kl:48:ASN:OD1	3:Kl:49:ILE:N	2.36	0.55
3:Kl:86:SER:HB2	3:Kl:93:SER:OG	2.06	0.55
3:Rl:26:GLN:NE2	3:Rl:109:CYS:SG	2.79	0.55
3:Vl:86:SER:HB2	3:Vl:93:SER:OG	2.06	0.55
3:kl:26:GLN:NE2	3:kl:109:CYS:SG	2.79	0.55
3:xl:86:SER:HB2	3:xl:93:SER:OG	2.06	0.55
1:A:311:LEU:HD23	1:A:311:LEU:C	2.32	0.54
1:K:311:LEU:HD23	1:K:311:LEU:C	2.32	0.54
1:N:311:LEU:HD23	1:N:311:LEU:C	2.32	0.54
1:Z:457:GLN:HE22	1:Z:459:ARG:HH11	1.54	0.54
1:d:457:GLN:HE22	1:d:459:ARG:HH11	1.54	0.54
1:o:457:GLN:HE22	1:o:459:ARG:HH11	1.54	0.54
1:q:457:GLN:HE22	1:q:459:ARG:HH11	1.54	0.54
1:z:457:GLN:HE22	1:z:459:ARG:HH11	1.54	0.54
3:Gl:48:ASN:OD1	3:Gl:49:ILE:N	2.36	0.54
3:nl:48:ASN:OD1	3:nl:49:ILE:N	2.36	0.54
1:E:457:GLN:HE22	1:E:459:ARG:HH11	1.54	0.54
1:U:710:VAL:O	1:U:713:THR:OG1	2.25	0.54
1:V:311:LEU:HD23	1:V:311:LEU:C	2.32	0.54
1:Z:311:LEU:HD23	1:Z:311:LEU:C	2.32	0.54
1:2:311:LEU:HD23	1:2:311:LEU:C	2.32	0.54
1:4:311:LEU:HD23	1:4:311:LEU:C	2.32	0.54
1:6:311:LEU:HD23	1:6:311:LEU:C	2.32	0.54
1:j:311:LEU:HD23	1:j:311:LEU:C	2.32	0.54
3:Bl:87:ARG:NH1	3:Bl:89:GLY:O	2.36	0.54
3:Gl:86:SER:HB2	3:Gl:93:SER:OG	2.06	0.54
3:Hl:86:SER:HB2	3:Hl:93:SER:OG	2.06	0.54
3:jl:86:SER:HB2	3:jl:93:SER:OG	2.06	0.54
3:ml:87:ARG:NH1	3:ml:89:GLY:O	2.36	0.54
3:nl:86:SER:HB2	3:nl:93:SER:OG	2.06	0.54
3:ul:86:SER:HB2	3:ul:93:SER:OG	2.06	0.54
3:zl:48:ASN:OD1	3:zl:49:ILE:N	2.36	0.54
1:P:457:GLN:HE22	1:P:459:ARG:HH11	1.54	0.54
1:1:457:GLN:HE22	1:1:459:ARG:HH11	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:311:LEU:C	1:h:311:LEU:HD23	2.32	0.54
1:m:457:GLN:HE22	1:m:459:ARG:HH11	1.54	0.54
1:w:457:GLN:HE22	1:w:459:ARG:HH11	1.54	0.54
1:8:311:LEU:C	1:8:311:LEU:HD23	2.32	0.54
2:vh:77:LYS:HZ1	2:vh:77:LYS:HB2	1.73	0.54
2:yh:77:LYS:HB2	2:yh:77:LYS:NZ	2.23	0.54
3:Al:86:SER:HB2	3:Al:93:SER:OG	2.06	0.54
3:pl:86:SER:HB2	3:pl:93:SER:OG	2.06	0.54
3:ul:87:ARG:NH1	3:ul:89:GLY:O	2.36	0.54
1:c:311:LEU:C	1:c:311:LEU:HD23	2.32	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:Hh:77:LYS:HB2	2:Hh:77:LYS:NZ	2.23	0.54
3:Ql:87:ARG:NH1	3:Ql:89:GLY:O	2.36	0.54
3:yl:86:SER:HB2	3:yl:93:SER:OG	2.06	0.54
1:A:457:GLN:HE22	1:A:459:ARG:HH11	1.54	0.54
1:J:311:LEU:HD23	1:J:311:LEU:C	2.32	0.54
1:O:311:LEU:HD23	1:O:311:LEU:C	2.32	0.54
1:X:457:GLN:HE22	1:X:459:ARG:HH11	1.54	0.54
1:b:457:GLN:HE22	1:b:459:ARG:HH11	1.54	0.54
1:f:311:LEU:HD23	1:f:311:LEU:C	2.32	0.54
1:i:457:GLN:HE22	1:i:459:ARG:HH11	1.54	0.54
1:p:457:GLN:HE22	1:p:459:ARG:HH11	1.54	0.54
2:Ih:77:LYS:HB2	2:Ih:77:LYS:NZ	2.23	0.54
2:oh:77:LYS:HB2	2:oh:77:LYS:NZ	2.23	0.54
2:uh:77:LYS:HB2	2:uh:77:LYS:NZ	2.23	0.54
3:Bl:86:SER:HB2	3:Bl:93:SER:OG	2.06	0.54
3:Wl:48:ASN:OD1	3:Wl:49:ILE:N	2.36	0.54
1:M:457:GLN:HE22	1:M:459:ARG:HH11	1.54	0.54
1:Q:457:GLN:HE22	1:Q:459:ARG:HH11	1.54	0.54
1:Q:710:VAL:O	1:Q:713:THR:OG1	2.25	0.54
1:U:457:GLN:HE22	1:U:459:ARG:HH11	1.54	0.54
1:5:457:GLN:HE22	1:5:459:ARG:HH11	1.54	0.54
2:Bh:77:LYS:NZ	2:Bh:77:LYS:HB2	2.23	0.54
2:Dh:112:VAL:CG1	2:Dh:143:GLY:O	2.52	0.54
2:Ph:77:LYS:HB2	2:Ph:77:LYS:NZ	2.23	0.54
2:2h:77:LYS:HB2	2:2h:77:LYS:HZ1	1.73	0.54
2:ah:77:LYS:HZ1	2:ah:77:LYS:HB2	1.72	0.54
2:ph:77:LYS:NZ	2:ph:77:LYS:HB2	2.23	0.54
2:vh:77:LYS:HB2	2:vh:77:LYS:NZ	2.23	0.54
3:rl:87:ARG:NH1	3:rl:89:GLY:O	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8l:48:ASN:OD1	3:8l:49:ILE:N	2.36	0.54
1:A:710:VAL:O	1:A:713:THR:OG1	2.25	0.54
1:3:457:GLN:HE22	1:3:459:ARG:HH11	1.54	0.54
1:e:311:LEU:HD23	1:e:311:LEU:C	2.32	0.54
1:r:710:VAL:O	1:r:713:THR:OG1	2.25	0.54
1:v:311:LEU:C	1:v:311:LEU:HD23	2.32	0.54
2:Ah:77:LYS:HB2	2:Ah:77:LYS:NZ	2.23	0.54
2:Jh:77:LYS:HB2	2:Jh:77:LYS:NZ	2.23	0.54
2:Nh:77:LYS:HB2	2:Nh:77:LYS:NZ	2.23	0.54
2:Zh:77:LYS:HB2	2:Zh:77:LYS:NZ	2.23	0.54
2:dh:77:LYS:HB2	2:dh:77:LYS:NZ	2.23	0.54
2:eh:112:VAL:CG1	2:eh:143:GLY:O	2.52	0.54
2:hh:77:LYS:HB2	2:hh:77:LYS:NZ	2.23	0.54
2:xh:77:LYS:NZ	2:xh:77:LYS:HB2	2.23	0.54
2:8h:77:LYS:HB2	2:8h:77:LYS:NZ	2.23	0.54
3:Zl:48:ASN:OD1	3:Zl:49:ILE:N	2.36	0.54
1:D:311:LEU:HD23	1:D:311:LEU:C	2.32	0.54
1:F:457:GLN:HE22	1:F:459:ARG:HH11	1.54	0.54
2:Ch:77:LYS:HZ1	2:Ch:77:LYS:HB2	1.72	0.54
2:Jh:112:VAL:CG1	2:Jh:143:GLY:O	2.52	0.54
2:4h:77:LYS:HB2	2:4h:77:LYS:NZ	2.23	0.54
1:r:457:GLN:HE22	1:r:459:ARG:HH11	1.54	0.54
2:Kh:77:LYS:HB2	2:Kh:77:LYS:NZ	2.23	0.54
2:Lh:77:LYS:HB2	2:Lh:77:LYS:NZ	2.23	0.54
2:Xh:77:LYS:HB2	2:Xh:77:LYS:NZ	2.23	0.54
2:Zh:77:LYS:HG2	2:Zh:89:ILE:HD11	1.90	0.54
2:1h:112:VAL:CG1	2:1h:143:GLY:O	2.52	0.54
2:ch:77:LYS:HB2	2:ch:77:LYS:NZ	2.23	0.54
2:ih:77:LYS:HB2	2:ih:77:LYS:NZ	2.23	0.54
2:th:77:LYS:HB2	2:th:77:LYS:NZ	2.23	0.54
2:8h:77:LYS:HG2	2:8h:89:ILE:HD11	1.90	0.54
1:O:457:GLN:HE22	1:O:459:ARG:HH11	1.54	0.54
1:f:457:GLN:HE22	1:f:459:ARG:HH11	1.54	0.54
1:s:457:GLN:HE22	1:s:459:ARG:HH11	1.54	0.54
2:Kh:77:LYS:HG2	2:Kh:89:ILE:HD11	1.90	0.54
2:Mh:77:LYS:HG2	2:Mh:89:ILE:HD11	1.90	0.54
2:Xh:112:VAL:CG1	2:Xh:143:GLY:O	2.52	0.54
2:mh:77:LYS:HG2	2:mh:89:ILE:HD11	1.90	0.54
2:xh:77:LYS:HG2	2:xh:89:ILE:HD11	1.90	0.54
3:Pl:48:ASN:OD1	3:Pl:49:ILE:N	2.36	0.54
3:dl:48:ASN:OD1	3:dl:49:ILE:N	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:710:VAL:O	1:B:713:THR:OG1	2.25	0.53
1:u:710:VAL:O	1:u:713:THR:OG1	2.25	0.53
2:Dh:77:LYS:HB2	2:Dh:77:LYS:NZ	2.23	0.53
2:ph:77:LYS:HG2	2:ph:89:ILE:HD11	1.90	0.53
2:Zh:112:VAL:CG1	2:Zh:143:GLY:O	2.52	0.53
2:bh:77:LYS:HG2	2:bh:89:ILE:HD11	1.90	0.53
2:eh:77:LYS:NZ	2:eh:77:LYS:HB2	2.23	0.53
2:vh:112:VAL:CG1	2:vh:143:GLY:O	2.52	0.53
2:wh:112:VAL:CG1	2:wh:143:GLY:O	2.52	0.53
2:Ah:77:LYS:HG2	2:Ah:89:ILE:HD11	1.90	0.53
2:1h:77:LYS:HB2	2:1h:77:LYS:NZ	2.23	0.53
2:wh:77:LYS:HB2	2:wh:77:LYS:NZ	2.23	0.53
2:8h:112:VAL:CG1	2:8h:143:GLY:O	2.52	0.53
1:r:728:THR:HG22	1:r:728:THR:O	2.09	0.53
2:Dh:77:LYS:HG2	2:Dh:89:ILE:HD11	1.90	0.53
2:Eh:77:LYS:HB2	2:Eh:77:LYS:NZ	2.23	0.53
2:Sh:112:VAL:CG1	2:Sh:143:GLY:O	2.52	0.53
2:eh:77:LYS:HG2	2:eh:89:ILE:HD11	1.90	0.53
2:qh:77:LYS:HB2	2:qh:77:LYS:NZ	2.23	0.53
2:zh:77:LYS:HB2	2:zh:77:LYS:NZ	2.23	0.53
3:al:48:ASN:OD1	3:al:49:ILE:N	2.36	0.53
1:C:728:THR:HG22	1:C:728:THR:O	2.09	0.53
1:Q:728:THR:HG22	1:Q:728:THR:O	2.09	0.53
1:a:728:THR:HG22	1:a:728:THR:O	2.09	0.53
1:8:728:THR:HG22	1:8:728:THR:O	2.09	0.53
2:Mh:77:LYS:NZ	2:Mh:77:LYS:HB2	2.23	0.53
2:bh:77:LYS:HB2	2:bh:77:LYS:NZ	2.23	0.53
2:mh:77:LYS:NZ	2:mh:77:LYS:HB2	2.23	0.53
1:B:728:THR:HG22	1:B:728:THR:O	2.09	0.53
1:u:728:THR:HG22	1:u:728:THR:O	2.09	0.53
2:Fh:77:LYS:HZ1	2:Fh:77:LYS:HB2	1.74	0.53
2:Rh:86:ARG:HH11	2:Rh:106:ARG:NH2	2.07	0.53
2:Uh:77:LYS:NZ	2:Uh:77:LYS:HB2	2.23	0.53
2:Yh:77:LYS:HG2	2:Yh:89:ILE:HD11	1.90	0.53
2:3h:86:ARG:HH11	2:3h:106:ARG:NH2	2.07	0.53
2:4h:77:LYS:HG2	2:4h:89:ILE:HD11	1.90	0.53
2:5h:86:ARG:HH11	2:5h:106:ARG:NH2	2.07	0.53
2:hh:77:LYS:HG2	2:hh:89:ILE:HD11	1.90	0.53
2:kh:86:ARG:HH11	2:kh:106:ARG:NH2	2.07	0.53
2:wh:86:ARG:HH11	2:wh:106:ARG:NH2	2.07	0.53
2:7h:77:LYS:HG2	2:7h:89:ILE:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:728:THR:HG22	1:S:728:THR:O	2.09	0.53
1:Z:728:THR:HG22	1:Z:728:THR:O	2.09	0.53
1:l:728:THR:HG22	1:l:728:THR:O	2.09	0.53
2:Qh:86:ARG:HH11	2:Qh:106:ARG:NH2	2.07	0.53
2:1h:86:ARG:HH11	2:1h:106:ARG:NH2	2.07	0.53
2:2h:86:ARG:HH11	2:2h:106:ARG:NH2	2.07	0.53
2:4h:86:ARG:HH11	2:4h:106:ARG:NH2	2.07	0.53
2:hh:86:ARG:HH11	2:hh:106:ARG:NH2	2.07	0.53
2:7h:77:LYS:HB2	2:7h:77:LYS:NZ	2.23	0.53
3:zl:87:ARG:NH1	3:zl:89:GLY:O	2.36	0.53
1:W:728:THR:HG22	1:W:728:THR:O	2.09	0.53
1:t:728:THR:HG22	1:t:728:THR:O	2.09	0.53
1:z:728:THR:HG22	1:z:728:THR:O	2.09	0.53
2:Sh:77:LYS:HB2	2:Sh:77:LYS:NZ	2.23	0.53
2:Th:77:LYS:HB2	2:Th:77:LYS:NZ	2.23	0.53
2:Uh:86:ARG:HH11	2:Uh:106:ARG:NH2	2.07	0.53
2:Wh:77:LYS:HB2	2:Wh:77:LYS:NZ	2.23	0.53
2:6h:86:ARG:HH11	2:6h:106:ARG:NH2	2.07	0.53
2:lh:77:LYS:HB2	2:lh:77:LYS:NZ	2.23	0.53
2:lh:112:VAL:CG1	2:lh:143:GLY:O	2.52	0.53
2:rh:86:ARG:HH11	2:rh:106:ARG:NH2	2.07	0.53
3:Cl:48:ASN:OD1	3:Cl:49:ILE:N	2.36	0.53
3:bl:48:ASN:OD1	3:bl:49:ILE:N	2.36	0.53
1:A:711:ASP:OD2	1:A:724:ARG:NH2	2.42	0.53
1:L:728:THR:HG22	1:L:728:THR:O	2.09	0.53
1:O:711:ASP:OD2	1:O:724:ARG:NH2	2.42	0.53
1:Y:711:ASP:OD2	1:Y:724:ARG:NH2	2.42	0.53
1:f:711:ASP:OD2	1:f:724:ARG:NH2	2.42	0.53
1:p:711:ASP:OD2	1:p:724:ARG:NH2	2.42	0.53
1:w:711:ASP:OD2	1:w:724:ARG:NH2	2.42	0.53
1:7:711:ASP:OD2	1:7:724:ARG:NH2	2.42	0.53
2:Fh:77:LYS:HB2	2:Fh:77:LYS:NZ	2.23	0.53
2:Kh:86:ARG:HH11	2:Kh:106:ARG:NH2	2.07	0.53
2:Oh:77:LYS:HB2	2:Oh:77:LYS:NZ	2.23	0.53
2:gh:77:LYS:HB2	2:gh:77:LYS:NZ	2.23	0.53
2:mh:86:ARG:HH11	2:mh:106:ARG:NH2	2.07	0.53
2:sh:77:LYS:HB2	2:sh:77:LYS:NZ	2.23	0.53
2:sh:77:LYS:HG2	2:sh:89:ILE:HD11	1.90	0.53
2:xh:86:ARG:HH11	2:xh:106:ARG:NH2	2.07	0.53
2:7h:86:ARG:HH11	2:7h:106:ARG:NH2	2.07	0.53
1:D:710:VAL:O	1:D:713:THR:OG1	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:711:ASP:OD2	1:J:724:ARG:NH2	2.42	0.53
1:X:728:THR:HG22	1:X:728:THR:O	2.09	0.53
1:1:711:ASP:OD2	1:1:724:ARG:NH2	2.42	0.53
1:e:710:VAL:O	1:e:713:THR:OG1	2.25	0.53
1:e:711:ASP:OD2	1:e:724:ARG:NH2	2.42	0.53
1:i:728:THR:HG22	1:i:728:THR:O	2.09	0.53
1:v:711:ASP:OD2	1:v:724:ARG:NH2	2.42	0.53
2:Yh:77:LYS:HB2	2:Yh:77:LYS:NZ	2.23	0.53
2:Yh:86:ARG:HH11	2:Yh:106:ARG:NH2	2.07	0.53
2:hh:66:TRP:HB2	3:hl:120:PHE:HE2	1.73	0.53
3:el:48:ASN:OD1	3:el:49:ILE:N	2.36	0.53
3:gl:48:ASN:OD1	3:gl:49:ILE:N	2.36	0.53
1:D:711:ASP:OD2	1:D:724:ARG:NH2	2.42	0.52
1:L:469:ASP:OD1	1:L:469:ASP:N	2.42	0.52
1:Q:711:ASP:OD2	1:Q:724:ARG:NH2	2.42	0.52
1:5:711:ASP:OD2	1:5:724:ARG:NH2	2.42	0.52
1:n:728:THR:HG22	1:n:728:THR:O	2.09	0.52
1:r:711:ASP:OD2	1:r:724:ARG:NH2	2.42	0.52
1:t:469:ASP:OD1	1:t:469:ASP:N	2.42	0.52
1:v:469:ASP:OD1	1:v:469:ASP:N	2.42	0.52
2:Fh:77:LYS:HG2	2:Fh:89:ILE:HD11	1.90	0.52
2:Xh:77:LYS:HB2	2:Xh:77:LYS:HZ1	1.74	0.52
2:bh:86:ARG:HH11	2:bh:106:ARG:NH2	2.07	0.52
2:dh:112:VAL:CG1	2:dh:143:GLY:O	2.52	0.52
2:fh:77:LYS:HB2	2:fh:77:LYS:NZ	2.23	0.52
2:ih:77:LYS:HB2	2:ih:77:LYS:HZ1	1.74	0.52
3:Ml:48:ASN:OD1	3:Ml:49:ILE:N	2.36	0.52
3:Tl:48:ASN:OD1	3:Tl:49:ILE:N	2.36	0.52
3:Wl:87:ARG:NH1	3:Wl:89:GLY:O	2.36	0.52
3:cl:48:ASN:OD1	3:cl:49:ILE:N	2.36	0.52
3:jl:48:ASN:OD1	3:jl:49:ILE:N	2.36	0.52
1:G:711:ASP:OD2	1:G:724:ARG:NH2	2.42	0.52
1:G:728:THR:HG22	1:G:728:THR:O	2.09	0.52
1:I:728:THR:HG22	1:I:728:THR:O	2.09	0.52
1:J:469:ASP:OD1	1:J:469:ASP:N	2.42	0.52
1:K:711:ASP:OD2	1:K:724:ARG:NH2	2.42	0.52
1:3:711:ASP:OD2	1:3:724:ARG:NH2	2.42	0.52
1:j:710:VAL:O	1:j:713:THR:OG1	2.25	0.52
1:n:711:ASP:OD2	1:n:724:ARG:NH2	2.42	0.52
1:r:469:ASP:OD1	1:r:469:ASP:N	2.42	0.52
1:x:711:ASP:OD2	1:x:724:ARG:NH2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Jh:86:ARG:HH11	2:Jh:106:ARG:NH2	2.07	0.52
1:E:711:ASP:OD2	1:E:724:ARG:NH2	2.42	0.52
1:N:469:ASP:OD1	1:N:469:ASP:N	2.42	0.52
1:O:710:VAL:O	1:O:713:THR:OG1	2.25	0.52
1:Q:469:ASP:OD1	1:Q:469:ASP:N	2.42	0.52
1:q:711:ASP:OD2	1:q:724:ARG:NH2	2.42	0.52
2:Fh:86:ARG:HH11	2:Fh:106:ARG:NH2	2.07	0.52
2:Gh:77:LYS:HB2	2:Gh:77:LYS:NZ	2.23	0.52
2:Mh:86:ARG:HH11	2:Mh:106:ARG:NH2	2.07	0.52
2:xh:112:VAL:CG1	2:xh:143:GLY:O	2.52	0.52
3:Dl:48:ASN:OD1	3:Dl:49:ILE:N	2.36	0.52
3:Vl:48:ASN:OD1	3:Vl:49:ILE:N	2.36	0.52
1:C:711:ASP:OD2	1:C:724:ARG:NH2	2.42	0.52
1:a:711:ASP:OD2	1:a:724:ARG:NH2	2.42	0.52
1:c:469:ASP:OD1	1:c:469:ASP:N	2.42	0.52
1:k:469:ASP:OD1	1:k:469:ASP:N	2.42	0.52
1:o:728:THR:HG22	1:o:728:THR:O	2.09	0.52
2:Gh:86:ARG:HH11	2:Gh:106:ARG:NH2	2.07	0.52
2:Ph:112:VAL:CG1	2:Ph:143:GLY:O	2.52	0.52
2:Rh:77:LYS:HB2	2:Rh:77:LYS:NZ	2.23	0.52
2:Th:77:LYS:HG2	2:Th:89:ILE:HD11	1.90	0.52
2:fh:86:ARG:HH11	2:fh:106:ARG:NH2	2.07	0.52
2:nh:77:LYS:HB2	2:nh:77:LYS:NZ	2.23	0.52
2:vh:86:ARG:HH11	2:vh:106:ARG:NH2	2.07	0.52
3:1l:48:ASN:OD1	3:1l:49:ILE:N	2.36	0.52
3:tl:48:ASN:OD1	3:tl:49:ILE:N	2.36	0.52
1:R:469:ASP:OD1	1:R:469:ASP:N	2.42	0.52
1:V:710:VAL:O	1:V:713:THR:OG1	2.25	0.52
1:d:728:THR:HG22	1:d:728:THR:O	2.09	0.52
1:s:469:ASP:OD1	1:s:469:ASP:N	2.42	0.52
1:7:469:ASP:OD1	1:7:469:ASP:N	2.42	0.52
2:eh:86:ARG:HH11	2:eh:106:ARG:NH2	2.07	0.52
2:kh:77:LYS:HB2	2:kh:77:LYS:NZ	2.23	0.52
2:nh:86:ARG:HH11	2:nh:106:ARG:NH2	2.07	0.52
2:sh:86:ARG:HH11	2:sh:106:ARG:NH2	2.07	0.52
3:Nl:48:ASN:OD1	3:Nl:49:ILE:N	2.36	0.52
3:wl:48:ASN:OD1	3:wl:49:ILE:N	2.36	0.52
1:B:711:ASP:OD2	1:B:724:ARG:NH2	2.42	0.52
1:E:728:THR:HG22	1:E:728:THR:O	2.09	0.52
1:P:728:THR:HG22	1:P:728:THR:O	2.09	0.52
1:Y:469:ASP:OD1	1:Y:469:ASP:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:404:ARG:H	1:2:407:ASN:HD22	1.58	0.52
1:2:728:THR:HG22	1:2:728:THR:O	2.09	0.52
1:4:711:ASP:OD2	1:4:724:ARG:NH2	2.42	0.52
1:6:404:ARG:H	1:6:407:ASN:HD22	1.58	0.52
1:7:404:ARG:H	1:7:407:ASN:HD22	1.58	0.52
2:Ch:77:LYS:HB2	2:Ch:77:LYS:NZ	2.23	0.52
2:Dh:86:ARG:HH11	2:Dh:106:ARG:NH2	2.07	0.52
2:Kh:112:VAL:CG1	2:Kh:143:GLY:O	2.52	0.52
2:Vh:77:LYS:HB2	2:Vh:77:LYS:NZ	2.23	0.52
2:2h:77:LYS:HB2	2:2h:77:LYS:NZ	2.23	0.52
2:ch:77:LYS:HG2	2:ch:89:ILE:HD11	1.90	0.52
2:gh:77:LYS:HG2	2:gh:89:ILE:HD11	1.90	0.52
2:jh:77:LYS:HG2	2:jh:89:ILE:HD11	1.90	0.52
3:Ll:48:ASN:OD1	3:Ll:49:ILE:N	2.36	0.52
1:F:469:ASP:OD1	1:F:469:ASP:N	2.42	0.52
1:Y:404:ARG:H	1:Y:407:ASN:HD22	1.58	0.52
1:g:728:THR:HG22	1:g:728:THR:O	2.09	0.52
1:h:711:ASP:OD2	1:h:724:ARG:NH2	2.42	0.52
1:u:711:ASP:OD2	1:u:724:ARG:NH2	2.42	0.52
1:8:404:ARG:H	1:8:407:ASN:HD22	1.58	0.52
2:Eh:86:ARG:HH11	2:Eh:106:ARG:NH2	2.07	0.52
2:Oh:86:ARG:HH11	2:Oh:106:ARG:NH2	2.07	0.52
2:6h:77:LYS:HB2	2:6h:77:LYS:NZ	2.23	0.52
2:ah:77:LYS:HB2	2:ah:77:LYS:NZ	2.23	0.52
3:vl:57:TYR:O	3:vl:107:TYR:HD1	1.93	0.52
1:M:711:ASP:OD2	1:M:724:ARG:NH2	2.42	0.52
1:N:404:ARG:H	1:N:407:ASN:HD22	1.58	0.52
1:R:728:THR:HG22	1:R:728:THR:O	2.09	0.52
1:S:404:ARG:H	1:S:407:ASN:HD22	1.58	0.52
1:T:404:ARG:H	1:T:407:ASN:HD22	1.58	0.52
1:U:711:ASP:OD2	1:U:724:ARG:NH2	2.42	0.52
1:Z:404:ARG:H	1:Z:407:ASN:HD22	1.58	0.52
1:2:710:VAL:O	1:2:713:THR:OG1	2.25	0.52
1:6:711:ASP:OD2	1:6:724:ARG:NH2	2.42	0.52
1:6:728:THR:HG22	1:6:728:THR:O	2.09	0.52
1:b:711:ASP:OD2	1:b:724:ARG:NH2	2.42	0.52
1:c:404:ARG:H	1:c:407:ASN:HD22	1.58	0.52
1:g:404:ARG:H	1:g:407:ASN:HD22	1.58	0.52
1:l:404:ARG:H	1:l:407:ASN:HD22	1.58	0.52
1:q:728:THR:HG22	1:q:728:THR:O	2.09	0.52
1:s:728:THR:HG22	1:s:728:THR:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Lh:86:ARG:HH11	2:Lh:106:ARG:NH2	2.07	0.52
2:6h:112:VAL:CG1	2:6h:143:GLY:O	2.52	0.52
2:jh:77:LYS:HB2	2:jh:77:LYS:NZ	2.23	0.52
2:qh:86:ARG:HH11	2:qh:106:ARG:NH2	2.07	0.52
3:Al:57:TYR:O	3:Al:107:TYR:HD1	1.93	0.52
3:HI:57:TYR:O	3:HI:107:TYR:HD1	1.93	0.52
3:Jl:57:TYR:O	3:Jl:107:TYR:HD1	1.93	0.52
3:pl:57:TYR:O	3:pl:107:TYR:HD1	1.93	0.52
3:ul:48:ASN:OD1	3:ul:49:ILE:N	2.36	0.52
3:yl:57:TYR:O	3:yl:107:TYR:HD1	1.93	0.52
1:F:728:THR:HG22	1:F:728:THR:O	2.09	0.52
1:M:469:ASP:OD1	1:M:469:ASP:N	2.42	0.52
1:T:728:THR:HG22	1:T:728:THR:O	2.09	0.52
1:k:728:THR:HG22	1:k:728:THR:O	2.09	0.52
1:m:711:ASP:OD2	1:m:724:ARG:NH2	2.42	0.52
1:u:404:ARG:H	1:u:407:ASN:HD22	1.58	0.52
2:Ah:86:ARG:HH11	2:Ah:106:ARG:NH2	2.07	0.52
2:Vh:77:LYS:HG2	2:Vh:89:ILE:HD11	1.90	0.52
3:Dl:57:TYR:O	3:Dl:107:TYR:HD1	1.93	0.52
3:Rl:57:TYR:O	3:Rl:107:TYR:HD1	1.93	0.52
3:1l:57:TYR:O	3:1l:107:TYR:HD1	1.93	0.52
3:2l:57:TYR:O	3:2l:107:TYR:HD1	1.93	0.52
3:el:57:TYR:O	3:el:107:TYR:HD1	1.93	0.52
3:kl:57:TYR:O	3:kl:107:TYR:HD1	1.93	0.52
3:zl:57:TYR:O	3:zl:107:TYR:HD1	1.93	0.52
1:B:404:ARG:H	1:B:407:ASN:HD22	1.58	0.52
1:H:728:THR:HG22	1:H:728:THR:O	2.09	0.52
1:P:404:ARG:H	1:P:407:ASN:HD22	1.58	0.52
1:X:710:VAL:O	1:X:713:THR:OG1	2.25	0.52
1:b:469:ASP:OD1	1:b:469:ASP:N	2.42	0.52
1:d:404:ARG:H	1:d:407:ASN:HD22	1.58	0.52
1:f:710:VAL:O	1:f:713:THR:OG1	2.25	0.52
1:w:469:ASP:OD1	1:w:469:ASP:N	2.42	0.52
2:Qh:77:LYS:HB2	2:Qh:77:LYS:NZ	2.23	0.52
2:Wh:112:VAL:CG1	2:Wh:143:GLY:O	2.52	0.52
2:2h:112:VAL:CG1	2:2h:143:GLY:O	2.52	0.52
2:th:86:ARG:HH11	2:th:106:ARG:NH2	2.07	0.52
3:Wl:57:TYR:O	3:Wl:107:TYR:HD1	1.93	0.52
3:6l:57:TYR:O	3:6l:107:TYR:HD1	1.93	0.52
3:wl:57:TYR:O	3:wl:107:TYR:HD1	1.93	0.52
1:T:711:ASP:OD2	1:T:724:ARG:NH2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:710:VAL:O	1:6:713:THR:OG1	2.25	0.51
1:v:404:ARG:H	1:v:407:ASN:HD22	1.58	0.51
1:w:710:VAL:O	1:w:713:THR:OG1	2.25	0.51
1:y:711:ASP:OD2	1:y:724:ARG:NH2	2.42	0.51
2:Bh:86:ARG:HH11	2:Bh:106:ARG:NH2	2.07	0.51
2:Nh:77:LYS:HB2	2:Nh:77:LYS:HZ1	1.75	0.51
2:Nh:86:ARG:HH11	2:Nh:106:ARG:NH2	2.07	0.51
2:Ph:77:LYS:HG2	2:Ph:89:ILE:HD11	1.90	0.51
2:ch:77:LYS:HB2	2:ch:77:LYS:HZ1	1.75	0.51
2:ph:86:ARG:HH11	2:ph:106:ARG:NH2	2.07	0.51
2:rh:77:LYS:HB2	2:rh:77:LYS:NZ	2.23	0.51
2:rh:112:VAL:CG1	2:rh:143:GLY:O	2.52	0.51
3:Bl:48:ASN:OD1	3:Bl:49:ILE:N	2.36	0.51
3:Bl:57:TYR:O	3:Bl:107:TYR:HD1	1.93	0.51
3:Fl:49:ILE:HG22	3:Fl:87:ARG:NH1	2.26	0.51
3:Ql:57:TYR:O	3:Ql:107:TYR:HD1	1.93	0.51
3:Zl:57:TYR:O	3:Zl:107:TYR:HD1	1.93	0.51
3:4l:57:TYR:O	3:4l:107:TYR:HD1	1.93	0.51
3:ul:57:TYR:O	3:ul:107:TYR:HD1	1.93	0.51
3:7l:57:TYR:O	3:7l:107:TYR:HD1	1.93	0.51
1:C:404:ARG:H	1:C:407:ASN:HD22	1.58	0.51
1:I:404:ARG:H	1:I:407:ASN:HD22	1.58	0.51
1:J:404:ARG:H	1:J:407:ASN:HD22	1.58	0.51
1:M:710:VAL:O	1:M:713:THR:OG1	2.25	0.51
1:Y:728:THR:HG22	1:Y:728:THR:O	2.09	0.51
1:Z:711:ASP:OD2	1:Z:724:ARG:NH2	2.42	0.51
1:1:469:ASP:OD1	1:1:469:ASP:N	2.42	0.51
1:5:728:THR:HG22	1:5:728:THR:O	2.09	0.51
1:a:404:ARG:H	1:a:407:ASN:HD22	1.58	0.51
1:g:711:ASP:OD2	1:g:724:ARG:NH2	2.42	0.51
1:o:404:ARG:H	1:o:407:ASN:HD22	1.58	0.51
1:y:728:THR:HG22	1:y:728:THR:O	2.09	0.51
1:8:711:ASP:OD2	1:8:724:ARG:NH2	2.42	0.51
2:Ih:86:ARG:HH11	2:Ih:106:ARG:NH2	2.07	0.51
2:Oh:112:VAL:CG1	2:Oh:143:GLY:O	2.52	0.51
2:bh:112:VAL:CG1	2:bh:143:GLY:O	2.52	0.51
2:ch:86:ARG:HH11	2:ch:106:ARG:NH2	2.07	0.51
2:dh:77:LYS:HG2	2:dh:89:ILE:HD11	1.90	0.51
2:oh:86:ARG:HH11	2:oh:106:ARG:NH2	2.07	0.51
2:uh:86:ARG:HH11	2:uh:106:ARG:NH2	2.07	0.51
3:Cl:49:ILE:HG22	3:Cl:87:ARG:NH1	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dl:49:ILE:HG22	3:Dl:87:ARG:NH1	2.26	0.51
3:El:49:ILE:HG22	3:El:87:ARG:NH1	2.26	0.51
3:Xl:57:TYR:O	3:Xl:107:TYR:HD1	1.93	0.51
3:Yl:57:TYR:O	3:Yl:107:TYR:HD1	1.93	0.51
3:3l:57:TYR:O	3:3l:107:TYR:HD1	1.93	0.51
3:al:49:ILE:HG22	3:al:87:ARG:NH1	2.26	0.51
3:hl:57:TYR:O	3:hl:107:TYR:HD1	1.93	0.51
3:il:57:TYR:O	3:il:107:TYR:HD1	1.93	0.51
3:rl:57:TYR:O	3:rl:107:TYR:HD1	1.93	0.51
3:sl:49:ILE:HG22	3:sl:87:ARG:NH1	2.26	0.51
3:8l:57:TYR:O	3:8l:107:TYR:HD1	1.93	0.51
1:H:711:ASP:OD2	1:H:724:ARG:NH2	2.42	0.51
1:L:404:ARG:H	1:L:407:ASN:HD22	1.58	0.51
1:L:710:VAL:O	1:L:713:THR:OG1	2.25	0.51
1:N:711:ASP:OD2	1:N:724:ARG:NH2	2.42	0.51
1:3:728:THR:HG22	1:3:728:THR:O	2.09	0.51
1:b:710:VAL:O	1:b:713:THR:OG1	2.25	0.51
1:i:710:VAL:O	1:i:713:THR:OG1	2.25	0.51
1:p:728:THR:HG22	1:p:728:THR:O	2.09	0.51
1:q:404:ARG:H	1:q:407:ASN:HD22	1.58	0.51
1:t:404:ARG:H	1:t:407:ASN:HD22	1.58	0.51
2:Qh:112:VAL:CG1	2:Qh:143:GLY:O	2.52	0.51
2:3h:77:LYS:HB2	2:3h:77:LYS:NZ	2.23	0.51
2:ih:86:ARG:HH11	2:ih:106:ARG:NH2	2.07	0.51
2:th:112:VAL:CG1	2:th:143:GLY:O	2.52	0.51
3:Gl:49:ILE:HG22	3:Gl:87:ARG:NH1	2.26	0.51
3:Il:49:ILE:HG22	3:Il:87:ARG:NH1	2.26	0.51
3:Ll:57:TYR:O	3:Ll:107:TYR:HD1	1.93	0.51
3:Ol:49:ILE:HG22	3:Ol:87:ARG:NH1	2.26	0.51
3:Yl:49:ILE:HG22	3:Yl:87:ARG:NH1	2.26	0.51
3:4l:49:ILE:HG22	3:4l:87:ARG:NH1	2.26	0.51
3:5l:57:TYR:O	3:5l:107:TYR:HD1	1.93	0.51
3:el:49:ILE:HG22	3:el:87:ARG:NH1	2.26	0.51
3:fl:49:ILE:HG22	3:fl:87:ARG:NH1	2.26	0.51
3:hl:49:ILE:HG22	3:hl:87:ARG:NH1	2.26	0.51
3:nl:49:ILE:HG22	3:nl:87:ARG:NH1	2.26	0.51
3:ql:49:ILE:HG22	3:ql:87:ARG:NH1	2.26	0.51
3:tl:57:TYR:O	3:tl:107:TYR:HD1	1.93	0.51
1:E:404:ARG:H	1:E:407:ASN:HD22	1.58	0.51
1:R:711:ASP:OD2	1:R:724:ARG:NH2	2.42	0.51
1:1:710:VAL:O	1:1:713:THR:OG1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:728:THR:HG22	1:b:728:THR:O	2.09	0.51
1:c:711:ASP:OD2	1:c:724:ARG:NH2	2.42	0.51
1:h:728:THR:HG22	1:h:728:THR:O	2.09	0.51
1:k:711:ASP:OD2	1:k:724:ARG:NH2	2.42	0.51
1:7:728:THR:HG22	1:7:728:THR:O	2.09	0.51
2:Lh:71:TRP:CD2	2:Lh:76:ASN:HB3	2.46	0.51
2:Rh:68:ALA:HB1	2:Rh:89:ILE:HD13	1.93	0.51
2:Th:86:ARG:HH11	2:Th:106:ARG:NH2	2.07	0.51
2:Vh:86:ARG:HH11	2:Vh:106:ARG:NH2	2.07	0.51
2:Wh:68:ALA:HB1	2:Wh:89:ILE:HD13	1.93	0.51
2:Zh:86:ARG:HH11	2:Zh:106:ARG:NH2	2.07	0.51
2:eh:68:ALA:HB1	2:eh:89:ILE:HD13	1.93	0.51
2:gh:86:ARG:HH11	2:gh:106:ARG:NH2	2.07	0.51
2:lh:86:ARG:HH11	2:lh:106:ARG:NH2	2.07	0.51
2:nh:77:LYS:HB2	2:nh:77:LYS:HZ1	1.76	0.51
2:8h:86:ARG:HH11	2:8h:106:ARG:NH2	2.07	0.51
3:Jl:49:ILE:HG22	3:Jl:87:ARG:NH1	2.25	0.51
3:Nl:57:TYR:O	3:Nl:107:TYR:HD1	1.93	0.51
3:Sl:49:ILE:HG22	3:Sl:87:ARG:NH1	2.26	0.51
3:Tl:82:ARG:HH12	3:Tl:100:GLN:CG	2.24	0.51
3:dl:57:TYR:O	3:dl:107:TYR:HD1	1.93	0.51
3:gl:82:ARG:HH12	3:gl:100:GLN:CG	2.24	0.51
3:il:82:ARG:HH12	3:il:100:GLN:CG	2.24	0.51
3:ll:48:ASN:OD1	3:ll:49:ILE:N	2.36	0.51
3:ol:49:ILE:HG22	3:ol:87:ARG:NH1	2.26	0.51
3:7l:49:ILE:HG22	3:7l:87:ARG:NH1	2.26	0.51
1:A:728:THR:HG22	1:A:728:THR:O	2.09	0.51
1:D:404:ARG:H	1:D:407:ASN:HD22	1.58	0.51
1:G:710:VAL:O	1:G:713:THR:OG1	2.25	0.51
1:K:728:THR:HG22	1:K:728:THR:O	2.09	0.51
1:M:404:ARG:H	1:M:407:ASN:HD22	1.58	0.51
1:O:728:THR:HG22	1:O:728:THR:O	2.09	0.51
1:b:404:ARG:H	1:b:407:ASN:HD22	1.58	0.51
1:e:404:ARG:H	1:e:407:ASN:HD22	1.58	0.51
1:j:404:ARG:H	1:j:407:ASN:HD22	1.58	0.51
1:x:728:THR:HG22	1:x:728:THR:O	2.09	0.51
2:Ah:68:ALA:HB1	2:Ah:89:ILE:HD13	1.93	0.51
2:Ah:71:TRP:CD2	2:Ah:76:ASN:HB3	2.46	0.51
2:Dh:68:ALA:HB1	2:Dh:89:ILE:HD13	1.93	0.51
2:Dh:71:TRP:CD2	2:Dh:76:ASN:HB3	2.46	0.51
2:Hh:68:ALA:HB1	2:Hh:89:ILE:HD13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Mh:112:VAL:CG1	2:Mh:143:GLY:O	2.52	0.51
2:Sh:71:TRP:CD2	2:Sh:76:ASN:HB3	2.46	0.51
2:Sh:86:ARG:HH11	2:Sh:106:ARG:NH2	2.07	0.51
2:Vh:71:TRP:CD2	2:Vh:76:ASN:HB3	2.46	0.51
2:Wh:71:TRP:CD2	2:Wh:76:ASN:HB3	2.46	0.51
2:Xh:86:ARG:HH11	2:Xh:106:ARG:NH2	2.07	0.51
2:1h:71:TRP:CD2	2:1h:76:ASN:HB3	2.46	0.51
2:5h:77:LYS:HB2	2:5h:77:LYS:NZ	2.23	0.51
2:ah:68:ALA:HB1	2:ah:89:ILE:HD13	1.93	0.51
2:eh:71:TRP:CD2	2:eh:76:ASN:HB3	2.46	0.51
2:fh:112:VAL:CG1	2:fh:143:GLY:O	2.52	0.51
2:jh:71:TRP:CD2	2:jh:76:ASN:HB3	2.46	0.51
2:jh:86:ARG:HH11	2:jh:106:ARG:NH2	2.07	0.51
2:kh:68:ALA:HB1	2:kh:89:ILE:HD13	1.93	0.51
2:nh:68:ALA:HB1	2:nh:89:ILE:HD13	1.93	0.51
2:ph:71:TRP:CD2	2:ph:76:ASN:HB3	2.46	0.51
2:th:71:TRP:CD2	2:th:76:ASN:HB3	2.46	0.51
2:wh:71:TRP:CD2	2:wh:76:ASN:HB3	2.46	0.51
2:yh:68:ALA:HB1	2:yh:89:ILE:HD13	1.93	0.51
2:zh:77:LYS:HG2	2:zh:89:ILE:HD11	1.90	0.51
2:zh:112:VAL:CG1	2:zh:143:GLY:O	2.52	0.51
2:7h:77:LYS:HB2	2:7h:77:LYS:HZ1	1.75	0.51
2:8h:68:ALA:HB1	2:8h:89:ILE:HD13	1.93	0.51
3:Ol:57:TYR:O	3:Ol:107:TYR:HD1	1.93	0.51
3:Pl:49:ILE:HG22	3:Pl:87:ARG:NH1	2.26	0.51
3:Pl:57:TYR:O	3:Pl:107:TYR:HD1	1.93	0.51
3:Wl:49:ILE:HG22	3:Wl:87:ARG:NH1	2.26	0.51
3:Xl:49:ILE:HG22	3:Xl:87:ARG:NH1	2.26	0.51
3:1l:49:ILE:HG22	3:1l:87:ARG:NH1	2.26	0.51
3:cl:57:TYR:O	3:cl:107:TYR:HD1	1.93	0.51
3:fl:57:TYR:O	3:fl:107:TYR:HD1	1.93	0.51
3:il:49:ILE:HG22	3:il:87:ARG:NH1	2.26	0.51
3:ll:49:ILE:HG22	3:ll:87:ARG:NH1	2.26	0.51
3:vl:49:ILE:HG22	3:vl:87:ARG:NH1	2.25	0.51
3:wl:49:ILE:HG22	3:wl:87:ARG:NH1	2.26	0.51
1:F:404:ARG:H	1:F:407:ASN:HD22	1.58	0.51
1:I:711:ASP:OD2	1:I:724:ARG:NH2	2.43	0.51
1:M:728:THR:HG22	1:M:728:THR:O	2.09	0.51
1:V:404:ARG:H	1:V:407:ASN:HD22	1.58	0.51
1:4:728:THR:HG22	1:4:728:THR:O	2.09	0.51
1:c:728:THR:HG22	1:c:728:THR:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:404:ARG:H	1:s:407:ASN:HD22	1.58	0.51
1:t:710:VAL:O	1:t:713:THR:OG1	2.25	0.51
1:w:728:THR:HG22	1:w:728:THR:O	2.09	0.51
2:Ch:68:ALA:HB1	2:Ch:89:ILE:HD13	1.93	0.51
2:Gh:68:ALA:HB1	2:Gh:89:ILE:HD13	1.93	0.51
2:Ih:71:TRP:CD2	2:Ih:76:ASN:HB3	2.46	0.51
2:Lh:112:VAL:CG1	2:Lh:143:GLY:O	2.52	0.51
2:Zh:68:ALA:HB1	2:Zh:89:ILE:HD13	1.93	0.51
2:Zh:71:TRP:CD2	2:Zh:76:ASN:HB3	2.46	0.51
2:6h:71:TRP:CD2	2:6h:76:ASN:HB3	2.46	0.51
2:lh:71:TRP:CD2	2:lh:76:ASN:HB3	2.46	0.51
2:nh:71:TRP:CD2	2:nh:76:ASN:HB3	2.46	0.51
2:oh:71:TRP:CD2	2:oh:76:ASN:HB3	2.46	0.51
2:ph:68:ALA:HB1	2:ph:89:ILE:HD13	1.93	0.51
2:vh:71:TRP:CD2	2:vh:76:ASN:HB3	2.46	0.51
2:yh:86:ARG:HH11	2:yh:106:ARG:NH2	2.07	0.51
2:zh:68:ALA:HB1	2:zh:89:ILE:HD13	1.93	0.51
2:zh:71:TRP:CD2	2:zh:76:ASN:HB3	2.46	0.51
2:8h:71:TRP:CD2	2:8h:76:ASN:HB3	2.46	0.51
3:Cl:57:TYR:O	3:Cl:107:TYR:HD1	1.93	0.51
3:Sl:57:TYR:O	3:Sl:107:TYR:HD1	1.93	0.51
3:Xl:82:ARG:HH12	3:Xl:100:GLN:CG	2.24	0.51
3:al:57:TYR:O	3:al:107:TYR:HD1	1.93	0.51
3:dl:49:ILE:HG22	3:dl:87:ARG:NH1	2.26	0.51
3:zl:49:ILE:HG22	3:zl:87:ARG:NH1	2.26	0.51
1:A:404:ARG:H	1:A:407:ASN:HD22	1.58	0.51
1:K:422:SER:HB2	1:K:424:TYR:CE2	2.46	0.51
1:N:728:THR:HG22	1:N:728:THR:O	2.09	0.51
1:X:404:ARG:H	1:X:407:ASN:HD22	1.58	0.51
1:f:728:THR:HG22	1:f:728:THR:O	2.09	0.51
1:o:711:ASP:OD2	1:o:724:ARG:NH2	2.42	0.51
1:p:404:ARG:H	1:p:407:ASN:HD22	1.58	0.51
1:w:404:ARG:H	1:w:407:ASN:HD22	1.58	0.51
1:8:469:ASP:OD1	1:8:469:ASP:N	2.42	0.51
2:Ch:86:ARG:HH11	2:Ch:106:ARG:NH2	2.07	0.51
2:Gh:71:TRP:CD2	2:Gh:76:ASN:HB3	2.46	0.51
2:Hh:86:ARG:HH11	2:Hh:106:ARG:NH2	2.07	0.51
2:Ih:68:ALA:HB1	2:Ih:89:ILE:HD13	1.93	0.51
2:Nh:77:LYS:HG2	2:Nh:89:ILE:HD11	1.90	0.51
2:Ph:68:ALA:HB1	2:Ph:89:ILE:HD13	1.93	0.51
2:Qh:71:TRP:CD2	2:Qh:76:ASN:HB3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Th:71:TRP:CD2	2:Th:76:ASN:HB3	2.46	0.51
2:Vh:112:VAL:CG1	2:Vh:143:GLY:O	2.52	0.51
2:2h:71:TRP:CD2	2:2h:76:ASN:HB3	2.46	0.51
2:4h:112:VAL:CG1	2:4h:143:GLY:O	2.52	0.51
2:dh:68:ALA:HB1	2:dh:89:ILE:HD13	1.93	0.51
2:oh:68:ALA:HB1	2:oh:89:ILE:HD13	1.93	0.51
2:uh:112:VAL:CG1	2:uh:143:GLY:O	2.52	0.51
3:6l:49:ILE:HG22	3:6l:87:ARG:NH1	2.26	0.51
3:ll:57:TYR:O	3:ll:107:TYR:HD1	1.93	0.51
3:ml:49:ILE:HG22	3:ml:87:ARG:NH1	2.26	0.51
3:sl:48:ASN:OD1	3:sl:49:ILE:N	2.36	0.51
1:G:422:SER:HB2	1:G:424:TYR:CE2	2.46	0.51
1:I:422:SER:HB2	1:I:424:TYR:CE2	2.46	0.51
1:J:422:SER:HB2	1:J:424:TYR:CE2	2.46	0.51
1:L:711:ASP:OD2	1:L:724:ARG:NH2	2.42	0.51
1:R:422:SER:HB2	1:R:424:TYR:CE2	2.46	0.51
1:1:422:SER:HB2	1:1:424:TYR:CE2	2.46	0.51
1:1:728:THR:HG22	1:1:728:THR:O	2.09	0.51
1:3:404:ARG:H	1:3:407:ASN:HD22	1.58	0.51
1:5:404:ARG:H	1:5:407:ASN:HD22	1.58	0.51
1:i:404:ARG:H	1:i:407:ASN:HD22	1.58	0.51
1:k:422:SER:HB2	1:k:424:TYR:CE2	2.46	0.51
1:n:422:SER:HB2	1:n:424:TYR:CE2	2.46	0.51
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: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
2:Bh:71:TRP:CD2	2:Bh:76:ASN:HB3	2.46	0.51
2:Bh:112:VAL:CG1	2:Bh:143:GLY:O	2.52	0.51
2:Jh:71:TRP:CD2	2:Jh:76:ASN:HB3	2.46	0.51
2:Mh:68:ALA:HB1	2:Mh:89:ILE:HD13	1.93	0.51
2:Mh:71:TRP:CD2	2:Mh:76:ASN:HB3	2.46	0.51
2:Ph:86:ARG:HH11	2:Ph:106:ARG:NH2	2.07	0.51
2:Th:68:ALA:HB1	2:Th:89:ILE:HD13	1.93	0.51
2:3h:68:ALA:HB1	2:3h:89:ILE:HD13	1.93	0.51
2:5h:68:ALA:HB1	2:5h:89:ILE:HD13	1.93	0.51
2:ah:86:ARG:HH11	2:ah:106:ARG:NH2	2.07	0.51
2:bh:71:TRP:CD2	2:bh:76:ASN:HB3	2.46	0.51
2:gh:68:ALA:HB1	2:gh:89:ILE:HD13	1.93	0.51
2:gh:71:TRP:CD2	2:gh:76:ASN:HB3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mh:68:ALA:HB1	2:mh:89:ILE:HD13	1.93	0.51
2:qh:71:TRP:CD2	2:qh:76:ASN:HB3	2.46	0.51
2:rh:71:TRP:CD2	2:rh:76:ASN:HB3	2.46	0.51
2:uh:71:TRP:CD2	2:uh:76:ASN:HB3	2.46	0.51
2:7h:112:VAL:CG1	2:7h:143:GLY:O	2.52	0.51
3:Ml:82:ARG:HH12	3:Ml:100:GLN:CG	2.24	0.51
3:Nl:82:ARG:HH12	3:Nl:100:GLN:CG	2.24	0.51
3:Sl:48:ASN:OD1	3:Sl:49:ILE:N	2.36	0.51
3:Ul:49:ILE:HG22	3:Ul:87:ARG:NH1	2.26	0.51
3:2l:49:ILE:HG22	3:2l:87:ARG:NH1	2.26	0.51
3:bl:82:ARG:HH12	3:bl:100:GLN:CG	2.24	0.51
3:cl:82:ARG:HH12	3:cl:100:GLN:CG	2.24	0.51
3:kl:48:ASN:OD1	3:kl:49:ILE:N	2.36	0.51
3:ol:57:TYR:O	3:ol:107:TYR:HD1	1.93	0.51
1:A:422:SER:HB2	1:A:424:TYR:CE2	2.46	0.51
1:E:422:SER:HB2	1:E:424:TYR:CE2	2.46	0.51
1:H:422:SER:HB2	1:H:424:TYR:CE2	2.46	0.51
1:L:422:SER:HB2	1:L:424:TYR:CE2	2.46	0.51
1:P:422:SER:HB2	1:P:424:TYR:CE2	2.46	0.51
1:X:422:SER:HB2	1:X:424:TYR:CE2	2.46	0.51
1:Z:469:ASP:OD1	1:Z:469:ASP:N	2.42	0.51
1:l:404:ARG:H	1:l:407:ASN:HD22	1.58	0.51
1:d:422:SER:HB2	1:d:424:TYR:CE2	2.46	0.51
1:d:711:ASP:OD2	1:d:724:ARG:NH2	2.42	0.51
1:i:422:SER:HB2	1:i:424:TYR:CE2	2.46	0.51
1:m:728:THR:HG22	1:m:728:THR:O	2.09	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:t:711:ASP:OD2	1:t:724:ARG:NH2	2.42	0.51
1:y:422:SER:HB2	1:y:424:TYR:CE2	2.46	0.51
2:Eh:71:TRP:CD2	2:Eh:76:ASN:HB3	2.46	0.51
2:Hh:71:TRP:CD2	2:Hh:76:ASN:HB3	2.46	0.51
2:Uh:68:ALA:HB1	2:Uh:89:ILE:HD13	1.93	0.51
2:Yh:71:TRP:CD2	2:Yh:76:ASN:HB3	2.46	0.51
2:4h:71:TRP:CD2	2:4h:76:ASN:HB3	2.46	0.51
2:bh:68:ALA:HB1	2:bh:89:ILE:HD13	1.93	0.51
2:gh:77:LYS:HB2	2:gh:77:LYS:HZ1	1.74	0.51
2:hh:71:TRP:CD2	2:hh:76:ASN:HB3	2.46	0.51
2:yh:71:TRP:CD2	2:yh:76:ASN:HB3	2.46	0.51
2:7h:71:TRP:CD2	2:7h:76:ASN:HB3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ql:49:ILE:HG22	3:Ql:87:ARG:NH1	2.26	0.51
3:Rl:49:ILE:HG22	3:Rl:87:ARG:NH1	2.26	0.51
3:Tl:57:TYR:O	3:Tl:107:TYR:HD1	1.93	0.51
3:Yl:82:ARG:HH12	3:Yl:100:GLN:CG	2.24	0.51
3:gl:57:TYR:O	3:gl:107:TYR:HD1	1.93	0.51
3:kl:49:ILE:HG22	3:kl:87:ARG:NH1	2.26	0.51
1:I:311:LEU:HD22	1:I:413:TYR:HB3	1.93	0.51
1:V:311:LEU:HD22	1:V:413:TYR:HB3	1.93	0.51
1:W:404:ARG:H	1:W:407:ASN:HD22	1.58	0.51
1:Y:311:LEU:HD22	1:Y:413:TYR:HB3	1.93	0.51
1:Y:422:SER:HB2	1:Y:424:TYR:CE2	2.46	0.51
1:e:728:THR:HG22	1:e:728:THR:O	2.09	0.51
1:o:311:LEU:HD22	1:o:413:TYR:HB3	1.93	0.51
1:u:422:SER:HB2	1:u:424:TYR:CE2	2.46	0.51
1:v:728:THR:HG22	1:v:728:THR:O	2.09	0.51
1:z:404:ARG:H	1:z:407:ASN:HD22	1.58	0.51
1:7:311:LEU:HD22	1:7:413:TYR:HB3	1.93	0.51
1:7:422:SER:HB2	1:7:424:TYR:CE2	2.46	0.51
2:Jh:68:ALA:HB1	2:Jh:89:ILE:HD13	1.93	0.51
2:Nh:68:ALA:HB1	2:Nh:89:ILE:HD13	1.93	0.51
2:Wh:77:LYS:HG2	2:Wh:89:ILE:HD11	1.90	0.51
2:Wh:86:ARG:HH11	2:Wh:106:ARG:NH2	2.07	0.51
2:1h:68:ALA:HB1	2:1h:89:ILE:HD13	1.93	0.51
2:3h:71:TRP:CD2	2:3h:76:ASN:HB3	2.46	0.51
2:dh:86:ARG:HH11	2:dh:106:ARG:NH2	2.07	0.51
2:hh:112:VAL:CG1	2:hh:143:GLY:O	2.52	0.51
2:vh:68:ALA:HB1	2:vh:89:ILE:HD13	1.93	0.51
2:zh:86:ARG:HH11	2:zh:106:ARG:NH2	2.07	0.51
3:Bl:82:ARG:HH12	3:Bl:100:GLN:CG	2.24	0.51
3:Fl:48:ASN:OD1	3:Fl:49:ILE:N	2.36	0.51
3:Il:57:TYR:O	3:Il:107:TYR:HD1	1.93	0.51
3:Ll:82:ARG:HH12	3:Ll:100:GLN:CG	2.24	0.51
3:Rl:48:ASN:OD1	3:Rl:49:ILE:N	2.36	0.51
3:Ul:57:TYR:O	3:Ul:107:TYR:HD1	1.93	0.51
3:Wl:82:ARG:HH12	3:Wl:100:GLN:CG	2.24	0.51
3:cl:49:ILE:HG22	3:cl:87:ARG:NH1	2.26	0.51
3:ql:57:TYR:O	3:ql:107:TYR:HD1	1.93	0.51
3:rl:49:ILE:HG22	3:rl:87:ARG:NH1	2.26	0.51
3:tl:49:ILE:HG22	3:tl:87:ARG:NH1	2.26	0.51
3:tl:82:ARG:HH12	3:tl:100:GLN:CG	2.24	0.51
3:zl:82:ARG:HH12	3:zl:100:GLN:CG	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:422:SER:HB2	1:B:424:TYR:CE2	2.46	0.50
1:D:728:THR:HG22	1:D:728:THR:O	2.09	0.50
1:T:422:SER:HB2	1:T:424:TYR:CE2	2.46	0.50
1:U:728:THR:HG22	1:U:728:THR:O	2.09	0.50
1:W:422:SER:HB2	1:W:424:TYR:CE2	2.46	0.50
1:Z:422:SER:HB2	1:Z:424:TYR:CE2	2.46	0.50
1:g:422:SER:HB2	1:g:424:TYR:CE2	2.46	0.50
1:j:311:LEU:HD22	1:j:413:TYR:HB3	1.93	0.50
1:j:728:THR:HG22	1:j:728:THR:O	2.09	0.50
1:s:422:SER:HB2	1:s:424:TYR:CE2	2.46	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
1:8:710:VAL:O	1:8:713:THR:OG1	2.25	0.50
2:Eh:68:ALA:HB1	2:Eh:89:ILE:HD13	1.93	0.50
2:Sh:68:ALA:HB1	2:Sh:89:ILE:HD13	1.93	0.50
2:5h:71:TRP:CD2	2:5h:76:ASN:HB3	2.46	0.50
2:ch:68:ALA:HB1	2:ch:89:ILE:HD13	1.93	0.50
2:jh:112:VAL:CG1	2:jh:143:GLY:O	2.52	0.50
2:qh:68:ALA:HB1	2:qh:89:ILE:HD13	1.93	0.50
2:wh:68:ALA:HB1	2:wh:89:ILE:HD13	1.93	0.50
2:xh:71:TRP:CD2	2:xh:76:ASN:HB3	2.46	0.50
3:El:57:TYR:O	3:El:107:TYR:HD1	1.93	0.50
3:Ml:57:TYR:O	3:Ml:107:TYR:HD1	1.93	0.50
3:Ol:82:ARG:HH12	3:Ol:100:GLN:CG	2.24	0.50
3:Vl:49:ILE:HG22	3:Vl:87:ARG:NH1	2.26	0.50
3:3l:49:ILE:HG22	3:3l:87:ARG:NH1	2.26	0.50
3:5l:49:ILE:HG22	3:5l:87:ARG:NH1	2.26	0.50
3:gl:49:ILE:HG22	3:gl:87:ARG:NH1	2.26	0.50
3:ml:48:ASN:OD1	3:ml:49:ILE:N	2.36	0.50
3:yl:82:ARG:HH12	3:yl:100:GLN:CG	2.24	0.50
1:B:311:LEU:HD22	1:B:413:TYR:HB3	1.93	0.50
1:I:469:ASP:OD1	1:I:469:ASP:N	2.42	0.50
1:J:728:THR:HG22	1:J:728:THR:O	2.09	0.50
1:N:311:LEU:HD22	1:N:413:TYR:HB3	1.93	0.50
1:N:710:VAL:O	1:N:713:THR:OG1	2.25	0.50
1:O:311:LEU:HD22	1:O:413:TYR:HB3	1.94	0.50
1:O:404:ARG:H	1:O:407:ASN:HD22	1.58	0.50
1:O:422:SER:HB2	1:O:424:TYR:CE2	2.46	0.50
1:P:711:ASP:OD2	1:P:724:ARG:NH2	2.42	0.50
1:S:711:ASP:OD2	1:S:724:ARG:NH2	2.42	0.50
1:a:422:SER:HB2	1:a:424:TYR:CE2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:311:LEU:HD22	1:c:413:TYR:HB3	1.93	0.50
1:f:311:LEU:HD22	1:f:413:TYR:HB3	1.94	0.50
1:f:404:ARG:H	1:f:407:ASN:HD22	1.58	0.50
1:f:422:SER:HB2	1:f:424:TYR:CE2	2.46	0.50
1:h:404:ARG:H	1:h:407:ASN:HD22	1.58	0.50
1:s:711:ASP:OD2	1:s:724:ARG:NH2	2.42	0.50
2:Kh:71:TRP:CD2	2:Kh:76:ASN:HB3	2.46	0.50
2:3h:77:LYS:HG2	2:3h:89:ILE:HD11	1.90	0.50
2:4h:68:ALA:HB1	2:4h:89:ILE:HD13	1.93	0.50
2:5h:77:LYS:HG2	2:5h:89:ILE:HD11	1.90	0.50
2:hh:68:ALA:HB1	2:hh:89:ILE:HD13	1.93	0.50
2:lh:68:ALA:HB1	2:lh:89:ILE:HD13	1.93	0.50
2:sh:68:ALA:HB1	2:sh:89:ILE:HD13	1.93	0.50
2:sh:71:TRP:CD2	2:sh:76:ASN:HB3	2.46	0.50
3:Al:49:ILE:HG22	3:Al:87:ARG:NH1	2.26	0.50
3:Ll:49:ILE:HG22	3:Ll:87:ARG:NH1	2.26	0.50
3:Nl:49:ILE:HG22	3:Nl:87:ARG:NH1	2.26	0.50
3:fl:82:ARG:HH12	3:fl:100:GLN:CG	2.24	0.50
3:ml:57:TYR:O	3:ml:107:TYR:HD1	1.93	0.50
3:yl:49:ILE:HG22	3:yl:87:ARG:NH1	2.26	0.50
3:7l:48:ASN:OD1	3:7l:49:ILE:N	2.36	0.50
3:8l:49:ILE:HG22	3:8l:87:ARG:NH1	2.26	0.50
1:C:422:SER:HB2	1:C:424:TYR:CE2	2.46	0.50
1:F:422:SER:HB2	1:F:424:TYR:CE2	2.46	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:V:728:THR:HG22	1:V:728:THR:O	2.09	0.50
1:2:422:SER:HB2	1:2:424:TYR:CE2	2.46	0.50
1:4:404:ARG:H	1:4:407:ASN:HD22	1.58	0.50
1:j:422:SER:HB2	1:j:424:TYR:CE2	2.46	0.50
1:j:711:ASP:OD2	1:j:724:ARG:NH2	2.42	0.50
1:o:469:ASP:OD1	1:o:469:ASP:N	2.42	0.50
1:p:710:VAL:O	1:p:713:THR:OG1	2.25	0.50
1:u:311:LEU:HD22	1:u:413:TYR:HB3	1.93	0.50
2:Fh:68:ALA:HB1	2:Fh:89:ILE:HD13	1.93	0.50
2:Rh:71:TRP:CD2	2:Rh:76:ASN:HB3	2.46	0.50
2:3h:77:LYS:HB2	2:3h:77:LYS:HZ1	1.75	0.50
2:4h:77:LYS:NZ	2:4h:77:LYS:CB	2.75	0.50
2:fh:68:ALA:HB1	2:fh:89:ILE:HD13	1.93	0.50
2:gh:112:VAL:CG1	2:gh:143:GLY:O	2.52	0.50
2:hh:77:LYS:NZ	2:hh:77:LYS:CB	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kh:71:TRP:CD2	2:kh:76:ASN:HB3	2.46	0.50
2:oh:112:VAL:CG1	2:oh:143:GLY:O	2.52	0.50
3:Hl:49:ILE:HG22	3:Hl:87:ARG:NH1	2.26	0.50
3:Hl:82:ARG:HH12	3:Hl:100:GLN:CG	2.24	0.50
3:Tl:49:ILE:HG22	3:Tl:87:ARG:NH1	2.26	0.50
3:Zl:49:ILE:HG22	3:Zl:87:ARG:NH1	2.26	0.50
3:2l:82:ARG:HH12	3:2l:100:GLN:CG	2.24	0.50
3:jl:49:ILE:HG22	3:jl:87:ARG:NH1	2.26	0.50
3:nl:57:TYR:O	3:nl:107:TYR:HD1	1.93	0.50
3:pl:49:ILE:HG22	3:pl:87:ARG:NH1	2.26	0.50
3:rl:82:ARG:HH12	3:rl:100:GLN:CG	2.24	0.50
1:F:311:LEU:HD22	1:F:413:TYR:HB3	1.93	0.50
1:F:710:VAL:O	1:F:713:THR:OG1	2.25	0.50
1:F:711:ASP:OD2	1:F:724:ARG:NH2	2.42	0.50
1:H:710:VAL:O	1:H:713:THR:OG1	2.25	0.50
1:U:404:ARG:H	1:U:407:ASN:HD22	1.58	0.50
1:V:711:ASP:OD2	1:V:724:ARG:NH2	2.42	0.50
1:1:311:LEU:HD22	1:1:413:TYR:HB3	1.94	0.50
1:3:422:SER:HB2	1:3:424:TYR:CE2	2.46	0.50
1:6:422:SER:HB2	1:6:424:TYR:CE2	2.46	0.50
1:a:710:VAL:O	1:a:713:THR:OG1	2.25	0.50
1:b:311:LEU:HD22	1:b:413:TYR:HB3	1.94	0.50
1:l:711:ASP:OD2	1:l:724:ARG:NH2	2.42	0.50
1:m:404:ARG:H	1:m:407:ASN:HD22	1.58	0.50
1:m:422:SER:HB2	1:m:424:TYR:CE2	2.46	0.50
1:s:311:LEU:HD22	1:s:413:TYR:HB3	1.93	0.50
2:Bh:68:ALA:HB1	2:Bh:89:ILE:HD13	1.93	0.50
2:Fh:71:TRP:CD2	2:Fh:76:ASN:HB3	2.46	0.50
2:Nh:77:LYS:NZ	2:Nh:77:LYS:CB	2.75	0.50
2:Oh:68:ALA:HB1	2:Oh:89:ILE:HD13	1.93	0.50
2:Ph:71:TRP:CD2	2:Ph:76:ASN:HB3	2.46	0.50
2:Th:77:LYS:NZ	2:Th:77:LYS:CB	2.75	0.50
2:Th:112:VAL:CG1	2:Th:143:GLY:O	2.52	0.50
2:5h:77:LYS:HB2	2:5h:77:LYS:HZ1	1.75	0.50
2:ch:77:LYS:NZ	2:ch:77:LYS:CB	2.75	0.50
2:dh:71:TRP:CD2	2:dh:76:ASN:HB3	2.46	0.50
2:gh:77:LYS:NZ	2:gh:77:LYS:CB	2.75	0.50
2:ih:71:TRP:CD2	2:ih:76:ASN:HB3	2.46	0.50
2:kh:77:LYS:HG2	2:kh:89:ILE:HD11	1.90	0.50
2:ph:77:LYS:NZ	2:ph:77:LYS:CB	2.75	0.50
2:qh:77:LYS:HG2	2:qh:89:ILE:HD11	1.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:uh:68:ALA:HB1	2:uh:89:ILE:HD13	1.93	0.50
3:Gl:57:TYR:O	3:Gl:107:TYR:HD1	1.93	0.50
3:Kl:57:TYR:O	3:Kl:107:TYR:HD1	1.93	0.50
3:Ql:82:ARG:HH12	3:Ql:100:GLN:CG	2.24	0.50
3:bl:57:TYR:O	3:bl:107:TYR:HD1	1.93	0.50
1:C:311:LEU:HD22	1:C:413:TYR:HB3	1.93	0.50
1:M:311:LEU:HD22	1:M:413:TYR:HB3	1.94	0.50
1:P:710:VAL:O	1:P:713:THR:OG1	2.25	0.50
1:R:311:LEU:HD22	1:R:413:TYR:HB3	1.93	0.50
1:Z:311:LEU:HD22	1:Z:413:TYR:HB3	1.93	0.50
1:2:311:LEU:HD22	1:2:413:TYR:HB3	1.94	0.50
1:5:422:SER:HB2	1:5:424:TYR:CE2	2.46	0.50
1:6:311:LEU:HD22	1:6:413:TYR:HB3	1.94	0.50
1:c:710:VAL:O	1:c:713:THR:OG1	2.25	0.50
1:d:710:VAL:O	1:d:713:THR:OG1	2.25	0.50
1:k:311:LEU:HD22	1:k:413:TYR:HB3	1.93	0.50
1:s:710:VAL:O	1:s:713:THR:OG1	2.25	0.50
1:w:311:LEU:HD22	1:w:413:TYR:HB3	1.93	0.50
1:y:404:ARG:H	1:y:407:ASN:HD22	1.58	0.50
1:y:710:VAL:O	1:y:713:THR:OG1	2.25	0.50
1:z:311:LEU:HD22	1:z:413:TYR:HB3	1.93	0.50
1:8:311:LEU:HD22	1:8:413:TYR:HB3	1.94	0.50
2:Ah:77:LYS:NZ	2:Ah:77:LYS:CB	2.75	0.50
2:Bh:77:LYS:NZ	2:Bh:77:LYS:CB	2.75	0.50
2:Ch:112:VAL:CG1	2:Ch:143:GLY:O	2.52	0.50
2:Gh:77:LYS:HB2	2:Gh:77:LYS:HZ1	1.77	0.50
2:Rh:77:LYS:HG2	2:Rh:89:ILE:HD11	1.90	0.50
2:Xh:71:TRP:CD2	2:Xh:76:ASN:HB3	2.46	0.50
2:3h:112:VAL:CG1	2:3h:143:GLY:O	2.52	0.50
2:mh:77:LYS:NZ	2:mh:77:LYS:CB	2.75	0.50
2:uh:77:LYS:NZ	2:uh:77:LYS:CB	2.75	0.50
2:vh:77:LYS:HG2	2:vh:89:ILE:HD11	1.90	0.50
3:Bl:49:ILE:HG22	3:Bl:87:ARG:NH1	2.26	0.50
3:Ul:48:ASN:OD1	3:Ul:49:ILE:N	2.36	0.50
3:4l:82:ARG:HH12	3:4l:100:GLN:CG	2.24	0.50
3:el:82:ARG:HH12	3:el:100:GLN:CG	2.24	0.50
3:wl:82:ARG:HH12	3:wl:100:GLN:CG	2.24	0.50
3:xl:57:TYR:O	3:xl:107:TYR:HD1	1.93	0.50
1:C:710:VAL:O	1:C:713:THR:OG1	2.25	0.50
1:G:404:ARG:H	1:G:407:ASN:HD22	1.58	0.50
1:H:404:ARG:H	1:H:407:ASN:HD22	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:311:LEU:HD22	1:K:413:TYR:HB3	1.93	0.50
1:K:404:ARG:H	1:K:407:ASN:HD22	1.58	0.50
1:Q:404:ARG:H	1:Q:407:ASN:HD22	1.58	0.50
1:R:404:ARG:H	1:R:407:ASN:HD22	1.58	0.50
1:X:311:LEU:HD22	1:X:413:TYR:HB3	1.94	0.50
1:Z:710:VAL:O	1:Z:713:THR:OG1	2.25	0.50
1:4:311:LEU:HD22	1:4:413:TYR:HB3	1.94	0.50
1:a:311:LEU:HD22	1:a:413:TYR:HB3	1.93	0.50
1:h:311:LEU:HD22	1:h:413:TYR:HB3	1.94	0.50
1:n:404:ARG:H	1:n:407:ASN:HD22	1.58	0.50
1:r:404:ARG:H	1:r:407:ASN:HD22	1.58	0.50
1:x:404:ARG:H	1:x:407:ASN:HD22	1.58	0.50
2:Ih:77:LYS:HB2	2:Ih:77:LYS:HZ1	1.77	0.50
2:Ih:112:VAL:CG1	2:Ih:143:GLY:O	2.52	0.50
2:Uh:71:TRP:CD2	2:Uh:76:ASN:HB3	2.46	0.50
2:Uh:77:LYS:NZ	2:Uh:77:LYS:CB	2.75	0.50
2:Vh:68:ALA:HB1	2:Vh:89:ILE:HD13	1.93	0.50
2:mh:71:TRP:CD2	2:mh:76:ASN:HB3	2.46	0.50
2:oh:77:LYS:HB2	2:oh:77:LYS:HZ1	1.77	0.50
3:Dl:82:ARG:HH12	3:Dl:100:GLN:CG	2.24	0.50
3:Kl:49:ILE:HG22	3:Kl:87:ARG:NH1	2.26	0.50
3:Ml:49:ILE:HG22	3:Ml:87:ARG:NH1	2.26	0.50
3:1l:82:ARG:HH12	3:1l:100:GLN:CG	2.24	0.50
3:3l:82:ARG:HH12	3:3l:100:GLN:CG	2.24	0.50
3:5l:82:ARG:HH12	3:5l:100:GLN:CG	2.24	0.50
3:bl:49:ILE:HG22	3:bl:87:ARG:NH1	2.26	0.50
3:hl:82:ARG:HH12	3:hl:100:GLN:CG	2.24	0.50
3:ql:48:ASN:OD1	3:ql:49:ILE:N	2.36	0.50
3:ul:49:ILE:HG22	3:ul:87:ARG:NH1	2.26	0.50
1:G:469:ASP:OD1	1:G:469:ASP:N	2.42	0.50
1:W:311:LEU:HD22	1:W:413:TYR:HB3	1.93	0.50
1:i:311:LEU:HD22	1:i:413:TYR:HB3	1.94	0.50
1:r:422:SER:HB2	1:r:424:TYR:CE2	2.46	0.50
1:x:311:LEU:HD22	1:x:413:TYR:HB3	1.93	0.50
2:Eh:77:LYS:HG2	2:Eh:89:ILE:HD11	1.90	0.50
2:Hh:77:LYS:NZ	2:Hh:77:LYS:CB	2.75	0.50
2:Qh:77:LYS:NZ	2:Qh:77:LYS:CB	2.75	0.50
2:jh:68:ALA:HB1	2:jh:89:ILE:HD13	1.93	0.50
2:nh:77:LYS:HG2	2:nh:89:ILE:HD11	1.90	0.50
2:rh:77:LYS:NZ	2:rh:77:LYS:CB	2.75	0.50
2:yh:77:LYS:NZ	2:yh:77:LYS:CB	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Al:82:ARG:HH12	3:Al:100:GLN:CG	2.24	0.50
3:Yl:48:ASN:OD1	3:Yl:49:ILE:N	2.36	0.50
3:ml:82:ARG:HH12	3:ml:100:GLN:CG	2.24	0.50
1:Q:422:SER:HB2	1:Q:424:TYR:CE2	2.46	0.50
1:k:404:ARG:H	1:k:407:ASN:HD22	1.58	0.50
1:n:469:ASP:OD1	1:n:469:ASP:N	2.42	0.50
1:x:710:VAL:O	1:x:713:THR:OG1	2.25	0.50
2:Eh:77:LYS:NZ	2:Eh:77:LYS:CB	2.75	0.50
2:Gh:77:LYS:HG2	2:Gh:89:ILE:HD11	1.90	0.50
2:Jh:77:LYS:HG2	2:Jh:89:ILE:HD11	1.90	0.50
2:Qh:68:ALA:HB1	2:Qh:89:ILE:HD13	1.93	0.50
2:Th:70:ILE:HD13	2:Th:91:ARG:HG2	1.94	0.50
2:Wh:77:LYS:NZ	2:Wh:77:LYS:CB	2.75	0.50
2:ch:112:VAL:CG1	2:ch:143:GLY:O	2.52	0.50
2:wh:77:LYS:HG2	2:wh:89:ILE:HD11	1.90	0.50
2:zh:77:LYS:NZ	2:zh:77:LYS:CB	2.75	0.50
3:Fl:57:TYR:O	3:Fl:107:TYR:HD1	1.93	0.50
3:jl:57:TYR:O	3:jl:107:TYR:HD1	1.93	0.50
3:pl:82:ARG:HH12	3:pl:100:GLN:CG	2.24	0.50
3:xl:49:ILE:HG22	3:xl:87:ARG:NH1	2.26	0.50
1:X:711:ASP:OD2	1:X:724:ARG:NH2	2.42	0.50
1:c:422:SER:HB2	1:c:424:TYR:CE2	2.46	0.50
1:r:311:LEU:HD22	1:r:413:TYR:HB3	1.93	0.50
2:Ch:77:LYS:NZ	2:Ch:77:LYS:CB	2.75	0.50
2:Jh:77:LYS:NZ	2:Jh:77:LYS:CB	2.75	0.50
2:1h:77:LYS:HB2	2:1h:77:LYS:HZ1	1.77	0.50
2:5h:112:VAL:CG1	2:5h:143:GLY:O	2.52	0.50
2:ah:112:VAL:CG1	2:ah:143:GLY:O	2.52	0.50
2:eh:77:LYS:HB2	2:eh:77:LYS:HZ2	1.77	0.50
2:gh:70:ILE:HD13	2:gh:91:ARG:HG2	1.94	0.50
2:lh:77:LYS:NZ	2:lh:77:LYS:CB	2.75	0.50
2:qh:77:LYS:NZ	2:qh:77:LYS:CB	2.75	0.50
2:th:77:LYS:NZ	2:th:77:LYS:CB	2.75	0.50
2:vh:77:LYS:NZ	2:vh:77:LYS:CB	2.75	0.50
3:ql:82:ARG:HH12	3:ql:100:GLN:CG	2.24	0.50
1:G:371:MET:HB2	1:1:666:PHE:HE2	1.77	0.49
1:H:311:LEU:HD22	1:H:413:TYR:HB3	1.93	0.49
1:J:311:LEU:HD22	1:J:413:TYR:HB3	1.93	0.49
1:K:710:VAL:O	1:K:713:THR:OG1	2.25	0.49
1:N:422:SER:HB2	1:N:424:TYR:CE2	2.46	0.49
1:Q:311:LEU:HD22	1:Q:413:TYR:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:311:LEU:HD22	1:T:413:TYR:HB3	1.93	0.49
1:v:311:LEU:HD22	1:v:413:TYR:HB3	1.93	0.49
2:Eh:70:ILE:HD13	2:Eh:91:ARG:HG2	1.94	0.49
2:Sh:77:LYS:NZ	2:Sh:77:LYS:CB	2.75	0.49
2:Uh:70:ILE:HD13	2:Uh:91:ARG:HG2	1.94	0.49
2:Xh:68:ALA:HB1	2:Xh:89:ILE:HD13	1.93	0.49
2:Xh:70:ILE:HD13	2:Xh:91:ARG:HG2	1.94	0.49
2:1h:70:ILE:HD13	2:1h:91:ARG:HG2	1.94	0.49
2:1h:77:LYS:HG2	2:1h:89:ILE:HD11	1.90	0.49
2:ah:77:LYS:NZ	2:ah:77:LYS:CB	2.75	0.49
2:ih:70:ILE:HD13	2:ih:91:ARG:HG2	1.94	0.49
2:qh:70:ILE:HD13	2:qh:91:ARG:HG2	1.94	0.49
2:rh:68:ALA:HB1	2:rh:89:ILE:HD13	1.93	0.49
2:vh:70:ILE:HD13	2:vh:91:ARG:HG2	1.94	0.49
2:wh:70:ILE:HD13	2:wh:91:ARG:HG2	1.94	0.49
2:7h:68:ALA:HB1	2:7h:89:ILE:HD13	1.93	0.49
3:El:48:ASN:OD1	3:El:49:ILE:N	2.36	0.49
3:El:82:ARG:HH12	3:El:100:GLN:CG	2.24	0.49
3:Ul:82:ARG:HH12	3:Ul:100:GLN:CG	2.24	0.49
3:Vl:57:TYR:O	3:Vl:107:TYR:HD1	1.93	0.49
3:Vl:82:ARG:HH12	3:Vl:100:GLN:CG	2.24	0.49
1:J:710:VAL:O	1:J:713:THR:OG1	2.25	0.49
1:g:311:LEU:HD22	1:g:413:TYR:HB3	1.93	0.49
1:h:469:ASP:OD1	1:h:469:ASP:N	2.42	0.49
1:q:311:LEU:HD22	1:q:413:TYR:HB3	1.94	0.49
2:Gh:70:ILE:HD13	2:Gh:91:ARG:HG2	1.94	0.49
2:Jh:70:ILE:HD13	2:Jh:91:ARG:HG2	1.94	0.49
2:Lh:70:ILE:HD13	2:Lh:91:ARG:HG2	1.94	0.49
2:Lh:77:LYS:NZ	2:Lh:77:LYS:CB	2.75	0.49
2:Oh:71:TRP:CD2	2:Oh:76:ASN:HB3	2.46	0.49
2:Yh:68:ALA:HB1	2:Yh:89:ILE:HD13	1.93	0.49
2:5h:70:ILE:HD13	2:5h:91:ARG:HG2	1.94	0.49
2:ah:71:TRP:CD2	2:ah:76:ASN:HB3	2.46	0.49
2:bh:70:ILE:HD13	2:bh:91:ARG:HG2	1.94	0.49
2:eh:77:LYS:NZ	2:eh:77:LYS:CB	2.75	0.49
2:ih:68:ALA:HB1	2:ih:89:ILE:HD13	1.93	0.49
2:mh:70:ILE:HD13	2:mh:91:ARG:HG2	1.94	0.49
2:nh:70:ILE:HD13	2:nh:91:ARG:HG2	1.94	0.49
2:rh:77:LYS:HG2	2:rh:89:ILE:HD11	1.90	0.49
3:Kl:82:ARG:HH12	3:Kl:100:GLN:CG	2.24	0.49
3:jl:82:ARG:HH12	3:jl:100:GLN:CG	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:xl:82:ARG:HH12	3:xl:100:GLN:CG	2.24	0.49
1:E:311:LEU:HD22	1:E:413:TYR:HB3	1.94	0.49
1:S:422:SER:HB2	1:S:424:TYR:CE2	2.46	0.49
1:4:469:ASP:OD1	1:4:469:ASP:N	2.42	0.49
1:i:711:ASP:OD2	1:i:724:ARG:NH2	2.42	0.49
1:l:422:SER:HB2	1:l:424:TYR:CE2	2.46	0.49
1:y:311:LEU:HD22	1:y:413:TYR:HB3	1.93	0.49
2:Ch:71:TRP:CD2	2:Ch:76:ASN:HB3	2.46	0.49
2:Lh:68:ALA:HB1	2:Lh:89:ILE:HD13	1.93	0.49
2:Mh:77:LYS:NZ	2:Mh:77:LYS:CB	2.75	0.49
2:Nh:112:VAL:CG1	2:Nh:143:GLY:O	2.52	0.49
2:bh:77:LYS:NZ	2:bh:77:LYS:CB	2.75	0.49
2:ch:71:TRP:CD2	2:ch:76:ASN:HB3	2.46	0.49
2:fh:71:TRP:CD2	2:fh:76:ASN:HB3	2.46	0.49
2:uh:77:LYS:HG2	2:uh:89:ILE:HD11	1.90	0.49
2:xh:70:ILE:HD13	2:xh:91:ARG:HG2	1.94	0.49
3:sl:57:TYR:O	3:sl:107:TYR:HD1	1.93	0.49
1:F:341:GLN:HE21	1:F:402:MET:HE3	1.78	0.49
1:Z:371:MET:HB2	1:6:666:PHE:HE2	1.77	0.49
1:e:422:SER:HB2	1:e:424:TYR:CE2	2.46	0.49
1:s:341:GLN:HE21	1:s:402:MET:HE3	1.78	0.49
2:Dh:77:LYS:NZ	2:Dh:77:LYS:CB	2.75	0.49
2:Gh:77:LYS:NZ	2:Gh:77:LYS:CB	2.75	0.49
2:Kh:70:ILE:HD13	2:Kh:91:ARG:HG2	1.94	0.49
2:Mh:70:ILE:HD13	2:Mh:91:ARG:HG2	1.95	0.49
2:Nh:71:TRP:CD2	2:Nh:76:ASN:HB3	2.46	0.49
2:Vh:77:LYS:NZ	2:Vh:77:LYS:CB	2.75	0.49
2:Xh:77:LYS:NZ	2:Xh:77:LYS:CB	2.75	0.49
2:2h:68:ALA:HB1	2:2h:89:ILE:HD13	1.93	0.49
2:3h:70:ILE:HD13	2:3h:91:ARG:HG2	1.95	0.49
2:4h:63:GLY:CA	3:4l:108:TYR:CZ	2.95	0.49
2:6h:68:ALA:HB1	2:6h:89:ILE:HD13	1.93	0.49
2:oh:77:LYS:HG2	2:oh:89:ILE:HD11	1.90	0.49
2:th:68:ALA:HB1	2:th:89:ILE:HD13	1.93	0.49
2:th:70:ILE:HD13	2:th:91:ARG:HG2	1.94	0.49
2:xh:77:LYS:NZ	2:xh:77:LYS:CB	2.75	0.49
3:Cl:82:ARG:HH12	3:Cl:100:GLN:CG	2.24	0.49
3:al:82:ARG:HH12	3:al:100:GLN:CG	2.24	0.49
1:A:371:MET:HB2	1:V:666:PHE:HE2	1.78	0.49
1:C:666:PHE:HE2	1:F:371:MET:HB2	1.78	0.49
1:D:422:SER:HB2	1:D:424:TYR:CE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:341:GLN:HE21	1:O:402:MET:HE3	1.78	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:a:666:PHE:HE2	1:s:371:MET:HB2	1.78	0.49
1:b:422:SER:HB2	1:b:424:TYR:CE2	2.46	0.49
1:j:666:PHE:HE2	1:p:371:MET:HB2	1.78	0.49
1:v:710:VAL:O	1:v:713:THR:OG1	2.25	0.49
2:Bh:77:LYS:HG2	2:Bh:89:ILE:HD11	1.90	0.49
2:Kh:68:ALA:HB1	2:Kh:89:ILE:HD13	1.93	0.49
2:Qh:77:LYS:HG2	2:Qh:89:ILE:HD11	1.90	0.49
2:dh:70:ILE:HD13	2:dh:91:ARG:HG2	1.94	0.49
2:nh:77:LYS:NZ	2:nh:77:LYS:CB	2.75	0.49
2:xh:68:ALA:HB1	2:xh:89:ILE:HD13	1.93	0.49
2:7h:70:ILE:HD13	2:7h:91:ARG:HG2	1.94	0.49
2:8h:77:LYS:NZ	2:8h:77:LYS:CB	2.75	0.49
3:fl:48:ASN:OD1	3:fl:49:ILE:N	2.36	0.49
1:M:422:SER:HB2	1:M:424:TYR:CE2	2.46	0.49
1:S:710:VAL:O	1:S:713:THR:OG1	2.25	0.49
1:U:341:GLN:HE21	1:U:402:MET:HE3	1.78	0.49
1:4:341:GLN:HE21	1:4:402:MET:HE3	1.78	0.49
1:b:341:GLN:HE21	1:b:402:MET:HE3	1.78	0.49
1:d:311:LEU:HD22	1:d:413:TYR:HB3	1.93	0.49
1:d:469:ASP:OD1	1:d:469:ASP:N	2.42	0.49
1:f:341:GLN:HE21	1:f:402:MET:HE3	1.78	0.49
1:h:341:GLN:HE21	1:h:402:MET:HE3	1.78	0.49
1:m:311:LEU:HD22	1:m:413:TYR:HB3	1.94	0.49
1:m:341:GLN:HE21	1:m:402:MET:HE3	1.78	0.49
2:Ih:77:LYS:NZ	2:Ih:77:LYS:CB	2.75	0.49
2:Jh:41:CYS:HB3	2:Jh:98:LEU:HB3	1.95	0.49
2:Kh:77:LYS:NZ	2:Kh:77:LYS:CB	2.75	0.49
2:Ph:70:ILE:HD13	2:Ph:91:ARG:HG2	1.94	0.49
2:Wh:53:MET:HB3	2:Wh:98:LEU:HD22	1.95	0.49
2:Yh:70:ILE:HD13	2:Yh:91:ARG:HG2	1.94	0.49
2:Zh:77:LYS:NZ	2:Zh:77:LYS:CB	2.75	0.49
2:2h:53:MET:HB3	2:2h:98:LEU:HD22	1.95	0.49
2:ih:77:LYS:NZ	2:ih:77:LYS:CB	2.75	0.49
2:jh:77:LYS:NZ	2:jh:77:LYS:CB	2.75	0.49
2:kh:77:LYS:NZ	2:kh:77:LYS:CB	2.75	0.49
2:vh:41:CYS:HB3	2:vh:98:LEU:HB3	1.95	0.49
2:zh:53:MET:HB3	2:zh:98:LEU:HD22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:7h:77:LYS:NZ	2:7h:77:LYS:CB	2.75	0.49
1:L:311:LEU:HD22	1:L:413:TYR:HB3	1.93	0.49
1:M:341:GLN:HE21	1:M:402:MET:HE3	1.78	0.49
1:U:311:LEU:HD22	1:U:413:TYR:HB3	1.93	0.49
1:2:711:ASP:OD2	1:2:724:ARG:NH2	2.42	0.49
1:z:711:ASP:OD2	1:z:724:ARG:NH2	2.42	0.49
2:Qh:70:ILE:HD13	2:Qh:91:ARG:HG2	1.94	0.49
2:Rh:77:LYS:NZ	2:Rh:77:LYS:CB	2.75	0.49
2:Wh:41:CYS:HB3	2:Wh:98:LEU:HB3	1.95	0.49
2:Yh:77:LYS:NZ	2:Yh:77:LYS:CB	2.75	0.49
2:6h:53:MET:HB3	2:6h:98:LEU:HD22	1.95	0.49
2:fh:77:LYS:NZ	2:fh:77:LYS:CB	2.75	0.49
2:lh:70:ILE:HD13	2:lh:91:ARG:HG2	1.94	0.49
2:oh:77:LYS:NZ	2:oh:77:LYS:CB	2.75	0.49
2:ph:53:MET:HB3	2:ph:98:LEU:HD22	1.95	0.49
1:B:341:GLN:HE21	1:B:402:MET:HE3	1.78	0.49
1:J:341:GLN:HE21	1:J:402:MET:HE3	1.78	0.49
1:P:311:LEU:HD22	1:P:413:TYR:HB3	1.93	0.49
1:T:666:PHE:HE2	1:6:371:MET:HB2	1.78	0.49
1:W:711:ASP:OD2	1:W:724:ARG:NH2	2.42	0.49
1:e:311:LEU:HD22	1:e:413:TYR:HB3	1.93	0.49
1:l:710:VAL:O	1:l:713:THR:OG1	2.25	0.49
1:n:341:GLN:HE21	1:n:402:MET:HE3	1.78	0.49
1:v:341:GLN:HE21	1:v:402:MET:HE3	1.78	0.49
1:7:710:VAL:O	1:7:713:THR:OG1	2.25	0.49
2:Ah:53:MET:HB3	2:Ah:98:LEU:HD22	1.95	0.49
2:Fh:77:LYS:NZ	2:Fh:77:LYS:CB	2.75	0.49
2:Ih:77:LYS:HG2	2:Ih:89:ILE:HD11	1.90	0.49
2:Jh:53:MET:HB3	2:Jh:98:LEU:HD22	1.95	0.49
2:Oh:41:CYS:HB3	2:Oh:98:LEU:HB3	1.95	0.49
2:Oh:77:LYS:NZ	2:Oh:77:LYS:CB	2.75	0.49
2:Ph:77:LYS:NZ	2:Ph:77:LYS:CB	2.75	0.49
2:Sh:70:ILE:HD13	2:Sh:91:ARG:HG2	1.94	0.49
2:Th:102:MET:HE1	2:Th:113:TYR:CE1	2.48	0.49
2:Zh:102:MET:HE1	2:Zh:113:TYR:CE1	2.48	0.49
2:1h:41:CYS:HB3	2:1h:98:LEU:HB3	1.95	0.49
2:fh:41:CYS:HB3	2:fh:98:LEU:HB3	1.95	0.49
2:gh:102:MET:HE1	2:gh:113:TYR:CE1	2.48	0.49
2:hh:102:MET:HE1	2:hh:113:TYR:CE1	2.48	0.49
2:sh:77:LYS:NZ	2:sh:77:LYS:CB	2.75	0.49
2:zh:41:CYS:HB3	2:zh:98:LEU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:8h:102:MET:HE1	2:8h:113:TYR:CE1	2.48	0.49
3:Al:48:ASN:OD1	3:Al:49:ILE:N	2.36	0.49
1:G:341:GLN:HE21	1:G:402:MET:HE3	1.78	0.49
1:K:341:GLN:HE21	1:K:402:MET:HE3	1.78	0.49
1:P:469:ASP:OD1	1:P:469:ASP:N	2.42	0.49
1:R:341:GLN:HE21	1:R:402:MET:HE3	1.78	0.49
1:5:311:LEU:HD22	1:5:413:TYR:HB3	1.94	0.49
1:i:341:GLN:HE21	1:i:402:MET:HE3	1.78	0.49
1:k:341:GLN:HE21	1:k:402:MET:HE3	1.78	0.49
1:l:311:LEU:HD22	1:l:413:TYR:HB3	1.93	0.49
1:p:311:LEU:HD22	1:p:413:TYR:HB3	1.93	0.49
1:t:311:LEU:HD22	1:t:413:TYR:HB3	1.93	0.49
1:u:341:GLN:HE21	1:u:402:MET:HE3	1.78	0.49
1:x:341:GLN:HE21	1:x:402:MET:HE3	1.78	0.49
1:8:341:GLN:HE21	1:8:402:MET:HE3	1.78	0.49
2:Bh:53:MET:HB3	2:Bh:98:LEU:HD22	1.95	0.49
2:Eh:41:CYS:HB3	2:Eh:98:LEU:HB3	1.95	0.49
2:Eh:112:VAL:CG1	2:Eh:143:GLY:O	2.52	0.49
2:Uh:41:CYS:HB3	2:Uh:98:LEU:HB3	1.95	0.49
2:Wh:70:ILE:HD13	2:Wh:91:ARG:HG2	1.94	0.49
2:4h:70:ILE:HD13	2:4h:91:ARG:HG2	1.94	0.49
2:4h:102:MET:HE1	2:4h:113:TYR:CE1	2.48	0.49
2:dh:77:LYS:NZ	2:dh:77:LYS:CB	2.75	0.49
2:eh:70:ILE:HD13	2:eh:91:ARG:HG2	1.94	0.49
2:jh:41:CYS:HB3	2:jh:98:LEU:HB3	1.95	0.49
2:qh:41:CYS:HB3	2:qh:98:LEU:HB3	1.95	0.49
2:rh:70:ILE:HD13	2:rh:91:ARG:HG2	1.94	0.49
2:sh:63:GLY:CA	3:sl:108:TYR:CZ	2.95	0.49
2:uh:41:CYS:HB3	2:uh:98:LEU:HB3	1.95	0.49
2:uh:53:MET:HB3	2:uh:98:LEU:HD22	1.95	0.49
2:vh:53:MET:HB3	2:vh:98:LEU:HD22	1.95	0.49
2:wh:41:CYS:HB3	2:wh:98:LEU:HB3	1.95	0.49
2:wh:63:GLY:CA	3:wl:108:TYR:CZ	2.95	0.49
2:xh:53:MET:HB3	2:xh:98:LEU:HD22	1.95	0.49
3:Ol:48:ASN:OD1	3:Ol:49:ILE:N	2.36	0.49
3:kl:82:ARG:HH12	3:kl:100:GLN:CG	2.24	0.49
1:A:311:LEU:HD22	1:A:413:TYR:HB3	1.93	0.49
1:D:311:LEU:HD22	1:D:413:TYR:HB3	1.93	0.49
1:L:341:GLN:HE21	1:L:402:MET:HE3	1.78	0.49
1:X:341:GLN:HE21	1:X:402:MET:HE3	1.78	0.49
1:Z:341:GLN:HE21	1:Z:402:MET:HE3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:311:LEU:HD22	1:3:413:TYR:HB3	1.94	0.49
2:Bh:41:CYS:HB3	2:Bh:98:LEU:HB3	1.95	0.49
2:Ch:41:CYS:HB3	2:Ch:98:LEU:HB3	1.95	0.49
2:Dh:70:ILE:HD13	2:Dh:91:ARG:HG2	1.95	0.49
2:Hh:41:CYS:HB3	2:Hh:98:LEU:HB3	1.95	0.49
2:Ih:102:MET:HE1	2:Ih:113:TYR:CE1	2.48	0.49
2:Jh:102:MET:HE1	2:Jh:113:TYR:CE1	2.48	0.49
2:Kh:53:MET:HB3	2:Kh:98:LEU:HD22	1.95	0.49
2:Sh:35:ARG:HG2	2:Sh:36:SER:N	2.28	0.49
2:Sh:41:CYS:HB3	2:Sh:98:LEU:HB3	1.95	0.49
2:Vh:41:CYS:HB3	2:Vh:98:LEU:HB3	1.95	0.49
2:Vh:102:MET:HE1	2:Vh:113:TYR:CE1	2.48	0.49
2:Xh:77:LYS:HG2	2:Xh:89:ILE:HD11	1.90	0.49
2:4h:41:CYS:HB3	2:4h:98:LEU:HB3	1.95	0.49
2:ah:41:CYS:HB3	2:ah:98:LEU:HB3	1.95	0.49
2:hh:70:ILE:HD13	2:hh:91:ARG:HG2	1.95	0.49
2:jh:102:MET:HE1	2:jh:113:TYR:CE1	2.48	0.49
2:lh:35:ARG:HG2	2:lh:36:SER:N	2.28	0.49
2:lh:41:CYS:HB3	2:lh:98:LEU:HB3	1.95	0.49
2:mh:41:CYS:HB3	2:mh:98:LEU:HB3	1.95	0.49
2:oh:102:MET:HE1	2:oh:113:TYR:CE1	2.48	0.49
2:ph:70:ILE:HD13	2:ph:91:ARG:HG2	1.94	0.49
2:vh:102:MET:HE1	2:vh:113:TYR:CE1	2.48	0.49
3:6l:48:ASN:OD1	3:6l:49:ILE:N	2.36	0.49
1:C:341:GLN:HE21	1:C:402:MET:HE3	1.78	0.48
1:E:371:MET:HB2	1:4:666:PHE:HE2	1.78	0.48
1:G:311:LEU:HD22	1:G:413:TYR:HB3	1.94	0.48
1:S:311:LEU:HD22	1:S:413:TYR:HB3	1.93	0.48
1:S:341:GLN:HE21	1:S:402:MET:HE3	1.78	0.48
1:1:341:GLN:HE21	1:1:402:MET:HE3	1.78	0.48
1:6:341:GLN:HE21	1:6:402:MET:HE3	1.78	0.48
1:a:341:GLN:HE21	1:a:402:MET:HE3	1.78	0.48
1:h:422:SER:HB2	1:h:424:TYR:CE2	2.46	0.48
1:h:666:PHE:HE2	1:q:371:MET:HB2	1.78	0.48
1:k:710:VAL:O	1:k:713:THR:OG1	2.25	0.48
1:n:311:LEU:HD22	1:n:413:TYR:HB3	1.94	0.48
2:Ah:70:ILE:HD13	2:Ah:91:ARG:HG2	1.94	0.48
2:Ch:70:ILE:HD13	2:Ch:91:ARG:HG2	1.94	0.48
2:Ch:77:LYS:HG2	2:Ch:89:ILE:HD11	1.90	0.48
2:Jh:35:ARG:HG2	2:Jh:36:SER:N	2.28	0.48
2:Mh:41:CYS:HB3	2:Mh:98:LEU:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Mh:102:MET:HE1	2:Mh:113:TYR:CE1	2.48	0.48
2:Nh:70:ILE:HD13	2:Nh:91:ARG:HG2	1.94	0.48
2:Oh:53:MET:HB3	2:Oh:98:LEU:HD22	1.95	0.48
2:Sh:53:MET:HB3	2:Sh:98:LEU:HD22	1.95	0.48
2:Uh:102:MET:HE1	2:Uh:113:TYR:CE1	2.48	0.48
2:Wh:102:MET:HE1	2:Wh:113:TYR:CE1	2.48	0.48
2:Xh:35:ARG:HG2	2:Xh:36:SER:N	2.28	0.48
2:Yh:53:MET:HB3	2:Yh:98:LEU:HD22	1.95	0.48
2:1h:63:GLY:CA	3:1l:108:TYR:CZ	2.95	0.48
2:2h:102:MET:HE1	2:2h:113:TYR:CE1	2.48	0.48
2:ah:77:LYS:HG2	2:ah:89:ILE:HD11	1.90	0.48
2:bh:102:MET:HE1	2:bh:113:TYR:CE1	2.48	0.48
2:ch:70:ILE:HD13	2:ch:91:ARG:HG2	1.94	0.48
2:eh:102:MET:HE1	2:eh:113:TYR:CE1	2.48	0.48
2:fh:53:MET:HB3	2:fh:98:LEU:HD22	1.95	0.48
2:ih:35:ARG:HG2	2:ih:36:SER:N	2.28	0.48
2:mh:102:MET:HE1	2:mh:113:TYR:CE1	2.48	0.48
2:nh:41:CYS:HB3	2:nh:98:LEU:HB3	1.95	0.48
2:qh:112:VAL:CG1	2:qh:143:GLY:O	2.52	0.48
2:wh:77:LYS:HB2	2:wh:77:LYS:HZ1	1.78	0.48
2:yh:41:CYS:HB3	2:yh:98:LEU:HB3	1.95	0.48
2:zh:70:ILE:HD13	2:zh:91:ARG:HG2	1.95	0.48
2:zh:102:MET:HE1	2:zh:113:TYR:CE1	2.48	0.48
2:7h:53:MET:HB3	2:7h:98:LEU:HD22	1.95	0.48
3:Sl:82:ARG:HH12	3:Sl:100:GLN:CG	2.24	0.48
3:Zl:82:ARG:HH12	3:Zl:100:GLN:CG	2.24	0.48
3:ll:82:ARG:HH12	3:ll:100:GLN:CG	2.24	0.48
1:P:341:GLN:HE21	1:P:402:MET:HE3	1.78	0.48
1:P:666:PHE:HE2	1:T:371:MET:HB2	1.78	0.48
1:Q:666:PHE:HE2	1:h:371:MET:HB2	1.78	0.48
1:R:710:VAL:O	1:R:713:THR:OG1	2.25	0.48
1:V:341:GLN:HE21	1:V:402:MET:HE3	1.78	0.48
1:Y:341:GLN:HE21	1:Y:402:MET:HE3	1.78	0.48
1:Z:224:SER:H	1:6:407:ASN:HD21	1.61	0.48
1:2:341:GLN:HE21	1:2:402:MET:HE3	1.78	0.48
1:2:371:MET:HB2	1:g:666:PHE:HE2	1.78	0.48
1:4:422:SER:HB2	1:4:424:TYR:CE2	2.46	0.48
1:c:341:GLN:HE21	1:c:402:MET:HE3	1.78	0.48
1:d:341:GLN:HE21	1:d:402:MET:HE3	1.78	0.48
1:d:666:PHE:HE2	1:g:371:MET:HB2	1.78	0.48
1:j:341:GLN:HE21	1:j:402:MET:HE3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:341:GLN:HE21	1:l:402:MET:HE3	1.78	0.48
1:n:371:MET:HB2	1:w:666:PHE:HE2	1.78	0.48
1:t:341:GLN:HE21	1:t:402:MET:HE3	1.78	0.48
1:7:341:GLN:HE21	1:7:402:MET:HE3	1.78	0.48
2:Ah:102:MET:HE1	2:Ah:113:TYR:CE1	2.48	0.48
2:Dh:102:MET:HE1	2:Dh:113:TYR:CE1	2.48	0.48
2:Gh:41:CYS:HB3	2:Gh:98:LEU:HB3	1.95	0.48
2:Kh:102:MET:HE1	2:Kh:113:TYR:CE1	2.48	0.48
2:Vh:35:ARG:HG2	2:Vh:36:SER:N	2.28	0.48
2:1h:77:LYS:NZ	2:1h:77:LYS:CB	2.75	0.48
2:3h:77:LYS:NZ	2:3h:77:LYS:CB	2.75	0.48
2:5h:53:MET:HB3	2:5h:98:LEU:HD22	1.95	0.48
2:5h:63:GLY:CA	3:5l:108:TYR:CZ	2.94	0.48
2:5h:102:MET:HE1	2:5h:113:TYR:CE1	2.48	0.48
2:6h:77:LYS:NZ	2:6h:77:LYS:CB	2.75	0.48
2:6h:102:MET:HE1	2:6h:113:TYR:CE1	2.48	0.48
2:bh:41:CYS:HB3	2:bh:98:LEU:HB3	1.95	0.48
2:hh:41:CYS:HB3	2:hh:98:LEU:HB3	1.95	0.48
2:jh:35:ARG:HG2	2:jh:36:SER:N	2.28	0.48
2:kh:70:ILE:HD13	2:kh:91:ARG:HG2	1.94	0.48
2:lh:53:MET:HB3	2:lh:98:LEU:HD22	1.95	0.48
2:sh:41:CYS:HB3	2:sh:98:LEU:HB3	1.95	0.48
2:uh:70:ILE:HD13	2:uh:91:ARG:HG2	1.94	0.48
2:vh:35:ARG:HG2	2:vh:36:SER:N	2.28	0.48
3:Rl:82:ARG:HH12	3:Rl:100:GLN:CG	2.24	0.48
3:ol:82:ARG:HH12	3:ol:100:GLN:CG	2.24	0.48
3:pl:48:ASN:OD1	3:pl:49:ILE:N	2.36	0.48
3:8l:82:ARG:HH12	3:8l:100:GLN:CG	2.24	0.48
1:H:666:PHE:HE2	1:K:371:MET:HB2	1.78	0.48
1:N:341:GLN:HE21	1:N:402:MET:HE3	1.78	0.48
1:5:469:ASP:OD1	1:5:469:ASP:N	2.42	0.48
2:Ah:41:CYS:HB3	2:Ah:98:LEU:HB3	1.95	0.48
2:Dh:53:MET:HB3	2:Dh:98:LEU:HD22	1.95	0.48
2:Hh:53:MET:HB3	2:Hh:98:LEU:HD22	1.95	0.48
2:Rh:53:MET:HB3	2:Rh:98:LEU:HD22	1.95	0.48
2:Zh:53:MET:HB3	2:Zh:98:LEU:HD22	1.95	0.48
2:3h:53:MET:HB3	2:3h:98:LEU:HD22	1.95	0.48
2:3h:63:GLY:CA	3:3l:108:TYR:CZ	2.94	0.48
2:ah:70:ILE:HD13	2:ah:91:ARG:HG2	1.94	0.48
2:gh:53:MET:HB3	2:gh:98:LEU:HD22	1.95	0.48
2:kh:77:LYS:CD	2:kh:89:ILE:CG1	2.74	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oh:53:MET:HB3	2:oh:98:LEU:HD22	1.95	0.48
2:ph:102:MET:HE1	2:ph:113:TYR:CE1	2.48	0.48
2:qh:77:LYS:HB2	2:qh:77:LYS:HZ1	1.78	0.48
2:wh:77:LYS:NZ	2:wh:77:LYS:CB	2.75	0.48
2:xh:102:MET:HE1	2:xh:113:TYR:CE1	2.48	0.48
2:yh:53:MET:HB3	2:yh:98:LEU:HD22	1.95	0.48
2:8h:53:MET:HB3	2:8h:98:LEU:HD22	1.95	0.48
1:4:371:MET:HB2	1:r:666:PHE:HE2	1.78	0.48
1:g:710:VAL:O	1:g:713:THR:OG1	2.25	0.48
1:w:341:GLN:HE21	1:w:402:MET:HE3	1.78	0.48
1:x:371:MET:HB2	1:y:666:PHE:HE2	1.78	0.48
1:z:341:GLN:HE21	1:z:402:MET:HE3	1.78	0.48
2:Bh:70:ILE:HD13	2:Bh:91:ARG:HG2	1.94	0.48
2:Eh:77:LYS:HB2	2:Eh:77:LYS:HZ1	1.78	0.48
2:Fh:41:CYS:HB3	2:Fh:98:LEU:HB3	1.95	0.48
2:Ih:53:MET:HB3	2:Ih:98:LEU:HD22	1.95	0.48
2:Lh:77:LYS:HG2	2:Lh:89:ILE:HD11	1.90	0.48
2:Rh:70:ILE:HD13	2:Rh:91:ARG:HG2	1.94	0.48
2:Th:41:CYS:HB3	2:Th:98:LEU:HB3	1.95	0.48
2:Th:53:MET:HB3	2:Th:98:LEU:HD22	1.95	0.48
2:Th:77:LYS:HB2	2:Th:77:LYS:HZ1	1.76	0.48
2:1h:102:MET:HE1	2:1h:113:TYR:CE1	2.48	0.48
2:2h:77:LYS:NZ	2:2h:77:LYS:CB	2.75	0.48
2:3h:102:MET:HE1	2:3h:113:TYR:CE1	2.48	0.48
2:5h:77:LYS:NZ	2:5h:77:LYS:CB	2.75	0.48
2:eh:53:MET:HB3	2:eh:98:LEU:HD22	1.95	0.48
2:ih:77:LYS:HG2	2:ih:89:ILE:HD11	1.90	0.48
2:kh:53:MET:HB3	2:kh:98:LEU:HD22	1.95	0.48
2:lh:102:MET:HE1	2:lh:113:TYR:CE1	2.48	0.48
2:uh:102:MET:HE1	2:uh:113:TYR:CE1	2.48	0.48
2:yh:102:MET:HE1	2:yh:113:TYR:CE1	2.48	0.48
3:Il:82:ARG:HH12	3:Il:100:GLN:CG	2.24	0.48
1:U:469:ASP:OD1	1:U:469:ASP:N	2.42	0.48
1:W:341:GLN:HE21	1:W:402:MET:HE3	1.78	0.48
1:c:371:MET:HB2	1:l:666:PHE:HE2	1.79	0.48
1:q:666:PHE:HE2	1:t:371:MET:HB2	1.78	0.48
2:Ah:77:LYS:HB2	2:Ah:77:LYS:HZ1	1.78	0.48
2:Bh:102:MET:HE1	2:Bh:113:TYR:CE1	2.48	0.48
2:Fh:102:MET:HE1	2:Fh:113:TYR:CE1	2.48	0.48
2:Gh:53:MET:HB3	2:Gh:98:LEU:HD22	1.95	0.48
2:Hh:102:MET:HE1	2:Hh:113:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Rh:102:MET:HE1	2:Rh:113:TYR:CE1	2.48	0.48
2:Sh:102:MET:HE1	2:Sh:113:TYR:CE1	2.48	0.48
2:Vh:70:ILE:HD13	2:Vh:91:ARG:HG2	1.94	0.48
2:Yh:35:ARG:HG2	2:Yh:36:SER:N	2.28	0.48
2:Yh:102:MET:HE1	2:Yh:113:TYR:CE1	2.48	0.48
2:ch:53:MET:HB3	2:ch:98:LEU:HD22	1.95	0.48
2:gh:63:GLY:CA	3:gl:108:TYR:CZ	2.95	0.48
2:nh:53:MET:HB3	2:nh:98:LEU:HD22	1.95	0.48
2:ph:41:CYS:HB3	2:ph:98:LEU:HB3	1.95	0.48
2:wh:102:MET:HE1	2:wh:113:TYR:CE1	2.48	0.48
2:7h:35:ARG:HG2	2:7h:36:SER:N	2.28	0.48
2:7h:102:MET:HE1	2:7h:113:TYR:CE1	2.48	0.48
3:Ql:70:TYR:HD2	3:Ql:76:PRO:HG3	1.79	0.48
3:2l:48:ASN:OD1	3:2l:49:ILE:N	2.36	0.48
3:rl:70:TYR:HD2	3:rl:76:PRO:HG3	1.79	0.48
1:A:341:GLN:HE21	1:A:402:MET:HE3	1.78	0.48
1:B:666:PHE:HE2	1:P:371:MET:HB2	1.79	0.48
1:J:371:MET:HB2	1:i:666:PHE:HE2	1.79	0.48
1:N:371:MET:HB2	1:S:666:PHE:HE2	1.79	0.48
1:N:666:PHE:HE2	1:j:371:MET:HB2	1.79	0.48
1:V:371:MET:HB2	1:c:666:PHE:HE2	1.79	0.48
1:3:469:ASP:OD1	1:3:469:ASP:N	2.42	0.48
2:Fh:35:ARG:HG2	2:Fh:36:SER:N	2.28	0.48
2:Fh:63:GLY:CA	3:Fl:108:TYR:CZ	2.95	0.48
2:Gh:102:MET:HE1	2:Gh:113:TYR:CE1	2.48	0.48
2:Mh:53:MET:HB3	2:Mh:98:LEU:HD22	1.95	0.48
2:Nh:53:MET:HB3	2:Nh:98:LEU:HD22	1.95	0.48
2:Nh:102:MET:HE1	2:Nh:113:TYR:CE1	2.48	0.48
2:Ph:102:MET:HE1	2:Ph:113:TYR:CE1	2.48	0.48
2:Qh:41:CYS:HB3	2:Qh:98:LEU:HB3	1.95	0.48
2:Xh:53:MET:HB3	2:Xh:98:LEU:HD22	1.95	0.48
2:Yh:41:CYS:HB3	2:Yh:98:LEU:HB3	1.95	0.48
2:Zh:41:CYS:HB3	2:Zh:98:LEU:HB3	1.95	0.48
2:fh:70:ILE:HD13	2:fh:91:ARG:HG2	1.94	0.48
2:gh:41:CYS:HB3	2:gh:98:LEU:HB3	1.95	0.48
2:ih:53:MET:HB3	2:ih:98:LEU:HD22	1.95	0.48
2:jh:53:MET:HB3	2:jh:98:LEU:HD22	1.95	0.48
2:jh:70:ILE:HD13	2:jh:91:ARG:HG2	1.94	0.48
2:kh:102:MET:HE1	2:kh:113:TYR:CE1	2.48	0.48
2:nh:102:MET:HE1	2:nh:113:TYR:CE1	2.48	0.48
2:sh:35:ARG:HG2	2:sh:36:SER:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:sh:53:MET:HB3	2:sh:98:LEU:HD22	1.95	0.48
2:sh:70:ILE:HD13	2:sh:91:ARG:HG2	1.94	0.48
2:sh:102:MET:HE1	2:sh:113:TYR:CE1	2.48	0.48
2:7h:41:CYS:HB3	2:7h:98:LEU:HB3	1.95	0.48
2:8h:41:CYS:HB3	2:8h:98:LEU:HB3	1.95	0.48
3:Bl:70:TYR:HD2	3:Bl:76:PRO:HG3	1.79	0.48
3:Ul:70:TYR:HD2	3:Ul:76:PRO:HG3	1.79	0.48
3:3l:70:TYR:HD2	3:3l:76:PRO:HG3	1.79	0.48
3:ul:82:ARG:HH12	3:ul:100:GLN:CG	2.24	0.48
1:E:666:PHE:HE2	1:L:371:MET:HB2	1.79	0.48
1:S:469:ASP:OD1	1:S:469:ASP:N	2.42	0.48
1:W:710:VAL:O	1:W:713:THR:OG1	2.25	0.48
1:X:666:PHE:HE2	1:v:371:MET:HB2	1.79	0.48
1:d:371:MET:HB2	1:u:666:PHE:HE2	1.79	0.48
1:p:341:GLN:HE21	1:p:402:MET:HE3	1.78	0.48
2:Fh:53:MET:HB3	2:Fh:98:LEU:HD22	1.95	0.48
2:Fh:70:ILE:HD13	2:Fh:91:ARG:HG2	1.94	0.48
2:Ih:41:CYS:HB3	2:Ih:98:LEU:HB3	1.95	0.48
2:Oh:102:MET:HE1	2:Oh:113:TYR:CE1	2.48	0.48
2:Ph:53:MET:HB3	2:Ph:98:LEU:HD22	1.95	0.48
2:Th:63:GLY:CA	3:Tl:108:TYR:CZ	2.95	0.48
2:Vh:53:MET:HB3	2:Vh:98:LEU:HD22	1.95	0.48
2:Xh:41:CYS:HB3	2:Xh:98:LEU:HB3	1.95	0.48
2:Xh:102:MET:HE1	2:Xh:113:TYR:CE1	2.48	0.48
2:bh:53:MET:HB3	2:bh:98:LEU:HD22	1.95	0.48
2:ch:102:MET:HE1	2:ch:113:TYR:CE1	2.48	0.48
2:dh:41:CYS:HB3	2:dh:98:LEU:HB3	1.95	0.48
2:dh:53:MET:HB3	2:dh:98:LEU:HD22	1.95	0.48
2:fh:102:MET:HE1	2:fh:113:TYR:CE1	2.48	0.48
2:ph:77:LYS:HB2	2:ph:77:LYS:HZ1	1.78	0.48
2:rh:41:CYS:HB3	2:rh:98:LEU:HB3	1.95	0.48
2:wh:28:GLY:HA3	2:wh:145:THR:HG22	1.96	0.48
2:wh:53:MET:HB3	2:wh:98:LEU:HD22	1.95	0.48
3:Al:114:ASP:OD1	3:Al:115:SER:N	2.47	0.48
3:5l:70:TYR:HD2	3:5l:76:PRO:HG3	1.79	0.48
3:cl:114:ASP:OD1	3:cl:115:SER:N	2.47	0.48
3:jl:70:TYR:HD2	3:jl:76:PRO:HG3	1.79	0.48
3:ml:70:TYR:HD2	3:ml:76:PRO:HG3	1.79	0.48
3:sl:82:ARG:HH12	3:sl:100:GLN:CG	2.24	0.48
3:ul:70:TYR:HD2	3:ul:76:PRO:HG3	1.79	0.48
1:S:371:MET:HB2	1:b:666:PHE:HE2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:666:PHE:HE2	1:e:371:MET:HB2	1.79	0.48
1:2:666:PHE:HE2	1:8:371:MET:HB2	1.78	0.48
1:m:469:ASP:OD1	1:m:469:ASP:N	2.42	0.48
1:z:710:VAL:O	1:z:713:THR:OG1	2.25	0.48
2:Ih:70:ILE:HD13	2:Ih:91:ARG:HG2	1.94	0.48
2:Uh:28:GLY:HA3	2:Uh:145:THR:HG22	1.96	0.48
2:Vh:28:GLY:HA3	2:Vh:145:THR:HG22	1.96	0.48
2:1h:28:GLY:HA3	2:1h:145:THR:HG22	1.96	0.48
2:1h:53:MET:HB3	2:1h:98:LEU:HD22	1.95	0.48
2:dh:102:MET:HE1	2:dh:113:TYR:CE1	2.48	0.48
2:hh:63:GLY:CA	3:hl:108:TYR:CZ	2.96	0.48
2:ih:102:MET:HE1	2:ih:113:TYR:CE1	2.48	0.48
2:jh:28:GLY:HA3	2:jh:145:THR:HG22	1.96	0.48
2:mh:28:GLY:HA3	2:mh:145:THR:HG22	1.96	0.48
2:oh:41:CYS:HB3	2:oh:98:LEU:HB3	1.95	0.48
2:th:77:LYS:HG2	2:th:89:ILE:HD11	1.90	0.48
2:zh:35:ARG:HG2	2:zh:36:SER:N	2.28	0.48
3:Fl:82:ARG:HH12	3:Fl:100:GLN:CG	2.24	0.48
3:Ll:70:TYR:HD2	3:Ll:76:PRO:HG3	1.79	0.48
3:Vl:70:TYR:HD2	3:Vl:76:PRO:HG3	1.79	0.48
3:fl:114:ASP:OD1	3:fl:115:SER:N	2.47	0.48
3:ol:70:TYR:HD2	3:ol:76:PRO:HG3	1.79	0.48
3:pl:114:ASP:OD1	3:pl:115:SER:N	2.47	0.48
3:yl:114:ASP:OD1	3:yl:115:SER:N	2.47	0.48
3:7l:82:ARG:HH12	3:7l:100:GLN:CG	2.24	0.48
3:8l:70:TYR:HD2	3:8l:76:PRO:HG3	1.79	0.48
1:D:371:MET:HB2	1:m:666:PHE:HE2	1.79	0.48
1:M:666:PHE:HE2	1:l:371:MET:HB2	1.79	0.48
1:4:710:VAL:O	1:4:713:THR:OG1	2.25	0.48
1:l:469:ASP:OD1	1:l:469:ASP:N	2.42	0.48
1:q:341:GLN:HE21	1:q:402:MET:HE3	1.78	0.48
2:Eh:102:MET:HE1	2:Eh:113:TYR:CE1	2.48	0.48
2:Lh:28:GLY:HA3	2:Lh:145:THR:HG22	1.96	0.48
2:Oh:70:ILE:HD13	2:Oh:91:ARG:HG2	1.95	0.48
2:Ph:41:CYS:HB3	2:Ph:98:LEU:HB3	1.95	0.48
2:Qh:35:ARG:HG2	2:Qh:36:SER:N	2.28	0.48
2:Rh:77:LYS:CD	2:Rh:89:ILE:CG1	2.74	0.48
2:Wh:35:ARG:HG2	2:Wh:36:SER:N	2.28	0.48
2:4h:28:GLY:HA3	2:4h:145:THR:HG22	1.96	0.48
2:bh:28:GLY:HA3	2:bh:145:THR:HG22	1.96	0.48
2:ih:41:CYS:HB3	2:ih:98:LEU:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oh:77:LYS:CD	2:oh:89:ILE:CG1	2.74	0.48
2:qh:102:MET:HE1	2:qh:113:TYR:CE1	2.48	0.48
2:rh:35:ARG:HG2	2:rh:36:SER:N	2.29	0.48
2:rh:53:MET:HB3	2:rh:98:LEU:HD22	1.95	0.48
2:th:28:GLY:HA3	2:th:145:THR:HG22	1.96	0.48
2:zh:28:GLY:HA3	2:zh:145:THR:HG22	1.96	0.48
3:Al:70:TYR:HD2	3:Al:76:PRO:HG3	1.79	0.48
3:Il:70:TYR:HD2	3:Il:76:PRO:HG3	1.79	0.48
3:Il:114:ASP:OD1	3:Il:115:SER:N	2.47	0.48
3:Ol:114:ASP:OD1	3:Ol:115:SER:N	2.47	0.48
3:Rl:60:LEU:HD23	3:Rl:105:ALA:HB2	1.96	0.48
3:Zl:60:LEU:HD23	3:Zl:105:ALA:HB2	1.96	0.48
3:4l:60:LEU:HD23	3:4l:105:ALA:HB2	1.96	0.48
3:fl:60:LEU:HD23	3:fl:105:ALA:HB2	1.96	0.48
3:hl:60:LEU:HD23	3:hl:105:ALA:HB2	1.96	0.48
3:kl:60:LEU:HD23	3:kl:105:ALA:HB2	1.96	0.48
3:rl:60:LEU:HD23	3:rl:105:ALA:HB2	1.96	0.48
3:8l:60:LEU:HD23	3:8l:105:ALA:HB2	1.96	0.48
1:I:710:VAL:O	1:I:713:THR:OG1	2.25	0.48
2:Hh:70:ILE:HD13	2:Hh:91:ARG:HG2	1.94	0.48
2:Lh:102:MET:HE1	2:Lh:113:TYR:CE1	2.48	0.48
2:Mh:28:GLY:HA3	2:Mh:145:THR:HG22	1.96	0.48
2:Wh:28:GLY:HA3	2:Wh:145:THR:HG22	1.96	0.48
2:eh:28:GLY:HA3	2:eh:145:THR:HG22	1.96	0.48
2:lh:77:LYS:HG2	2:lh:89:ILE:HD11	1.90	0.48
2:mh:112:VAL:CG1	2:mh:143:GLY:O	2.52	0.48
2:oh:70:ILE:HD13	2:oh:91:ARG:HG2	1.94	0.48
2:th:102:MET:HE1	2:th:113:TYR:CE1	2.48	0.48
2:yh:70:ILE:HD13	2:yh:91:ARG:HG2	1.94	0.48
3:El:70:TYR:HD2	3:El:76:PRO:HG3	1.79	0.48
3:Fl:70:TYR:HD2	3:Fl:76:PRO:HG3	1.79	0.48
3:Jl:60:LEU:HD23	3:Jl:105:ALA:HB2	1.96	0.48
3:Ml:114:ASP:OD1	3:Ml:115:SER:N	2.47	0.48
3:Ol:60:LEU:HD23	3:Ol:105:ALA:HB2	1.96	0.48
3:Ql:60:LEU:HD23	3:Ql:105:ALA:HB2	1.96	0.48
3:Zl:70:TYR:HD2	3:Zl:76:PRO:HG3	1.79	0.48
3:6l:82:ARG:HH12	3:6l:100:GLN:CG	2.24	0.48
3:sl:70:TYR:HD2	3:sl:76:PRO:HG3	1.79	0.48
3:tl:70:TYR:HD2	3:tl:76:PRO:HG3	1.79	0.48
3:vl:60:LEU:HD23	3:vl:105:ALA:HB2	1.96	0.48
3:vl:82:ARG:HH12	3:vl:100:GLN:CG	2.24	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:469:ASP:OD1	1:E:469:ASP:N	2.42	0.47
1:H:371:MET:HB2	1:R:666:PHE:HE2	1.79	0.47
1:O:666:PHE:HE2	1:R:371:MET:HB2	1.79	0.47
1:m:565:ILE:HD12	1:m:569:ASN:HD22	1.79	0.47
2:Ch:102:MET:HE1	2:Ch:113:TYR:CE1	2.48	0.47
2:Ih:28:GLY:HA3	2:Ih:145:THR:HG22	1.96	0.47
2:Lh:53:MET:HB3	2:Lh:98:LEU:HD22	1.95	0.47
2:Qh:53:MET:HB3	2:Qh:98:LEU:HD22	1.95	0.47
2:4h:35:ARG:HG2	2:4h:36:SER:N	2.28	0.47
2:6h:70:ILE:HD13	2:6h:91:ARG:HG2	1.94	0.47
2:ch:28:GLY:HA3	2:ch:145:THR:HG22	1.96	0.47
2:hh:28:GLY:HA3	2:hh:145:THR:HG22	1.96	0.47
2:hh:35:ARG:HG2	2:hh:36:SER:N	2.28	0.47
3:Pl:60:LEU:HD23	3:Pl:105:ALA:HB2	1.96	0.47
3:1l:60:LEU:HD23	3:1l:105:ALA:HB2	1.96	0.47
3:bl:114:ASP:OD1	3:bl:115:SER:N	2.47	0.47
3:nl:82:ARG:HH12	3:nl:100:GLN:CG	2.24	0.47
3:ol:114:ASP:OD1	3:ol:115:SER:N	2.47	0.47
3:xl:70:TYR:HD2	3:xl:76:PRO:HG3	1.79	0.47
1:C:371:MET:HB2	1:7:666:PHE:HE2	1.79	0.47
1:D:341:GLN:HE21	1:D:402:MET:HE3	1.78	0.47
1:E:341:GLN:HE21	1:E:402:MET:HE3	1.78	0.47
1:I:565:ILE:HD12	1:I:569:ASN:HD22	1.80	0.47
1:I:666:PHE:HE2	1:w:371:MET:HB2	1.78	0.47
1:Q:371:MET:HB2	1:W:666:PHE:HE2	1.78	0.47
1:S:565:ILE:HD12	1:S:569:ASN:HD22	1.79	0.47
1:U:565:ILE:HD12	1:U:569:ASN:HD22	1.79	0.47
1:V:565:ILE:HD12	1:V:569:ASN:HD22	1.79	0.47
1:3:341:GLN:HE21	1:3:402:MET:HE3	1.78	0.47
1:5:341:GLN:HE21	1:5:402:MET:HE3	1.78	0.47
1:5:666:PHE:HE2	1:f:371:MET:HB2	1.78	0.47
1:e:341:GLN:HE21	1:e:402:MET:HE3	1.78	0.47
1:f:666:PHE:HE2	1:k:371:MET:HB2	1.79	0.47
1:r:371:MET:HB2	1:z:666:PHE:HE2	1.78	0.47
2:Ch:53:MET:HB3	2:Ch:98:LEU:HD22	1.95	0.47
2:Dh:28:GLY:HA3	2:Dh:145:THR:HG22	1.96	0.47
2:Gh:35:ARG:HG2	2:Gh:36:SER:N	2.28	0.47
2:Lh:35:ARG:HG2	2:Lh:36:SER:N	2.28	0.47
2:Nh:28:GLY:HA3	2:Nh:145:THR:HG22	1.96	0.47
2:Qh:28:GLY:HA3	2:Qh:145:THR:HG22	1.96	0.47
2:Qh:102:MET:HE1	2:Qh:113:TYR:CE1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Th:35:ARG:HG2	2:Th:36:SER:N	2.28	0.47
2:2h:63:GLY:CA	3:2l:108:TYR:CZ	2.94	0.47
2:2h:77:LYS:CD	2:2h:89:ILE:CG1	2.74	0.47
2:oh:28:GLY:HA3	2:oh:145:THR:HG22	1.96	0.47
2:rh:28:GLY:HA3	2:rh:145:THR:HG22	1.96	0.47
2:8h:35:ARG:HG2	2:8h:36:SER:N	2.28	0.47
2:8h:70:ILE:HD13	2:8h:91:ARG:HG2	1.95	0.47
3:Hl:70:TYR:HD2	3:Hl:76:PRO:HG3	1.79	0.47
3:Kl:70:TYR:HD2	3:Kl:76:PRO:HG3	1.79	0.47
3:Sl:114:ASP:OD1	3:Sl:115:SER:N	2.47	0.47
3:Tl:70:TYR:HD2	3:Tl:76:PRO:HG3	1.79	0.47
3:Vl:60:LEU:HD23	3:Vl:105:ALA:HB2	1.96	0.47
3:dl:60:LEU:HD23	3:dl:105:ALA:HB2	1.96	0.47
3:jl:60:LEU:HD23	3:jl:105:ALA:HB2	1.96	0.47
3:ql:70:TYR:HD2	3:ql:76:PRO:HG3	1.79	0.47
3:yl:70:TYR:HD2	3:yl:76:PRO:HG3	1.79	0.47
3:zl:60:LEU:HD23	3:zl:105:ALA:HB2	1.96	0.47
3:zl:70:TYR:HD2	3:zl:76:PRO:HG3	1.79	0.47
1:H:341:GLN:HE21	1:H:402:MET:HE3	1.78	0.47
1:N:565:ILE:HD12	1:N:569:ASN:HD22	1.79	0.47
1:O:224:SER:H	1:3:407:ASN:HD21	1.63	0.47
1:T:341:GLN:HE21	1:T:402:MET:HE3	1.78	0.47
1:U:482:CYS:SG	1:U:576:TYR:HB2	2.55	0.47
1:Y:666:PHE:HE2	1:a:371:MET:HB2	1.79	0.47
1:a:482:CYS:SG	1:a:576:TYR:HB2	2.55	0.47
1:c:565:ILE:HD12	1:c:569:ASN:HD22	1.79	0.47
1:j:565:ILE:HD12	1:j:569:ASN:HD22	1.80	0.47
1:k:666:PHE:HE2	1:y:371:MET:HB2	1.79	0.47
1:l:565:ILE:HD12	1:l:569:ASN:HD22	1.79	0.47
1:o:565:ILE:HD12	1:o:569:ASN:HD22	1.80	0.47
1:q:469:ASP:OD1	1:q:469:ASP:N	2.42	0.47
1:y:341:GLN:HE21	1:y:402:MET:HE3	1.78	0.47
2:Dh:41:CYS:HB3	2:Dh:98:LEU:HB3	1.95	0.47
2:Kh:35:ARG:HG2	2:Kh:36:SER:N	2.28	0.47
2:Oh:28:GLY:HA3	2:Oh:145:THR:HG22	1.96	0.47
2:Ph:35:ARG:HG2	2:Ph:36:SER:N	2.28	0.47
2:Zh:28:GLY:HA3	2:Zh:145:THR:HG22	1.96	0.47
2:Zh:70:ILE:HD13	2:Zh:91:ARG:HG2	1.95	0.47
2:3h:41:CYS:HB3	2:3h:98:LEU:HB3	1.95	0.47
2:6h:63:GLY:CA	3:6l:108:TYR:CZ	2.94	0.47
2:6h:77:LYS:CD	2:6h:89:ILE:CG1	2.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ah:102:MET:HE1	2:ah:113:TYR:CE1	2.48	0.47
2:ch:41:CYS:HB3	2:ch:98:LEU:HB3	1.95	0.47
2:eh:35:ARG:HG2	2:eh:36:SER:N	2.28	0.47
2:fh:28:GLY:HA3	2:fh:145:THR:HG22	1.96	0.47
2:fh:63:GLY:CA	3:fl:108:TYR:CZ	2.96	0.47
2:kh:28:GLY:HA3	2:kh:145:THR:HG22	1.96	0.47
2:nh:35:ARG:HG2	2:nh:36:SER:N	2.28	0.47
2:rh:102:MET:HE1	2:rh:113:TYR:CE1	2.48	0.47
2:th:53:MET:HB3	2:th:98:LEU:HD22	1.95	0.47
2:xh:35:ARG:HG2	2:xh:36:SER:N	2.28	0.47
2:8h:28:GLY:HA3	2:8h:145:THR:HG22	1.96	0.47
3:Il:60:LEU:HD23	3:Il:105:ALA:HB2	1.96	0.47
3:Jl:82:ARG:HH12	3:Jl:100:GLN:CG	2.24	0.47
3:Wl:60:LEU:HD23	3:Wl:105:ALA:HB2	1.96	0.47
3:Wl:70:TYR:HD2	3:Wl:76:PRO:HG3	1.79	0.47
3:fl:70:TYR:HD2	3:fl:76:PRO:HG3	1.79	0.47
3:ll:114:ASP:OD1	3:ll:115:SER:N	2.47	0.47
3:pl:70:TYR:HD2	3:pl:76:PRO:HG3	1.79	0.47
3:wl:60:LEU:HD23	3:wl:105:ALA:HB2	1.96	0.47
1:C:482:CYS:SG	1:C:576:TYR:HB2	2.55	0.47
1:L:482:CYS:SG	1:L:576:TYR:HB2	2.55	0.47
1:N:482:CYS:SG	1:N:576:TYR:HB2	2.55	0.47
1:R:565:ILE:HD12	1:R:569:ASN:HD22	1.79	0.47
1:X:482:CYS:SG	1:X:576:TYR:HB2	2.55	0.47
1:5:407:ASN:HD21	1:f:224:SER:H	1.63	0.47
1:6:482:CYS:SG	1:6:576:TYR:HB2	2.55	0.47
1:c:482:CYS:SG	1:c:576:TYR:HB2	2.55	0.47
1:g:341:GLN:HE21	1:g:402:MET:HE3	1.78	0.47
1:i:482:CYS:SG	1:i:576:TYR:HB2	2.55	0.47
1:m:371:MET:HB2	1:n:666:PHE:HE2	1.78	0.47
1:m:482:CYS:SG	1:m:576:TYR:HB2	2.55	0.47
1:o:710:VAL:O	1:o:713:THR:OG1	2.25	0.47
1:t:482:CYS:SG	1:t:576:TYR:HB2	2.55	0.47
2:Eh:28:GLY:HA3	2:Eh:145:THR:HG22	1.96	0.47
2:Eh:53:MET:HB3	2:Eh:98:LEU:HD22	1.95	0.47
2:Nh:41:CYS:HB3	2:Nh:98:LEU:HB3	1.95	0.47
2:Nh:63:GLY:CA	3:Nl:108:TYR:CZ	2.96	0.47
2:Oh:63:GLY:CA	3:Ol:108:TYR:CZ	2.96	0.47
2:Rh:28:GLY:HA3	2:Rh:145:THR:HG22	1.96	0.47
2:Sh:77:LYS:HG2	2:Sh:89:ILE:HD11	1.90	0.47
2:Zh:35:ARG:HG2	2:Zh:36:SER:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2h:41:CYS:HB3	2:2h:98:LEU:HB3	1.95	0.47
2:6h:41:CYS:HB3	2:6h:98:LEU:HB3	1.95	0.47
2:ah:53:MET:HB3	2:ah:98:LEU:HD22	1.95	0.47
2:dh:35:ARG:HG2	2:dh:36:SER:N	2.28	0.47
2:eh:41:CYS:HB3	2:eh:98:LEU:HB3	1.95	0.47
2:gh:35:ARG:HG2	2:gh:36:SER:N	2.28	0.47
2:qh:28:GLY:HA3	2:qh:145:THR:HG22	1.96	0.47
2:th:35:ARG:HG2	2:th:36:SER:N	2.28	0.47
2:vh:28:GLY:HA3	2:vh:145:THR:HG22	1.96	0.47
3:Bl:60:LEU:HD23	3:Bl:105:ALA:HB2	1.96	0.47
3:Gl:82:ARG:HH12	3:Gl:100:GLN:CG	2.24	0.47
3:Ol:70:TYR:HD2	3:Ol:76:PRO:HG3	1.79	0.47
3:Xl:60:LEU:HD23	3:Xl:105:ALA:HB2	1.96	0.47
3:Yl:70:TYR:HD2	3:Yl:76:PRO:HG3	1.79	0.47
3:el:70:TYR:HD2	3:el:76:PRO:HG3	1.79	0.47
3:gl:70:TYR:HD2	3:gl:76:PRO:HG3	1.79	0.47
3:ol:60:LEU:HD23	3:ol:105:ALA:HB2	1.96	0.47
3:7l:70:TYR:HD2	3:7l:76:PRO:HG3	1.79	0.47
1:E:482:CYS:SG	1:E:576:TYR:HB2	2.55	0.47
1:F:565:ILE:HD12	1:F:569:ASN:HD22	1.80	0.47
1:F:666:PHE:HE2	1:X:371:MET:HB2	1.79	0.47
1:G:666:PHE:HE2	1:U:371:MET:HB2	1.79	0.47
1:J:666:PHE:HE2	1:Y:371:MET:HB2	1.79	0.47
1:O:371:MET:HB2	1:3:666:PHE:HE2	1.78	0.47
1:Q:565:ILE:HD12	1:Q:569:ASN:HD22	1.80	0.47
1:S:482:CYS:SG	1:S:576:TYR:HB2	2.55	0.47
1:k:565:ILE:HD12	1:k:569:ASN:HD22	1.79	0.47
1:l:482:CYS:SG	1:l:576:TYR:HB2	2.55	0.47
1:r:341:GLN:HE21	1:r:402:MET:HE3	1.78	0.47
1:r:565:ILE:HD12	1:r:569:ASN:HD22	1.80	0.47
1:s:565:ILE:HD12	1:s:569:ASN:HD22	1.80	0.47
1:t:565:ILE:HD12	1:t:569:ASN:HD22	1.79	0.47
1:w:482:CYS:SG	1:w:576:TYR:HB2	2.55	0.47
2:Bh:35:ARG:HG2	2:Bh:36:SER:N	2.28	0.47
2:Gh:28:GLY:HA3	2:Gh:145:THR:HG22	1.96	0.47
2:Uh:112:VAL:CG1	2:Uh:143:GLY:O	2.52	0.47
2:Wh:77:LYS:HB2	2:Wh:77:LYS:HZ1	1.79	0.47
2:2h:28:GLY:HA3	2:2h:145:THR:HG22	1.96	0.47
2:2h:70:ILE:HD13	2:2h:91:ARG:HG2	1.94	0.47
2:3h:35:ARG:HG2	2:3h:36:SER:N	2.28	0.47
2:5h:35:ARG:HG2	2:5h:36:SER:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5h:41:CYS:HB3	2:5h:98:LEU:HB3	1.95	0.47
2:6h:28:GLY:HA3	2:6h:145:THR:HG22	1.96	0.47
2:ch:63:GLY:CA	3:cl:108:TYR:CZ	2.96	0.47
2:nh:28:GLY:HA3	2:nh:145:THR:HG22	1.96	0.47
2:zh:77:LYS:HB2	2:zh:77:LYS:HZ1	1.79	0.47
3:Dl:60:LEU:HD23	3:Dl:105:ALA:HB2	1.96	0.47
3:Fl:60:LEU:HD23	3:Fl:105:ALA:HB2	1.96	0.47
3:Jl:70:TYR:HD2	3:Jl:76:PRO:HG3	1.79	0.47
3:il:70:TYR:HD2	3:il:76:PRO:HG3	1.79	0.47
3:ul:60:LEU:HD23	3:ul:105:ALA:HB2	1.96	0.47
1:A:224:SER:H	1:V:407:ASN:HD21	1.62	0.47
1:B:371:MET:HB2	1:Z:666:PHE:HE2	1.79	0.47
1:B:482:CYS:SG	1:B:576:TYR:HB2	2.55	0.47
1:D:482:CYS:SG	1:D:576:TYR:HB2	2.55	0.47
1:L:565:ILE:HD12	1:L:569:ASN:HD22	1.79	0.47
1:O:482:CYS:SG	1:O:576:TYR:HB2	2.55	0.47
1:Q:341:GLN:HE21	1:Q:402:MET:HE3	1.78	0.47
1:1:482:CYS:SG	1:1:576:TYR:HB2	2.55	0.47
1:2:482:CYS:SG	1:2:576:TYR:HB2	2.55	0.47
1:e:482:CYS:SG	1:e:576:TYR:HB2	2.55	0.47
1:f:482:CYS:SG	1:f:576:TYR:HB2	2.55	0.47
1:h:482:CYS:SG	1:h:576:TYR:HB2	2.55	0.47
1:j:407:ASN:HD21	1:p:224:SER:H	1.62	0.47
1:q:482:CYS:SG	1:q:576:TYR:HB2	2.55	0.47
1:x:482:CYS:SG	1:x:576:TYR:HB2	2.55	0.47
2:Dh:35:ARG:HG2	2:Dh:36:SER:N	2.28	0.47
2:Eh:35:ARG:HG2	2:Eh:36:SER:N	2.28	0.47
2:Jh:28:GLY:HA3	2:Jh:145:THR:HG22	1.96	0.47
2:Kh:77:LYS:CD	2:Kh:89:ILE:CG1	2.74	0.47
2:Lh:41:CYS:HB3	2:Lh:98:LEU:HB3	1.95	0.47
2:Rh:41:CYS:HB3	2:Rh:98:LEU:HB3	1.95	0.47
2:4h:53:MET:HB3	2:4h:98:LEU:HD22	1.95	0.47
2:xh:77:LYS:CD	2:xh:89:ILE:CG1	2.74	0.47
3:Dl:70:TYR:HD2	3:Dl:76:PRO:HG3	1.79	0.47
3:Pl:82:ARG:HH12	3:Pl:100:GLN:CG	2.24	0.47
3:al:70:TYR:HD2	3:al:76:PRO:HG3	1.79	0.47
3:el:60:LEU:HD23	3:el:105:ALA:HB2	1.96	0.47
3:il:60:LEU:HD23	3:il:105:ALA:HB2	1.96	0.47
3:tl:60:LEU:HD23	3:tl:105:ALA:HB2	1.96	0.47
3:vl:70:TYR:HD2	3:vl:76:PRO:HG3	1.79	0.47
3:7l:60:LEU:HD23	3:7l:105:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:407:ASN:HD21	1:L:224:SER:H	1.63	0.47
1:E:565:ILE:HD12	1:E:569:ASN:HD22	1.80	0.47
1:I:341:GLN:HE21	1:I:402:MET:HE3	1.78	0.47
1:K:407:ASN:HD21	1:3:224:SER:H	1.63	0.47
1:K:482:CYS:SG	1:K:576:TYR:HB2	2.55	0.47
1:T:407:ASN:HD21	1:6:224:SER:H	1.63	0.47
1:W:482:CYS:SG	1:W:576:TYR:HB2	2.55	0.47
1:W:565:ILE:HD12	1:W:569:ASN:HD22	1.80	0.47
1:Y:565:ILE:HD12	1:Y:569:ASN:HD22	1.79	0.47
1:Z:482:CYS:SG	1:Z:576:TYR:HB2	2.55	0.47
1:4:482:CYS:SG	1:4:576:TYR:HB2	2.55	0.47
1:4:565:ILE:HD12	1:4:569:ASN:HD22	1.80	0.47
1:5:224:SER:H	1:x:407:ASN:HD21	1.63	0.47
1:5:371:MET:HB2	1:x:666:PHE:HE2	1.78	0.47
1:e:666:PHE:HE2	1:o:371:MET:HB2	1.79	0.47
1:h:565:ILE:HD12	1:h:569:ASN:HD22	1.80	0.47
1:i:371:MET:HB2	1:s:666:PHE:HE2	1.79	0.47
1:o:341:GLN:HE21	1:o:402:MET:HE3	1.78	0.47
1:o:482:CYS:SG	1:o:576:TYR:HB2	2.55	0.47
1:q:407:ASN:HD21	1:t:224:SER:H	1.63	0.47
1:q:565:ILE:HD12	1:q:569:ASN:HD22	1.80	0.47
1:u:371:MET:HB2	1:8:666:PHE:HE2	1.79	0.47
1:u:482:CYS:SG	1:u:576:TYR:HB2	2.55	0.47
1:v:666:PHE:HE2	1:7:371:MET:HB2	1.79	0.47
1:z:482:CYS:SG	1:z:576:TYR:HB2	2.55	0.47
1:7:482:CYS:SG	1:7:576:TYR:HB2	2.55	0.47
1:7:565:ILE:HD12	1:7:569:ASN:HD22	1.79	0.47
2:Fh:28:GLY:HA3	2:Fh:145:THR:HG22	1.96	0.47
2:Ih:63:GLY:CA	3:Il:108:TYR:CZ	2.95	0.47
2:Nh:35:ARG:HG2	2:Nh:36:SER:N	2.28	0.47
2:Oh:77:LYS:HG2	2:Oh:89:ILE:HD11	1.90	0.47
2:Sh:63:GLY:CA	3:Sl:108:TYR:CZ	2.96	0.47
2:Uh:63:GLY:CA	3:Ul:108:TYR:CZ	2.96	0.47
2:3h:28:GLY:HA3	2:3h:145:THR:HG22	1.96	0.47
2:5h:28:GLY:HA3	2:5h:145:THR:HG22	1.96	0.47
2:ah:35:ARG:HG2	2:ah:36:SER:N	2.28	0.47
2:hh:53:MET:HB3	2:hh:98:LEU:HD22	1.95	0.47
2:kh:41:CYS:HB3	2:kh:98:LEU:HB3	1.95	0.47
2:qh:35:ARG:HG2	2:qh:36:SER:N	2.28	0.47
2:qh:53:MET:HB3	2:qh:98:LEU:HD22	1.95	0.47
2:th:41:CYS:HB3	2:th:98:LEU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:th:77:LYS:CD	2:th:89:ILE:CG1	2.74	0.47
2:uh:35:ARG:HG2	2:uh:36:SER:N	2.28	0.47
2:wh:35:ARG:HG2	2:wh:36:SER:N	2.28	0.47
2:xh:41:CYS:HB3	2:xh:98:LEU:HB3	1.95	0.47
3:Cl:70:TYR:HD2	3:Cl:76:PRO:HG3	1.79	0.47
3:El:60:LEU:HD23	3:El:105:ALA:HB2	1.96	0.47
3:Ll:60:LEU:HD23	3:Ll:105:ALA:HB2	1.96	0.47
3:Rl:114:ASP:OD1	3:Rl:115:SER:N	2.47	0.47
3:Tl:60:LEU:HD23	3:Tl:105:ALA:HB2	1.96	0.47
3:Xl:70:TYR:HD2	3:Xl:76:PRO:HG3	1.79	0.47
3:Yl:60:LEU:HD23	3:Yl:105:ALA:HB2	1.96	0.47
3:3l:60:LEU:HD23	3:3l:105:ALA:HB2	1.96	0.47
3:5l:60:LEU:HD23	3:5l:105:ALA:HB2	1.96	0.47
3:dl:82:ARG:HH12	3:dl:100:GLN:CG	2.24	0.47
3:hl:70:TYR:HD2	3:hl:76:PRO:HG3	1.79	0.47
3:kl:114:ASP:OD1	3:kl:115:SER:N	2.47	0.47
3:sl:60:LEU:HD23	3:sl:105:ALA:HB2	1.96	0.47
1:D:666:PHE:HE2	1:I:371:MET:HB2	1.79	0.47
1:H:565:ILE:HD12	1:H:569:ASN:HD22	1.79	0.47
1:J:482:CYS:SG	1:J:576:TYR:HB2	2.55	0.47
1:K:666:PHE:HE2	1:3:371:MET:HB2	1.78	0.47
1:O:565:ILE:HD12	1:O:569:ASN:HD22	1.80	0.47
1:T:482:CYS:SG	1:T:576:TYR:HB2	2.55	0.47
1:V:482:CYS:SG	1:V:576:TYR:HB2	2.55	0.47
1:Y:482:CYS:SG	1:Y:576:TYR:HB2	2.55	0.47
1:2:224:SER:H	1:g:407:ASN:HD21	1.63	0.47
1:g:482:CYS:SG	1:g:576:TYR:HB2	2.55	0.47
1:j:482:CYS:SG	1:j:576:TYR:HB2	2.55	0.47
1:s:482:CYS:SG	1:s:576:TYR:HB2	2.55	0.47
1:y:565:ILE:HD12	1:y:569:ASN:HD22	1.79	0.47
1:z:565:ILE:HD12	1:z:569:ASN:HD22	1.80	0.47
1:8:482:CYS:SG	1:8:576:TYR:HB2	2.55	0.47
2:Ah:77:LYS:CD	2:Ah:89:ILE:CG1	2.74	0.47
2:Jh:63:GLY:CA	3:Jl:108:TYR:CZ	2.96	0.47
2:Oh:35:ARG:HG2	2:Oh:36:SER:N	2.28	0.47
2:Uh:53:MET:HB3	2:Uh:98:LEU:HD22	1.95	0.47
2:1h:35:ARG:HG2	2:1h:36:SER:N	2.28	0.47
2:fh:77:LYS:HG2	2:fh:89:ILE:HD11	1.90	0.47
2:lh:63:GLY:CA	3:ll:108:TYR:CZ	2.96	0.47
2:mh:63:GLY:CA	3:ml:108:TYR:CZ	2.96	0.47
2:oh:63:GLY:CA	3:ol:108:TYR:CZ	2.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cl:60:LEU:HD23	3:Cl:105:ALA:HB2	1.96	0.47
3:Ti:115:SER:O	3:Ti:117:ASN:N	2.48	0.47
3:Il:70:TYR:HD2	3:Il:76:PRO:HG3	1.79	0.47
3:bl:70:TYR:HD2	3:bl:76:PRO:HG3	1.79	0.47
3:dl:70:TYR:HD2	3:dl:76:PRO:HG3	1.79	0.47
3:gl:60:LEU:HD23	3:gl:105:ALA:HB2	1.96	0.47
3:gl:115:SER:O	3:gl:117:ASN:N	2.48	0.47
3:ql:60:LEU:HD23	3:ql:105:ALA:HB2	1.96	0.47
1:C:224:SER:H	1:7:407:ASN:HD21	1.63	0.47
1:E:224:SER:H	1:4:407:ASN:HD21	1.63	0.47
1:F:482:CYS:SG	1:F:576:TYR:HB2	2.55	0.47
1:G:482:CYS:SG	1:G:576:TYR:HB2	2.55	0.47
1:I:482:CYS:SG	1:I:576:TYR:HB2	2.55	0.47
1:P:482:CYS:SG	1:P:576:TYR:HB2	2.55	0.47
1:Q:407:ASN:HD21	1:h:224:SER:H	1.63	0.47
1:Y:407:ASN:HD21	1:a:224:SER:H	1.63	0.47
1:Z:565:ILE:HD12	1:Z:569:ASN:HD22	1.79	0.47
1:4:224:SER:H	1:r:407:ASN:HD21	1.63	0.47
1:d:482:CYS:SG	1:d:576:TYR:HB2	2.55	0.47
1:d:565:ILE:HD12	1:d:569:ASN:HD22	1.79	0.47
1:v:482:CYS:SG	1:v:576:TYR:HB2	2.55	0.47
2:Ch:35:ARG:HG2	2:Ch:36:SER:N	2.28	0.47
2:Kh:41:CYS:HB3	2:Kh:98:LEU:HB3	1.95	0.47
2:Mh:35:ARG:HG2	2:Mh:36:SER:N	2.28	0.47
2:Oh:77:LYS:HB2	2:Oh:77:LYS:HZ1	1.78	0.47
2:Uh:77:LYS:HG2	2:Uh:89:ILE:HD11	1.90	0.47
2:6h:77:LYS:HG2	2:6h:89:ILE:HD11	1.90	0.47
2:ch:35:ARG:HG2	2:ch:36:SER:N	2.28	0.47
2:mh:53:MET:HB3	2:mh:98:LEU:HD22	1.95	0.47
2:vh:63:GLY:CA	3:vl:108:TYR:CZ	2.96	0.47
2:yh:77:LYS:HG2	2:yh:89:ILE:HD11	1.90	0.47
3:Rl:70:TYR:HD2	3:Rl:76:PRO:HG3	1.79	0.47
3:Yl:115:SER:O	3:Yl:117:ASN:N	2.48	0.47
3:6l:70:TYR:HD2	3:6l:76:PRO:HG3	1.79	0.47
3:al:60:LEU:HD23	3:al:105:ALA:HB2	1.96	0.47
3:7l:115:SER:O	3:7l:117:ASN:N	2.48	0.47
1:B:565:ILE:HD12	1:B:569:ASN:HD22	1.79	0.47
1:R:482:CYS:SG	1:R:576:TYR:HB2	2.55	0.47
1:X:565:ILE:HD12	1:X:569:ASN:HD22	1.79	0.47
1:f:565:ILE:HD12	1:f:569:ASN:HD22	1.80	0.47
1:g:565:ILE:HD12	1:g:569:ASN:HD22	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:407:ASN:HD21	1:q:224:SER:H	1.63	0.47
1:n:482:CYS:SG	1:n:576:TYR:HB2	2.55	0.47
1:z:469:ASP:OD1	1:z:469:ASP:N	2.42	0.47
1:8:565:ILE:HD12	1:8:569:ASN:HD22	1.80	0.47
2:Ch:28:GLY:HA3	2:Ch:145:THR:HG22	1.96	0.47
2:Hh:77:LYS:HG2	2:Hh:89:ILE:HD11	1.90	0.47
2:Ph:77:LYS:CD	2:Ph:89:ILE:CG1	2.74	0.47
2:Yh:77:LYS:CD	2:Yh:89:ILE:CG1	2.74	0.47
2:ah:28:GLY:HA3	2:ah:145:THR:HG22	1.96	0.47
2:ih:28:GLY:HA3	2:ih:145:THR:HG22	1.96	0.47
2:sh:28:GLY:HA3	2:sh:145:THR:HG22	1.96	0.47
2:uh:63:GLY:CA	3:ul:108:TYR:CZ	2.96	0.47
2:7h:28:GLY:HA3	2:7h:145:THR:HG22	1.96	0.47
3:Gl:70:TYR:HD2	3:Gl:76:PRO:HG3	1.79	0.47
3:Kl:115:SER:O	3:Kl:117:ASN:N	2.48	0.47
3:Ml:70:TYR:HD2	3:Ml:76:PRO:HG3	1.79	0.47
3:Pl:70:TYR:HD2	3:Pl:76:PRO:HG3	1.79	0.47
3:Vl:115:SER:O	3:Vl:117:ASN:N	2.48	0.47
3:4l:70:TYR:HD2	3:4l:76:PRO:HG3	1.79	0.47
3:jl:115:SER:O	3:jl:117:ASN:N	2.48	0.47
3:nl:60:LEU:HD23	3:nl:105:ALA:HB2	1.96	0.47
3:pl:60:LEU:HD23	3:pl:105:ALA:HB2	1.96	0.47
3:wl:70:TYR:HD2	3:wl:76:PRO:HG3	1.79	0.47
3:xl:115:SER:O	3:xl:117:ASN:N	2.48	0.47
1:A:407:ASN:HD21	1:M:224:SER:H	1.63	0.46
1:A:666:PHE:HE2	1:M:371:MET:HB2	1.79	0.46
1:K:565:ILE:HD12	1:K:569:ASN:HD22	1.80	0.46
1:M:407:ASN:HD21	1:l:224:SER:H	1.63	0.46
1:M:482:CYS:SG	1:M:576:TYR:HB2	2.55	0.46
1:P:565:ILE:HD12	1:P:569:ASN:HD22	1.79	0.46
1:T:565:ILE:HD12	1:T:569:ASN:HD22	1.80	0.46
1:W:469:ASP:OD1	1:W:469:ASP:N	2.42	0.46
1:1:371:MET:HB2	1:o:666:PHE:HE2	1.79	0.46
1:2:565:ILE:HD12	1:2:569:ASN:HD22	1.80	0.46
1:3:482:CYS:SG	1:3:576:TYR:HB2	2.55	0.46
1:3:565:ILE:HD12	1:3:569:ASN:HD22	1.80	0.46
1:5:565:ILE:HD12	1:5:569:ASN:HD22	1.79	0.46
1:b:482:CYS:SG	1:b:576:TYR:HB2	2.55	0.46
1:k:482:CYS:SG	1:k:576:TYR:HB2	2.55	0.46
2:Bh:63:GLY:CA	3:Bl:108:TYR:CZ	2.96	0.46
2:Ch:77:LYS:CD	2:Ch:89:ILE:CG1	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Hh:35:ARG:HG2	2:Hh:36:SER:N	2.28	0.46
2:Sh:28:GLY:HA3	2:Sh:145:THR:HG22	1.96	0.46
2:Xh:28:GLY:HA3	2:Xh:145:THR:HG22	1.96	0.46
2:Yh:28:GLY:HA3	2:Yh:145:THR:HG22	1.96	0.46
2:2h:77:LYS:HG2	2:2h:89:ILE:HD11	1.90	0.46
2:bh:35:ARG:HG2	2:bh:36:SER:N	2.28	0.46
2:fh:35:ARG:HG2	2:fh:36:SER:N	2.28	0.46
2:ih:112:VAL:CG1	2:ih:143:GLY:O	2.52	0.46
2:lh:28:GLY:HA3	2:lh:145:THR:HG22	1.96	0.46
2:mh:77:LYS:HB2	2:mh:77:LYS:HZ1	1.80	0.46
2:ph:28:GLY:HA3	2:ph:145:THR:HG22	1.96	0.46
2:yh:35:ARG:HG2	2:yh:36:SER:N	2.28	0.46
3:Gl:114:ASP:OD1	3:Gl:115:SER:N	2.47	0.46
3:Xl:114:ASP:OD1	3:Xl:115:SER:N	2.47	0.46
3:dl:115:SER:O	3:dl:117:ASN:N	2.48	0.46
1:D:224:SER:H	1:m:407:ASN:HD21	1.63	0.46
1:G:565:ILE:HD12	1:G:569:ASN:HD22	1.80	0.46
1:S:224:SER:H	1:b:407:ASN:HD21	1.63	0.46
1:U:407:ASN:HD21	1:e:224:SER:H	1.63	0.46
1:5:482:CYS:SG	1:5:576:TYR:HB2	2.55	0.46
1:b:565:ILE:HD12	1:b:569:ASN:HD22	1.79	0.46
1:i:565:ILE:HD12	1:i:569:ASN:HD22	1.79	0.46
1:p:482:CYS:SG	1:p:576:TYR:HB2	2.55	0.46
1:u:565:ILE:HD12	1:u:569:ASN:HD22	1.79	0.46
2:Ih:35:ARG:HG2	2:Ih:36:SER:N	2.28	0.46
2:Kh:28:GLY:HA3	2:Kh:145:THR:HG22	1.96	0.46
2:Th:28:GLY:HA3	2:Th:145:THR:HG22	1.96	0.46
2:Uh:77:LYS:HB2	2:Uh:77:LYS:HZ1	1.80	0.46
2:dh:77:LYS:CD	2:dh:89:ILE:CG1	2.74	0.46
2:xh:28:GLY:HA3	2:xh:145:THR:HG22	1.96	0.46
3:Al:60:LEU:HD23	3:Al:105:ALA:HB2	1.96	0.46
3:Cl:114:ASP:OD1	3:Cl:115:SER:N	2.47	0.46
3:Cl:115:SER:O	3:Cl:117:ASN:N	2.48	0.46
3:Nl:60:LEU:HD23	3:Nl:105:ALA:HB2	1.96	0.46
3:Pl:115:SER:O	3:Pl:117:ASN:N	2.48	0.46
3:Ql:115:SER:O	3:Ql:117:ASN:N	2.48	0.46
3:2l:70:TYR:HD2	3:2l:76:PRO:HG3	1.79	0.46
3:3l:115:SER:O	3:3l:117:ASN:N	2.48	0.46
3:5l:115:SER:O	3:5l:117:ASN:N	2.48	0.46
3:al:115:SER:O	3:al:117:ASN:N	2.48	0.46
3:il:114:ASP:OD1	3:il:115:SER:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:kl:70:TYR:HD2	3:kl:76:PRO:HG3	1.79	0.46
3:nl:70:TYR:HD2	3:nl:76:PRO:HG3	1.79	0.46
3:nl:114:ASP:OD1	3:nl:115:SER:N	2.47	0.46
1:D:565:ILE:HD12	1:D:569:ASN:HD22	1.80	0.46
1:E:710:VAL:O	1:E:713:THR:OG1	2.25	0.46
1:2:407:ASN:HD21	1:8:224:SER:H	1.63	0.46
1:6:565:ILE:HD12	1:6:569:ASN:HD22	1.80	0.46
1:b:371:MET:HB2	1:p:666:PHE:HE2	1.79	0.46
1:x:565:ILE:HD12	1:x:569:ASN:HD22	1.80	0.46
2:Ah:28:GLY:HA3	2:Ah:145:THR:HG22	1.96	0.46
2:oh:35:ARG:HG2	2:oh:36:SER:N	2.28	0.46
2:7h:77:LYS:CD	2:7h:89:ILE:CG1	2.74	0.46
3:Gl:60:LEU:HD23	3:Gl:105:ALA:HB2	1.96	0.46
3:Kl:60:LEU:HD23	3:Kl:105:ALA:HB2	1.96	0.46
3:Sl:60:LEU:HD23	3:Sl:105:ALA:HB2	1.96	0.46
3:Ul:60:LEU:HD23	3:Ul:105:ALA:HB2	1.96	0.46
3:6l:60:LEU:HD23	3:6l:105:ALA:HB2	1.96	0.46
3:cl:60:LEU:HD23	3:cl:105:ALA:HB2	1.96	0.46
3:hl:114:ASP:OD1	3:hl:115:SER:N	2.47	0.46
3:rl:115:SER:O	3:rl:117:ASN:N	2.48	0.46
3:xl:60:LEU:HD23	3:xl:105:ALA:HB2	1.96	0.46
1:A:482:CYS:SG	1:A:576:TYR:HB2	2.55	0.46
1:C:549:LYS:HG2	1:C:549:LYS:O	2.16	0.46
1:G:224:SER:H	1:1:407:ASN:HD21	1.63	0.46
1:G:407:ASN:HD21	1:U:224:SER:H	1.63	0.46
1:H:482:CYS:SG	1:H:576:TYR:HB2	2.55	0.46
1:M:565:ILE:HD12	1:M:569:ASN:HD22	1.79	0.46
1:O:549:LYS:O	1:O:549:LYS:HG2	2.16	0.46
1:T:489:SER:OG	1:T:494:ASP:HB2	2.16	0.46
1:T:549:LYS:HG2	1:T:549:LYS:O	2.16	0.46
1:V:549:LYS:HG2	1:V:549:LYS:O	2.16	0.46
1:a:549:LYS:HG2	1:a:549:LYS:O	2.16	0.46
1:e:565:ILE:HD12	1:e:569:ASN:HD22	1.80	0.46
1:f:549:LYS:HG2	1:f:549:LYS:O	2.16	0.46
1:g:549:LYS:HG2	1:g:549:LYS:O	2.16	0.46
1:l:489:SER:OG	1:l:494:ASP:HB2	2.16	0.46
1:m:224:SER:H	1:n:407:ASN:HD21	1.63	0.46
1:n:565:ILE:HD12	1:n:569:ASN:HD22	1.80	0.46
1:s:549:LYS:O	1:s:549:LYS:HG2	2.16	0.46
1:x:224:SER:H	1:y:407:ASN:HD21	1.63	0.46
1:y:482:CYS:SG	1:y:576:TYR:HB2	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Hh:28:GLY:HA3	2:Hh:145:THR:HG22	1.96	0.46
2:Ph:28:GLY:HA3	2:Ph:145:THR:HG22	1.96	0.46
2:5h:70:ILE:HD13	2:5h:91:ARG:CG	2.46	0.46
2:dh:28:GLY:HA3	2:dh:145:THR:HG22	1.96	0.46
2:fh:70:ILE:HD13	2:fh:91:ARG:CG	2.46	0.46
2:gh:28:GLY:HA3	2:gh:145:THR:HG22	1.96	0.46
2:lh:70:ILE:HD13	2:lh:91:ARG:CG	2.46	0.46
2:yh:63:GLY:CA	3:yl:108:TYR:CZ	2.97	0.46
3:Fl:114:ASP:OD1	3:Fl:115:SER:N	2.47	0.46
3:2l:60:LEU:HD23	3:2l:105:ALA:HB2	1.96	0.46
3:al:114:ASP:OD1	3:al:115:SER:N	2.47	0.46
3:ll:60:LEU:HD23	3:ll:105:ALA:HB2	1.96	0.46
3:ll:70:TYR:HD2	3:ll:76:PRO:HG3	1.79	0.46
3:wl:114:ASP:OD1	3:wl:115:SER:N	2.47	0.46
1:C:353:VAL:H	1:C:645:GLN:NE2	2.14	0.46
1:D:353:VAL:H	1:D:645:GLN:NE2	2.14	0.46
1:D:489:SER:OG	1:D:494:ASP:HB2	2.16	0.46
1:F:549:LYS:HG2	1:F:549:LYS:O	2.16	0.46
1:G:489:SER:OG	1:G:494:ASP:HB2	2.16	0.46
1:H:407:ASN:HD21	1:K:224:SER:H	1.63	0.46
1:L:353:VAL:H	1:L:645:GLN:NE2	2.14	0.46
1:M:353:VAL:H	1:M:645:GLN:NE2	2.14	0.46
1:N:224:SER:H	1:S:407:ASN:HD21	1.63	0.46
1:S:489:SER:OG	1:S:494:ASP:HB2	2.16	0.46
1:2:353:VAL:H	1:2:645:GLN:NE2	2.14	0.46
1:6:353:VAL:H	1:6:645:GLN:NE2	2.14	0.46
1:a:353:VAL:H	1:a:645:GLN:NE2	2.14	0.46
1:b:224:SER:H	1:p:407:ASN:HD21	1.64	0.46
1:b:353:VAL:H	1:b:645:GLN:NE2	2.14	0.46
1:c:224:SER:H	1:l:407:ASN:HD21	1.63	0.46
1:c:353:VAL:H	1:c:645:GLN:NE2	2.14	0.46
1:e:353:VAL:H	1:e:645:GLN:NE2	2.14	0.46
1:g:489:SER:OG	1:g:494:ASP:HB2	2.16	0.46
1:j:549:LYS:O	1:j:549:LYS:HG2	2.16	0.46
1:r:482:CYS:SG	1:r:576:TYR:HB2	2.55	0.46
1:t:353:VAL:H	1:t:645:GLN:NE2	2.14	0.46
1:7:489:SER:OG	1:7:494:ASP:HB2	2.16	0.46
2:Ah:70:ILE:HD13	2:Ah:91:ARG:CG	2.46	0.46
2:Fh:70:ILE:HD13	2:Fh:91:ARG:CG	2.46	0.46
2:Hh:63:GLY:CA	3:Hl:108:TYR:CZ	2.97	0.46
2:Nh:77:LYS:CD	2:Nh:89:ILE:CG1	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oh:70:ILE:HD13	2:Oh:91:ARG:CG	2.46	0.46
2:Sh:70:ILE:HD13	2:Sh:91:ARG:CG	2.46	0.46
2:Yh:70:ILE:HD13	2:Yh:91:ARG:CG	2.46	0.46
2:3h:70:ILE:HD13	2:3h:91:ARG:CG	2.46	0.46
2:ih:63:GLY:CA	3:il:108:TYR:CZ	2.96	0.46
2:ph:70:ILE:HD13	2:ph:91:ARG:CG	2.46	0.46
2:sh:70:ILE:HD13	2:sh:91:ARG:CG	2.46	0.46
2:7h:70:ILE:HD13	2:7h:91:ARG:CG	2.46	0.46
3:El:115:SER:O	3:El:117:ASN:N	2.48	0.46
3:Ml:26:GLN:HG2	3:Ml:41:SER:O	2.16	0.46
3:Sl:70:TYR:HD2	3:Sl:76:PRO:HG3	1.79	0.46
3:4l:114:ASP:OD1	3:4l:115:SER:N	2.47	0.46
3:bl:26:GLN:HG2	3:bl:41:SER:O	2.16	0.46
3:dl:26:GLN:HG2	3:dl:41:SER:O	2.16	0.46
3:fl:115:SER:O	3:fl:117:ASN:N	2.48	0.46
3:kl:26:GLN:HG2	3:kl:41:SER:O	2.16	0.46
3:ml:60:LEU:HD23	3:ml:105:ALA:HB2	1.96	0.46
3:ql:115:SER:O	3:ql:117:ASN:N	2.48	0.46
1:B:549:LYS:O	1:B:549:LYS:HG2	2.16	0.46
1:F:489:SER:OG	1:F:494:ASP:HB2	2.16	0.46
1:G:549:LYS:O	1:G:549:LYS:HG2	2.16	0.46
1:J:565:ILE:HD12	1:J:569:ASN:HD22	1.79	0.46
1:N:353:VAL:H	1:N:645:GLN:NE2	2.14	0.46
1:Y:489:SER:OG	1:Y:494:ASP:HB2	2.16	0.46
1:6:489:SER:OG	1:6:494:ASP:HB2	2.16	0.46
1:6:549:LYS:HG2	1:6:549:LYS:O	2.16	0.46
1:a:565:ILE:HD12	1:a:569:ASN:HD22	1.80	0.46
1:e:489:SER:OG	1:e:494:ASP:HB2	2.16	0.46
1:n:489:SER:OG	1:n:494:ASP:HB2	2.16	0.46
1:n:549:LYS:O	1:n:549:LYS:HG2	2.16	0.46
1:s:489:SER:OG	1:s:494:ASP:HB2	2.16	0.46
1:u:549:LYS:O	1:u:549:LYS:HG2	2.16	0.46
1:w:549:LYS:HG2	1:w:549:LYS:O	2.16	0.46
2:Hh:70:ILE:HD13	2:Hh:91:ARG:CG	2.46	0.46
2:Uh:70:ILE:HD13	2:Uh:91:ARG:CG	2.46	0.46
2:yh:28:GLY:HA3	2:yh:145:THR:HG22	1.96	0.46
2:yh:70:ILE:HD13	2:yh:91:ARG:CG	2.46	0.46
3:El:56:TRP:HB2	3:El:69:ILE:HB	1.98	0.46
3:Pl:26:GLN:HG2	3:Pl:41:SER:O	2.16	0.46
3:Rl:26:GLN:HG2	3:Rl:41:SER:O	2.16	0.46
3:Sl:26:GLN:HG2	3:Sl:41:SER:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U1:26:GLN:HG2	3:U1:41:SER:O	2.16	0.46
3:W1:26:GLN:HG2	3:W1:41:SER:O	2.16	0.46
3:2l:115:SER:O	3:2l:117:ASN:N	2.48	0.46
3:6l:26:GLN:HG2	3:6l:41:SER:O	2.16	0.46
3:ml:26:GLN:HG2	3:ml:41:SER:O	2.16	0.46
3:ql:56:TRP:HB2	3:ql:69:ILE:HB	1.98	0.46
3:sl:56:TRP:HB2	3:sl:69:ILE:HB	1.98	0.46
3:yl:60:LEU:HD23	3:yl:105:ALA:HB2	1.96	0.46
3:zl:26:GLN:HG2	3:zl:41:SER:O	2.16	0.46
3:7l:114:ASP:OD1	3:7l:115:SER:N	2.47	0.46
1:C:565:ILE:HD12	1:C:569:ASN:HD22	1.80	0.46
1:H:489:SER:OG	1:H:494:ASP:HB2	2.16	0.46
1:L:489:SER:OG	1:L:494:ASP:HB2	2.16	0.46
1:P:353:VAL:H	1:P:645:GLN:NE2	2.14	0.46
1:U:489:SER:OG	1:U:494:ASP:HB2	2.16	0.46
1:W:371:MET:HB2	1:t:666:PHE:HE2	1.79	0.46
1:W:489:SER:OG	1:W:494:ASP:HB2	2.16	0.46
1:Y:549:LYS:HG2	1:Y:549:LYS:O	2.16	0.46
1:1:549:LYS:HG2	1:1:549:LYS:O	2.16	0.46
1:2:489:SER:OG	1:2:494:ASP:HB2	2.16	0.46
1:2:549:LYS:O	1:2:549:LYS:HG2	2.16	0.46
1:5:489:SER:OG	1:5:494:ASP:HB2	2.16	0.46
1:b:489:SER:OG	1:b:494:ASP:HB2	2.16	0.46
1:m:489:SER:OG	1:m:494:ASP:HB2	2.16	0.46
1:t:489:SER:OG	1:t:494:ASP:HB2	2.16	0.46
1:v:353:VAL:H	1:v:645:GLN:NE2	2.14	0.46
1:v:549:LYS:O	1:v:549:LYS:HG2	2.16	0.46
1:v:565:ILE:HD12	1:v:569:ASN:HD22	1.79	0.46
1:z:489:SER:OG	1:z:494:ASP:HB2	2.16	0.46
1:7:549:LYS:O	1:7:549:LYS:HG2	2.16	0.46
2:Eh:70:ILE:HD13	2:Eh:91:ARG:CG	2.46	0.46
2:Gh:70:ILE:HD13	2:Gh:91:ARG:CG	2.46	0.46
2:Xh:63:GLY:CA	3:Xl:108:TYR:CZ	2.96	0.46
2:Zh:70:ILE:HD13	2:Zh:91:ARG:CG	2.46	0.46
2:gh:70:ILE:HD13	2:gh:91:ARG:CG	2.46	0.46
2:jh:77:LYS:CD	2:jh:89:ILE:CG1	2.74	0.46
2:mh:70:ILE:HD13	2:mh:91:ARG:CG	2.46	0.46
2:nh:70:ILE:HD13	2:nh:91:ARG:CG	2.46	0.46
3:Dl:26:GLN:HG2	3:Dl:41:SER:O	2.16	0.46
3:Dl:56:TRP:HB2	3:Dl:69:ILE:HB	1.98	0.46
3:Kl:56:TRP:HB2	3:Kl:69:ILE:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ol:26:GLN:HG2	3:Ol:41:SER:O	2.16	0.46
3:Ol:115:SER:O	3:Ol:117:ASN:N	2.48	0.46
3:Rl:115:SER:O	3:Rl:117:ASN:N	2.48	0.46
3:Sl:56:TRP:HB2	3:Sl:69:ILE:HB	1.98	0.46
3:Sl:115:SER:O	3:Sl:117:ASN:N	2.48	0.46
3:Ul:114:ASP:OD1	3:Ul:115:SER:N	2.47	0.46
3:Yl:114:ASP:OD1	3:Yl:115:SER:N	2.47	0.46
3:1l:114:ASP:OD1	3:1l:115:SER:N	2.47	0.46
3:2l:26:GLN:HG2	3:2l:41:SER:O	2.16	0.46
3:5l:114:ASP:OD1	3:5l:115:SER:N	2.47	0.46
3:6l:115:SER:O	3:6l:117:ASN:N	2.48	0.46
3:cl:70:TYR:HD2	3:cl:76:PRO:HG3	1.79	0.46
3:el:26:GLN:HG2	3:el:41:SER:O	2.16	0.46
3:ll:26:GLN:HG2	3:ll:41:SER:O	2.16	0.46
3:ll:56:TRP:HB2	3:ll:69:ILE:HB	1.98	0.46
3:ll:115:SER:O	3:ll:117:ASN:N	2.48	0.46
3:sl:114:ASP:OD1	3:sl:115:SER:N	2.47	0.46
3:xl:56:TRP:HB2	3:xl:69:ILE:HB	1.98	0.46
1:A:565:ILE:HD12	1:A:569:ASN:HD22	1.80	0.46
1:B:489:SER:OG	1:B:494:ASP:HB2	2.16	0.46
1:G:353:VAL:H	1:G:645:GLN:NE2	2.14	0.46
1:H:224:SER:H	1:R:407:ASN:HD21	1.63	0.46
1:J:353:VAL:H	1:J:645:GLN:NE2	2.14	0.46
1:J:549:LYS:O	1:J:549:LYS:HG2	2.16	0.46
1:M:489:SER:OG	1:M:494:ASP:HB2	2.16	0.46
1:O:489:SER:OG	1:O:494:ASP:HB2	2.16	0.46
1:Q:482:CYS:SG	1:Q:576:TYR:HB2	2.55	0.46
1:W:224:SER:H	1:t:407:ASN:HD21	1.63	0.46
1:X:353:VAL:H	1:X:645:GLN:NE2	2.14	0.46
1:3:489:SER:OG	1:3:494:ASP:HB2	2.16	0.46
1:4:353:VAL:H	1:4:645:GLN:NE2	2.14	0.46
1:d:353:VAL:H	1:d:645:GLN:NE2	2.14	0.46
1:h:549:LYS:O	1:h:549:LYS:HG2	2.16	0.46
1:i:293:PRO:HB2	1:w:696:PRO:HD3	1.98	0.46
1:i:353:VAL:H	1:i:645:GLN:NE2	2.14	0.46
1:k:407:ASN:HD21	1:y:224:SER:H	1.63	0.46
1:m:549:LYS:O	1:m:549:LYS:HG2	2.16	0.46
1:n:353:VAL:H	1:n:645:GLN:NE2	2.14	0.46
1:p:565:ILE:HD12	1:p:569:ASN:HD22	1.80	0.46
1:q:710:VAL:O	1:q:713:THR:OG1	2.25	0.46
1:u:489:SER:OG	1:u:494:ASP:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:565:ILE:HD12	1:w:569:ASN:HD22	1.80	0.46
1:y:489:SER:OG	1:y:494:ASP:HB2	2.16	0.46
1:8:549:LYS:O	1:8:549:LYS:HG2	2.16	0.46
2:Bh:70:ILE:HD13	2:Bh:91:ARG:CG	2.46	0.46
2:Th:70:ILE:HD13	2:Th:91:ARG:CG	2.46	0.46
2:Uh:35:ARG:HG2	2:Uh:36:SER:N	2.28	0.46
2:Vh:70:ILE:HD13	2:Vh:91:ARG:CG	2.46	0.46
2:mh:35:ARG:HG2	2:mh:36:SER:N	2.28	0.46
2:qh:70:ILE:HD13	2:qh:91:ARG:CG	2.46	0.46
2:rh:70:ILE:HD13	2:rh:91:ARG:CG	2.46	0.46
2:wh:70:ILE:HD13	2:wh:91:ARG:CG	2.46	0.46
2:xh:70:ILE:HD13	2:xh:91:ARG:CG	2.46	0.46
2:8h:70:ILE:HD13	2:8h:91:ARG:CG	2.46	0.46
3:Al:26:GLN:HG2	3:Al:41:SER:O	2.16	0.46
3:Fl:56:TRP:HB2	3:Fl:69:ILE:HB	1.98	0.46
3:Hl:60:LEU:HD23	3:Hl:105:ALA:HB2	1.96	0.46
3:Ll:26:GLN:HG2	3:Ll:41:SER:O	2.16	0.46
3:Nl:70:TYR:HD2	3:Nl:76:PRO:HG3	1.79	0.46
3:Ol:56:TRP:HB2	3:Ol:69:ILE:HB	1.98	0.46
3:Rl:113:ASP:OD2	3:Rl:115:SER:OG	2.29	0.46
3:Tl:114:ASP:OD1	3:Tl:115:SER:N	2.47	0.46
3:Ul:115:SER:O	3:Ul:117:ASN:N	2.48	0.46
3:Vl:26:GLN:HG2	3:Vl:41:SER:O	2.16	0.46
3:Zl:26:GLN:HG2	3:Zl:41:SER:O	2.16	0.46
3:4l:115:SER:O	3:4l:117:ASN:N	2.48	0.46
3:el:56:TRP:HB2	3:el:69:ILE:HB	1.98	0.46
3:fl:26:GLN:HG2	3:fl:41:SER:O	2.16	0.46
3:fl:56:TRP:HB2	3:fl:69:ILE:HB	1.98	0.46
3:gl:114:ASP:OD1	3:gl:115:SER:N	2.47	0.46
3:il:26:GLN:HG2	3:il:41:SER:O	2.16	0.46
3:kl:115:SER:O	3:kl:117:ASN:N	2.48	0.46
3:pl:26:GLN:HG2	3:pl:41:SER:O	2.16	0.46
1:A:489:SER:OG	1:A:494:ASP:HB2	2.16	0.46
1:D:407:ASN:HD21	1:I:224:SER:H	1.63	0.46
1:E:549:LYS:O	1:E:549:LYS:HG2	2.16	0.46
1:F:353:VAL:H	1:F:645:GLN:NE2	2.14	0.46
1:I:407:ASN:HD21	1:w:224:SER:H	1.63	0.46
1:L:407:ASN:HD21	1:z:224:SER:H	1.63	0.46
1:L:666:PHE:HE2	1:z:371:MET:HB2	1.79	0.46
1:L:696:PRO:HD3	1:m:293:PRO:HB2	1.98	0.46
1:O:407:ASN:HD21	1:R:224:SER:H	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:549:LYS:O	1:P:549:LYS:HG2	2.16	0.46
1:U:549:LYS:O	1:U:549:LYS:HG2	2.16	0.46
1:V:353:VAL:H	1:V:645:GLN:NE2	2.14	0.46
1:V:489:SER:OG	1:V:494:ASP:HB2	2.16	0.46
1:Z:549:LYS:O	1:Z:549:LYS:HG2	2.16	0.46
1:3:353:VAL:H	1:3:645:GLN:NE2	2.14	0.46
1:4:549:LYS:O	1:4:549:LYS:HG2	2.16	0.46
1:5:353:VAL:H	1:5:645:GLN:NE2	2.14	0.46
1:d:549:LYS:HG2	1:d:549:LYS:O	2.16	0.46
1:f:407:ASN:HD21	1:k:224:SER:H	1.63	0.46
1:f:489:SER:OG	1:f:494:ASP:HB2	2.16	0.46
1:h:353:VAL:H	1:h:645:GLN:NE2	2.14	0.46
1:j:353:VAL:H	1:j:645:GLN:NE2	2.14	0.46
1:j:489:SER:OG	1:j:494:ASP:HB2	2.16	0.46
1:n:224:SER:H	1:w:407:ASN:HD21	1.63	0.46
1:q:549:LYS:HG2	1:q:549:LYS:O	2.16	0.46
1:u:224:SER:H	1:8:407:ASN:HD21	1.63	0.46
2:Kh:70:ILE:HD13	2:Kh:91:ARG:CG	2.46	0.46
2:Mh:70:ILE:HD13	2:Mh:91:ARG:CG	2.46	0.46
2:Qh:70:ILE:HD13	2:Qh:91:ARG:CG	2.46	0.46
2:Rh:70:ILE:HD13	2:Rh:91:ARG:CG	2.46	0.46
2:Sh:77:LYS:CD	2:Sh:89:ILE:CG1	2.74	0.46
2:1h:70:ILE:HD13	2:1h:91:ARG:CG	2.46	0.46
2:kh:70:ILE:HD13	2:kh:91:ARG:CG	2.46	0.46
2:lh:77:LYS:CD	2:lh:89:ILE:CG1	2.74	0.46
2:ph:63:GLY:CA	3:pl:108:TYR:CZ	2.95	0.46
2:uh:28:GLY:HA3	2:uh:145:THR:HG22	1.96	0.46
2:uh:70:ILE:HD13	2:uh:91:ARG:CG	2.46	0.46
3:Ll:115:SER:O	3:Ll:117:ASN:N	2.48	0.46
3:Xl:26:GLN:HG2	3:Xl:41:SER:O	2.16	0.46
3:1l:26:GLN:HG2	3:1l:41:SER:O	2.16	0.46
3:2l:56:TRP:HB2	3:2l:69:ILE:HB	1.98	0.46
3:3l:114:ASP:OD1	3:3l:115:SER:N	2.47	0.46
3:6l:56:TRP:HB2	3:6l:69:ILE:HB	1.98	0.46
3:hl:115:SER:O	3:hl:117:ASN:N	2.48	0.46
3:il:115:SER:O	3:il:117:ASN:N	2.48	0.46
3:jl:26:GLN:HG2	3:jl:41:SER:O	2.16	0.46
3:ml:114:ASP:OD1	3:ml:115:SER:N	2.47	0.46
3:ml:115:SER:O	3:ml:117:ASN:N	2.48	0.46
3:nl:26:GLN:HG2	3:nl:41:SER:O	2.16	0.46
3:wl:26:GLN:HG2	3:wl:41:SER:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:yl:26:GLN:HG2	3:yl:41:SER:O	2.16	0.46
3:8l:26:GLN:HG2	3:8l:41:SER:O	2.16	0.46
3:8l:115:SER:O	3:8l:117:ASN:N	2.48	0.46
1:B:224:SER:H	1:Z:407:ASN:HD21	1.63	0.46
1:I:549:LYS:HG2	1:I:549:LYS:O	2.16	0.46
1:J:489:SER:OG	1:J:494:ASP:HB2	2.16	0.46
1:U:293:PRO:HB2	1:t:696:PRO:HD3	1.98	0.46
1:X:549:LYS:O	1:X:549:LYS:HG2	2.16	0.46
1:Z:444:TYR:OH	1:Z:469:ASP:OD2	2.31	0.46
1:e:407:ASN:HD21	1:o:224:SER:H	1.63	0.46
1:h:489:SER:OG	1:h:494:ASP:HB2	2.16	0.46
1:o:549:LYS:HG2	1:o:549:LYS:O	2.16	0.46
1:p:489:SER:OG	1:p:494:ASP:HB2	2.16	0.46
1:s:353:VAL:H	1:s:645:GLN:NE2	2.14	0.46
1:v:489:SER:OG	1:v:494:ASP:HB2	2.16	0.46
2:Dh:70:ILE:HD13	2:Dh:91:ARG:CG	2.46	0.46
2:Vh:77:LYS:CD	2:Vh:89:ILE:CG1	2.74	0.46
2:6h:70:ILE:HD13	2:6h:91:ARG:CG	2.46	0.46
2:ah:70:ILE:HD13	2:ah:91:ARG:CG	2.46	0.46
2:bh:70:ILE:HD13	2:bh:91:ARG:CG	2.46	0.46
2:ch:77:LYS:CD	2:ch:89:ILE:CG1	2.74	0.46
2:eh:70:ILE:HD13	2:eh:91:ARG:CG	2.46	0.46
2:jh:70:ILE:HD13	2:jh:91:ARG:CG	2.46	0.46
2:oh:70:ILE:HD13	2:oh:91:ARG:CG	2.46	0.46
2:vh:70:ILE:HD13	2:vh:91:ARG:CG	2.46	0.46
3:Gl:26:GLN:HG2	3:Gl:41:SER:O	2.16	0.46
3:Hl:26:GLN:HG2	3:Hl:41:SER:O	2.16	0.46
3:Hl:115:SER:O	3:Hl:117:ASN:N	2.48	0.46
3:Nl:115:SER:O	3:Nl:117:ASN:N	2.48	0.46
3:Ql:26:GLN:HG2	3:Ql:41:SER:O	2.16	0.46
3:Ul:56:TRP:HB2	3:Ul:69:ILE:HB	1.98	0.46
3:Wl:56:TRP:HB2	3:Wl:69:ILE:HB	1.98	0.46
3:Zl:56:TRP:HB2	3:Zl:69:ILE:HB	1.98	0.46
3:al:56:TRP:HB2	3:al:69:ILE:HB	1.98	0.46
3:ml:56:TRP:HB2	3:ml:69:ILE:HB	1.98	0.46
3:pl:56:TRP:HB2	3:pl:69:ILE:HB	1.98	0.46
3:pl:115:SER:O	3:pl:117:ASN:N	2.48	0.46
3:ql:26:GLN:HG2	3:ql:41:SER:O	2.16	0.46
3:rl:26:GLN:HG2	3:rl:41:SER:O	2.16	0.46
3:rl:56:TRP:HB2	3:rl:69:ILE:HB	1.98	0.46
3:tl:26:GLN:HG2	3:tl:41:SER:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:tl:115:SER:O	3:tl:117:ASN:N	2.48	0.46
3:xl:26:GLN:HG2	3:xl:41:SER:O	2.16	0.46
3:zl:56:TRP:HB2	3:zl:69:ILE:HB	1.98	0.46
3:7l:26:GLN:HG2	3:7l:41:SER:O	2.16	0.46
1:B:407:ASN:HD21	1:P:224:SER:H	1.63	0.45
1:G:293:PRO:HB2	1:6:696:PRO:HD3	1.96	0.45
1:K:432:ARG:HA	1:K:434:MET:HE3	1.99	0.45
1:Q:549:LYS:HG2	1:Q:549:LYS:O	2.16	0.45
1:Y:432:ARG:HA	1:Y:434:MET:HE3	1.99	0.45
1:Z:489:SER:OG	1:Z:494:ASP:HB2	2.16	0.45
1:1:565:ILE:HD12	1:1:569:ASN:HD22	1.80	0.45
1:4:489:SER:OG	1:4:494:ASP:HB2	2.16	0.45
1:g:353:VAL:H	1:g:645:GLN:NE2	2.14	0.45
1:r:549:LYS:O	1:r:549:LYS:HG2	2.16	0.45
1:x:353:VAL:H	1:x:645:GLN:NE2	2.14	0.45
1:x:432:ARG:HA	1:x:434:MET:HE3	1.99	0.45
1:7:432:ARG:HA	1:7:434:MET:HE3	1.99	0.45
2:Bh:28:GLY:HA3	2:Bh:145:THR:HG22	1.96	0.45
2:Ih:70:ILE:HD13	2:Ih:91:ARG:CG	2.46	0.45
2:Jh:70:ILE:HD13	2:Jh:91:ARG:CG	2.46	0.45
2:Rh:35:ARG:HG2	2:Rh:36:SER:N	2.28	0.45
3:Al:115:SER:O	3:Al:117:ASN:N	2.48	0.45
3:Cl:56:TRP:HB2	3:Cl:69:ILE:HB	1.98	0.45
3:El:26:GLN:HG2	3:El:41:SER:O	2.16	0.45
3:Il:56:TRP:HB2	3:Il:69:ILE:HB	1.98	0.45
3:Jl:56:TRP:HB2	3:Jl:69:ILE:HB	1.98	0.45
3:Kl:26:GLN:HG2	3:Kl:41:SER:O	2.16	0.45
3:Ll:56:TRP:HB2	3:Ll:69:ILE:HB	1.98	0.45
3:Ql:56:TRP:HB2	3:Ql:69:ILE:HB	1.98	0.45
3:Xl:115:SER:O	3:Xl:117:ASN:N	2.48	0.45
3:Yl:26:GLN:HG2	3:Yl:41:SER:O	2.16	0.45
3:Zl:115:SER:O	3:Zl:117:ASN:N	2.48	0.45
3:3l:26:GLN:HG2	3:3l:41:SER:O	2.16	0.45
3:3l:56:TRP:HB2	3:3l:69:ILE:HB	1.98	0.45
3:4l:26:GLN:HG2	3:4l:41:SER:O	2.16	0.45
3:cl:115:SER:O	3:cl:117:ASN:N	2.48	0.45
3:el:115:SER:O	3:el:117:ASN:N	2.48	0.45
3:hl:26:GLN:HG2	3:hl:41:SER:O	2.16	0.45
3:ol:56:TRP:HB2	3:ol:69:ILE:HB	1.98	0.45
3:tl:56:TRP:HB2	3:tl:69:ILE:HB	1.98	0.45
3:vl:56:TRP:HB2	3:vl:69:ILE:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8l:56:TRP:HB2	3:8l:69:ILE:HB	1.98	0.45
1:C:293:PRO:HB2	1:H:696:PRO:HD3	1.98	0.45
1:G:432:ARG:HA	1:G:434:MET:HE3	1.99	0.45
1:K:353:VAL:H	1:K:645:GLN:NE2	2.14	0.45
1:L:432:ARG:HA	1:L:434:MET:HE3	1.99	0.45
1:R:353:VAL:H	1:R:645:GLN:NE2	2.14	0.45
1:S:549:LYS:O	1:S:549:LYS:HG2	2.16	0.45
1:T:353:VAL:H	1:T:645:GLN:NE2	2.14	0.45
1:W:432:ARG:HA	1:W:434:MET:HE3	1.99	0.45
1:f:696:PRO:HD3	1:p:293:PRO:HB2	1.97	0.45
1:i:549:LYS:HG2	1:i:549:LYS:O	2.16	0.45
1:k:549:LYS:O	1:k:549:LYS:HG2	2.16	0.45
1:n:432:ARG:HA	1:n:434:MET:HE3	1.99	0.45
1:p:549:LYS:O	1:p:549:LYS:HG2	2.16	0.45
1:r:489:SER:OG	1:r:494:ASP:HB2	2.16	0.45
1:t:432:ARG:HA	1:t:434:MET:HE3	1.99	0.45
1:z:432:ARG:HA	1:z:434:MET:HE3	1.99	0.45
1:8:489:SER:OG	1:8:494:ASP:HB2	2.16	0.45
2:Ch:70:ILE:HD13	2:Ch:91:ARG:CG	2.46	0.45
2:Eh:63:GLY:CA	3:El:108:TYR:CZ	2.96	0.45
2:2h:70:ILE:HD13	2:2h:91:ARG:CG	2.46	0.45
3:Al:56:TRP:HB2	3:Al:69:ILE:HB	1.98	0.45
3:Ll:114:ASP:OD1	3:Ll:115:SER:N	2.47	0.45
3:Ml:60:LEU:HD23	3:Ml:105:ALA:HB2	1.96	0.45
3:ll:115:SER:O	3:ll:117:ASN:N	2.48	0.45
3:5l:26:GLN:HG2	3:5l:41:SER:O	2.16	0.45
3:5l:56:TRP:HB2	3:5l:69:ILE:HB	1.98	0.45
3:ul:115:SER:O	3:ul:117:ASN:N	2.48	0.45
3:wl:115:SER:O	3:wl:117:ASN:N	2.48	0.45
3:yl:115:SER:O	3:yl:117:ASN:N	2.48	0.45
1:A:444:TYR:OH	1:A:469:ASP:OD2	2.31	0.45
1:B:432:ARG:HA	1:B:434:MET:HE3	1.99	0.45
1:F:407:ASN:HD21	1:X:224:SER:H	1.64	0.45
1:H:353:VAL:H	1:H:645:GLN:NE2	2.14	0.45
1:Q:489:SER:OG	1:Q:494:ASP:HB2	2.16	0.45
1:R:549:LYS:O	1:R:549:LYS:HG2	2.16	0.45
1:W:353:VAL:H	1:W:645:GLN:NE2	2.14	0.45
1:Y:293:PRO:HB2	1:o:696:PRO:HD3	1.98	0.45
1:Z:353:VAL:H	1:Z:645:GLN:NE2	2.14	0.45
1:5:293:PRO:HB2	1:q:696:PRO:HD3	1.98	0.45
1:a:293:PRO:HB2	1:y:696:PRO:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:224:SER:H	1:u:407:ASN:HD21	1.63	0.45
1:i:224:SER:H	1:s:407:ASN:HD21	1.64	0.45
1:i:432:ARG:HA	1:i:434:MET:HE3	1.99	0.45
1:k:353:VAL:H	1:k:645:GLN:NE2	2.14	0.45
1:l:549:LYS:HG2	1:l:549:LYS:O	2.16	0.45
2:Ph:70:ILE:HD13	2:Ph:91:ARG:CG	2.46	0.45
2:ih:70:ILE:HD13	2:ih:91:ARG:CG	2.46	0.45
2:kh:35:ARG:HG2	2:kh:36:SER:N	2.28	0.45
2:qh:63:GLY:CA	3:ql:108:TYR:CZ	2.96	0.45
3:Bl:114:ASP:OD1	3:Bl:115:SER:N	2.47	0.45
3:Bl:115:SER:O	3:Bl:117:ASN:N	2.48	0.45
3:Dl:115:SER:O	3:Dl:117:ASN:N	2.48	0.45
3:Gl:30:ALA:O	3:Gl:126:VAL:HA	2.17	0.45
3:Yl:30:ALA:O	3:Yl:126:VAL:HA	2.17	0.45
3:4l:56:TRP:HB2	3:4l:69:ILE:HB	1.98	0.45
3:nl:30:ALA:O	3:nl:126:VAL:HA	2.17	0.45
3:ol:115:SER:O	3:ol:117:ASN:N	2.48	0.45
3:7l:30:ALA:O	3:7l:126:VAL:HA	2.17	0.45
1:D:549:LYS:HG2	1:D:549:LYS:O	2.16	0.45
1:I:432:ARG:HA	1:I:434:MET:HE3	1.99	0.45
1:I:696:PRO:HD3	1:7:293:PRO:HB2	1.98	0.45
1:U:353:VAL:H	1:U:645:GLN:NE2	2.14	0.45
1:X:293:PRO:HB2	1:1:696:PRO:HD3	1.99	0.45
1:X:432:ARG:HA	1:X:434:MET:HE3	1.99	0.45
1:4:444:TYR:OH	1:4:469:ASP:OD2	2.31	0.45
1:a:489:SER:OG	1:a:494:ASP:HB2	2.16	0.45
1:m:353:VAL:H	1:m:645:GLN:NE2	2.14	0.45
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:q:489:SER:OG	1:q:494:ASP:HB2	2.16	0.45
1:u:432:ARG:HA	1:u:434:MET:HE3	1.99	0.45
1:z:353:VAL:H	1:z:645:GLN:NE2	2.14	0.45
1:8:353:VAL:H	1:8:645:GLN:NE2	2.14	0.45
2:Xh:70:ILE:HD13	2:Xh:91:ARG:CG	2.46	0.45
2:hh:70:ILE:HD13	2:hh:91:ARG:CG	2.46	0.45
3:Bl:56:TRP:HB2	3:Bl:69:ILE:HB	1.98	0.45
3:Cl:26:GLN:HG2	3:Cl:41:SER:O	2.16	0.45
3:Fl:115:SER:O	3:Fl:117:ASN:N	2.48	0.45
3:Il:115:SER:O	3:Il:117:ASN:N	2.48	0.45
3:Jl:115:SER:O	3:Jl:117:ASN:N	2.48	0.45
3:Ml:30:ALA:O	3:Ml:126:VAL:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Sl:30:ALA:O	3:Sl:126:VAL:HA	2.17	0.45
3:Ul:30:ALA:O	3:Ul:126:VAL:HA	2.17	0.45
3:bl:30:ALA:O	3:bl:126:VAL:HA	2.17	0.45
3:bl:60:LEU:HD23	3:bl:105:ALA:HB2	1.96	0.45
3:hl:56:TRP:HB2	3:hl:69:ILE:HB	1.98	0.45
3:ll:30:ALA:O	3:ll:126:VAL:HA	2.17	0.45
3:sl:115:SER:O	3:sl:117:ASN:N	2.48	0.45
3:vl:30:ALA:O	3:vl:126:VAL:HA	2.17	0.45
3:xl:30:ALA:O	3:xl:126:VAL:HA	2.17	0.45
1:A:549:LYS:HG2	1:A:549:LYS:O	2.16	0.45
1:B:293:PRO:HB2	1:R:696:PRO:HD3	1.98	0.45
1:B:353:VAL:H	1:B:645:GLN:NE2	2.14	0.45
1:C:407:ASN:HD21	1:F:224:SER:H	1.62	0.45
1:C:489:SER:OG	1:C:494:ASP:HB2	2.16	0.45
1:E:432:ARG:HA	1:E:434:MET:HE3	1.99	0.45
1:E:696:PRO:HD3	1:3:293:PRO:HB2	1.99	0.45
1:I:353:VAL:H	1:I:645:GLN:NE2	2.14	0.45
1:I:489:SER:OG	1:I:494:ASP:HB2	2.16	0.45
1:P:489:SER:OG	1:P:494:ASP:HB2	2.16	0.45
1:Q:353:VAL:H	1:Q:645:GLN:NE2	2.14	0.45
1:U:432:ARG:HA	1:U:434:MET:HE3	1.99	0.45
1:V:224:SER:H	1:c:407:ASN:HD21	1.63	0.45
1:V:432:ARG:HA	1:V:434:MET:HE3	1.99	0.45
1:1:489:SER:OG	1:1:494:ASP:HB2	2.16	0.45
1:4:432:ARG:HA	1:4:434:MET:HE3	1.99	0.45
1:a:407:ASN:HD21	1:s:224:SER:H	1.62	0.45
1:d:489:SER:OG	1:d:494:ASP:HB2	2.16	0.45
1:h:432:ARG:HA	1:h:434:MET:HE3	1.99	0.45
1:j:432:ARG:HA	1:j:434:MET:HE3	1.99	0.45
1:l:353:VAL:H	1:l:645:GLN:NE2	2.14	0.45
1:o:353:VAL:H	1:o:645:GLN:NE2	2.14	0.45
1:p:432:ARG:HA	1:p:434:MET:HE3	1.99	0.45
1:r:353:VAL:H	1:r:645:GLN:NE2	2.14	0.45
1:w:432:ARG:HA	1:w:434:MET:HE3	1.99	0.45
1:y:353:VAL:H	1:y:645:GLN:NE2	2.14	0.45
2:dh:70:ILE:HD13	2:dh:91:ARG:CG	2.46	0.45
3:Jl:30:ALA:O	3:Jl:126:VAL:HA	2.17	0.45
3:Kl:30:ALA:O	3:Kl:126:VAL:HA	2.17	0.45
3:Tl:26:GLN:HG2	3:Tl:41:SER:O	2.16	0.45
3:Vl:56:TRP:HB2	3:Vl:69:ILE:HB	1.98	0.45
3:Zl:30:ALA:O	3:Zl:126:VAL:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1l:30:ALA:O	3:1l:126:VAL:HA	2.17	0.45
3:ml:30:ALA:O	3:ml:126:VAL:HA	2.17	0.45
3:tl:114:ASP:OD1	3:tl:115:SER:N	2.47	0.45
3:ul:56:TRP:HB2	3:ul:69:ILE:HB	1.98	0.45
3:sl:30:ALA:O	3:sl:126:VAL:HA	2.17	0.45
1:A:432:ARG:HA	1:A:434:MET:HE3	1.99	0.45
1:B:696:PRO:HD3	1:R:293:PRO:HB2	1.98	0.45
1:E:489:SER:OG	1:E:494:ASP:HB2	2.16	0.45
1:K:489:SER:OG	1:K:494:ASP:HB2	2.16	0.45
1:Q:224:SER:H	1:W:407:ASN:HD21	1.63	0.45
1:R:489:SER:OG	1:R:494:ASP:HB2	2.16	0.45
1:S:353:VAL:H	1:S:645:GLN:NE2	2.14	0.45
1:T:696:PRO:HD3	1:W:293:PRO:HB2	1.98	0.45
1:X:469:ASP:OD1	1:X:469:ASP:N	2.42	0.45
1:Z:432:ARG:HA	1:Z:434:MET:HE3	1.99	0.45
1:1:353:VAL:H	1:1:645:GLN:NE2	2.14	0.45
1:1:432:ARG:HA	1:1:434:MET:HE3	1.99	0.45
1:3:549:LYS:HG2	1:3:549:LYS:O	2.16	0.45
1:e:549:LYS:O	1:e:549:LYS:HG2	2.16	0.45
1:g:696:PRO:HD3	1:z:293:PRO:HB2	1.98	0.45
1:o:489:SER:OG	1:o:494:ASP:HB2	2.16	0.45
1:q:432:ARG:HA	1:q:434:MET:HE3	1.99	0.45
1:t:549:LYS:HG2	1:t:549:LYS:O	2.16	0.45
1:w:489:SER:OG	1:w:494:ASP:HB2	2.16	0.45
1:z:549:LYS:O	1:z:549:LYS:HG2	2.16	0.45
1:8:432:ARG:HA	1:8:434:MET:HE3	1.99	0.45
2:Lh:63:GLY:CA	3:Ll:108:TYR:CZ	2.96	0.45
2:2h:35:ARG:HG2	2:2h:36:SER:N	2.28	0.45
2:4h:70:ILE:HD13	2:4h:91:ARG:CG	2.46	0.45
2:bh:77:LYS:HB2	2:bh:77:LYS:HZ1	1.81	0.45
3:Al:30:ALA:O	3:Al:126:VAL:HA	2.17	0.45
3:Bl:26:GLN:HG2	3:Bl:41:SER:O	2.16	0.45
3:Il:56:TRP:HB2	3:Il:69:ILE:HB	1.98	0.45
3:Il:113:ASP:OD2	3:Il:115:SER:OG	2.29	0.45
3:Jl:26:GLN:HG2	3:Jl:41:SER:O	2.16	0.45
3:Mi:55:ASN:OD1	3:Mi:70:TYR:HA	2.17	0.45
3:Ol:30:ALA:O	3:Ol:126:VAL:HA	2.17	0.45
3:Pl:30:ALA:O	3:Pl:126:VAL:HA	2.17	0.45
3:Vl:113:ASP:OD2	3:Vl:115:SER:OG	2.29	0.45
3:5l:30:ALA:O	3:5l:126:VAL:HA	2.17	0.45
3:al:26:GLN:HG2	3:al:41:SER:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:bl:55:ASN:OD1	3:bl:70:TYR:HA	2.17	0.45
3:dl:30:ALA:O	3:dl:126:VAL:HA	2.17	0.45
3:fl:30:ALA:O	3:fl:126:VAL:HA	2.17	0.45
3:gl:26:GLN:HG2	3:gl:41:SER:O	2.16	0.45
3:nl:100:GLN:HE21	3:nl:100:GLN:HB3	1.67	0.45
3:pl:30:ALA:O	3:pl:126:VAL:HA	2.17	0.45
3:ul:114:ASP:OD1	3:ul:115:SER:N	2.47	0.45
3:vl:115:SER:O	3:vl:117:ASN:N	2.48	0.45
3:wl:30:ALA:O	3:wl:126:VAL:HA	2.17	0.45
3:8l:114:ASP:OD1	3:8l:115:SER:N	2.47	0.45
1:C:696:PRO:HD3	1:H:293:PRO:HB2	1.98	0.45
1:D:432:ARG:HA	1:D:434:MET:HE3	1.99	0.45
1:J:224:SER:H	1:i:407:ASN:HD21	1.63	0.45
1:J:696:PRO:HD3	1:v:293:PRO:HB2	1.98	0.45
1:K:549:LYS:O	1:K:549:LYS:HG2	2.16	0.45
1:L:549:LYS:HG2	1:L:549:LYS:O	2.16	0.45
1:M:696:PRO:HD3	1:4:293:PRO:HB2	1.98	0.45
1:N:407:ASN:HD21	1:j:224:SER:H	1.63	0.45
1:N:549:LYS:HG2	1:N:549:LYS:O	2.16	0.45
1:T:293:PRO:HB2	1:W:696:PRO:HD3	1.98	0.45
1:W:549:LYS:O	1:W:549:LYS:HG2	2.16	0.45
1:X:407:ASN:HD21	1:v:224:SER:H	1.63	0.45
1:1:224:SER:H	1:o:407:ASN:HD21	1.64	0.45
1:5:549:LYS:O	1:5:549:LYS:HG2	2.16	0.45
1:a:432:ARG:HA	1:a:434:MET:HE3	1.99	0.45
1:c:549:LYS:O	1:c:549:LYS:HG2	2.16	0.45
1:e:432:ARG:HA	1:e:434:MET:HE3	1.99	0.45
1:i:696:PRO:HD3	1:w:293:PRO:HB2	1.98	0.45
1:k:293:PRO:HB2	1:u:696:PRO:HD3	1.98	0.45
1:k:696:PRO:HD3	1:u:293:PRO:HB2	1.98	0.45
1:u:353:VAL:H	1:u:645:GLN:NE2	2.14	0.45
1:w:353:VAL:H	1:w:645:GLN:NE2	2.14	0.45
1:x:489:SER:OG	1:x:494:ASP:HB2	2.16	0.45
2:Lh:70:ILE:HD13	2:Lh:91:ARG:CG	2.46	0.45
2:Yh:77:LYS:HB2	2:Yh:77:LYS:HZ1	1.81	0.45
2:th:63:GLY:CA	3:tl:108:TYR:CZ	2.96	0.45
2:th:70:ILE:HD13	2:th:91:ARG:CG	2.46	0.45
2:zh:63:GLY:CA	3:zl:108:TYR:CZ	2.96	0.45
3:Gl:115:SER:O	3:Gl:117:ASN:N	2.48	0.45
3:Il:30:ALA:O	3:Il:126:VAL:HA	2.17	0.45
3:Pl:114:ASP:OD1	3:Pl:115:SER:N	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Zl:100:GLN:HE21	3:Zl:100:GLN:HB3	1.67	0.45
3:2l:30:ALA:O	3:2l:126:VAL:HA	2.17	0.45
3:3l:30:ALA:O	3:3l:126:VAL:HA	2.17	0.45
3:jl:56:TRP:HB2	3:jl:69:ILE:HB	1.98	0.45
3:jl:114:ASP:OD1	3:jl:115:SER:N	2.47	0.45
3:pl:113:ASP:OD2	3:pl:115:SER:OG	2.29	0.45
3:ul:26:GLN:HG2	3:ul:41:SER:O	2.16	0.45
1:A:293:PRO:HB2	1:O:696:PRO:HD3	1.98	0.45
1:C:432:ARG:HA	1:C:434:MET:HE3	1.99	0.45
1:H:549:LYS:O	1:H:549:LYS:HG2	2.16	0.45
1:J:293:PRO:HB2	1:v:696:PRO:HD3	1.98	0.45
1:J:407:ASN:HD21	1:Y:224:SER:H	1.63	0.45
1:S:432:ARG:HA	1:S:434:MET:HE3	1.99	0.45
1:X:489:SER:OG	1:X:494:ASP:HB2	2.16	0.45
1:5:696:PRO:HD3	1:q:293:PRO:HB2	1.98	0.45
1:a:696:PRO:HD3	1:y:293:PRO:HB2	1.98	0.45
1:b:696:PRO:HD3	1:h:293:PRO:HB2	1.98	0.45
1:d:407:ASN:HD21	1:g:224:SER:H	1.63	0.45
1:e:293:PRO:HB2	1:x:696:PRO:HD3	1.98	0.45
1:g:293:PRO:HB2	1:z:696:PRO:HD3	1.98	0.45
1:i:469:ASP:OD1	1:i:469:ASP:N	2.42	0.45
1:i:489:SER:OG	1:i:494:ASP:HB2	2.16	0.45
1:k:489:SER:OG	1:k:494:ASP:HB2	2.16	0.45
1:l:432:ARG:HA	1:l:434:MET:HE3	1.99	0.45
1:r:224:SER:H	1:z:407:ASN:HD21	1.63	0.45
1:x:549:LYS:O	1:x:549:LYS:HG2	2.16	0.45
1:y:549:LYS:HG2	1:y:549:LYS:O	2.16	0.45
2:Nh:70:ILE:HD13	2:Nh:91:ARG:CG	2.46	0.45
2:6h:35:ARG:HG2	2:6h:36:SER:N	2.28	0.45
2:ch:70:ILE:HD13	2:ch:91:ARG:CG	2.46	0.45
3:Al:113:ASP:OD2	3:Al:115:SER:OG	2.29	0.45
3:Bl:55:ASN:OD1	3:Bl:70:TYR:HA	2.17	0.45
3:Cl:30:ALA:O	3:Cl:126:VAL:HA	2.17	0.45
3:Fl:55:ASN:OD1	3:Fl:70:TYR:HA	2.17	0.45
3:Gl:55:ASN:OD1	3:Gl:70:TYR:HA	2.17	0.45
3:Il:26:GLN:HG2	3:Il:41:SER:O	2.16	0.45
3:Nl:55:ASN:OD1	3:Nl:70:TYR:HA	2.17	0.45
3:Nl:56:TRP:HB2	3:Nl:69:ILE:HB	1.98	0.45
3:Ql:55:ASN:OD1	3:Ql:70:TYR:HA	2.17	0.45
3:Ul:55:ASN:OD1	3:Ul:70:TYR:HA	2.17	0.45
3:Wl:114:ASP:OD1	3:Wl:115:SER:N	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Xl:56:TRP:HB2	3:Xl:69:ILE:HB	1.98	0.45
3:1l:56:TRP:HB2	3:1l:69:ILE:HB	1.98	0.45
3:6l:30:ALA:O	3:6l:126:VAL:HA	2.17	0.45
3:6l:100:GLN:HE21	3:6l:100:GLN:HB3	1.67	0.45
3:al:30:ALA:O	3:al:126:VAL:HA	2.17	0.45
3:cl:55:ASN:OD1	3:cl:70:TYR:HA	2.17	0.45
3:dl:56:TRP:HB2	3:dl:69:ILE:HB	1.98	0.45
3:dl:114:ASP:OD1	3:dl:115:SER:N	2.47	0.45
3:el:30:ALA:O	3:el:126:VAL:HA	2.17	0.45
3:kl:30:ALA:O	3:kl:126:VAL:HA	2.17	0.45
3:ml:55:ASN:OD1	3:ml:70:TYR:HA	2.17	0.45
3:nl:55:ASN:OD1	3:nl:70:TYR:HA	2.17	0.45
3:ol:30:ALA:O	3:ol:126:VAL:HA	2.17	0.45
3:sl:26:GLN:HG2	3:sl:41:SER:O	2.16	0.45
3:sl:55:ASN:OD1	3:sl:70:TYR:HA	2.17	0.45
3:ul:55:ASN:OD1	3:ul:70:TYR:HA	2.17	0.45
3:vl:26:GLN:HG2	3:vl:41:SER:O	2.16	0.45
3:wl:56:TRP:HB2	3:wl:69:ILE:HB	1.98	0.45
3:zl:114:ASP:OD1	3:zl:115:SER:N	2.47	0.45
1:A:696:PRO:HD3	1:O:293:PRO:HB2	1.99	0.45
1:E:293:PRO:HB2	1:3:696:PRO:HD3	1.98	0.45
1:J:353:VAL:H	1:J:645:GLN:HE22	1.65	0.45
1:N:489:SER:OG	1:N:494:ASP:HB2	2.16	0.45
1:O:353:VAL:H	1:O:645:GLN:NE2	2.14	0.45
1:P:407:ASN:HD21	1:T:224:SER:H	1.63	0.45
1:P:696:PRO:HD3	1:V:293:PRO:HB2	1.98	0.45
1:f:353:VAL:H	1:f:645:GLN:NE2	2.14	0.45
1:j:469:ASP:OD1	1:j:469:ASP:N	2.42	0.45
1:l:353:VAL:H	1:l:645:GLN:HE22	1.65	0.45
1:v:353:VAL:H	1:v:645:GLN:HE22	1.65	0.45
1:v:407:ASN:HD21	1:7:224:SER:H	1.63	0.45
2:Ch:56:VAL:CG2	2:Ch:140:TRP:CZ3	3.00	0.45
2:Vh:63:GLY:CA	3:Vl:108:TYR:CZ	2.96	0.45
2:Yh:56:VAL:CG2	2:Yh:140:TRP:CZ3	3.00	0.45
2:ah:56:VAL:CG2	2:ah:140:TRP:CZ3	3.00	0.45
2:zh:70:ILE:HD13	2:zh:91:ARG:CG	2.46	0.45
2:7h:56:VAL:CG2	2:7h:140:TRP:CZ3	3.00	0.45
3:El:114:ASP:OD1	3:El:115:SER:N	2.47	0.45
3:Hl:30:ALA:O	3:Hl:126:VAL:HA	2.17	0.45
3:HI:55:ASN:OD1	3:HI:70:TYR:HA	2.17	0.45
3:Ll:30:ALA:O	3:Ll:126:VAL:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Nl:30:ALA:O	3:Nl:126:VAL:HA	2.17	0.45
3:Rl:30:ALA:O	3:Rl:126:VAL:HA	2.17	0.45
3:Rl:56:TRP:HB2	3:Rl:69:ILE:HB	1.98	0.45
3:Tl:55:ASN:OD1	3:Tl:70:TYR:HA	2.17	0.45
3:Vl:114:ASP:OD1	3:Vl:115:SER:N	2.47	0.45
3:Zl:55:ASN:OD1	3:Zl:70:TYR:HA	2.17	0.45
3:Zl:114:ASP:OD1	3:Zl:115:SER:N	2.47	0.45
3:il:56:TRP:HB2	3:il:69:ILE:HB	1.98	0.45
3:kl:56:TRP:HB2	3:kl:69:ILE:HB	1.98	0.45
3:nl:115:SER:O	3:nl:117:ASN:N	2.48	0.45
3:ol:26:GLN:HG2	3:ol:41:SER:O	2.16	0.45
3:rl:55:ASN:OD1	3:rl:70:TYR:HA	2.17	0.45
3:yl:30:ALA:O	3:yl:126:VAL:HA	2.17	0.45
3:yl:56:TRP:HB2	3:yl:69:ILE:HB	1.98	0.45
3:8l:55:ASN:OD1	3:8l:70:TYR:HA	2.17	0.45
3:8l:100:GLN:HE21	3:8l:100:GLN:HB3	1.67	0.45
1:D:293:PRO:HB2	1:K:696:PRO:HD3	1.98	0.45
1:L:293:PRO:HB2	1:m:696:PRO:HD3	1.98	0.45
1:N:696:PRO:HD3	1:r:293:PRO:HB2	1.98	0.45
1:O:432:ARG:HA	1:O:434:MET:HE3	1.99	0.45
1:O:484:ARG:HH11	1:O:484:ARG:HD2	1.66	0.45
1:Q:293:PRO:HB2	1:c:696:PRO:HD3	1.98	0.45
1:S:293:PRO:HB2	1:l:696:PRO:HD3	1.98	0.45
1:S:696:PRO:HD3	1:l:293:PRO:HB2	1.98	0.45
1:U:696:PRO:HD3	1:t:293:PRO:HB2	1.98	0.45
1:X:696:PRO:HD3	1:1:293:PRO:HB2	1.99	0.45
1:Z:353:VAL:H	1:Z:645:GLN:HE22	1.65	0.45
1:d:696:PRO:HD3	1:j:293:PRO:HB2	1.98	0.45
1:g:353:VAL:H	1:g:645:GLN:HE22	1.65	0.45
2:Dh:77:LYS:HB2	2:Dh:77:LYS:HZ1	1.80	0.45
2:Hh:56:VAL:CG2	2:Hh:140:TRP:CZ3	3.00	0.45
2:Rh:56:VAL:CG2	2:Rh:140:TRP:CZ3	3.00	0.45
2:Sh:56:VAL:CG2	2:Sh:140:TRP:CZ3	3.00	0.45
2:Wh:63:GLY:CA	3:Wl:108:TYR:CZ	2.97	0.45
2:Wh:70:ILE:HD13	2:Wh:91:ARG:CG	2.46	0.45
2:Wh:77:LYS:CD	2:Wh:89:ILE:CG1	2.74	0.45
2:Zh:56:VAL:CG2	2:Zh:140:TRP:CZ3	3.00	0.45
2:jh:63:GLY:CA	3:jl:108:TYR:CZ	2.96	0.45
2:kh:56:VAL:CG2	2:kh:140:TRP:CZ3	3.00	0.45
2:lh:56:VAL:CG2	2:lh:140:TRP:CZ3	3.00	0.45
2:xh:63:GLY:CA	3:xl:108:TYR:CZ	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:yh:56:VAL:CG2	2:yh:140:TRP:CZ3	3.00	0.45
2:zh:77:LYS:CD	2:zh:89:ILE:CG1	2.74	0.45
2:8h:56:VAL:CG2	2:8h:140:TRP:CZ3	3.00	0.45
3:DI:30:ALA:O	3:DI:126:VAL:HA	2.17	0.45
3:DI:55:ASN:OD1	3:DI:70:TYR:HA	2.17	0.45
3:FI:26:GLN:HG2	3:FI:41:SER:O	2.16	0.45
3:PI:55:ASN:OD1	3:PI:70:TYR:HA	2.17	0.45
3:QI:114:ASP:OD1	3:QI:115:SER:N	2.47	0.45
3:WI:30:ALA:O	3:WI:126:VAL:HA	2.17	0.45
3:cl:30:ALA:O	3:cl:126:VAL:HA	2.17	0.45
3:cl:56:TRP:HB2	3:cl:69:ILE:HB	1.98	0.45
3:el:55:ASN:OD1	3:el:70:TYR:HA	2.17	0.45
3:gl:30:ALA:O	3:gl:126:VAL:HA	2.17	0.45
3:gl:55:ASN:OD1	3:gl:70:TYR:HA	2.17	0.45
3:nl:56:TRP:HB2	3:nl:69:ILE:HB	1.98	0.45
3:ql:114:ASP:OD1	3:ql:115:SER:N	2.47	0.45
3:tl:30:ALA:O	3:tl:126:VAL:HA	2.17	0.45
3:yl:55:ASN:OD1	3:yl:70:TYR:HA	2.17	0.45
3:zl:30:ALA:O	3:zl:126:VAL:HA	2.17	0.45
1:A:353:VAL:H	1:A:645:GLN:NE2	2.14	0.44
1:N:293:PRO:HB2	1:r:696:PRO:HD3	1.98	0.44
1:Q:432:ARG:HA	1:Q:434:MET:HE3	1.99	0.44
1:Q:696:PRO:HD3	1:c:293:PRO:HB2	1.98	0.44
1:R:432:ARG:HA	1:R:434:MET:HE3	1.99	0.44
1:S:353:VAL:H	1:S:645:GLN:HE22	1.65	0.44
1:T:353:VAL:H	1:T:645:GLN:HE22	1.65	0.44
1:b:293:PRO:HB2	1:h:696:PRO:HD3	1.98	0.44
1:c:432:ARG:HA	1:c:434:MET:HE3	1.99	0.44
1:c:489:SER:OG	1:c:494:ASP:HB2	2.16	0.44
1:k:432:ARG:HA	1:k:434:MET:HE3	1.99	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
1:8:353:VAL:H	1:8:645:GLN:HE22	1.65	0.44
2:Ah:35:ARG:HG2	2:Ah:36:SER:N	2.28	0.44
2:Lh:56:VAL:CG2	2:Lh:140:TRP:CZ3	3.00	0.44
2:Qh:63:GLY:CA	3:QI:108:TYR:CZ	2.95	0.44
2:Wh:56:VAL:CG2	2:Wh:140:TRP:CZ3	3.00	0.44
2:2h:56:VAL:CG2	2:2h:140:TRP:CZ3	3.00	0.44
2:6h:56:VAL:CG2	2:6h:140:TRP:CZ3	3.00	0.44
2:bh:56:VAL:CG2	2:bh:140:TRP:CZ3	3.00	0.44
2:th:56:VAL:CG2	2:th:140:TRP:CZ3	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:zh:56:VAL:CG2	2:zh:140:TRP:CZ3	3.00	0.44
3:El:30:ALA:O	3:El:126:VAL:HA	2.17	0.44
3:Gl:56:TRP:HB2	3:Gl:69:ILE:HB	1.98	0.44
3:Ml:115:SER:O	3:Ml:117:ASN:N	2.48	0.44
3:Pl:56:TRP:HB2	3:Pl:69:ILE:HB	1.98	0.44
3:Sl:55:ASN:OD1	3:Sl:70:TYR:HA	2.17	0.44
3:dl:55:ASN:OD1	3:dl:70:TYR:HA	2.17	0.44
3:sl:30:ALA:O	3:sl:126:VAL:HA	2.17	0.44
1:D:696:PRO:HD3	1:K:293:PRO:HB2	1.98	0.44
1:F:293:PRO:HB2	1:Z:696:PRO:HD3	1.97	0.44
1:H:432:ARG:HA	1:H:434:MET:HE3	1.99	0.44
1:I:293:PRO:HB2	1:7:696:PRO:HD3	1.98	0.44
1:J:432:ARG:HA	1:J:434:MET:HE3	1.99	0.44
1:M:293:PRO:HB2	1:4:696:PRO:HD3	1.98	0.44
1:N:432:ARG:HA	1:N:434:MET:HE3	1.99	0.44
1:P:293:PRO:HB2	1:V:696:PRO:HD3	1.98	0.44
1:V:395:LEU:HD23	1:V:647:LEU:HD23	2.00	0.44
1:V:469:ASP:OD1	1:V:469:ASP:N	2.42	0.44
1:Y:353:VAL:H	1:Y:645:GLN:HE22	1.66	0.44
1:Y:353:VAL:H	1:Y:645:GLN:NE2	2.14	0.44
1:1:353:VAL:H	1:1:645:GLN:HE22	1.65	0.44
1:4:395:LEU:HD23	1:4:647:LEU:HD23	2.00	0.44
1:e:696:PRO:HD3	1:x:293:PRO:HB2	1.98	0.44
1:f:432:ARG:HA	1:f:434:MET:HE3	1.99	0.44
1:h:395:LEU:HD23	1:h:647:LEU:HD23	2.00	0.44
1:y:432:ARG:HA	1:y:434:MET:HE3	1.99	0.44
1:7:353:VAL:H	1:7:645:GLN:NE2	2.14	0.44
2:Bh:56:VAL:CG2	2:Bh:140:TRP:CZ3	3.00	0.44
2:Kh:63:GLY:CA	3:Kl:108:TYR:CZ	2.95	0.44
2:Mh:56:VAL:CG2	2:Mh:140:TRP:CZ3	3.00	0.44
2:ah:63:GLY:CA	3:al:108:TYR:CZ	2.96	0.44
3:Fl:30:ALA:O	3:Fl:126:VAL:HA	2.17	0.44
3:Gl:100:GLN:HE21	3:Gl:100:GLN:HB3	1.67	0.44
3:Ml:56:TRP:HB2	3:Ml:69:ILE:HB	1.98	0.44
3:Tl:30:ALA:O	3:Tl:126:VAL:HA	2.17	0.44
3:Yl:56:TRP:HB2	3:Yl:69:ILE:HB	1.98	0.44
3:3l:55:ASN:OD1	3:3l:70:TYR:HA	2.17	0.44
3:bl:115:SER:O	3:bl:117:ASN:N	2.48	0.44
3:ll:55:ASN:OD1	3:ll:70:TYR:HA	2.17	0.44
3:ql:30:ALA:O	3:ql:126:VAL:HA	2.17	0.44
3:rl:114:ASP:OD1	3:rl:115:SER:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:wl:55:ASN:OD1	3:wl:70:TYR:HA	2.17	0.44
3:7l:56:TRP:HB2	3:7l:69:ILE:HB	1.98	0.44
1:L:395:LEU:HD23	1:L:647:LEU:HD23	2.00	0.44
1:N:395:LEU:HD23	1:N:647:LEU:HD23	2.00	0.44
1:O:353:VAL:H	1:O:645:GLN:HE22	1.65	0.44
1:Y:696:PRO:HD3	1:o:293:PRO:HB2	1.98	0.44
1:b:549:LYS:O	1:b:549:LYS:HG2	2.16	0.44
1:c:395:LEU:HD23	1:c:647:LEU:HD23	2.00	0.44
1:d:293:PRO:HB2	1:j:696:PRO:HD3	1.98	0.44
1:f:293:PRO:HB2	1:p:696:PRO:HD3	1.99	0.44
1:f:353:VAL:H	1:f:645:GLN:HE22	1.66	0.44
1:h:484:ARG:HH11	1:h:484:ARG:HD2	1.66	0.44
1:j:395:LEU:HD23	1:j:647:LEU:HD23	2.00	0.44
1:p:353:VAL:H	1:p:645:GLN:NE2	2.14	0.44
1:t:395:LEU:HD23	1:t:647:LEU:HD23	2.00	0.44
1:u:353:VAL:H	1:u:645:GLN:HE22	1.65	0.44
1:w:353:VAL:H	1:w:645:GLN:HE22	1.66	0.44
1:7:353:VAL:H	1:7:645:GLN:HE22	1.66	0.44
2:Eh:56:VAL:CG2	2:Eh:140:TRP:CZ3	3.00	0.44
2:Fh:56:VAL:CG2	2:Fh:140:TRP:CZ3	3.00	0.44
2:Nh:56:VAL:CG2	2:Nh:140:TRP:CZ3	3.00	0.44
2:ch:56:VAL:CG2	2:ch:140:TRP:CZ3	3.00	0.44
2:ph:35:ARG:HG2	2:ph:36:SER:N	2.28	0.44
2:qh:56:VAL:CG2	2:qh:140:TRP:CZ3	3.00	0.44
2:uh:56:VAL:CG2	2:uh:140:TRP:CZ3	3.00	0.44
2:xh:56:VAL:CG2	2:xh:140:TRP:CZ3	3.00	0.44
2:xh:77:LYS:HB2	2:xh:77:LYS:HZ1	1.83	0.44
3:Vl:30:ALA:O	3:Vl:126:VAL:HA	2.17	0.44
3:Vl:55:ASN:OD1	3:Vl:70:TYR:HA	2.17	0.44
3:2l:100:GLN:HE21	3:2l:100:GLN:HB3	1.68	0.44
3:5l:55:ASN:OD1	3:5l:70:TYR:HA	2.17	0.44
3:bl:56:TRP:HB2	3:bl:69:ILE:HB	1.98	0.44
3:jl:30:ALA:O	3:jl:126:VAL:HA	2.17	0.44
3:zl:115:SER:O	3:zl:117:ASN:N	2.48	0.44
1:B:353:VAL:H	1:B:645:GLN:HE22	1.65	0.44
1:W:395:LEU:HD23	1:W:647:LEU:HD23	2.00	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:d:432:ARG:HA	1:d:434:MET:HE3	1.99	0.44
1:m:395:LEU:HD23	1:m:647:LEU:HD23	2.00	0.44
1:q:353:VAL:H	1:q:645:GLN:HE22	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:353:VAL:H	1:s:645:GLN:HE22	1.65	0.44
1:x:353:VAL:H	1:x:645:GLN:HE22	1.65	0.44
2:Kh:56:VAL:CG2	2:Kh:140:TRP:CZ3	3.00	0.44
2:Kh:77:LYS:HB2	2:Kh:77:LYS:HZ1	1.83	0.44
2:Qh:56:VAL:CG2	2:Qh:140:TRP:CZ3	3.00	0.44
2:Zh:77:LYS:HB2	2:Zh:77:LYS:HZ1	1.81	0.44
2:rh:63:GLY:CA	3:rl:108:TYR:CZ	2.95	0.44
3:Cl:55:ASN:OD1	3:Cl:70:TYR:HA	2.17	0.44
3:Nl:26:GLN:HG2	3:Nl:41:SER:O	2.16	0.44
3:Tl:56:TRP:HB2	3:Tl:69:ILE:HB	1.98	0.44
3:Wl:115:SER:O	3:Wl:117:ASN:N	2.48	0.44
3:1l:55:ASN:OD1	3:1l:70:TYR:HA	2.17	0.44
3:jl:55:ASN:OD1	3:jl:70:TYR:HA	2.17	0.44
1:E:353:VAL:H	1:E:645:GLN:HE22	1.65	0.44
1:F:353:VAL:H	1:F:645:GLN:HE22	1.65	0.44
1:K:353:VAL:H	1:K:645:GLN:HE22	1.65	0.44
1:M:549:LYS:O	1:M:549:LYS:HG2	2.16	0.44
1:P:432:ARG:HA	1:P:434:MET:HE3	1.99	0.44
1:U:395:LEU:HD23	1:U:647:LEU:HD23	2.00	0.44
1:X:395:LEU:HD23	1:X:647:LEU:HD23	2.00	0.44
1:h:353:VAL:H	1:h:645:GLN:HE22	1.65	0.44
1:i:395:LEU:HD23	1:i:647:LEU:HD23	2.00	0.44
1:q:395:LEU:HD23	1:q:647:LEU:HD23	2.00	0.44
1:z:395:LEU:HD23	1:z:647:LEU:HD23	2.00	0.44
2:Ch:63:GLY:CA	3:Cl:108:TYR:CZ	2.96	0.44
2:Ih:56:VAL:CG2	2:Ih:140:TRP:CZ3	3.00	0.44
2:Jh:56:VAL:CG2	2:Jh:140:TRP:CZ3	3.00	0.44
2:Rh:86:ARG:HG3	2:Rh:104:SER:HB2	2.00	0.44
2:gh:56:VAL:CG2	2:gh:140:TRP:CZ3	3.00	0.44
2:kh:86:ARG:HG3	2:kh:104:SER:HB2	2.00	0.44
2:oh:56:VAL:CG2	2:oh:140:TRP:CZ3	3.00	0.44
2:rh:56:VAL:CG2	2:rh:140:TRP:CZ3	3.00	0.44
2:sh:56:VAL:CG2	2:sh:140:TRP:CZ3	3.01	0.44
3:Wl:55:ASN:OD1	3:Wl:70:TYR:HA	2.17	0.44
3:1l:113:ASP:OD2	3:1l:115:SER:OG	2.29	0.44
3:2l:55:ASN:OD1	3:2l:70:TYR:HA	2.17	0.44
3:al:55:ASN:OD1	3:al:70:TYR:HA	2.17	0.44
3:cl:26:GLN:HG2	3:cl:41:SER:O	2.16	0.44
3:gl:56:TRP:HB2	3:gl:69:ILE:HB	1.98	0.44
3:ol:55:ASN:OD1	3:ol:70:TYR:HA	2.17	0.44
3:rl:30:ALA:O	3:rl:126:VAL:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:zl:55:ASN:OD1	3:zl:70:TYR:HA	2.17	0.44
3:zl:100:GLN:HE21	3:zl:100:GLN:HB3	1.68	0.44
1:E:395:LEU:HD23	1:E:647:LEU:HD23	2.00	0.44
1:F:696:PRO:HD3	1:Z:293:PRO:HB2	1.99	0.44
1:H:395:LEU:HD23	1:H:647:LEU:HD23	2.00	0.44
1:T:722:GLU:HA	1:T:723:PRO:HD3	1.88	0.44
1:1:395:LEU:HD23	1:1:647:LEU:HD23	2.00	0.44
1:4:353:VAL:H	1:4:645:GLN:HE22	1.65	0.44
1:q:353:VAL:H	1:q:645:GLN:NE2	2.14	0.44
1:s:293:PRO:HB2	1:8:696:PRO:HD3	1.97	0.44
1:s:696:PRO:HD3	1:8:293:PRO:HB2	1.99	0.44
1:w:395:LEU:HD23	1:w:647:LEU:HD23	2.00	0.44
2:Ih:86:ARG:HG3	2:Ih:104:SER:HB2	2.00	0.44
2:Th:56:VAL:CG2	2:Th:140:TRP:CZ3	3.00	0.44
2:Uh:56:VAL:CG2	2:Uh:140:TRP:CZ3	3.00	0.44
2:Yh:63:GLY:CA	3:Yl:108:TYR:CZ	2.96	0.44
2:1h:86:ARG:HG3	2:1h:104:SER:HB2	2.00	0.44
2:hh:56:VAL:CG2	2:hh:140:TRP:CZ3	3.00	0.44
2:mh:56:VAL:CG2	2:mh:140:TRP:CZ3	3.00	0.44
2:oh:86:ARG:HG3	2:oh:104:SER:HB2	2.00	0.44
2:vh:56:VAL:CG2	2:vh:140:TRP:CZ3	3.00	0.44
2:8h:77:LYS:HB2	2:8h:77:LYS:HZ1	1.81	0.44
3:Il:55:ASN:OD1	3:Il:70:TYR:HA	2.17	0.44
3:fl:113:ASP:OD2	3:fl:115:SER:OG	2.29	0.44
3:il:55:ASN:OD1	3:il:70:TYR:HA	2.17	0.44
3:tl:55:ASN:OD1	3:tl:70:TYR:HA	2.17	0.44
1:D:353:VAL:H	1:D:645:GLN:HE22	1.65	0.44
1:K:395:LEU:HD23	1:K:647:LEU:HD23	2.00	0.44
1:T:432:ARG:HA	1:T:434:MET:HE3	1.99	0.44
1:f:484:ARG:HH11	1:f:484:ARG:HD2	1.66	0.44
1:g:432:ARG:HA	1:g:434:MET:HE3	1.99	0.44
1:q:484:ARG:HH11	1:q:484:ARG:HD2	1.66	0.44
1:y:353:VAL:H	1:y:645:GLN:HE22	1.66	0.44
1:y:469:ASP:OD1	1:y:469:ASP:N	2.42	0.44
2:Fh:77:LYS:CD	2:Fh:89:ILE:CG1	2.74	0.44
2:Hh:86:ARG:HG3	2:Hh:104:SER:HB2	2.00	0.44
2:Mh:77:LYS:CD	2:Mh:89:ILE:CG1	2.74	0.44
2:Oh:56:VAL:CG2	2:Oh:140:TRP:CZ3	3.00	0.44
2:Ph:86:ARG:HG3	2:Ph:104:SER:HB2	2.00	0.44
2:Sh:86:ARG:HG3	2:Sh:104:SER:HB2	2.00	0.44
2:1h:77:LYS:CD	2:1h:89:ILE:CG1	2.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4h:56:VAL:CG2	2:4h:140:TRP:CZ3	3.00	0.44
2:dh:86:ARG:HG3	2:dh:104:SER:HB2	2.00	0.44
2:lh:86:ARG:HG3	2:lh:104:SER:HB2	2.00	0.44
2:wh:86:ARG:HG3	2:wh:104:SER:HB2	2.00	0.44
2:yh:86:ARG:HG3	2:yh:104:SER:HB2	2.00	0.44
3:Bl:30:ALA:O	3:Bl:126:VAL:HA	2.17	0.44
3:Ll:55:ASN:OD1	3:Ll:70:TYR:HA	2.17	0.44
3:Ql:30:ALA:O	3:Ql:126:VAL:HA	2.17	0.44
3:Xl:30:ALA:O	3:Xl:126:VAL:HA	2.17	0.44
3:6l:55:ASN:OD1	3:6l:70:TYR:HA	2.17	0.44
3:ul:30:ALA:O	3:ul:126:VAL:HA	2.17	0.44
1:D:395:LEU:HD23	1:D:647:LEU:HD23	2.00	0.44
1:E:353:VAL:H	1:E:645:GLN:NE2	2.14	0.44
1:H:353:VAL:H	1:H:645:GLN:HE22	1.66	0.44
1:T:484:ARG:HH11	1:T:484:ARG:HD2	1.66	0.44
1:2:353:VAL:H	1:2:645:GLN:HE22	1.65	0.44
1:6:353:VAL:H	1:6:645:GLN:HE22	1.65	0.44
1:6:432:ARG:HA	1:6:434:MET:HE3	1.99	0.44
1:e:353:VAL:H	1:e:645:GLN:HE22	1.65	0.44
1:e:395:LEU:HD23	1:e:647:LEU:HD23	2.00	0.44
1:f:469:ASP:OD1	1:f:469:ASP:N	2.42	0.44
1:o:395:LEU:HD23	1:o:647:LEU:HD23	2.00	0.44
1:s:432:ARG:HA	1:s:434:MET:HE3	1.99	0.44
1:x:395:LEU:HD23	1:x:647:LEU:HD23	2.00	0.44
1:y:395:LEU:HD23	1:y:647:LEU:HD23	2.00	0.44
2:Mh:77:LYS:HB2	2:Mh:77:LYS:HZ1	1.83	0.44
2:1h:56:VAL:CG2	2:1h:140:TRP:CZ3	3.00	0.44
2:5h:56:VAL:CG2	2:5h:140:TRP:CZ3	3.00	0.44
2:fh:56:VAL:CG2	2:fh:140:TRP:CZ3	3.00	0.44
2:ph:56:VAL:CG2	2:ph:140:TRP:CZ3	3.00	0.44
2:wh:56:VAL:CG2	2:wh:140:TRP:CZ3	3.00	0.44
3:Jl:53:THR:HG23	3:Jl:72:ASN:ND2	2.33	0.44
3:Ol:113:ASP:OD2	3:Ol:115:SER:OG	2.29	0.44
3:Rl:55:ASN:OD1	3:Rl:70:TYR:HA	2.17	0.44
3:5l:53:THR:HG23	3:5l:72:ASN:ND2	2.33	0.44
3:hl:30:ALA:O	3:hl:126:VAL:HA	2.17	0.44
3:il:30:ALA:O	3:il:126:VAL:HA	2.17	0.44
3:kl:55:ASN:OD1	3:kl:70:TYR:HA	2.17	0.44
3:pl:53:THR:HG23	3:pl:72:ASN:ND2	2.33	0.44
1:G:353:VAL:H	1:G:645:GLN:HE22	1.65	0.44
1:G:434:MET:H	1:G:434:MET:HG2	1.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:353:VAL:H	1:V:645:GLN:HE22	1.65	0.44
1:2:293:PRO:HB2	1:n:696:PRO:HD3	1.98	0.44
1:2:432:ARG:HA	1:2:434:MET:HE3	1.99	0.44
1:5:395:LEU:HD23	1:5:647:LEU:HD23	2.00	0.44
1:g:484:ARG:HH11	1:g:484:ARG:HD2	1.66	0.44
1:j:353:VAL:H	1:j:645:GLN:HE22	1.65	0.44
2:Ah:56:VAL:CG2	2:Ah:140:TRP:CZ3	3.00	0.44
2:Gh:63:GLY:CA	3:Gl:108:TYR:CZ	2.96	0.44
2:Ph:56:VAL:CG2	2:Ph:140:TRP:CZ3	3.00	0.44
2:Rh:63:GLY:CA	3:Rl:108:TYR:CZ	2.96	0.44
2:3h:56:VAL:CG2	2:3h:140:TRP:CZ3	3.00	0.44
2:dh:56:VAL:CG2	2:dh:140:TRP:CZ3	3.00	0.44
2:eh:56:VAL:CG2	2:eh:140:TRP:CZ3	3.00	0.44
2:jh:86:ARG:HG3	2:jh:104:SER:HB2	2.00	0.44
2:kh:63:GLY:CA	3:kl:108:TYR:CZ	2.96	0.44
2:nh:63:GLY:CA	3:nl:108:TYR:CZ	2.96	0.44
2:uh:86:ARG:HG3	2:uh:104:SER:HB2	2.00	0.44
2:xh:54:GLU:CG	2:xh:69:VAL:HG22	2.42	0.44
2:7h:63:GLY:CA	3:7l:108:TYR:CZ	2.96	0.44
3:Al:53:THR:HG23	3:Al:72:ASN:ND2	2.33	0.44
3:Kl:53:THR:HG23	3:Kl:72:ASN:ND2	2.33	0.44
3:Kl:55:ASN:OD1	3:Kl:70:TYR:HA	2.17	0.44
3:Kl:114:ASP:OD1	3:Kl:115:SER:N	2.47	0.44
3:Xl:55:ASN:OD1	3:Xl:70:TYR:HA	2.17	0.44
3:2l:113:ASP:OD2	3:2l:115:SER:OG	2.29	0.44
3:3l:53:THR:HG23	3:3l:72:ASN:ND2	2.33	0.44
3:4l:30:ALA:O	3:4l:126:VAL:HA	2.17	0.44
3:ol:53:THR:HG23	3:ol:72:ASN:ND2	2.33	0.44
3:pl:55:ASN:OD1	3:pl:70:TYR:HA	2.17	0.44
3:vl:53:THR:HG23	3:vl:72:ASN:ND2	2.33	0.44
3:xl:53:THR:HG23	3:xl:72:ASN:ND2	2.33	0.44
3:7l:55:ASN:OD1	3:7l:70:TYR:HA	2.17	0.44
1:A:722:GLU:HA	1:A:723:PRO:HD3	1.88	0.43
1:F:395:LEU:HD23	1:F:647:LEU:HD23	2.00	0.43
1:F:432:ARG:HA	1:F:434:MET:HE3	1.99	0.43
1:H:469:ASP:OD1	1:H:469:ASP:N	2.42	0.43
1:I:395:LEU:HD23	1:I:647:LEU:HD23	2.00	0.43
1:O:469:ASP:OD1	1:O:469:ASP:N	2.42	0.43
1:2:696:PRO:HD3	1:n:293:PRO:HB2	1.98	0.43
1:3:395:LEU:HD23	1:3:647:LEU:HD23	2.00	0.43
1:b:432:ARG:HA	1:b:434:MET:HE3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:353:VAL:H	1:n:645:GLN:HE22	1.65	0.43
1:s:484:ARG:HH11	1:s:484:ARG:HD2	1.66	0.43
2:Bh:86:ARG:HG3	2:Bh:104:SER:HB2	2.00	0.43
2:Dh:56:VAL:CG2	2:Dh:140:TRP:CZ3	3.00	0.43
2:Fh:86:ARG:HG3	2:Fh:104:SER:HB2	2.00	0.43
2:Gh:86:ARG:HG3	2:Gh:104:SER:HB2	2.00	0.43
2:Ih:77:LYS:CD	2:Ih:89:ILE:CG1	2.74	0.43
2:Nh:86:ARG:HG3	2:Nh:104:SER:HB2	2.00	0.43
2:Vh:86:ARG:HG3	2:Vh:104:SER:HB2	2.00	0.43
2:Zh:86:ARG:HG3	2:Zh:104:SER:HB2	2.00	0.43
2:bh:86:ARG:HG3	2:bh:104:SER:HB2	2.00	0.43
2:mh:86:ARG:HG3	2:mh:104:SER:HB2	2.00	0.43
2:sh:77:LYS:CD	2:sh:89:ILE:CG1	2.74	0.43
2:8h:86:ARG:HG3	2:8h:104:SER:HB2	2.00	0.43
3:Il:53:THR:HG23	3:Il:72:ASN:ND2	2.33	0.43
3:Jl:55:ASN:OD1	3:Jl:70:TYR:HA	2.17	0.43
3:Sl:53:THR:HG23	3:Sl:72:ASN:ND2	2.33	0.43
3:Tl:53:THR:HG23	3:Tl:72:ASN:ND2	2.33	0.43
3:1l:53:THR:HG23	3:1l:72:ASN:ND2	2.33	0.43
3:gl:53:THR:HG23	3:gl:72:ASN:ND2	2.33	0.43
3:il:53:THR:HG23	3:il:72:ASN:ND2	2.33	0.43
3:ql:55:ASN:OD1	3:ql:70:TYR:HA	2.17	0.43
3:wl:53:THR:HG23	3:wl:72:ASN:ND2	2.33	0.43
3:xl:55:ASN:OD1	3:xl:70:TYR:HA	2.17	0.43
1:E:484:ARG:HH11	1:E:484:ARG:HD2	1.66	0.43
1:F:484:ARG:HH11	1:F:484:ARG:HD2	1.66	0.43
1:N:353:VAL:H	1:N:645:GLN:HE22	1.66	0.43
1:T:395:LEU:HD23	1:T:647:LEU:HD23	2.00	0.43
1:W:434:MET:H	1:W:434:MET:HG2	1.69	0.43
1:5:432:ARG:HA	1:5:434:MET:HE3	1.99	0.43
1:u:395:LEU:HD23	1:u:647:LEU:HD23	2.00	0.43
2:Mh:86:ARG:HG3	2:Mh:104:SER:HB2	2.00	0.43
2:Qh:86:ARG:HG3	2:Qh:104:SER:HB2	2.00	0.43
2:Uh:86:ARG:HG3	2:Uh:104:SER:HB2	2.00	0.43
2:ch:86:ARG:HG3	2:ch:104:SER:HB2	2.00	0.43
2:nh:56:VAL:CG2	2:nh:140:TRP:CZ3	3.00	0.43
2:nh:86:ARG:HG3	2:nh:104:SER:HB2	2.00	0.43
2:rh:86:ARG:HG3	2:rh:104:SER:HB2	2.00	0.43
2:sh:77:LYS:HB2	2:sh:77:LYS:HZ1	1.83	0.43
2:sh:86:ARG:HG3	2:sh:104:SER:HB2	2.00	0.43
3:Al:34:PRO:HA	3:Al:99:LEU:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Al:55:ASN:OD1	3:Al:70:TYR:HA	2.17	0.43
3:Bl:68:LEU:HD11	3:Bl:107:TYR:HE1	1.84	0.43
3:Fl:53:THR:HG23	3:Fl:72:ASN:ND2	2.33	0.43
3:Nl:53:THR:HG23	3:Nl:72:ASN:ND2	2.33	0.43
3:Ol:55:ASN:OD1	3:Ol:70:TYR:HA	2.17	0.43
3:Pl:53:THR:HG23	3:Pl:72:ASN:ND2	2.33	0.43
3:Tl:34:PRO:HA	3:Tl:99:LEU:HB3	2.01	0.43
3:Wl:100:GLN:HE21	3:Wl:100:GLN:HB3	1.68	0.43
3:Xl:53:THR:HG23	3:Xl:72:ASN:ND2	2.33	0.43
3:Yl:34:PRO:HA	3:Yl:99:LEU:HB3	2.01	0.43
3:Yl:55:ASN:OD1	3:Yl:70:TYR:HA	2.17	0.43
3:Zl:34:PRO:HA	3:Zl:99:LEU:HB3	2.01	0.43
3:1l:34:PRO:HA	3:1l:99:LEU:HB3	2.00	0.43
3:cl:53:THR:HG23	3:cl:72:ASN:ND2	2.33	0.43
3:il:53:THR:HG23	3:il:72:ASN:ND2	2.33	0.43
3:pl:34:PRO:HA	3:pl:99:LEU:HB3	2.01	0.43
3:ul:34:PRO:HA	3:ul:99:LEU:HB3	2.00	0.43
3:ul:68:LEU:HD11	3:ul:107:TYR:HE1	1.84	0.43
3:7l:34:PRO:HA	3:7l:99:LEU:HB3	2.01	0.43
3:8l:34:PRO:HA	3:8l:99:LEU:HB3	2.01	0.43
1:B:395:LEU:HD23	1:B:647:LEU:HD23	2.00	0.43
1:M:432:ARG:HA	1:M:434:MET:HE3	1.99	0.43
1:P:395:LEU:HD23	1:P:647:LEU:HD23	2.00	0.43
1:Q:353:VAL:H	1:Q:645:GLN:HE22	1.65	0.43
1:3:432:ARG:HA	1:3:434:MET:HE3	1.99	0.43
1:c:353:VAL:H	1:c:645:GLN:HE22	1.66	0.43
1:d:353:VAL:H	1:d:645:GLN:HE22	1.66	0.43
1:d:395:LEU:HD23	1:d:647:LEU:HD23	2.00	0.43
1:g:395:LEU:HD23	1:g:647:LEU:HD23	2.00	0.43
1:i:353:VAL:H	1:i:645:GLN:HE22	1.65	0.43
1:s:395:LEU:HD23	1:s:647:LEU:HD23	2.00	0.43
1:t:444:TYR:OH	1:t:469:ASP:OD2	2.31	0.43
1:z:434:MET:H	1:z:434:MET:HG2	1.69	0.43
2:Gh:56:VAL:CG2	2:Gh:140:TRP:CZ3	3.00	0.43
2:Vh:56:VAL:CG2	2:Vh:140:TRP:CZ3	3.00	0.43
2:bh:77:LYS:CD	2:bh:89:ILE:CG1	2.74	0.43
2:hh:86:ARG:HG3	2:hh:104:SER:HB2	2.00	0.43
3:Cl:53:THR:HG23	3:Cl:72:ASN:ND2	2.33	0.43
3:El:55:ASN:OD1	3:El:70:TYR:HA	2.17	0.43
3:Fl:34:PRO:HA	3:Fl:99:LEU:HB3	2.01	0.43
3:Hl:34:PRO:HA	3:Hl:99:LEU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Nl:34:PRO:HA	3:Nl:99:LEU:HB3	2.01	0.43
3:Ql:68:LEU:HD11	3:Ql:107:TYR:HE1	1.84	0.43
3:Wl:53:THR:HG23	3:Wl:72:ASN:ND2	2.33	0.43
3:Xl:68:LEU:HD11	3:Xl:107:TYR:HE1	1.84	0.43
3:3l:34:PRO:HA	3:3l:99:LEU:HB3	2.01	0.43
3:cl:34:PRO:HA	3:cl:99:LEU:HB3	2.01	0.43
3:dl:53:THR:HG23	3:dl:72:ASN:ND2	2.33	0.43
3:fl:55:ASN:OD1	3:fl:70:TYR:HA	2.17	0.43
3:gl:34:PRO:HA	3:gl:99:LEU:HB3	2.01	0.43
3:hl:55:ASN:OD1	3:hl:70:TYR:HA	2.17	0.43
3:jl:68:LEU:HD11	3:jl:107:TYR:HE1	1.84	0.43
3:rl:68:LEU:HD11	3:rl:107:TYR:HE1	1.84	0.43
3:sl:34:PRO:HA	3:sl:99:LEU:HB3	2.01	0.43
3:sl:53:THR:HG23	3:sl:72:ASN:ND2	2.33	0.43
3:vl:55:ASN:OD1	3:vl:70:TYR:HA	2.17	0.43
3:wl:34:PRO:HA	3:wl:99:LEU:HB3	2.00	0.43
3:xl:114:ASP:OD1	3:xl:115:SER:N	2.47	0.43
3:yl:34:PRO:HA	3:yl:99:LEU:HB3	2.01	0.43
3:zl:53:THR:HG23	3:zl:72:ASN:ND2	2.33	0.43
3:8l:53:THR:HG23	3:8l:72:ASN:ND2	2.33	0.43
1:X:353:VAL:H	1:X:645:GLN:HE22	1.65	0.43
1:k:353:VAL:H	1:k:645:GLN:HE22	1.65	0.43
2:Kh:86:ARG:HG3	2:Kh:104:SER:HB2	2.00	0.43
2:4h:86:ARG:HG3	2:4h:104:SER:HB2	2.00	0.43
2:6h:86:ARG:HG3	2:6h:104:SER:HB2	2.00	0.43
2:jh:56:VAL:CG2	2:jh:140:TRP:CZ3	3.00	0.43
3:Dl:34:PRO:HA	3:Dl:99:LEU:HB3	2.00	0.43
3:Dl:68:LEU:HD11	3:Dl:107:TYR:HE1	1.84	0.43
3:Mi:34:PRO:HA	3:Mi:99:LEU:HB3	2.00	0.43
3:Vl:53:THR:HG23	3:Vl:72:ASN:ND2	2.33	0.43
3:Vl:68:LEU:HD11	3:Vl:107:TYR:HE1	1.84	0.43
3:Yl:68:LEU:HD11	3:Yl:107:TYR:HE1	1.84	0.43
3:Zl:53:THR:HG23	3:Zl:72:ASN:ND2	2.33	0.43
3:2l:68:LEU:HD11	3:2l:107:TYR:HE1	1.84	0.43
3:al:53:THR:HG23	3:al:72:ASN:ND2	2.33	0.43
3:bl:68:LEU:HD11	3:bl:107:TYR:HE1	1.84	0.43
3:el:34:PRO:HA	3:el:99:LEU:HB3	2.00	0.43
3:el:68:LEU:HD11	3:el:107:TYR:HE1	1.84	0.43
3:il:68:LEU:HD11	3:il:107:TYR:HE1	1.84	0.43
3:jl:34:PRO:HA	3:jl:99:LEU:HB3	2.01	0.43
3:rl:53:THR:HG23	3:rl:72:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:7l:68:LEU:HD11	3:7l:107:TYR:HE1	1.84	0.43
3:7l:113:ASP:OD2	3:7l:115:SER:OG	2.29	0.43
1:O:722:GLU:HA	1:O:723:PRO:HD3	1.88	0.43
1:P:353:VAL:H	1:P:645:GLN:HE22	1.66	0.43
1:R:353:VAL:H	1:R:645:GLN:HE22	1.65	0.43
1:f:722:GLU:HA	1:f:723:PRO:HD3	1.88	0.43
1:k:722:GLU:HA	1:k:723:PRO:HD3	1.88	0.43
1:r:353:VAL:H	1:r:645:GLN:HE22	1.65	0.43
2:Eh:86:ARG:HG3	2:Eh:104:SER:HB2	2.00	0.43
2:Gh:77:LYS:CD	2:Gh:89:ILE:CG1	2.74	0.43
2:Ph:54:GLU:CG	2:Ph:69:VAL:HG22	2.42	0.43
2:2h:86:ARG:HG3	2:2h:104:SER:HB2	2.00	0.43
2:fh:77:LYS:HB2	2:fh:77:LYS:HZ1	1.81	0.43
2:lh:77:LYS:HB2	2:lh:77:LYS:HZ1	1.84	0.43
2:qh:86:ARG:HG3	2:qh:104:SER:HB2	2.00	0.43
2:th:77:LYS:HB2	2:th:77:LYS:HZ1	1.84	0.43
2:xh:86:ARG:HG3	2:xh:104:SER:HB2	2.00	0.43
3:Bl:34:PRO:HA	3:Bl:99:LEU:HB3	2.01	0.43
3:Dl:53:THR:HG23	3:Dl:72:ASN:ND2	2.33	0.43
3:Gl:53:THR:HG23	3:Gl:72:ASN:ND2	2.33	0.43
3:Mi:68:LEU:HD11	3:Mi:107:TYR:HE1	1.84	0.43
3:Ql:34:PRO:HA	3:Ql:99:LEU:HB3	2.00	0.43
3:Ql:53:THR:HG23	3:Ql:72:ASN:ND2	2.33	0.43
3:Ul:53:THR:HG23	3:Ul:72:ASN:ND2	2.33	0.43
3:Vl:34:PRO:HA	3:Vl:99:LEU:HB3	2.01	0.43
3:Wl:34:PRO:HA	3:Wl:99:LEU:HB3	2.00	0.43
3:1l:68:LEU:HD11	3:1l:107:TYR:HE1	1.84	0.43
3:4l:55:ASN:OD1	3:4l:70:TYR:HA	2.17	0.43
3:5l:34:PRO:HA	3:5l:99:LEU:HB3	2.01	0.43
3:6l:68:LEU:HD11	3:6l:107:TYR:HE1	1.84	0.43
3:bl:34:PRO:HA	3:bl:99:LEU:HB3	2.00	0.43
3:el:53:THR:HG23	3:el:72:ASN:ND2	2.33	0.43
3:jl:100:GLN:HE21	3:jl:100:GLN:HB3	1.68	0.43
3:rl:34:PRO:HA	3:rl:99:LEU:HB3	2.00	0.43
3:wl:68:LEU:HD11	3:wl:107:TYR:HE1	1.84	0.43
3:zl:34:PRO:HA	3:zl:99:LEU:HB3	2.00	0.43
1:W:353:VAL:H	1:W:645:GLN:HE22	1.65	0.43
1:1:365:PHE:HA	1:1:366:PRO:HD3	1.93	0.43
1:5:353:VAL:H	1:5:645:GLN:HE22	1.65	0.43
1:a:353:VAL:H	1:a:645:GLN:HE22	1.65	0.43
1:m:353:VAL:H	1:m:645:GLN:HE22	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:353:VAL:H	1:z:645:GLN:HE22	1.65	0.43
2:Ah:86:ARG:HG3	2:Ah:104:SER:HB2	2.00	0.43
2:Bh:54:GLU:CG	2:Bh:69:VAL:HG22	2.42	0.43
2:Xh:56:VAL:CG2	2:Xh:140:TRP:CZ3	3.00	0.43
2:eh:86:ARG:HG3	2:eh:104:SER:HB2	2.00	0.43
2:gh:86:ARG:HG3	2:gh:104:SER:HB2	2.00	0.43
2:ph:86:ARG:HG3	2:ph:104:SER:HB2	2.00	0.43
3:Bl:82:ARG:CZ	3:Bl:103:ASP:OD1	2.67	0.43
3:Cl:82:ARG:CZ	3:Cl:103:ASP:OD1	2.67	0.43
3:Fl:82:ARG:CZ	3:Fl:103:ASP:OD1	2.67	0.43
3:Hl:82:ARG:CZ	3:Hl:103:ASP:OD1	2.67	0.43
3:Il:82:ARG:CZ	3:Il:103:ASP:OD1	2.67	0.43
3:Tl:82:ARG:CZ	3:Tl:103:ASP:OD1	2.67	0.43
3:2l:82:ARG:CZ	3:2l:103:ASP:OD1	2.67	0.43
3:al:82:ARG:CZ	3:al:103:ASP:OD1	2.67	0.43
3:fl:68:LEU:HD11	3:fl:107:TYR:HE1	1.84	0.43
3:gl:82:ARG:CZ	3:gl:103:ASP:OD1	2.67	0.43
3:hl:53:THR:HG23	3:hl:72:ASN:ND2	2.33	0.43
3:jl:53:THR:HG23	3:jl:72:ASN:ND2	2.33	0.43
3:ml:53:THR:HG23	3:ml:72:ASN:ND2	2.33	0.43
3:ml:100:GLN:HE21	3:ml:100:GLN:HB3	1.68	0.43
3:ol:82:ARG:CZ	3:ol:103:ASP:OD1	2.67	0.43
3:ul:82:ARG:CZ	3:ul:103:ASP:OD1	2.67	0.43
3:yl:82:ARG:CZ	3:yl:103:ASP:OD1	2.67	0.43
1:C:353:VAL:H	1:C:645:GLN:HE22	1.65	0.43
1:U:353:VAL:H	1:U:645:GLN:HE22	1.65	0.43
1:3:353:VAL:H	1:3:645:GLN:HE22	1.65	0.43
1:v:395:LEU:HD23	1:v:647:LEU:HD23	2.00	0.43
1:7:395:LEU:HD23	1:7:647:LEU:HD23	2.00	0.43
2:dh:63:GLY:CA	3:dl:108:TYR:CZ	2.97	0.43
2:ih:56:VAL:CG2	2:ih:140:TRP:CZ3	3.00	0.43
3:Ol:68:LEU:HD11	3:Ol:107:TYR:HE1	1.84	0.43
3:Ul:68:LEU:HD11	3:Ul:107:TYR:HE1	1.84	0.43
3:Ul:82:ARG:CZ	3:Ul:103:ASP:OD1	2.67	0.43
3:4l:53:THR:HG23	3:4l:72:ASN:ND2	2.33	0.43
3:6l:82:ARG:CZ	3:6l:103:ASP:OD1	2.67	0.43
3:ll:82:ARG:CZ	3:ll:103:ASP:OD1	2.67	0.43
3:nl:34:PRO:HA	3:nl:99:LEU:HB3	2.01	0.43
3:ql:34:PRO:HA	3:ql:99:LEU:HB3	2.01	0.43
3:sl:82:ARG:CZ	3:sl:103:ASP:OD1	2.67	0.43
3:ul:53:THR:HG23	3:ul:72:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:722:GLU:HA	1:R:723:PRO:HD3	1.88	0.43
1:Y:395:LEU:HD23	1:Y:647:LEU:HD23	2.00	0.43
1:o:484:ARG:HH11	1:o:484:ARG:HD2	1.66	0.43
1:8:395:LEU:HD23	1:8:647:LEU:HD23	2.00	0.43
2:Dh:86:ARG:HG3	2:Dh:104:SER:HB2	2.00	0.43
2:5h:86:ARG:HG3	2:5h:104:SER:HB2	2.00	0.43
3:Bl:53:THR:HG23	3:Bl:72:ASN:ND2	2.33	0.43
3:Gl:34:PRO:HA	3:Gl:99:LEU:HB3	2.01	0.43
3:Gl:82:ARG:CZ	3:Gl:103:ASP:OD1	2.67	0.43
3:Hl:68:LEU:HD11	3:Hl:107:TYR:HE1	1.84	0.43
3:Jl:68:LEU:HD11	3:Jl:107:TYR:HE1	1.84	0.43
3:Rl:82:ARG:CZ	3:Rl:103:ASP:OD1	2.67	0.43
3:Sl:82:ARG:CZ	3:Sl:103:ASP:OD1	2.67	0.43
3:el:113:ASP:OD2	3:el:115:SER:OG	2.29	0.43
3:ll:34:PRO:HA	3:ll:99:LEU:HB3	2.01	0.43
3:ml:68:LEU:HD11	3:ml:107:TYR:HE1	1.84	0.43
3:ml:82:ARG:CZ	3:ml:103:ASP:OD1	2.67	0.43
3:nl:53:THR:HG23	3:nl:72:ASN:ND2	2.34	0.43
3:nl:82:ARG:CZ	3:nl:103:ASP:OD1	2.67	0.43
3:vl:68:LEU:HD11	3:vl:107:TYR:HE1	1.84	0.43
3:7l:82:ARG:CZ	3:7l:103:ASP:OD1	2.67	0.43
1:C:395:LEU:HD23	1:C:647:LEU:HD23	2.00	0.43
1:I:353:VAL:H	1:I:645:GLN:HE22	1.65	0.43
1:J:395:LEU:HD23	1:J:647:LEU:HD23	2.00	0.43
1:N:365:PHE:HA	1:N:366:PRO:HD3	1.93	0.43
1:W:722:GLU:HA	1:W:723:PRO:HD3	1.88	0.43
1:Z:395:LEU:HD23	1:Z:647:LEU:HD23	2.00	0.43
1:6:444:TYR:OH	1:6:469:ASP:OD2	2.31	0.43
1:a:395:LEU:HD23	1:a:647:LEU:HD23	2.00	0.43
1:7:722:GLU:HA	1:7:723:PRO:HD3	1.88	0.43
2:Ph:63:GLY:CA	3:Pl:108:TYR:CZ	2.97	0.43
2:Th:86:ARG:HG3	2:Th:104:SER:HB2	2.00	0.43
2:3h:86:ARG:HG3	2:3h:104:SER:HB2	2.00	0.43
2:dh:54:GLU:CG	2:dh:69:VAL:HG22	2.42	0.43
2:nh:77:LYS:CD	2:nh:89:ILE:CG1	2.74	0.43
2:vh:86:ARG:HG3	2:vh:104:SER:HB2	2.00	0.43
3:Al:68:LEU:HD11	3:Al:107:TYR:HE1	1.84	0.43
3:Cl:34:PRO:HA	3:Cl:99:LEU:HB3	2.01	0.43
3:Dl:114:ASP:OD1	3:Dl:115:SER:N	2.47	0.43
3:El:34:PRO:HA	3:El:99:LEU:HB3	2.01	0.43
3:El:53:THR:HG23	3:El:72:ASN:ND2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HI:100:GLN:HE21	3:HI:100:GLN:HB3	1.67	0.43
3:LI:34:PRO:HA	3:LI:99:LEU:HB3	2.01	0.43
3:LI:68:LEU:HD11	3:LI:107:TYR:HE1	1.84	0.43
3:PI:82:ARG:CZ	3:PI:103:ASP:OD1	2.67	0.43
3:SI:34:PRO:HA	3:SI:99:LEU:HB3	2.01	0.43
3:al:34:PRO:HA	3:al:99:LEU:HB3	2.01	0.43
3:kl:82:ARG:CZ	3:kl:103:ASP:OD1	2.67	0.43
3:vl:114:ASP:OD1	3:vl:115:SER:N	2.47	0.43
3:wl:115:SER:HA	3:wl:116:PRO:HD3	1.92	0.43
3:yl:68:LEU:HD11	3:yl:107:TYR:HE1	1.84	0.43
1:E:444:TYR:OH	1:E:469:ASP:OD2	2.31	0.43
1:G:395:LEU:HD23	1:G:647:LEU:HD23	2.00	0.43
1:Y:722:GLU:HA	1:Y:723:PRO:HD3	1.88	0.43
1:1:484:ARG:HH11	1:1:484:ARG:HD2	1.66	0.43
1:f:395:LEU:HD23	1:f:647:LEU:HD23	2.00	0.43
1:n:395:LEU:HD23	1:n:647:LEU:HD23	2.00	0.43
1:o:353:VAL:H	1:o:645:GLN:HE22	1.65	0.43
1:t:353:VAL:H	1:t:645:GLN:HE22	1.65	0.43
2:Ch:86:ARG:HG3	2:Ch:104:SER:HB2	2.00	0.43
2:Jh:86:ARG:HG3	2:Jh:104:SER:HB2	2.00	0.43
2:Vh:54:GLU:CG	2:Vh:69:VAL:HG22	2.42	0.43
2:uh:54:GLU:CG	2:uh:69:VAL:HG22	2.42	0.43
3:JI:114:ASP:OD1	3:JI:115:SER:N	2.47	0.43
3:QI:82:ARG:CZ	3:QI:103:ASP:OD1	2.67	0.43
3:UI:100:GLN:HE21	3:UI:100:GLN:HB3	1.68	0.43
3:VI:100:GLN:HE21	3:VI:100:GLN:HB3	1.67	0.43
3:YI:82:ARG:CZ	3:YI:103:ASP:OD1	2.67	0.43
3:YI:113:ASP:OD2	3:YI:115:SER:OG	2.29	0.43
3:dl:82:ARG:CZ	3:dl:103:ASP:OD1	2.67	0.43
3:el:114:ASP:OD1	3:el:115:SER:N	2.47	0.43
3:hl:82:ARG:CZ	3:hl:103:ASP:OD1	2.67	0.43
3:ql:82:ARG:CZ	3:ql:103:ASP:OD1	2.67	0.43
3:tl:34:PRO:HA	3:tl:99:LEU:HB3	2.01	0.43
3:tl:68:LEU:HD11	3:tl:107:TYR:HE1	1.84	0.43
3:tl:82:ARG:CZ	3:tl:103:ASP:OD1	2.67	0.43
3:vl:34:PRO:HA	3:vl:99:LEU:HB3	2.01	0.43
1:A:353:VAL:H	1:A:645:GLN:HE22	1.65	0.42
1:B:484:ARG:HD2	1:B:596:ASN:ND2	2.34	0.42
1:L:444:TYR:OH	1:L:469:ASP:OD2	2.31	0.42
1:M:395:LEU:HD23	1:M:647:LEU:HD23	2.00	0.42
1:O:395:LEU:HD23	1:O:647:LEU:HD23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:444:TYR:OH	1:2:469:ASP:OD2	2.31	0.42
1:c:365:PHE:HA	1:c:366:PRO:HD3	1.93	0.42
1:p:353:VAL:H	1:p:645:GLN:HE22	1.66	0.42
2:Rh:51:TYR:CG	2:Rh:117:ARG:HD2	2.54	0.42
2:Wh:51:TYR:CG	2:Wh:117:ARG:HD2	2.54	0.42
2:bh:63:GLY:CA	3:bl:108:TYR:CZ	2.96	0.42
2:ih:86:ARG:HG3	2:ih:104:SER:HB2	2.00	0.42
2:kh:51:TYR:CG	2:kh:117:ARG:HD2	2.54	0.42
3:Cl:68:LEU:HD11	3:Cl:107:TYR:HE1	1.84	0.42
3:El:82:ARG:CZ	3:El:103:ASP:OD1	2.67	0.42
3:Jl:34:PRO:HA	3:Jl:99:LEU:HB3	2.01	0.42
3:Kl:68:LEU:HD11	3:Kl:107:TYR:HE1	1.84	0.42
3:Ll:82:ARG:CZ	3:Ll:103:ASP:OD1	2.67	0.42
3:Pl:68:LEU:HD11	3:Pl:107:TYR:HE1	1.84	0.42
3:Rl:53:THR:HG23	3:Rl:72:ASN:ND2	2.33	0.42
3:Wl:68:LEU:HD11	3:Wl:107:TYR:HE1	1.84	0.42
3:4l:82:ARG:CZ	3:4l:103:ASP:OD1	2.67	0.42
3:el:82:ARG:CZ	3:el:103:ASP:OD1	2.67	0.42
3:nl:68:LEU:HD11	3:nl:107:TYR:HE1	1.84	0.42
3:ql:53:THR:HG23	3:ql:72:ASN:ND2	2.34	0.42
3:rl:82:ARG:CZ	3:rl:103:ASP:OD1	2.67	0.42
3:tl:53:THR:HG23	3:tl:72:ASN:ND2	2.33	0.42
3:yl:100:GLN:HE21	3:yl:100:GLN:HB3	1.67	0.42
3:zl:68:LEU:HD11	3:zl:107:TYR:HE1	1.84	0.42
1:I:484:ARG:HD2	1:I:596:ASN:ND2	2.35	0.42
1:L:353:VAL:H	1:L:645:GLN:HE22	1.65	0.42
1:Z:484:ARG:HH11	1:Z:484:ARG:HD2	1.66	0.42
1:3:484:ARG:HD2	1:3:596:ASN:ND2	2.34	0.42
1:4:484:ARG:HD2	1:4:596:ASN:ND2	2.34	0.42
1:b:395:LEU:HD23	1:b:647:LEU:HD23	2.00	0.42
1:h:484:ARG:HD2	1:h:596:ASN:ND2	2.34	0.42
1:l:395:LEU:HD23	1:l:647:LEU:HD23	2.00	0.42
1:o:484:ARG:HD2	1:o:596:ASN:ND2	2.35	0.42
1:u:484:ARG:HD2	1:u:596:ASN:ND2	2.34	0.42
2:Eh:77:LYS:CD	2:Eh:89:ILE:CG1	2.74	0.42
2:Kh:51:TYR:CG	2:Kh:117:ARG:HD2	2.55	0.42
2:Th:51:TYR:CG	2:Th:117:ARG:HD2	2.55	0.42
2:Wh:86:ARG:HG3	2:Wh:104:SER:HB2	2.00	0.42
2:4h:51:TYR:CG	2:4h:117:ARG:HD2	2.55	0.42
2:ah:86:ARG:HG3	2:ah:104:SER:HB2	2.00	0.42
2:fh:77:LYS:CD	2:fh:89:ILE:CG1	2.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gh:51:TYR:CG	2:gh:117:ARG:HD2	2.55	0.42
2:qh:77:LYS:CD	2:qh:89:ILE:CG1	2.74	0.42
2:sh:51:TYR:CG	2:sh:117:ARG:HD2	2.55	0.42
2:xh:51:TYR:CG	2:xh:117:ARG:HD2	2.55	0.42
3:Dl:82:ARG:CZ	3:Dl:103:ASP:OD1	2.67	0.42
3:Gl:68:LEU:HD11	3:Gl:107:TYR:HE1	1.84	0.42
3:Kl:34:PRO:HA	3:Kl:99:LEU:HB3	2.01	0.42
3:Ll:53:THR:HG23	3:Ll:72:ASN:ND2	2.33	0.42
3:Ol:53:THR:HG23	3:Ol:72:ASN:ND2	2.33	0.42
3:Zl:115:SER:HA	3:Zl:116:PRO:HD3	1.92	0.42
3:4l:34:PRO:HA	3:4l:99:LEU:HB3	2.00	0.42
3:al:68:LEU:HD11	3:al:107:TYR:HE1	1.84	0.42
3:dl:68:LEU:HD11	3:dl:107:TYR:HE1	1.84	0.42
3:kl:53:THR:HG23	3:kl:72:ASN:ND2	2.33	0.42
3:pl:68:LEU:HD11	3:pl:107:TYR:HE1	1.84	0.42
3:xl:34:PRO:HA	3:xl:99:LEU:HB3	2.01	0.42
3:xl:68:LEU:HD11	3:xl:107:TYR:HE1	1.84	0.42
3:yl:53:THR:HG23	3:yl:72:ASN:ND2	2.33	0.42
3:zl:113:ASP:OD2	3:zl:115:SER:OG	2.29	0.42
1:C:484:ARG:HD2	1:C:596:ASN:ND2	2.34	0.42
1:M:365:PHE:HA	1:M:366:PRO:HD3	1.93	0.42
1:Q:395:LEU:HD23	1:Q:647:LEU:HD23	2.00	0.42
1:S:395:LEU:HD23	1:S:647:LEU:HD23	2.00	0.42
1:V:484:ARG:HD2	1:V:596:ASN:ND2	2.34	0.42
1:X:484:ARG:HD2	1:X:596:ASN:ND2	2.34	0.42
1:Z:484:ARG:HD2	1:Z:596:ASN:ND2	2.34	0.42
1:a:484:ARG:HD2	1:a:596:ASN:ND2	2.34	0.42
1:c:484:ARG:HD2	1:c:596:ASN:ND2	2.34	0.42
1:i:484:ARG:HD2	1:i:596:ASN:ND2	2.34	0.42
1:k:395:LEU:HD23	1:k:647:LEU:HD23	2.00	0.42
1:z:722:GLU:HA	1:z:723:PRO:HD3	1.88	0.42
1:8:484:ARG:HD2	1:8:596:ASN:ND2	2.34	0.42
2:Fh:51:TYR:CG	2:Fh:117:ARG:HD2	2.55	0.42
2:Hh:77:LYS:CD	2:Hh:89:ILE:CG1	2.74	0.42
2:Lh:56:VAL:HG21	2:Lh:140:TRP:CZ3	2.55	0.42
2:Oh:56:VAL:HG21	2:Oh:140:TRP:CZ3	2.55	0.42
2:Ph:51:TYR:CG	2:Ph:117:ARG:HD2	2.55	0.42
2:Xh:86:ARG:HG3	2:Xh:104:SER:HB2	2.00	0.42
2:Zh:54:GLU:CG	2:Zh:69:VAL:HG22	2.42	0.42
2:1h:54:GLU:CG	2:1h:69:VAL:HG22	2.42	0.42
2:3h:56:VAL:HG21	2:3h:140:TRP:CZ3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ah:51:TYR:CG	2:ah:117:ARG:HD2	2.55	0.42
2:hh:51:TYR:CG	2:hh:117:ARG:HD2	2.55	0.42
2:uh:56:VAL:HG21	2:uh:140:TRP:CZ3	2.55	0.42
2:zh:51:TYR:CG	2:zh:117:ARG:HD2	2.55	0.42
3:Hl:53:THR:HG23	3:Hl:72:ASN:ND2	2.33	0.42
3:3l:82:ARG:CZ	3:3l:103:ASP:OD1	2.67	0.42
3:5l:82:ARG:CZ	3:5l:103:ASP:OD1	2.67	0.42
3:fl:53:THR:HG23	3:fl:72:ASN:ND2	2.33	0.42
3:hl:34:PRO:HA	3:hl:99:LEU:HB3	2.00	0.42
3:sl:68:LEU:HD11	3:sl:107:TYR:HE1	1.84	0.42
3:8l:82:ARG:CZ	3:8l:103:ASP:OD1	2.67	0.42
1:N:484:ARG:HD2	1:N:596:ASN:ND2	2.34	0.42
1:2:484:ARG:HD2	1:2:596:ASN:ND2	2.34	0.42
1:5:484:ARG:HD2	1:5:596:ASN:ND2	2.34	0.42
1:j:484:ARG:HD2	1:j:596:ASN:ND2	2.34	0.42
1:r:395:LEU:HD23	1:r:647:LEU:HD23	2.00	0.42
2:Ah:51:TYR:CG	2:Ah:117:ARG:HD2	2.55	0.42
2:Ah:56:VAL:HG21	2:Ah:140:TRP:CZ3	2.55	0.42
2:Bh:56:VAL:HG21	2:Bh:140:TRP:CZ3	2.55	0.42
2:Bh:83:VAL:HG12	2:Bh:86:ARG:HH21	1.85	0.42
2:Ch:51:TYR:CG	2:Ch:117:ARG:HD2	2.55	0.42
2:Lh:83:VAL:HG12	2:Lh:86:ARG:HH21	1.85	0.42
2:Oh:86:ARG:HG3	2:Oh:104:SER:HB2	2.00	0.42
2:Th:56:VAL:HG21	2:Th:140:TRP:CZ3	2.55	0.42
2:Wh:83:VAL:HG12	2:Wh:86:ARG:HH21	1.85	0.42
2:5h:56:VAL:HG21	2:5h:140:TRP:CZ3	2.55	0.42
2:dh:51:TYR:CG	2:dh:117:ARG:HD2	2.55	0.42
2:fh:56:VAL:HG21	2:fh:140:TRP:CZ3	2.55	0.42
2:jh:54:GLU:CG	2:jh:69:VAL:HG22	2.42	0.42
2:ph:51:TYR:CG	2:ph:117:ARG:HD2	2.54	0.42
2:ph:56:VAL:HG21	2:ph:140:TRP:CZ3	2.55	0.42
2:th:56:VAL:HG21	2:th:140:TRP:CZ3	2.55	0.42
2:th:83:VAL:HG12	2:th:86:ARG:HH21	1.85	0.42
2:wh:54:GLU:CG	2:wh:69:VAL:HG22	2.42	0.42
2:wh:117:ARG:HB3	2:wh:139:VAL:HB	2.02	0.42
2:zh:86:ARG:HG3	2:zh:104:SER:HB2	2.00	0.42
3:Fl:68:LEU:HD11	3:Fl:107:TYR:HE1	1.84	0.42
3:Ol:34:PRO:HA	3:Ol:99:LEU:HB3	2.01	0.42
3:Wl:82:ARG:CZ	3:Wl:103:ASP:OD1	2.67	0.42
3:Zl:82:ARG:CZ	3:Zl:103:ASP:OD1	2.67	0.42
3:5l:68:LEU:HD11	3:5l:107:TYR:HE1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6l:53:THR:HG23	3:6l:72:ASN:ND2	2.33	0.42
3:dl:34:PRO:HA	3:dl:99:LEU:HB3	2.01	0.42
3:fl:34:PRO:HA	3:fl:99:LEU:HB3	2.01	0.42
3:il:82:ARG:CZ	3:il:103:ASP:OD1	2.67	0.42
3:kl:68:LEU:HD11	3:kl:107:TYR:HE1	1.84	0.42
3:xl:82:ARG:CZ	3:xl:103:ASP:OD1	2.67	0.42
3:zl:82:ARG:CZ	3:zl:103:ASP:OD1	2.67	0.42
3:7l:53:THR:HG23	3:7l:72:ASN:ND2	2.33	0.42
1:l:484:ARG:HD2	1:l:484:ARG:HH11	1.66	0.42
1:p:484:ARG:HD2	1:p:596:ASN:ND2	2.35	0.42
1:r:395:LEU:HD23	1:r:647:LEU:HD23	2.00	0.42
1:u:484:ARG:HD2	1:u:596:ASN:ND2	2.34	0.42
1:v:722:GLU:HA	1:v:723:PRO:HD3	1.88	0.42
1:1:722:GLU:HA	1:1:723:PRO:HD3	1.88	0.42
1:6:484:ARG:HD2	1:6:596:ASN:ND2	2.34	0.42
1:d:484:ARG:HD2	1:d:596:ASN:ND2	2.35	0.42
1:m:484:ARG:HD2	1:m:596:ASN:ND2	2.34	0.42
2:Eh:54:GLU:CG	2:Eh:69:VAL:HG22	2.43	0.42
2:Jh:51:TYR:CG	2:Jh:117:ARG:HD2	2.55	0.42
2:Lh:86:ARG:HG3	2:Lh:104:SER:HB2	2.00	0.42
2:Mh:51:TYR:CG	2:Mh:117:ARG:HD2	2.55	0.42
2:Mh:63:GLY:CA	3:Ml:108:TYR:CZ	2.96	0.42
2:Nh:83:VAL:HG12	2:Nh:86:ARG:HH21	1.85	0.42
2:Oh:117:ARG:HB3	2:Oh:139:VAL:HB	2.02	0.42
2:Ph:37:LEU:HD12	2:Ph:38:ARG:H	1.85	0.42
2:Rh:37:LEU:HD12	2:Rh:38:ARG:H	1.85	0.42
2:Sh:117:ARG:HB3	2:Sh:139:VAL:HB	2.02	0.42
2:Vh:117:ARG:HB3	2:Vh:139:VAL:HB	2.02	0.42
2:Yh:37:LEU:HD12	2:Yh:38:ARG:H	1.85	0.42
2:Zh:51:TYR:CG	2:Zh:117:ARG:HD2	2.54	0.42
2:5h:77:LYS:CD	2:5h:89:ILE:CG1	2.74	0.42
2:dh:37:LEU:HD12	2:dh:38:ARG:H	1.85	0.42
2:fh:117:ARG:HB3	2:fh:139:VAL:HB	2.02	0.42
2:gh:56:VAL:HG21	2:gh:140:TRP:CZ3	2.55	0.42
2:nh:117:ARG:HB3	2:nh:139:VAL:HB	2.02	0.42
2:oh:56:VAL:HG21	2:oh:140:TRP:CZ3	2.55	0.42
2:oh:117:ARG:HB3	2:oh:139:VAL:HB	2.02	0.42
2:ph:83:VAL:HG12	2:ph:86:ARG:HH21	1.85	0.42
2:uh:83:VAL:HG12	2:uh:86:ARG:HH21	1.85	0.42
2:vh:51:TYR:CG	2:vh:117:ARG:HD2	2.55	0.42
2:zh:83:VAL:HG12	2:zh:86:ARG:HH21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:7h:37:LEU:HD12	2:7h:38:ARG:H	1.85	0.42
3:Al:82:ARG:CZ	3:Al:103:ASP:OD1	2.67	0.42
3:Il:68:LEU:HD11	3:Il:107:TYR:HE1	1.84	0.42
3:Ol:82:ARG:CZ	3:Ol:103:ASP:OD1	2.67	0.42
3:Pl:34:PRO:HA	3:Pl:99:LEU:HB3	2.01	0.42
3:Yl:53:THR:HG23	3:Yl:72:ASN:ND2	2.33	0.42
3:1l:82:ARG:CZ	3:1l:103:ASP:OD1	2.67	0.42
3:2l:34:PRO:HA	3:2l:99:LEU:HB3	2.01	0.42
3:2l:53:THR:HG23	3:2l:72:ASN:ND2	2.33	0.42
3:3l:68:LEU:HD11	3:3l:107:TYR:HE1	1.84	0.42
3:6l:34:PRO:HA	3:6l:99:LEU:HB3	2.01	0.42
3:fl:82:ARG:CZ	3:fl:103:ASP:OD1	2.67	0.42
3:ol:34:PRO:HA	3:ol:99:LEU:HB3	2.00	0.42
3:rl:100:GLN:HE21	3:rl:100:GLN:HB3	1.67	0.42
3:wl:82:ARG:CZ	3:wl:103:ASP:OD1	2.67	0.42
1:E:434:MET:H	1:E:434:MET:HG2	1.69	0.42
1:H:484:ARG:HD2	1:H:596:ASN:ND2	2.35	0.42
1:M:484:ARG:HD2	1:M:596:ASN:ND2	2.34	0.42
1:W:484:ARG:HD2	1:W:596:ASN:ND2	2.35	0.42
1:p:395:LEU:HD23	1:p:647:LEU:HD23	2.00	0.42
1:w:484:ARG:HH11	1:w:484:ARG:HD2	1.66	0.42
1:z:484:ARG:HD2	1:z:596:ASN:ND2	2.35	0.42
2:Ah:83:VAL:HG12	2:Ah:86:ARG:HH21	1.85	0.42
2:Dh:83:VAL:HG12	2:Dh:86:ARG:HH21	1.85	0.42
2:Gh:117:ARG:HB3	2:Gh:139:VAL:HB	2.02	0.42
2:Hh:51:TYR:CG	2:Hh:117:ARG:HD2	2.55	0.42
2:Ih:56:VAL:HG21	2:Ih:140:TRP:CZ3	2.55	0.42
2:Ih:117:ARG:HB3	2:Ih:139:VAL:HB	2.02	0.42
2:Th:37:LEU:HD12	2:Th:38:ARG:H	1.85	0.42
2:1h:117:ARG:HB3	2:1h:139:VAL:HB	2.02	0.42
2:2h:83:VAL:HG12	2:2h:86:ARG:HH21	1.85	0.42
2:3h:77:LYS:CD	2:3h:89:ILE:CG1	2.74	0.42
2:5h:37:LEU:HD12	2:5h:38:ARG:H	1.85	0.42
2:6h:83:VAL:HG12	2:6h:86:ARG:HH21	1.85	0.42
2:bh:51:TYR:CG	2:bh:117:ARG:HD2	2.55	0.42
2:ch:83:VAL:HG12	2:ch:86:ARG:HH21	1.85	0.42
2:fh:86:ARG:HG3	2:fh:104:SER:HB2	2.00	0.42
2:jh:117:ARG:HB3	2:jh:139:VAL:HB	2.02	0.42
2:kh:37:LEU:HD12	2:kh:38:ARG:H	1.85	0.42
2:kh:56:VAL:HG21	2:kh:140:TRP:CZ3	2.55	0.42
2:lh:117:ARG:HB3	2:lh:139:VAL:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mh:51:TYR:CG	2:mh:117:ARG:HD2	2.55	0.42
2:th:86:ARG:HG3	2:th:104:SER:HB2	2.00	0.42
2:vh:56:VAL:HG21	2:vh:140:TRP:CZ3	2.55	0.42
2:vh:77:LYS:CD	2:vh:89:ILE:CG1	2.74	0.42
2:yh:77:LYS:CD	2:yh:89:ILE:CG1	2.74	0.42
2:8h:51:TYR:CG	2:8h:117:ARG:HD2	2.54	0.42
3:Il:34:PRO:HA	3:Il:99:LEU:HB3	2.00	0.42
3:Kl:82:ARG:CZ	3:Kl:103:ASP:OD1	2.67	0.42
3:Mi:53:THR:HG23	3:Mi:72:ASN:ND2	2.33	0.42
3:Rl:68:LEU:HD11	3:Rl:107:TYR:HE1	1.84	0.42
3:Xl:82:ARG:CZ	3:Xl:103:ASP:OD1	2.67	0.42
3:bl:53:THR:HG23	3:bl:72:ASN:ND2	2.33	0.42
3:bl:82:ARG:CZ	3:bl:103:ASP:OD1	2.67	0.42
3:cl:82:ARG:CZ	3:cl:103:ASP:OD1	2.67	0.42
3:hl:100:GLN:HE21	3:hl:100:GLN:HB3	1.68	0.42
3:ol:100:GLN:HE21	3:ol:100:GLN:HB3	1.67	0.42
3:8l:115:SER:HA	3:8l:116:PRO:HD3	1.92	0.42
1:E:484:ARG:HD2	1:E:596:ASN:ND2	2.34	0.42
1:F:484:ARG:HD2	1:F:596:ASN:ND2	2.34	0.42
1:G:696:PRO:HD3	1:6:293:PRO:HB2	2.00	0.42
1:S:484:ARG:HD2	1:S:596:ASN:ND2	2.34	0.42
1:b:484:ARG:HD2	1:b:596:ASN:ND2	2.34	0.42
1:j:722:GLU:HA	1:j:723:PRO:HD3	1.88	0.42
1:l:484:ARG:HD2	1:l:596:ASN:ND2	2.34	0.42
1:q:484:ARG:HD2	1:q:596:ASN:ND2	2.34	0.42
1:s:484:ARG:HD2	1:s:596:ASN:ND2	2.34	0.42
2:Bh:51:TYR:CG	2:Bh:117:ARG:HD2	2.54	0.42
2:Jh:56:VAL:HG21	2:Jh:140:TRP:CZ3	2.55	0.42
2:Jh:77:LYS:CD	2:Jh:89:ILE:CG1	2.74	0.42
2:Kh:56:VAL:HG21	2:Kh:140:TRP:CZ3	2.55	0.42
2:Ph:83:VAL:HG12	2:Ph:86:ARG:HH21	1.85	0.42
2:Rh:56:VAL:HG21	2:Rh:140:TRP:CZ3	2.55	0.42
2:Sh:77:LYS:HB2	2:Sh:77:LYS:HZ1	1.85	0.42
2:Uh:37:LEU:HD12	2:Uh:38:ARG:H	1.85	0.42
2:Uh:51:TYR:CG	2:Uh:117:ARG:HD2	2.55	0.42
2:Vh:56:VAL:HG21	2:Vh:140:TRP:CZ3	2.55	0.42
2:4h:117:ARG:HB3	2:4h:139:VAL:HB	2.02	0.42
2:dh:83:VAL:HG12	2:dh:86:ARG:HH21	1.85	0.42
2:eh:51:TYR:CG	2:eh:117:ARG:HD2	2.55	0.42
2:eh:83:VAL:HG12	2:eh:86:ARG:HH21	1.85	0.42
2:gh:37:LEU:HD12	2:gh:38:ARG:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hh:77:LYS:CD	2:hh:89:ILE:CG1	2.74	0.42
2:mh:37:LEU:HD12	2:mh:38:ARG:H	1.85	0.42
2:qh:54:GLU:CG	2:qh:69:VAL:HG22	2.43	0.42
2:rh:51:TYR:CG	2:rh:117:ARG:HD2	2.55	0.42
2:yh:51:TYR:CG	2:yh:117:ARG:HD2	2.55	0.42
2:8h:54:GLU:CG	2:8h:69:VAL:HG22	2.42	0.42
3:Nl:82:ARG:CZ	3:Nl:103:ASP:OD1	2.67	0.42
3:jl:82:ARG:CZ	3:jl:103:ASP:OD1	2.67	0.42
3:ol:68:LEU:HD11	3:ol:107:TYR:HE1	1.84	0.42
3:pl:82:ARG:CZ	3:pl:103:ASP:OD1	2.67	0.42
1:A:395:LEU:HD23	1:A:647:LEU:HD23	2.00	0.42
1:D:722:GLU:HA	1:D:723:PRO:HD3	1.88	0.42
1:Z:434:MET:H	1:Z:434:MET:HG2	1.69	0.42
1:b:365:PHE:HA	1:b:366:PRO:HD3	1.93	0.42
1:k:484:ARG:HD2	1:k:596:ASN:ND2	2.34	0.42
1:w:722:GLU:HA	1:w:723:PRO:HD3	1.88	0.42
1:y:484:ARG:HD2	1:y:596:ASN:ND2	2.35	0.42
1:8:484:ARG:HD2	1:8:484:ARG:HH11	1.66	0.42
2:Dh:51:TYR:CG	2:Dh:117:ARG:HD2	2.55	0.42
2:Dh:86:ARG:HD2	2:Dh:106:ARG:NH2	2.35	0.42
2:Fh:37:LEU:HD12	2:Fh:38:ARG:H	1.85	0.42
2:Hh:117:ARG:HB3	2:Hh:139:VAL:HB	2.02	0.42
2:Jh:117:ARG:HB3	2:Jh:139:VAL:HB	2.02	0.42
2:Mh:37:LEU:HD12	2:Mh:38:ARG:H	1.85	0.42
2:Mh:83:VAL:HG12	2:Mh:86:ARG:HH21	1.85	0.42
2:Oh:77:LYS:CD	2:Oh:89:ILE:CG1	2.74	0.42
2:Ph:117:ARG:HB3	2:Ph:139:VAL:HB	2.02	0.42
2:Qh:51:TYR:CG	2:Qh:117:ARG:HD2	2.55	0.42
2:Xh:51:TYR:CG	2:Xh:117:ARG:HD2	2.55	0.42
2:3h:37:LEU:HD12	2:3h:38:ARG:H	1.85	0.42
2:3h:51:TYR:CG	2:3h:117:ARG:HD2	2.55	0.42
2:5h:51:TYR:CG	2:5h:117:ARG:HD2	2.54	0.42
2:6h:117:ARG:HB3	2:6h:139:VAL:HB	2.02	0.42
2:bh:37:LEU:HD12	2:bh:38:ARG:H	1.85	0.42
2:dh:117:ARG:HB3	2:dh:139:VAL:HB	2.02	0.42
2:eh:86:ARG:HD2	2:eh:106:ARG:NH2	2.35	0.42
2:gh:83:VAL:HG12	2:gh:86:ARG:HH21	1.85	0.42
2:hh:83:VAL:HG12	2:hh:86:ARG:HH21	1.85	0.42
2:hh:117:ARG:HB3	2:hh:139:VAL:HB	2.02	0.42
2:jh:56:VAL:HG21	2:jh:140:TRP:CZ3	2.55	0.42
2:jh:86:ARG:HD2	2:jh:106:ARG:NH2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:uh:51:TYR:CG	2:uh:117:ARG:HD2	2.54	0.42
2:vh:117:ARG:HB3	2:vh:139:VAL:HB	2.02	0.42
2:xh:56:VAL:HG21	2:xh:140:TRP:CZ3	2.55	0.42
2:yh:77:LYS:HB2	2:yh:77:LYS:HZ1	1.84	0.42
3:MI:82:ARG:CZ	3:MI:103:ASP:OD1	2.67	0.42
3:TI:68:LEU:HD11	3:TI:107:TYR:HE1	1.84	0.42
3:VI:82:ARG:CZ	3:VI:103:ASP:OD1	2.67	0.42
3:2I:114:ASP:OD1	3:2I:115:SER:N	2.47	0.42
3:4I:68:LEU:HD11	3:4I:107:TYR:HE1	1.84	0.42
3:sl:100:GLN:HE21	3:sl:100:GLN:HB3	1.68	0.42
3:vl:82:ARG:CZ	3:vl:103:ASP:OD1	2.67	0.42
1:G:484:ARG:HD2	1:G:596:ASN:ND2	2.34	0.42
1:J:484:ARG:HD2	1:J:596:ASN:ND2	2.34	0.42
1:O:484:ARG:HD2	1:O:596:ASN:ND2	2.34	0.42
1:Q:484:ARG:HD2	1:Q:596:ASN:ND2	2.35	0.42
1:R:484:ARG:HD2	1:R:596:ASN:ND2	2.34	0.42
1:T:484:ARG:HD2	1:T:596:ASN:ND2	2.34	0.42
1:b:353:VAL:H	1:b:645:GLN:HE22	1.65	0.42
2:Ch:83:VAL:HG12	2:Ch:86:ARG:HH21	1.85	0.42
2:Ih:37:LEU:HD12	2:Ih:38:ARG:H	1.85	0.42
2:Nh:37:LEU:HD12	2:Nh:38:ARG:H	1.85	0.42
2:Oh:86:ARG:HD2	2:Oh:106:ARG:NH2	2.35	0.42
2:Sh:86:ARG:HD2	2:Sh:106:ARG:NH2	2.35	0.42
2:Th:83:VAL:HG12	2:Th:86:ARG:HH21	1.85	0.42
2:Vh:86:ARG:HD2	2:Vh:106:ARG:NH2	2.35	0.42
2:Wh:117:ARG:HB3	2:Wh:139:VAL:HB	2.02	0.42
2:Yh:86:ARG:HG3	2:Yh:104:SER:HB2	2.00	0.42
2:4h:83:VAL:HG12	2:4h:86:ARG:HH21	1.85	0.42
2:6h:51:TYR:CG	2:6h:117:ARG:HD2	2.55	0.42
2:ah:83:VAL:HG12	2:ah:86:ARG:HH21	1.85	0.42
2:bh:83:VAL:HG12	2:bh:86:ARG:HH21	1.85	0.42
2:gh:86:ARG:HD2	2:gh:106:ARG:NH2	2.35	0.42
2:ih:51:TYR:CG	2:ih:117:ARG:HD2	2.55	0.42
2:qh:86:ARG:HD2	2:qh:106:ARG:NH2	2.35	0.42
2:yh:117:ARG:HB3	2:yh:139:VAL:HB	2.02	0.42
2:7h:86:ARG:HG3	2:7h:104:SER:HB2	2.00	0.42
3:JI:82:ARG:CZ	3:JI:103:ASP:OD1	2.67	0.42
3:NI:68:LEU:HD11	3:NI:107:TYR:HE1	1.84	0.42
3:QI:100:GLN:HE21	3:QI:100:GLN:HB3	1.67	0.42
3:hl:68:LEU:HD11	3:hl:107:TYR:HE1	1.84	0.42
3:ql:68:LEU:HD11	3:ql:107:TYR:HE1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:434:MET:H	1:V:434:MET:HG2	1.69	0.42
1:6:434:MET:H	1:6:434:MET:HG2	1.69	0.42
1:a:469:ASP:OD1	1:a:469:ASP:N	2.42	0.42
1:f:484:ARG:HD2	1:f:596:ASN:ND2	2.34	0.42
1:g:484:ARG:HD2	1:g:596:ASN:ND2	2.35	0.42
1:n:484:ARG:HD2	1:n:596:ASN:ND2	2.34	0.42
1:p:484:ARG:HD2	1:p:596:ASN:ND2	2.34	0.42
1:r:484:ARG:HD2	1:r:596:ASN:ND2	2.35	0.42
1:v:484:ARG:HD2	1:v:596:ASN:ND2	2.34	0.42
2:Eh:86:ARG:HD2	2:Eh:106:ARG:NH2	2.35	0.42
2:Gh:83:VAL:HG12	2:Gh:86:ARG:HH21	1.85	0.42
2:Hh:77:LYS:HB2	2:Hh:77:LYS:HZ1	1.84	0.42
2:Hh:83:VAL:HG12	2:Hh:86:ARG:HH21	1.85	0.42
2:Uh:86:ARG:HD2	2:Uh:106:ARG:NH2	2.35	0.42
2:Uh:117:ARG:HB3	2:Uh:139:VAL:HB	2.02	0.42
2:Yh:56:VAL:HG21	2:Yh:140:TRP:CZ3	2.55	0.42
2:1h:37:LEU:HD12	2:1h:38:ARG:H	1.85	0.42
2:2h:117:ARG:HB3	2:2h:139:VAL:HB	2.02	0.42
2:3h:83:VAL:HG12	2:3h:86:ARG:HH21	1.85	0.42
2:3h:86:ARG:HD2	2:3h:106:ARG:NH2	2.35	0.42
2:4h:56:VAL:HG21	2:4h:140:TRP:CZ3	2.55	0.42
2:5h:83:VAL:HG12	2:5h:86:ARG:HH21	1.85	0.42
2:bh:86:ARG:HD2	2:bh:106:ARG:NH2	2.35	0.42
2:ch:37:LEU:HD12	2:ch:38:ARG:H	1.85	0.42
2:hh:56:VAL:HG21	2:hh:140:TRP:CZ3	2.55	0.42
2:lh:86:ARG:HD2	2:lh:106:ARG:NH2	2.35	0.42
2:mh:117:ARG:HB3	2:mh:139:VAL:HB	2.02	0.42
2:nh:37:LEU:HD12	2:nh:38:ARG:H	1.85	0.42
2:oh:37:LEU:HD12	2:oh:38:ARG:H	1.85	0.42
2:sh:37:LEU:HD12	2:sh:38:ARG:H	1.85	0.42
2:wh:51:TYR:CG	2:wh:117:ARG:HD2	2.55	0.42
2:8h:63:GLY:CA	3:8l:108:TYR:CZ	2.96	0.42
3:Fl:100:GLN:HE21	3:Fl:100:GLN:HB3	1.68	0.42
3:Il:100:GLN:HE21	3:Il:100:GLN:HB3	1.67	0.42
3:Sl:68:LEU:HD11	3:Sl:107:TYR:HE1	1.84	0.42
3:4l:100:GLN:HE21	3:4l:100:GLN:HB3	1.68	0.42
3:6l:114:ASP:OD1	3:6l:115:SER:N	2.47	0.42
1:G:365:PHE:HA	1:G:366:PRO:HD3	1.93	0.41
1:W:484:ARG:HD2	1:W:484:ARG:HH11	1.66	0.41
2:Ch:37:LEU:HD12	2:Ch:38:ARG:H	1.85	0.41
2:Eh:83:VAL:HG12	2:Eh:86:ARG:HH21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gh:37:LEU:HD12	2:Gh:38:ARG:H	1.85	0.41
2:Ih:86:ARG:HD2	2:Ih:106:ARG:NH2	2.35	0.41
2:Jh:83:VAL:HG12	2:Jh:86:ARG:HH21	1.85	0.41
2:Kh:37:LEU:HD12	2:Kh:38:ARG:H	1.85	0.41
2:Lh:51:TYR:CG	2:Lh:117:ARG:HD2	2.55	0.41
2:Th:86:ARG:HD2	2:Th:106:ARG:NH2	2.35	0.41
2:Vh:83:VAL:HG12	2:Vh:86:ARG:HH21	1.85	0.41
2:Yh:51:TYR:CG	2:Yh:117:ARG:HD2	2.55	0.41
2:Zh:56:VAL:HG21	2:Zh:140:TRP:CZ3	2.55	0.41
2:2h:51:TYR:CG	2:2h:117:ARG:HD2	2.55	0.41
2:5h:86:ARG:HD2	2:5h:106:ARG:NH2	2.35	0.41
2:ah:37:LEU:HD12	2:ah:38:ARG:H	1.85	0.41
2:eh:56:VAL:HG21	2:eh:140:TRP:CZ3	2.55	0.41
2:fh:83:VAL:HG12	2:fh:86:ARG:HH21	1.85	0.41
2:fh:86:ARG:HD2	2:fh:106:ARG:NH2	2.35	0.41
2:ih:37:LEU:HD12	2:ih:38:ARG:H	1.85	0.41
2:jh:83:VAL:HG12	2:jh:86:ARG:HH21	1.85	0.41
2:kh:83:VAL:HG12	2:kh:86:ARG:HH21	1.85	0.41
2:lh:51:TYR:CG	2:lh:117:ARG:HD2	2.55	0.41
2:mh:86:ARG:HD2	2:mh:106:ARG:NH2	2.35	0.41
2:nh:83:VAL:HG12	2:nh:86:ARG:HH21	1.85	0.41
2:qh:37:LEU:HD12	2:qh:38:ARG:H	1.85	0.41
2:qh:83:VAL:HG12	2:qh:86:ARG:HH21	1.85	0.41
2:sh:83:VAL:HG12	2:sh:86:ARG:HH21	1.85	0.41
2:uh:37:LEU:HD12	2:uh:38:ARG:H	1.85	0.41
2:vh:83:VAL:HG12	2:vh:86:ARG:HH21	1.85	0.41
2:zh:117:ARG:HB3	2:zh:139:VAL:HB	2.02	0.41
2:8h:56:VAL:HG21	2:8h:140:TRP:CZ3	2.55	0.41
3:El:68:LEU:HD11	3:El:107:TYR:HE1	1.84	0.41
3:Il:115:SER:HA	3:Il:116:PRO:HD3	1.92	0.41
3:Xl:34:PRO:HA	3:Xl:99:LEU:HB3	2.01	0.41
3:cl:68:LEU:HD11	3:cl:107:TYR:HE1	1.84	0.41
1:A:469:ASP:OD1	1:A:469:ASP:N	2.42	0.41
1:M:353:VAL:H	1:M:645:GLN:HE22	1.65	0.41
1:1:627:HIS:HB3	1:6:605:VAL:HG12	2.02	0.41
1:6:484:ARG:HD2	1:6:596:ASN:HD22	1.85	0.41
1:o:434:MET:H	1:o:434:MET:HG2	1.68	0.41
1:p:469:ASP:OD1	1:p:469:ASP:N	2.42	0.41
2:Bh:37:LEU:HD12	2:Bh:38:ARG:H	1.85	0.41
2:Dh:56:VAL:HG21	2:Dh:140:TRP:CZ3	2.55	0.41
2:Eh:51:TYR:CG	2:Eh:117:ARG:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Eh:117:ARG:HB3	2:Eh:139:VAL:HB	2.02	0.41
2:Fh:83:VAL:HG12	2:Fh:86:ARG:HH21	1.85	0.41
2:Ih:51:TYR:CG	2:Ih:117:ARG:HD2	2.55	0.41
2:Rh:83:VAL:HG12	2:Rh:86:ARG:HH21	1.85	0.41
2:Rh:117:ARG:HB3	2:Rh:139:VAL:HB	2.02	0.41
2:Sh:51:TYR:CG	2:Sh:117:ARG:HD2	2.55	0.41
2:Xh:37:LEU:HD12	2:Xh:38:ARG:H	1.85	0.41
2:1h:51:TYR:CG	2:1h:117:ARG:HD2	2.55	0.41
2:1h:83:VAL:HG12	2:1h:86:ARG:HH21	1.85	0.41
2:2h:37:LEU:HD12	2:2h:38:ARG:H	1.85	0.41
2:2h:56:VAL:HG21	2:2h:140:TRP:CZ3	2.55	0.41
2:4h:77:LYS:CD	2:4h:89:ILE:CG1	2.74	0.41
2:4h:86:ARG:HD2	2:4h:106:ARG:NH2	2.35	0.41
2:6h:56:VAL:HG21	2:6h:140:TRP:CZ3	2.55	0.41
2:ah:117:ARG:HB3	2:ah:139:VAL:HB	2.02	0.41
2:hh:86:ARG:HD2	2:hh:106:ARG:NH2	2.35	0.41
2:mh:54:GLU:CG	2:mh:69:VAL:HG22	2.42	0.41
2:oh:86:ARG:HD2	2:oh:106:ARG:NH2	2.35	0.41
2:wh:37:LEU:HD12	2:wh:38:ARG:H	1.85	0.41
2:wh:83:VAL:HG12	2:wh:86:ARG:HH21	1.85	0.41
2:xh:37:LEU:HD12	2:xh:38:ARG:H	1.85	0.41
2:yh:37:LEU:HD12	2:yh:38:ARG:H	1.85	0.41
2:yh:83:VAL:HG12	2:yh:86:ARG:HH21	1.85	0.41
2:7h:51:TYR:CG	2:7h:117:ARG:HD2	2.55	0.41
3:Ul:34:PRO:HA	3:Ul:99:LEU:HB3	2.01	0.41
3:Zl:68:LEU:HD11	3:Zl:107:TYR:HE1	1.84	0.41
3:il:34:PRO:HA	3:il:99:LEU:HB3	2.00	0.41
3:ll:68:LEU:HD11	3:ll:107:TYR:HE1	1.84	0.41
1:A:484:ARG:HD2	1:A:596:ASN:ND2	2.34	0.41
1:C:469:ASP:OD1	1:C:469:ASP:N	2.42	0.41
1:K:434:MET:H	1:K:434:MET:HG2	1.69	0.41
1:Q:484:ARG:HD2	1:Q:596:ASN:HD22	1.86	0.41
1:6:484:ARG:HD2	1:6:484:ARG:HH11	1.66	0.41
1:a:484:ARG:HD2	1:a:596:ASN:HD22	1.85	0.41
1:e:722:GLU:HA	1:e:723:PRO:HD3	1.88	0.41
1:g:469:ASP:OD1	1:g:469:ASP:N	2.42	0.41
1:r:484:ARG:HD2	1:r:596:ASN:HD22	1.86	0.41
1:t:484:ARG:HD2	1:t:596:ASN:HD22	1.86	0.41
1:z:484:ARG:HD2	1:z:484:ARG:HH11	1.66	0.41
1:8:434:MET:H	1:8:434:MET:HG2	1.68	0.41
2:Ch:117:ARG:HB3	2:Ch:139:VAL:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Eh:37:LEU:HD12	2:Eh:38:ARG:H	1.85	0.41
2:Kh:86:ARG:HD2	2:Kh:106:ARG:NH2	2.35	0.41
2:Nh:51:TYR:CG	2:Nh:117:ARG:HD2	2.55	0.41
2:Oh:37:LEU:HD12	2:Oh:38:ARG:H	1.85	0.41
2:Oh:51:TYR:CG	2:Oh:117:ARG:HD2	2.54	0.41
2:Oh:83:VAL:HG12	2:Oh:86:ARG:HH21	1.85	0.41
2:Uh:56:VAL:HG21	2:Uh:140:TRP:CZ3	2.55	0.41
2:Uh:105:LEU:C	2:Uh:106:ARG:HG3	2.46	0.41
2:Zh:63:GLY:CA	3:Zl:108:TYR:CZ	2.96	0.41
2:4h:37:LEU:HD12	2:4h:38:ARG:H	1.85	0.41
2:6h:37:LEU:HD12	2:6h:38:ARG:H	1.85	0.41
2:hh:37:LEU:HD12	2:hh:38:ARG:H	1.85	0.41
2:kh:77:LYS:HB2	2:kh:77:LYS:HZ1	1.84	0.41
2:kh:86:ARG:HD2	2:kh:106:ARG:NH2	2.35	0.41
2:kh:117:ARG:HB3	2:kh:139:VAL:HB	2.02	0.41
2:mh:56:VAL:HG21	2:mh:140:TRP:CZ3	2.55	0.41
2:mh:105:LEU:C	2:mh:106:ARG:HG3	2.46	0.41
2:oh:51:TYR:CG	2:oh:117:ARG:HD2	2.55	0.41
2:qh:51:TYR:CG	2:qh:117:ARG:HD2	2.55	0.41
2:qh:117:ARG:HB3	2:qh:139:VAL:HB	2.02	0.41
2:th:51:TYR:CG	2:th:117:ARG:HD2	2.55	0.41
3:gl:68:LEU:HD11	3:gl:107:TYR:HE1	1.84	0.41
3:kl:34:PRO:HA	3:kl:99:LEU:HB3	2.01	0.41
3:ol:115:SER:HA	3:ol:116:PRO:HD3	1.92	0.41
1:B:484:ARG:HD2	1:B:596:ASN:HD22	1.85	0.41
1:C:484:ARG:HD2	1:C:596:ASN:HD22	1.85	0.41
1:D:484:ARG:HD2	1:D:596:ASN:HD22	1.85	0.41
1:H:484:ARG:HD2	1:H:596:ASN:HD22	1.86	0.41
1:L:484:ARG:HD2	1:L:596:ASN:HD22	1.86	0.41
1:1:484:ARG:HD2	1:1:596:ASN:HD22	1.85	0.41
1:2:484:ARG:HD2	1:2:596:ASN:HD22	1.86	0.41
1:3:484:ARG:HD2	1:3:596:ASN:HD22	1.85	0.41
1:n:365:PHE:HA	1:n:366:PRO:HD3	1.93	0.41
1:u:532:LYS:HE3	1:u:533:PHE:CZ	2.56	0.41
1:v:484:ARG:HD2	1:v:596:ASN:HD22	1.85	0.41
1:w:484:ARG:HD2	1:w:596:ASN:ND2	2.34	0.41
1:y:484:ARG:HD2	1:y:596:ASN:HD22	1.86	0.41
2:Bh:86:ARG:HD2	2:Bh:106:ARG:NH2	2.35	0.41
2:Bh:105:LEU:C	2:Bh:106:ARG:HG3	2.46	0.41
2:Eh:56:VAL:HG21	2:Eh:140:TRP:CZ3	2.55	0.41
2:Gh:51:TYR:CG	2:Gh:117:ARG:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gh:105:LEU:C	2:Gh:106:ARG:HG3	2.46	0.41
2:Hh:37:LEU:HD12	2:Hh:38:ARG:H	1.85	0.41
2:Kh:105:LEU:C	2:Kh:106:ARG:HG3	2.46	0.41
2:Rh:77:LYS:HB2	2:Rh:77:LYS:HZ1	1.84	0.41
2:Rh:86:ARG:HD2	2:Rh:106:ARG:NH2	2.35	0.41
2:Rh:105:LEU:C	2:Rh:106:ARG:HG3	2.46	0.41
2:Yh:83:VAL:HG12	2:Yh:86:ARG:HH21	1.85	0.41
2:2h:105:LEU:C	2:2h:106:ARG:HG3	2.46	0.41
2:4h:54:GLU:CG	2:4h:69:VAL:HG22	2.42	0.41
2:6h:105:LEU:C	2:6h:106:ARG:HG3	2.46	0.41
2:ch:51:TYR:CG	2:ch:117:ARG:HD2	2.55	0.41
2:eh:117:ARG:HB3	2:eh:139:VAL:HB	2.02	0.41
2:fh:37:LEU:HD12	2:fh:38:ARG:H	1.85	0.41
2:hh:54:GLU:CG	2:hh:69:VAL:HG22	2.42	0.41
2:hh:64:LEU:HD21	3:hl:65:PRO:HG2	2.03	0.41
2:jh:51:TYR:CG	2:jh:117:ARG:HD2	2.55	0.41
2:kh:105:LEU:C	2:kh:106:ARG:HG3	2.46	0.41
2:nh:51:TYR:CG	2:nh:117:ARG:HD2	2.55	0.41
2:nh:105:LEU:C	2:nh:106:ARG:HG3	2.46	0.41
2:oh:54:GLU:CG	2:oh:69:VAL:HG22	2.42	0.41
2:rh:86:ARG:HD2	2:rh:106:ARG:NH2	2.35	0.41
2:sh:117:ARG:HB3	2:sh:139:VAL:HB	2.02	0.41
2:uh:105:LEU:C	2:uh:106:ARG:HG3	2.46	0.41
2:wh:105:LEU:C	2:wh:106:ARG:HG3	2.46	0.41
2:xh:105:LEU:C	2:xh:106:ARG:HG3	2.46	0.41
2:zh:37:LEU:HD12	2:zh:38:ARG:H	1.85	0.41
3:cl:100:GLN:HE21	3:cl:100:GLN:HB3	1.67	0.41
3:ml:34:PRO:HA	3:ml:99:LEU:HB3	2.01	0.41
3:8l:68:LEU:HD11	3:8l:107:TYR:HE1	1.84	0.41
1:A:484:ARG:HD2	1:A:596:ASN:HD22	1.85	0.41
1:B:532:LYS:HE3	1:B:533:PHE:CZ	2.56	0.41
1:D:484:ARG:HD2	1:D:596:ASN:ND2	2.35	0.41
1:J:484:ARG:HD2	1:J:596:ASN:HD22	1.85	0.41
1:Y:484:ARG:HD2	1:Y:596:ASN:ND2	2.34	0.41
1:I:484:ARG:HD2	1:I:596:ASN:ND2	2.34	0.41
1:2:434:MET:H	1:2:434:MET:HG2	1.69	0.41
1:b:484:ARG:HD2	1:b:596:ASN:HD22	1.85	0.41
1:e:484:ARG:HD2	1:e:596:ASN:ND2	2.35	0.41
1:j:434:MET:H	1:j:434:MET:HG2	1.69	0.41
1:k:532:LYS:HE3	1:k:533:PHE:CZ	2.56	0.41
1:p:484:ARG:HD2	1:p:596:ASN:HD22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:484:ARG:HD2	1:t:596:ASN:ND2	2.34	0.41
1:u:484:ARG:HD2	1:u:596:ASN:HD22	1.85	0.41
1:w:484:ARG:HD2	1:w:596:ASN:HD22	1.86	0.41
1:7:532:LYS:HE3	1:7:533:PHE:CZ	2.56	0.41
2:Fh:117:ARG:HB3	2:Fh:139:VAL:HB	2.02	0.41
2:Mh:56:VAL:HG21	2:Mh:140:TRP:CZ3	2.55	0.41
2:Mh:117:ARG:HB3	2:Mh:139:VAL:HB	2.02	0.41
2:Qh:56:VAL:HG21	2:Qh:140:TRP:CZ3	2.55	0.41
2:Qh:86:ARG:HD2	2:Qh:106:ARG:NH2	2.35	0.41
2:Sh:105:LEU:C	2:Sh:106:ARG:HG3	2.46	0.41
2:Th:117:ARG:HB3	2:Th:139:VAL:HB	2.02	0.41
2:Uh:54:GLU:CG	2:Uh:69:VAL:HG22	2.42	0.41
2:Wh:37:LEU:HD12	2:Wh:38:ARG:H	1.85	0.41
2:Zh:142:GLN:N	2:Zh:142:GLN:NE2	2.69	0.41
2:bh:56:VAL:HG21	2:bh:140:TRP:CZ3	2.55	0.41
2:dh:86:ARG:HD2	2:dh:106:ARG:NH2	2.35	0.41
2:fh:51:TYR:CG	2:fh:117:ARG:HD2	2.55	0.41
2:ih:56:VAL:HG21	2:ih:140:TRP:CZ3	2.55	0.41
2:lh:105:LEU:C	2:lh:106:ARG:HG3	2.46	0.41
2:qh:56:VAL:HG21	2:qh:140:TRP:CZ3	2.55	0.41
2:rh:56:VAL:HG21	2:rh:140:TRP:CZ3	2.55	0.41
2:th:142:GLN:N	2:th:142:GLN:NE2	2.69	0.41
2:uh:86:ARG:HD2	2:uh:106:ARG:NH2	2.35	0.41
2:xh:86:ARG:HD2	2:xh:106:ARG:NH2	2.35	0.41
2:xh:117:ARG:HB3	2:xh:139:VAL:HB	2.02	0.41
2:zh:56:VAL:HG21	2:zh:140:TRP:CZ3	2.55	0.41
2:8h:142:GLN:NE2	2:8h:142:GLN:N	2.69	0.41
3:Nl:114:ASP:OD1	3:Nl:115:SER:N	2.47	0.41
3:Rl:34:PRO:HA	3:Rl:99:LEU:HB3	2.01	0.41
1:M:484:ARG:HD2	1:M:596:ASN:HD22	1.85	0.41
1:O:532:LYS:HE3	1:O:533:PHE:CZ	2.56	0.41
1:R:532:LYS:HE3	1:R:533:PHE:CZ	2.56	0.41
1:T:469:ASP:OD1	1:T:469:ASP:N	2.42	0.41
1:T:484:ARG:HD2	1:T:596:ASN:HD22	1.85	0.41
1:X:532:LYS:HE3	1:X:533:PHE:CZ	2.56	0.41
1:Y:532:LYS:HE3	1:Y:533:PHE:CZ	2.56	0.41
1:b:484:ARG:HD2	1:b:484:ARG:HH11	1.66	0.41
1:e:484:ARG:HD2	1:e:596:ASN:HD22	1.86	0.41
1:i:532:LYS:HE3	1:i:533:PHE:CZ	2.56	0.41
2:Ah:117:ARG:HB3	2:Ah:139:VAL:HB	2.02	0.41
2:Dh:117:ARG:HB3	2:Dh:139:VAL:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ih:54:GLU:CG	2:Ih:69:VAL:HG22	2.42	0.41
2:Jh:105:LEU:C	2:Jh:106:ARG:HG3	2.46	0.41
2:Lh:142:GLN:N	2:Lh:142:GLN:NE2	2.69	0.41
2:Ph:105:LEU:C	2:Ph:106:ARG:HG3	2.46	0.41
2:Ph:142:GLN:NE2	2:Ph:142:GLN:N	2.69	0.41
2:Qh:105:LEU:C	2:Qh:106:ARG:HG3	2.46	0.41
2:Vh:51:TYR:CG	2:Vh:117:ARG:HD2	2.55	0.41
2:Wh:56:VAL:HG21	2:Wh:140:TRP:CZ3	2.55	0.41
2:Xh:56:VAL:HG21	2:Xh:140:TRP:CZ3	2.55	0.41
2:Xh:117:ARG:HB3	2:Xh:139:VAL:HB	2.02	0.41
2:Yh:105:LEU:C	2:Yh:106:ARG:HG3	2.46	0.41
2:dh:105:LEU:C	2:dh:106:ARG:HG3	2.46	0.41
2:dh:142:GLN:N	2:dh:142:GLN:NE2	2.69	0.41
2:gh:142:GLN:N	2:gh:142:GLN:NE2	2.69	0.41
2:ih:86:ARG:HD2	2:ih:106:ARG:NH2	2.35	0.41
2:ih:105:LEU:C	2:ih:106:ARG:HG3	2.46	0.41
2:ih:117:ARG:HB3	2:ih:139:VAL:HB	2.02	0.41
2:lh:142:GLN:NE2	2:lh:142:GLN:N	2.69	0.41
2:rh:105:LEU:C	2:rh:106:ARG:HG3	2.46	0.41
2:sh:86:ARG:HD2	2:sh:106:ARG:NH2	2.35	0.41
2:vh:105:LEU:C	2:vh:106:ARG:HG3	2.46	0.41
2:yh:105:LEU:C	2:yh:106:ARG:HG3	2.46	0.41
2:7h:83:VAL:HG12	2:7h:86:ARG:HH21	1.85	0.41
2:7h:105:LEU:C	2:7h:106:ARG:HG3	2.46	0.41
1:F:532:LYS:HE3	1:F:533:PHE:CZ	2.56	0.41
1:L:484:ARG:HD2	1:L:596:ASN:ND2	2.34	0.41
1:P:484:ARG:HD2	1:P:596:ASN:HD22	1.86	0.41
1:2:532:LYS:HE3	1:2:533:PHE:CZ	2.56	0.41
1:5:484:ARG:HD2	1:5:596:ASN:HD22	1.86	0.41
1:a:532:LYS:HE3	1:a:533:PHE:CZ	2.56	0.41
1:f:532:LYS:HE3	1:f:533:PHE:CZ	2.56	0.41
1:g:484:ARG:HD2	1:g:596:ASN:HD22	1.85	0.41
1:h:532:LYS:HE3	1:h:533:PHE:CZ	2.56	0.41
1:s:532:LYS:HE3	1:s:533:PHE:CZ	2.56	0.41
1:x:484:ARG:HD2	1:x:596:ASN:ND2	2.35	0.41
1:7:484:ARG:HD2	1:7:596:ASN:ND2	2.34	0.41
2:Bh:117:ARG:HB3	2:Bh:139:VAL:HB	2.02	0.41
2:Dh:63:GLY:CA	3:Dl:108:TYR:CZ	2.96	0.41
2:Fh:86:ARG:HD2	2:Fh:106:ARG:NH2	2.35	0.41
2:Hh:105:LEU:C	2:Hh:106:ARG:HG3	2.46	0.41
2:Kh:117:ARG:HB3	2:Kh:139:VAL:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ph:86:ARG:HD2	2:Ph:106:ARG:NH2	2.35	0.41
2:Sh:142:GLN:NE2	2:Sh:142:GLN:N	2.69	0.41
2:Th:105:LEU:C	2:Th:106:ARG:HG3	2.46	0.41
2:Th:142:GLN:N	2:Th:142:GLN:NE2	2.69	0.41
2:Xh:86:ARG:HD2	2:Xh:106:ARG:NH2	2.35	0.41
2:1h:105:LEU:C	2:1h:106:ARG:HG3	2.46	0.41
2:1h:142:GLN:N	2:1h:142:GLN:NE2	2.69	0.41
2:bh:117:ARG:HB3	2:bh:139:VAL:HB	2.02	0.41
2:gh:105:LEU:C	2:gh:106:ARG:HG3	2.46	0.41
2:gh:117:ARG:HB3	2:gh:139:VAL:HB	2.02	0.41
2:mh:83:VAL:HG12	2:mh:86:ARG:HH21	1.85	0.41
2:sh:142:GLN:N	2:sh:142:GLN:NE2	2.69	0.41
2:th:105:LEU:C	2:th:106:ARG:HG3	2.46	0.41
2:uh:117:ARG:HB3	2:uh:139:VAL:HB	2.02	0.41
2:wh:142:GLN:N	2:wh:142:GLN:NE2	2.69	0.41
2:7h:56:VAL:HG21	2:7h:140:TRP:CZ3	2.55	0.41
2:8h:105:LEU:C	2:8h:106:ARG:HG3	2.46	0.41
3:tl:115:SER:HA	3:tl:116:PRO:HD3	1.92	0.41
1:C:532:LYS:HE3	1:C:533:PHE:CZ	2.56	0.41
1:D:371:MET:SD	1:m:661:PHE:HA	2.61	0.41
1:I:532:LYS:HE3	1:I:533:PHE:CZ	2.56	0.41
1:L:661:PHE:HA	1:z:371:MET:SD	2.61	0.41
1:M:489:SER:HB3	1:M:533:PHE:CE1	2.56	0.41
1:P:532:LYS:HE3	1:P:533:PHE:CZ	2.56	0.41
1:S:484:ARG:HD2	1:S:596:ASN:HD22	1.85	0.41
1:U:661:PHE:HA	1:e:371:MET:SD	2.61	0.41
1:4:532:LYS:HE3	1:4:533:PHE:CZ	2.56	0.41
1:6:532:LYS:HE3	1:6:533:PHE:CZ	2.56	0.41
1:b:489:SER:HB3	1:b:533:PHE:CE1	2.56	0.41
1:d:484:ARG:HD2	1:d:596:ASN:HD22	1.86	0.41
1:d:532:LYS:HE3	1:d:533:PHE:CZ	2.56	0.41
1:l:484:ARG:HD2	1:l:596:ASN:HD22	1.85	0.41
1:n:484:ARG:HD2	1:n:484:ARG:HH11	1.66	0.41
1:o:532:LYS:HE3	1:o:533:PHE:CZ	2.56	0.41
1:x:434:MET:H	1:x:434:MET:HG2	1.69	0.41
1:z:532:LYS:HE3	1:z:533:PHE:CZ	2.56	0.41
2:Ch:56:VAL:HG21	2:Ch:140:TRP:CZ3	2.55	0.41
2:Dh:37:LEU:HD12	2:Dh:38:ARG:H	1.85	0.41
2:Fh:56:VAL:HG21	2:Fh:140:TRP:CZ3	2.55	0.41
2:Fh:105:LEU:C	2:Fh:106:ARG:HG3	2.46	0.41
2:Fh:142:GLN:N	2:Fh:142:GLN:NE2	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Jh:37:LEU:HD12	2:Jh:38:ARG:H	1.85	0.41
2:Jh:86:ARG:HD2	2:Jh:106:ARG:NH2	2.35	0.41
2:Mh:142:GLN:N	2:Mh:142:GLN:NE2	2.69	0.41
2:Oh:105:LEU:C	2:Oh:106:ARG:HG3	2.46	0.41
2:Uh:83:VAL:HG12	2:Uh:86:ARG:HH21	1.85	0.41
2:Xh:83:VAL:HG12	2:Xh:86:ARG:HH21	1.85	0.41
2:Xh:105:LEU:C	2:Xh:106:ARG:HG3	2.46	0.41
2:1h:56:VAL:HG21	2:1h:140:TRP:CZ3	2.55	0.41
2:ah:56:VAL:HG21	2:ah:140:TRP:CZ3	2.55	0.41
2:bh:142:GLN:N	2:bh:142:GLN:NE2	2.69	0.41
2:ch:56:VAL:HG21	2:ch:140:TRP:CZ3	2.55	0.41
2:eh:105:LEU:C	2:eh:106:ARG:HG3	2.46	0.41
2:fh:105:LEU:C	2:fh:106:ARG:HG3	2.46	0.41
2:ih:83:VAL:HG12	2:ih:86:ARG:HH21	1.85	0.41
2:jh:37:LEU:HD12	2:jh:38:ARG:H	1.85	0.41
2:ph:117:ARG:HB3	2:ph:139:VAL:HB	2.02	0.41
2:rh:37:LEU:HD12	2:rh:38:ARG:H	1.85	0.41
2:sh:56:VAL:HG21	2:sh:140:TRP:CZ3	2.55	0.41
2:sh:105:LEU:C	2:sh:106:ARG:HG3	2.46	0.41
2:vh:86:ARG:HD2	2:vh:106:ARG:NH2	2.35	0.41
2:yh:56:VAL:HG21	2:yh:140:TRP:CZ3	2.55	0.41
3:6l:115:SER:HA	3:6l:116:PRO:HD3	1.92	0.41
3:ml:113:ASP:OD2	3:ml:115:SER:OG	2.29	0.41
1:B:661:PHE:HA	1:P:371:MET:SD	2.61	0.41
1:C:371:MET:SD	1:7:661:PHE:HA	2.61	0.41
1:C:489:SER:HB3	1:C:533:PHE:CE1	2.56	0.41
1:D:532:LYS:HE3	1:D:533:PHE:CZ	2.56	0.41
1:E:532:LYS:HE3	1:E:533:PHE:CZ	2.56	0.41
1:E:661:PHE:HA	1:L:371:MET:SD	2.61	0.41
1:I:434:MET:H	1:I:434:MET:HG2	1.68	0.41
1:I:484:ARG:HD2	1:I:596:ASN:HD22	1.86	0.41
1:J:371:MET:SD	1:i:661:PHE:HA	2.61	0.41
1:K:484:ARG:HD2	1:K:596:ASN:ND2	2.35	0.41
1:K:484:ARG:HD2	1:K:596:ASN:HD22	1.85	0.41
1:O:484:ARG:HD2	1:O:596:ASN:HD22	1.85	0.41
1:O:489:SER:HB3	1:O:533:PHE:CE1	2.56	0.41
1:U:532:LYS:HE3	1:U:533:PHE:CZ	2.56	0.41
1:W:371:MET:SD	1:t:661:PHE:HA	2.61	0.41
1:W:489:SER:HB3	1:W:533:PHE:CE1	2.56	0.41
1:W:532:LYS:HE3	1:W:533:PHE:CZ	2.56	0.41
1:X:661:PHE:HA	1:v:371:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:484:ARG:HD2	1:Y:596:ASN:HD22	1.85	0.41
1:Y:489:SER:HB3	1:Y:533:PHE:CE1	2.56	0.41
1:4:484:ARG:HD2	1:4:596:ASN:HD22	1.85	0.41
1:e:532:LYS:HE3	1:e:533:PHE:CZ	2.56	0.41
1:f:484:ARG:HD2	1:f:596:ASN:HD22	1.85	0.41
1:i:484:ARG:HD2	1:i:596:ASN:HD22	1.85	0.41
1:m:532:LYS:HE3	1:m:533:PHE:CZ	2.56	0.41
1:o:484:ARG:HD2	1:o:596:ASN:HD22	1.86	0.41
1:p:532:LYS:HE3	1:p:533:PHE:CZ	2.56	0.41
1:q:532:LYS:HE3	1:q:533:PHE:CZ	2.56	0.41
1:q:661:PHE:HA	1:t:371:MET:SD	2.61	0.41
1:x:484:ARG:HD2	1:x:596:ASN:HD22	1.85	0.41
1:z:489:SER:HB3	1:z:533:PHE:CE1	2.56	0.41
1:7:484:ARG:HD2	1:7:596:ASN:HD22	1.85	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:86:ARG:HD2	2:Ah:106:ARG:NH2	2.35	0.41
2:Ah:142:GLN:N	2:Ah:142:GLN:NE2	2.69	0.41
2:Hh:56:VAL:HG21	2:Hh:140:TRP:CZ3	2.55	0.41
2:Lh:37:LEU:HD12	2:Lh:38:ARG:H	1.85	0.41
2:Lh:77:LYS:HB2	2:Lh:77:LYS:HZ1	1.86	0.41
2:Lh:105:LEU:C	2:Lh:106:ARG:HG3	2.46	0.41
2:Nh:56:VAL:HG21	2:Nh:140:TRP:CZ3	2.55	0.41
2:Nh:86:ARG:HD2	2:Nh:106:ARG:NH2	2.35	0.41
2:Nh:117:ARG:HB3	2:Nh:139:VAL:HB	2.02	0.41
2:Qh:37:LEU:HD12	2:Qh:38:ARG:H	1.85	0.41
2:Rh:142:GLN:N	2:Rh:142:GLN:NE2	2.69	0.41
2:Vh:37:LEU:HD12	2:Vh:38:ARG:H	1.85	0.41
2:Vh:142:GLN:N	2:Vh:142:GLN:NE2	2.69	0.41
2:Wh:83:VAL:O	2:Wh:84:LYS:C	2.64	0.41
2:Wh:105:LEU:C	2:Wh:106:ARG:HG3	2.46	0.41
2:Wh:142:GLN:N	2:Wh:142:GLN:NE2	2.69	0.41
2:Xh:142:GLN:NE2	2:Xh:142:GLN:N	2.69	0.41
2:Yh:117:ARG:HB3	2:Yh:139:VAL:HB	2.02	0.41
2:Yh:142:GLN:N	2:Yh:142:GLN:NE2	2.69	0.41
2:Zh:105:LEU:C	2:Zh:106:ARG:HG3	2.46	0.41
2:ch:86:ARG:HD2	2:ch:106:ARG:NH2	2.35	0.41
2:ch:117:ARG:HB3	2:ch:139:VAL:HB	2.02	0.41
2:dh:56:VAL:HG21	2:dh:140:TRP:CZ3	2.55	0.41
2:eh:37:LEU:HD12	2:eh:38:ARG:H	1.85	0.41
2:hh:77:LYS:HB2	2:hh:77:LYS:HZ1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hh:105:LEU:C	2:hh:106:ARG:HG3	2.46	0.41
2:jh:142:GLN:N	2:jh:142:GLN:NE2	2.69	0.41
2:kh:142:GLN:NE2	2:kh:142:GLN:N	2.69	0.41
2:ph:37:LEU:HD12	2:ph:38:ARG:H	1.85	0.41
2:ph:86:ARG:HD2	2:ph:106:ARG:NH2	2.35	0.41
2:ph:142:GLN:N	2:ph:142:GLN:NE2	2.69	0.41
2:th:37:LEU:HD12	2:th:38:ARG:H	1.85	0.41
2:th:83:VAL:O	2:th:84:LYS:C	2.64	0.41
2:vh:37:LEU:HD12	2:vh:38:ARG:H	1.85	0.41
2:wh:56:VAL:HG21	2:wh:140:TRP:CZ3	2.55	0.41
2:yh:86:ARG:HD2	2:yh:106:ARG:NH2	2.35	0.41
2:zh:83:VAL:O	2:zh:84:LYS:C	2.64	0.41
2:zh:105:LEU:C	2:zh:106:ARG:HG3	2.46	0.41
2:7h:86:ARG:HD2	2:7h:106:ARG:NH2	2.35	0.41
2:7h:117:ARG:HB3	2:7h:139:VAL:HB	2.02	0.41
2:7h:142:GLN:N	2:7h:142:GLN:NE2	2.69	0.41
2:8h:37:LEU:HD12	2:8h:38:ARG:H	1.85	0.41
2:8h:83:VAL:HG12	2:8h:86:ARG:HH21	1.85	0.41
3:HI:114:ASP:OD1	3:HI:115:SER:N	2.47	0.41
3:Ul:113:ASP:OD2	3:Ul:115:SER:OG	2.29	0.41
3:2l:115:SER:HA	3:2l:116:PRO:HD3	1.92	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:B:722:GLU:HA	1:B:723:PRO:HD3	1.88	0.41
1:D:469:ASP:OD1	1:D:469:ASP:N	2.42	0.41
1:G:484:ARG:HD2	1:G:484:ARG:HH11	1.66	0.41
1:K:489:SER:HB3	1:K:533:PHE:CE1	2.56	0.41
1:K:661:PHE:HA	1:3:371:MET:SD	2.61	0.41
1:L:489:SER:HB3	1:L:533:PHE:CE1	2.56	0.41
1:L:532:LYS:HE3	1:L:533:PHE:CZ	2.56	0.41
1:M:484:ARG:HD2	1:M:484:ARG:HH11	1.66	0.41
1:N:371:MET:SD	1:S:661:PHE:HA	2.61	0.41
1:S:489:SER:HB3	1:S:533:PHE:CE1	2.56	0.41
1:X:484:ARG:HD2	1:X:596:ASN:HD22	1.85	0.41
1:Y:661:PHE:HA	1:a:371:MET:SD	2.61	0.41
1:Z:489:SER:HB3	1:Z:533:PHE:CE1	2.56	0.41
1:2:484:ARG:HD2	1:2:484:ARG:HH11	1.66	0.41
1:5:371:MET:SD	1:x:661:PHE:HA	2.61	0.41
1:a:489:SER:HB3	1:a:533:PHE:CE1	2.56	0.41
1:e:469:ASP:OD1	1:e:469:ASP:N	2.42	0.41
1:h:484:ARG:HD2	1:h:596:ASN:HD22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:484:ARG:HD2	1:k:596:ASN:HD22	1.85	0.41
1:l:489:SER:HB3	1:l:533:PHE:CE1	2.56	0.41
1:m:434:MET:H	1:m:434:MET:HG2	1.69	0.41
1:p:489:SER:HB3	1:p:533:PHE:CE1	2.56	0.41
1:r:371:MET:SD	1:z:661:PHE:HA	2.61	0.41
1:r:489:SER:HB3	1:r:533:PHE:CE1	2.56	0.41
1:r:722:GLU:HA	1:r:723:PRO:HD3	1.88	0.41
1:t:532:LYS:HE3	1:t:533:PHE:CZ	2.56	0.41
1:u:489:SER:HB3	1:u:533:PHE:CE1	2.56	0.41
1:x:469:ASP:OD1	1:x:469:ASP:N	2.42	0.41
1:x:489:SER:HB3	1:x:533:PHE:CE1	2.56	0.41
1:8:489:SER:HB3	1:8:533:PHE:CE1	2.56	0.41
2:Ah:37:LEU:HD12	2:Ah:38:ARG:H	1.85	0.41
2:Dh:105:LEU:C	2:Dh:106:ARG:HG3	2.46	0.41
2:Hh:86:ARG:HD2	2:Hh:106:ARG:NH2	2.35	0.41
2:Jh:142:GLN:N	2:Jh:142:GLN:NE2	2.69	0.41
2:Kh:142:GLN:NE2	2:Kh:142:GLN:N	2.69	0.41
2:Lh:83:VAL:O	2:Lh:84:LYS:C	2.64	0.41
2:Nh:105:LEU:C	2:Nh:106:ARG:HG3	2.46	0.41
2:Sh:56:VAL:HG21	2:Sh:140:TRP:CZ3	2.55	0.41
2:Uh:142:GLN:N	2:Uh:142:GLN:NE2	2.69	0.41
2:Vh:105:LEU:C	2:Vh:106:ARG:HG3	2.46	0.41
2:Yh:86:ARG:HD2	2:Yh:106:ARG:NH2	2.35	0.41
2:Zh:83:VAL:HG12	2:Zh:86:ARG:HH21	1.85	0.41
2:3h:117:ARG:HB3	2:3h:139:VAL:HB	2.02	0.41
2:4h:105:LEU:C	2:4h:106:ARG:HG3	2.46	0.41
2:4h:142:GLN:NE2	2:4h:142:GLN:N	2.69	0.41
2:hh:142:GLN:NE2	2:hh:142:GLN:N	2.69	0.41
2:ih:142:GLN:N	2:ih:142:GLN:NE2	2.69	0.41
2:th:117:ARG:HB3	2:th:139:VAL:HB	2.02	0.41
2:vh:142:GLN:NE2	2:vh:142:GLN:N	2.69	0.41
2:zh:142:GLN:N	2:zh:142:GLN:NE2	2.69	0.41
3:Gl:113:ASP:OD2	3:Gl:115:SER:OG	2.29	0.41
1:D:661:PHE:HA	1:I:371:MET:SD	2.61	0.40
1:E:371:MET:SD	1:4:661:PHE:HA	2.61	0.40
1:M:532:LYS:HE3	1:M:533:PHE:CZ	2.56	0.40
1:Q:371:MET:SD	1:W:661:PHE:HA	2.61	0.40
1:Q:489:SER:HB3	1:Q:533:PHE:CE1	2.56	0.40
1:Q:532:LYS:HE3	1:Q:533:PHE:CZ	2.56	0.40
1:S:532:LYS:HE3	1:S:533:PHE:CZ	2.56	0.40
1:T:532:LYS:HE3	1:T:533:PHE:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:532:LYS:HE3	1:Z:533:PHE:CZ	2.56	0.40
1:3:532:LYS:HE3	1:3:533:PHE:CZ	2.56	0.40
1:5:532:LYS:HE3	1:5:533:PHE:CZ	2.56	0.40
1:b:371:MET:SD	1:p:661:PHE:HA	2.61	0.40
1:b:532:LYS:HE3	1:b:533:PHE:CZ	2.56	0.40
1:c:371:MET:SD	1:l:661:PHE:HA	2.61	0.40
1:c:532:LYS:HE3	1:c:533:PHE:CZ	2.56	0.40
1:d:371:MET:SD	1:u:661:PHE:HA	2.61	0.40
1:f:489:SER:HB3	1:f:533:PHE:CE1	2.56	0.40
1:g:532:LYS:HE3	1:g:533:PHE:CZ	2.56	0.40
1:l:532:LYS:HE3	1:l:533:PHE:CZ	2.56	0.40
1:m:489:SER:HB3	1:m:533:PHE:CE1	2.56	0.40
1:p:722:GLU:HA	1:p:723:PRO:HD3	1.88	0.40
1:r:532:LYS:HE3	1:r:533:PHE:CZ	2.56	0.40
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:Ah:63:GLY:CA	3:Al:108:TYR:CZ	3.02	0.40
2:Gh:54:GLU:CG	2:Gh:69:VAL:HG22	2.43	0.40
2:Gh:56:VAL:HG21	2:Gh:140:TRP:CZ3	2.55	0.40
2:Ih:142:GLN:N	2:Ih:142:GLN:NE2	2.69	0.40
2:Ph:56:VAL:HG21	2:Ph:140:TRP:CZ3	2.55	0.40
2:Sh:37:LEU:HD12	2:Sh:38:ARG:H	1.85	0.40
2:Sh:83:VAL:HG12	2:Sh:86:ARG:HH21	1.85	0.40
2:Zh:37:LEU:HD12	2:Zh:38:ARG:H	1.85	0.40
2:Zh:117:ARG:HB3	2:Zh:139:VAL:HB	2.02	0.40
2:3h:83:VAL:O	2:3h:84:LYS:C	2.64	0.40
2:4h:77:LYS:HB2	2:4h:77:LYS:HZ1	1.86	0.40
2:5h:83:VAL:O	2:5h:84:LYS:C	2.64	0.40
2:6h:86:ARG:HD2	2:6h:106:ARG:NH2	2.35	0.40
2:ch:105:LEU:C	2:ch:106:ARG:HG3	2.46	0.40
2:eh:63:GLY:CA	3:el:108:TYR:CZ	2.97	0.40
2:jh:105:LEU:C	2:jh:106:ARG:HG3	2.46	0.40
2:lh:37:LEU:HD12	2:lh:38:ARG:H	1.85	0.40
2:lh:56:VAL:HG21	2:lh:140:TRP:CZ3	2.55	0.40
2:lh:83:VAL:HG12	2:lh:86:ARG:HH21	1.85	0.40
2:mh:142:GLN:N	2:mh:142:GLN:NE2	2.69	0.40
2:rh:117:ARG:HB3	2:rh:139:VAL:HB	2.02	0.40
2:xh:142:GLN:N	2:xh:142:GLN:NE2	2.69	0.40
2:yh:142:GLN:NE2	2:yh:142:GLN:N	2.69	0.40
3:Fl:115:SER:HA	3:Fl:116:PRO:HD3	1.92	0.40
3:Ll:115:SER:HA	3:Ll:116:PRO:HD3	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Nl:100:GLN:HE21	3:Nl:100:GLN:HB3	1.68	0.40
1:A:489:SER:HB3	1:A:533:PHE:CE1	2.56	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:N:484:ARG:HD2	1:N:596:ASN:HD22	1.85	0.40
1:N:532:LYS:HE3	1:N:533:PHE:CZ	2.56	0.40
1:P:484:ARG:HD2	1:P:484:ARG:HH11	1.66	0.40
1:R:484:ARG:HD2	1:R:596:ASN:HD22	1.85	0.40
1:T:489:SER:HB3	1:T:533:PHE:CE1	2.56	0.40
1:U:489:SER:HB3	1:U:533:PHE:CE1	2.56	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
1:2:661:PHE:HA	1:8:371:MET:SD	2.62	0.40
1:3:489:SER:HB3	1:3:533:PHE:CE1	2.56	0.40
1:c:484:ARG:HD2	1:c:596:ASN:HD22	1.85	0.40
1:e:661:PHE:HA	1:o:371:MET:SD	2.61	0.40
1:g:489:SER:HB3	1:g:533:PHE:CE1	2.56	0.40
1:h:661:PHE:HA	1:q:371:MET:SD	2.61	0.40
1:j:489:SER:HB3	1:j:533:PHE:CE1	2.56	0.40
1:m:484:ARG:HD2	1:m:596:ASN:HD22	1.86	0.40
1:s:722:GLU:HA	1:s:723:PRO:HD3	1.88	0.40
1:u:722:GLU:HA	1:u:723:PRO:HD3	1.88	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
2:Ah:105:LEU:C	2:Ah:106:ARG:HG3	2.46	0.40
2:Bh:83:VAL:O	2:Bh:84:LYS:C	2.64	0.40
2:Eh:83:VAL:O	2:Eh:84:LYS:C	2.64	0.40
2:Hh:142:GLN:NE2	2:Hh:142:GLN:N	2.69	0.40
2:Lh:117:ARG:HB3	2:Lh:139:VAL:HB	2.02	0.40
2:Qh:83:VAL:HG12	2:Qh:86:ARG:HH21	1.85	0.40
2:Qh:117:ARG:HB3	2:Qh:139:VAL:HB	2.02	0.40
2:Zh:29:GLY:H	2:Zh:145:THR:HB	1.87	0.40
2:Zh:83:VAL:O	2:Zh:84:LYS:C	2.64	0.40
2:5h:142:GLN:NE2	2:5h:142:GLN:N	2.69	0.40
2:lh:83:VAL:O	2:lh:84:LYS:C	2.64	0.40
2:nh:56:VAL:HG21	2:nh:140:TRP:CZ3	2.55	0.40
2:oh:142:GLN:N	2:oh:142:GLN:NE2	2.69	0.40
2:ph:105:LEU:C	2:ph:106:ARG:HG3	2.46	0.40
2:qh:83:VAL:O	2:qh:84:LYS:C	2.64	0.40
2:uh:83:VAL:O	2:uh:84:LYS:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:xh:83:VAL:HG12	2:xh:86:ARG:HH21	1.85	0.40
2:8h:29:GLY:H	2:8h:145:THR:HB	1.87	0.40
2:8h:83:VAL:O	2:8h:84:LYS:C	2.64	0.40
2:8h:117:ARG:HB3	2:8h:139:VAL:HB	2.02	0.40
3:wl:100:GLN:HE21	3:wl:100:GLN:HB3	1.68	0.40
1:A:661:PHE:HA	1:M:371:MET:SD	2.61	0.40
1:B:371:MET:SD	1:Z:661:PHE:HA	2.61	0.40
1:F:484:ARG:HD2	1:F:596:ASN:HD22	1.85	0.40
1:G:484:ARG:HD2	1:G:596:ASN:HD22	1.85	0.40
1:K:469:ASP:OD1	1:K:469:ASP:N	2.42	0.40
1:Q:722:GLU:HA	1:Q:723:PRO:HD3	1.88	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:434:MET:H	1:U:434:MET:HG2	1.69	0.40
1:6:489:SER:HB3	1:6:533:PHE:CE1	2.56	0.40
1:k:605:VAL:HG12	1:8:627:HIS:HB3	2.04	0.40
1:u:371:MET:SD	1:8:661:PHE:HA	2.61	0.40
2:Gh:83:VAL:O	2:Gh:84:LYS:C	2.64	0.40
2:Ih:83:VAL:HG12	2:Ih:86:ARG:HH21	1.85	0.40
2:Ih:105:LEU:C	2:Ih:106:ARG:HG3	2.46	0.40
2:Kh:83:VAL:HG12	2:Kh:86:ARG:HH21	1.85	0.40
2:Lh:29:GLY:H	2:Lh:145:THR:HB	1.87	0.40
2:Sh:29:GLY:H	2:Sh:145:THR:HB	1.87	0.40
2:Sh:83:VAL:O	2:Sh:84:LYS:C	2.64	0.40
2:Wh:86:ARG:HD2	2:Wh:106:ARG:NH2	2.35	0.40
2:Yh:29:GLY:H	2:Yh:145:THR:HB	1.87	0.40
2:2h:86:ARG:HD2	2:2h:106:ARG:NH2	2.35	0.40
2:3h:142:GLN:N	2:3h:142:GLN:NE2	2.69	0.40
2:5h:117:ARG:HB3	2:5h:139:VAL:HB	2.02	0.40
2:6h:29:GLY:H	2:6h:145:THR:HB	1.87	0.40
2:lh:29:GLY:H	2:lh:145:THR:HB	1.87	0.40
2:nh:54:GLU:CG	2:nh:69:VAL:HG22	2.43	0.40
2:nh:83:VAL:O	2:nh:84:LYS:C	2.64	0.40
2:ph:29:GLY:H	2:ph:145:THR:HB	1.87	0.40
2:qh:142:GLN:NE2	2:qh:142:GLN:N	2.69	0.40
2:rh:83:VAL:HG12	2:rh:86:ARG:HH21	1.85	0.40
2:th:29:GLY:H	2:th:145:THR:HB	1.87	0.40
2:th:86:ARG:HD2	2:th:106:ARG:NH2	2.35	0.40
2:xh:29:GLY:H	2:xh:145:THR:HB	1.87	0.40
1:C:434:MET:H	1:C:434:MET:HG2	1.69	0.40
1:F:501:SER:HB2	1:1:448:THR:HG23	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:661:PHE:HA	1:X:371:MET:SD	2.61	0.40
1:G:489:SER:HB3	1:G:533:PHE:CE1	2.56	0.40
1:M:661:PHE:HA	1:l:371:MET:SD	2.61	0.40
1:U:484:ARG:HD2	1:U:596:ASN:HD22	1.86	0.40
1:V:532:LYS:HE3	1:V:533:PHE:CZ	2.56	0.40
1:5:489:SER:HB3	1:5:533:PHE:CE1	2.56	0.40
1:5:501:SER:HB2	1:p:448:THR:HG23	2.04	0.40
1:c:444:TYR:OH	1:c:469:ASP:OD2	2.31	0.40
1:j:532:LYS:HE3	1:j:533:PHE:CZ	2.56	0.40
1:j:661:PHE:HA	1:p:371:MET:SD	2.62	0.40
1:k:489:SER:HB3	1:k:533:PHE:CE1	2.56	0.40
1:k:661:PHE:HA	1:y:371:MET:SD	2.61	0.40
1:n:444:TYR:OH	1:n:469:ASP:OD2	2.31	0.40
1:n:484:ARG:HD2	1:n:596:ASN:HD22	1.86	0.40
1:n:489:SER:HB3	1:n:533:PHE:CE1	2.56	0.40
1:s:484:ARG:HD2	1:s:596:ASN:HD22	1.85	0.40
1:v:532:LYS:HE3	1:v:533:PHE:CZ	2.56	0.40
1:z:484:ARG:HD2	1:z:596:ASN:HD22	1.86	0.40
2:Ah:29:GLY:H	2:Ah:145:THR:HB	1.87	0.40
2:Eh:29:GLY:H	2:Eh:145:THR:HB	1.87	0.40
2:Eh:142:GLN:NE2	2:Eh:142:GLN:N	2.69	0.40
2:Fh:83:VAL:O	2:Fh:84:LYS:C	2.64	0.40
2:Rh:83:VAL:O	2:Rh:84:LYS:C	2.64	0.40
2:Vh:29:GLY:H	2:Vh:145:THR:HB	1.87	0.40
2:2h:29:GLY:H	2:2h:145:THR:HB	1.87	0.40
2:4h:83:VAL:O	2:4h:84:LYS:C	2.64	0.40
2:6h:142:GLN:NE2	2:6h:142:GLN:N	2.69	0.40
2:oh:83:VAL:HG12	2:oh:86:ARG:HH21	1.85	0.40
2:qh:29:GLY:H	2:qh:145:THR:HB	1.87	0.40
2:sh:83:VAL:O	2:sh:84:LYS:C	2.64	0.40
2:wh:83:VAL:O	2:wh:84:LYS:C	2.64	0.40
2:zh:29:GLY:H	2:zh:145:THR:HB	1.87	0.40
2:zh:86:ARG:HD2	2:zh:106:ARG:NH2	2.35	0.40
2:7h:29:GLY:H	2:7h:145:THR:HB	1.87	0.40
3:Zl:102:GLU:H	3:Zl:102:GLU:HG2	1.76	0.40
3:sl:115:SER:HA	3:sl:116:PRO:HD3	1.92	0.40
1:A:371:MET:SD	1:V:661:PHE:HA	2.62	0.40
1:B:728:THR:CG2	1:B:728:THR:O	2.70	0.40
1:E:489:SER:HB3	1:E:533:PHE:CE1	2.56	0.40
1:F:489:SER:HB3	1:F:533:PHE:CE1	2.56	0.40
1:G:661:PHE:HA	1:U:371:MET:SD	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:371:MET:SD	1:R:661:PHE:HA	2.61	0.40
1:H:601:LEU:N	1:H:604:MET:SD	2.79	0.40
1:I:605:VAL:HG12	1:v:627:HIS:HB3	2.04	0.40
1:J:627:HIS:HB3	1:o:605:VAL:HG12	2.04	0.40
1:N:627:HIS:HB3	1:d:605:VAL:HG12	2.04	0.40
1:O:728:THR:CG2	1:O:728:THR:O	2.70	0.40
1:R:605:VAL:HG12	1:Z:627:HIS:HB3	2.04	0.40
1:S:371:MET:SD	1:b:661:PHE:HA	2.61	0.40
1:T:728:THR:CG2	1:T:728:THR:O	2.70	0.40
1:1:532:LYS:HE3	1:1:533:PHE:CZ	2.56	0.40
1:4:489:SER:HB3	1:4:533:PHE:CE1	2.56	0.40
1:f:728:THR:CG2	1:f:728:THR:O	2.70	0.40
1:g:728:THR:CG2	1:g:728:THR:O	2.70	0.40
1:m:371:MET:SD	1:n:661:PHE:HA	2.61	0.40
1:q:489:SER:HB3	1:q:533:PHE:CE1	2.56	0.40
1:s:489:SER:HB3	1:s:533:PHE:CE1	2.56	0.40
1:s:728:THR:CG2	1:s:728:THR:O	2.70	0.40
1:t:484:ARG:HD2	1:t:484:ARG:HH11	1.66	0.40
1:u:728:THR:CG2	1:u:728:THR:O	2.70	0.40
1:8:484:ARG:HD2	1:8:596:ASN:HD22	1.85	0.40
2:Ch:105:LEU:C	2:Ch:106:ARG:HG3	2.46	0.40
2:Eh:105:LEU:C	2:Eh:106:ARG:HG3	2.46	0.40
2:Kh:29:GLY:H	2:Kh:145:THR:HB	1.87	0.40
2:Qh:77:LYS:CD	2:Qh:89:ILE:CG1	2.74	0.40
2:Th:29:GLY:H	2:Th:145:THR:HB	1.87	0.40
2:1h:83:VAL:O	2:1h:84:LYS:C	2.64	0.40
2:2h:142:GLN:NE2	2:2h:142:GLN:N	2.69	0.40
2:ah:86:ARG:HD2	2:ah:106:ARG:NH2	2.35	0.40
2:ah:105:LEU:C	2:ah:106:ARG:HG3	2.46	0.40
2:gh:29:GLY:H	2:gh:145:THR:HB	1.87	0.40
2:jh:29:GLY:H	2:jh:145:THR:HB	1.87	0.40
2:kh:83:VAL:O	2:kh:84:LYS:C	2.64	0.40
2:uh:77:LYS:CD	2:uh:89:ILE:CG1	2.74	0.40
2:8h:77:LYS:CD	2:8h:89:ILE:CG1	2.74	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	2	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	3	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	4	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	5	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	6	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	7	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	8	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	A	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	B	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	C	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	D	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	E	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	F	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	G	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	H	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	I	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	J	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	K	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	L	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	M	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	N	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	O	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	P	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	Q	514/533 (96%)	500 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	S	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	T	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	U	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	V	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	W	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	X	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	Y	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	Z	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	a	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	b	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	c	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	d	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	e	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	f	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	g	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	h	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	i	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	j	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	k	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	l	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	m	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	n	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	o	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	p	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	q	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	r	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	s	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	t	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	u	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	v	514/533 (96%)	500 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	x	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	y	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
1	z	514/533 (96%)	500 (97%)	14 (3%)	0	100	100
2	1h	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	2h	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	3h	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	4h	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	5h	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	6h	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	7h	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	8h	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Ah	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Bh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Ch	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Dh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Eh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Fh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Gh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Hh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Ih	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Jh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Kh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Lh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Mh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Nh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Oh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Ph	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Qh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Rh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Sh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	Th	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Uh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Vh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Wh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Xh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Yh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	Zh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	ah	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	bh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	ch	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	dh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	eh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	fh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	gh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	hh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	ih	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	jh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	kh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	lh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	mh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	nh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	oh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	ph	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	qh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	rh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	sh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	th	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	uh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	vh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	wh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	xh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	yh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
2	zh	123/125 (98%)	119 (97%)	3 (2%)	1 (1%)	16	34
3	1l	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	2l	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	3l	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	4l	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	5l	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	6l	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	7l	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	8l	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Al	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Bl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Cl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Dl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	El	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Fl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Gl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Hl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Il	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Jl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Kl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Ll	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Ml	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Nl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Ol	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Pl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Ql	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Rl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Sl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Tl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Ul	104/106 (98%)	100 (96%)	4 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	Vl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Wl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Xl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Yl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	Zl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	al	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	bl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	cl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	dl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	el	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	fl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	gl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	hl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	il	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	jl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	kl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	ll	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	ml	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	nl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	ol	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	pl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	ql	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	rl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	sl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	tl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	ul	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	vl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	wl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	xl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	yl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100
3	zl	104/106 (98%)	100 (96%)	4 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	44460/45840 (97%)	43140 (97%)	1260 (3%)	60 (0%)	49 71

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	Ah	135	TYR
2	Bh	135	TYR
2	Ch	135	TYR
2	Dh	135	TYR
2	Eh	135	TYR
2	Fh	135	TYR
2	Gh	135	TYR
2	Hh	135	TYR
2	Ih	135	TYR
2	Jh	135	TYR
2	Kh	135	TYR
2	Lh	135	TYR
2	Mh	135	TYR
2	Nh	135	TYR
2	Oh	135	TYR
2	Ph	135	TYR
2	Qh	135	TYR
2	Rh	135	TYR
2	Sh	135	TYR
2	Th	135	TYR
2	Uh	135	TYR
2	Vh	135	TYR
2	Wh	135	TYR
2	Xh	135	TYR
2	Yh	135	TYR
2	Zh	135	TYR
2	1h	135	TYR
2	2h	135	TYR
2	3h	135	TYR
2	4h	135	TYR
2	5h	135	TYR
2	6h	135	TYR
2	ah	135	TYR
2	bh	135	TYR
2	ch	135	TYR
2	dh	135	TYR
2	eh	135	TYR

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Mol	Chain	Res	Type
2	fh	135	TYR
2	gh	135	TYR
2	hh	135	TYR
2	ih	135	TYR
2	jh	135	TYR
2	kh	135	TYR
2	lh	135	TYR
2	mh	135	TYR
2	nh	135	TYR
2	oh	135	TYR
2	ph	135	TYR
2	qh	135	TYR
2	rh	135	TYR
2	sh	135	TYR
2	th	135	TYR
2	uh	135	TYR
2	vh	135	TYR
2	wh	135	TYR
2	xh	135	TYR
2	yh	135	TYR
2	zh	135	TYR
2	7h	135	TYR
2	8h	135	TYR

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	2	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	3	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	4	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	5	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	6	458/468 (98%)	453 (99%)	5 (1%)	65	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	7	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	8	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	A	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	B	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	C	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	D	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	E	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	F	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	G	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	H	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	I	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	J	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	K	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	L	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	M	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	N	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	O	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	P	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	Q	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	R	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	S	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	T	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	U	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	V	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	W	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	X	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	Y	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	Z	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	a	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	b	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	c	458/468 (98%)	453 (99%)	5 (1%)	65	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	d	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	e	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	f	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	g	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	h	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	i	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	j	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	k	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	l	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	m	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	n	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	o	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	p	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	q	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	r	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	s	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	t	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	u	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	v	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	w	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	x	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	y	458/468 (98%)	453 (99%)	5 (1%)	65	83
1	z	458/468 (98%)	453 (99%)	5 (1%)	65	83
2	1h	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	2h	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	3h	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	4h	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	5h	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	6h	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	7h	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	8h	101/101 (100%)	96 (95%)	5 (5%)	22	45

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	Ah	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Bh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Ch	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Dh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Eh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Fh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Gh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Hh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Ih	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Jh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Kh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Lh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Mh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Nh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Oh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Ph	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Qh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Rh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Sh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Th	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Uh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Vh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Wh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Xh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Yh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	Zh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	ah	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	bh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	ch	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	dh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	eh	101/101 (100%)	96 (95%)	5 (5%)	22	45

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	fh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	gh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	hh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	ih	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	jh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	kh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	lh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	mh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	nh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	oh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	ph	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	qh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	rh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	sh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	th	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	uh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	vh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	wh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	xh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	yh	101/101 (100%)	96 (95%)	5 (5%)	22	45
2	zh	101/101 (100%)	96 (95%)	5 (5%)	22	45
3	1l	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	2l	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	3l	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	4l	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	5l	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	6l	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	7l	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	8l	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Al	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Bl	88/88 (100%)	87 (99%)	1 (1%)	65	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	Cl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Dl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	El	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Fl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Gl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Hl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Il	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Jl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Kl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Ll	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Ml	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Nl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Ol	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Pl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Ql	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Rl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Sl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Tl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Ul	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Vl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Wl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Xl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Yl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	Zl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	al	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	bl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	cl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	dl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	el	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	fl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	gl	88/88 (100%)	87 (99%)	1 (1%)	65	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	hl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	il	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	jl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	kl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	ll	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	ml	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	nl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	ol	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	pl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	ql	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	rl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	sl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	tl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	ul	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	vl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	wl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	xl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	yl	88/88 (100%)	87 (99%)	1 (1%)	65	83
3	zl	88/88 (100%)	87 (99%)	1 (1%)	65	83
All	All	38820/39420 (98%)	38160 (98%)	660 (2%)	52	77

All (660) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	235	MET
1	A	256	LEU
1	A	311	LEU
1	A	322	GLU
1	A	724	ARG
1	B	235	MET
1	B	256	LEU
1	B	311	LEU
1	B	322	GLU
1	B	724	ARG
1	C	235	MET

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Mol	Chain	Res	Type
1	C	256	LEU
1	C	311	LEU
1	C	322	GLU
1	C	724	ARG
1	D	235	MET
1	D	256	LEU
1	D	311	LEU
1	D	322	GLU
1	D	724	ARG
1	E	235	MET
1	E	256	LEU
1	E	311	LEU
1	E	322	GLU
1	E	724	ARG
1	F	235	MET
1	F	256	LEU
1	F	311	LEU
1	F	322	GLU
1	F	724	ARG
1	G	235	MET
1	G	256	LEU
1	G	311	LEU
1	G	322	GLU
1	G	724	ARG
1	H	235	MET
1	H	256	LEU
1	H	311	LEU
1	H	322	GLU
1	H	724	ARG
1	I	235	MET
1	I	256	LEU
1	I	311	LEU
1	I	322	GLU
1	I	724	ARG
1	J	235	MET
1	J	256	LEU
1	J	311	LEU
1	J	322	GLU
1	J	724	ARG
1	K	235	MET
1	K	256	LEU
1	K	311	LEU

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Mol	Chain	Res	Type
1	K	322	GLU
1	K	724	ARG
1	L	235	MET
1	L	256	LEU
1	L	311	LEU
1	L	322	GLU
1	L	724	ARG
1	M	235	MET
1	M	256	LEU
1	M	311	LEU
1	M	322	GLU
1	M	724	ARG
1	N	235	MET
1	N	256	LEU
1	N	311	LEU
1	N	322	GLU
1	N	724	ARG
1	O	235	MET
1	O	256	LEU
1	O	311	LEU
1	O	322	GLU
1	O	724	ARG
1	P	235	MET
1	P	256	LEU
1	P	311	LEU
1	P	322	GLU
1	P	724	ARG
1	Q	235	MET
1	Q	256	LEU
1	Q	311	LEU
1	Q	322	GLU
1	Q	724	ARG
1	R	235	MET
1	R	256	LEU
1	R	311	LEU
1	R	322	GLU
1	R	724	ARG
1	S	235	MET
1	S	256	LEU
1	S	311	LEU
1	S	322	GLU
1	S	724	ARG

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Mol	Chain	Res	Type
1	T	235	MET
1	T	256	LEU
1	T	311	LEU
1	T	322	GLU
1	T	724	ARG
1	U	235	MET
1	U	256	LEU
1	U	311	LEU
1	U	322	GLU
1	U	724	ARG
1	V	235	MET
1	V	256	LEU
1	V	311	LEU
1	V	322	GLU
1	V	724	ARG
1	W	235	MET
1	W	256	LEU
1	W	311	LEU
1	W	322	GLU
1	W	724	ARG
1	X	235	MET
1	X	256	LEU
1	X	311	LEU
1	X	322	GLU
1	X	724	ARG
1	Y	235	MET
1	Y	256	LEU
1	Y	311	LEU
1	Y	322	GLU
1	Y	724	ARG
1	Z	235	MET
1	Z	256	LEU
1	Z	311	LEU
1	Z	322	GLU
1	Z	724	ARG
1	1	235	MET
1	1	256	LEU
1	1	311	LEU
1	1	322	GLU
1	1	724	ARG
1	2	235	MET
1	2	256	LEU

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Mol	Chain	Res	Type
1	2	311	LEU
1	2	322	GLU
1	2	724	ARG
1	3	235	MET
1	3	256	LEU
1	3	311	LEU
1	3	322	GLU
1	3	724	ARG
1	4	235	MET
1	4	256	LEU
1	4	311	LEU
1	4	322	GLU
1	4	724	ARG
1	5	235	MET
1	5	256	LEU
1	5	311	LEU
1	5	322	GLU
1	5	724	ARG
1	6	235	MET
1	6	256	LEU
1	6	311	LEU
1	6	322	GLU
1	6	724	ARG
1	a	235	MET
1	a	256	LEU
1	a	311	LEU
1	a	322	GLU
1	a	724	ARG
1	b	235	MET
1	b	256	LEU
1	b	311	LEU
1	b	322	GLU
1	b	724	ARG
1	c	235	MET
1	c	256	LEU
1	c	311	LEU
1	c	322	GLU
1	c	724	ARG
1	d	235	MET
1	d	256	LEU
1	d	311	LEU
1	d	322	GLU

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Mol	Chain	Res	Type
1	d	724	ARG
1	e	235	MET
1	e	256	LEU
1	e	311	LEU
1	e	322	GLU
1	e	724	ARG
1	f	235	MET
1	f	256	LEU
1	f	311	LEU
1	f	322	GLU
1	f	724	ARG
1	g	235	MET
1	g	256	LEU
1	g	311	LEU
1	g	322	GLU
1	g	724	ARG
1	h	235	MET
1	h	256	LEU
1	h	311	LEU
1	h	322	GLU
1	h	724	ARG
1	i	235	MET
1	i	256	LEU
1	i	311	LEU
1	i	322	GLU
1	i	724	ARG
1	j	235	MET
1	j	256	LEU
1	j	311	LEU
1	j	322	GLU
1	j	724	ARG
1	k	235	MET
1	k	256	LEU
1	k	311	LEU
1	k	322	GLU
1	k	724	ARG
1	l	235	MET
1	l	256	LEU
1	l	311	LEU
1	l	322	GLU
1	l	724	ARG
1	m	235	MET

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Mol	Chain	Res	Type
1	m	256	LEU
1	m	311	LEU
1	m	322	GLU
1	m	724	ARG
1	n	235	MET
1	n	256	LEU
1	n	311	LEU
1	n	322	GLU
1	n	724	ARG
1	o	235	MET
1	o	256	LEU
1	o	311	LEU
1	o	322	GLU
1	o	724	ARG
1	p	235	MET
1	p	256	LEU
1	p	311	LEU
1	p	322	GLU
1	p	724	ARG
1	q	235	MET
1	q	256	LEU
1	q	311	LEU
1	q	322	GLU
1	q	724	ARG
1	r	235	MET
1	r	256	LEU
1	r	311	LEU
1	r	322	GLU
1	r	724	ARG
1	s	235	MET
1	s	256	LEU
1	s	311	LEU
1	s	322	GLU
1	s	724	ARG
1	t	235	MET
1	t	256	LEU
1	t	311	LEU
1	t	322	GLU
1	t	724	ARG
1	u	235	MET
1	u	256	LEU
1	u	311	LEU

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Mol	Chain	Res	Type
1	u	322	GLU
1	u	724	ARG
1	v	235	MET
1	v	256	LEU
1	v	311	LEU
1	v	322	GLU
1	v	724	ARG
1	w	235	MET
1	w	256	LEU
1	w	311	LEU
1	w	322	GLU
1	w	724	ARG
1	x	235	MET
1	x	256	LEU
1	x	311	LEU
1	x	322	GLU
1	x	724	ARG
1	y	235	MET
1	y	256	LEU
1	y	311	LEU
1	y	322	GLU
1	y	724	ARG
1	z	235	MET
1	z	256	LEU
1	z	311	LEU
1	z	322	GLU
1	z	724	ARG
1	7	235	MET
1	7	256	LEU
1	7	311	LEU
1	7	322	GLU
1	7	724	ARG
1	8	235	MET
1	8	256	LEU
1	8	311	LEU
1	8	322	GLU
1	8	724	ARG
2	Ah	77	LYS
2	Ah	84	LYS
2	Ah	110	THR
2	Ah	142	GLN
2	Ah	145	THR

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Mol	Chain	Res	Type
2	Bh	77	LYS
2	Bh	84	LYS
2	Bh	110	THR
2	Bh	142	GLN
2	Bh	145	THR
2	Ch	77	LYS
2	Ch	84	LYS
2	Ch	110	THR
2	Ch	142	GLN
2	Ch	145	THR
2	Dh	77	LYS
2	Dh	84	LYS
2	Dh	110	THR
2	Dh	142	GLN
2	Dh	145	THR
2	Eh	77	LYS
2	Eh	84	LYS
2	Eh	110	THR
2	Eh	142	GLN
2	Eh	145	THR
2	Fh	77	LYS
2	Fh	84	LYS
2	Fh	110	THR
2	Fh	142	GLN
2	Fh	145	THR
2	Gh	77	LYS
2	Gh	84	LYS
2	Gh	110	THR
2	Gh	142	GLN
2	Gh	145	THR
2	Hh	77	LYS
2	Hh	84	LYS
2	Hh	110	THR
2	Hh	142	GLN
2	Hh	145	THR
2	Ih	77	LYS
2	Ih	84	LYS
2	Ih	110	THR
2	Ih	142	GLN
2	Ih	145	THR
2	Jh	77	LYS
2	Jh	84	LYS

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Mol	Chain	Res	Type
2	Jh	110	THR
2	Jh	142	GLN
2	Jh	145	THR
2	Kh	77	LYS
2	Kh	84	LYS
2	Kh	110	THR
2	Kh	142	GLN
2	Kh	145	THR
2	Lh	77	LYS
2	Lh	84	LYS
2	Lh	110	THR
2	Lh	142	GLN
2	Lh	145	THR
2	Mh	77	LYS
2	Mh	84	LYS
2	Mh	110	THR
2	Mh	142	GLN
2	Mh	145	THR
2	Nh	77	LYS
2	Nh	84	LYS
2	Nh	110	THR
2	Nh	142	GLN
2	Nh	145	THR
2	Oh	77	LYS
2	Oh	84	LYS
2	Oh	110	THR
2	Oh	142	GLN
2	Oh	145	THR
2	Ph	77	LYS
2	Ph	84	LYS
2	Ph	110	THR
2	Ph	142	GLN
2	Ph	145	THR
2	Qh	77	LYS
2	Qh	84	LYS
2	Qh	110	THR
2	Qh	142	GLN
2	Qh	145	THR
2	Rh	77	LYS
2	Rh	84	LYS
2	Rh	110	THR
2	Rh	142	GLN

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Mol	Chain	Res	Type
2	Rh	145	THR
2	Sh	77	LYS
2	Sh	84	LYS
2	Sh	110	THR
2	Sh	142	GLN
2	Sh	145	THR
2	Th	77	LYS
2	Th	84	LYS
2	Th	110	THR
2	Th	142	GLN
2	Th	145	THR
2	Uh	77	LYS
2	Uh	84	LYS
2	Uh	110	THR
2	Uh	142	GLN
2	Uh	145	THR
2	Vh	77	LYS
2	Vh	84	LYS
2	Vh	110	THR
2	Vh	142	GLN
2	Vh	145	THR
2	Wh	77	LYS
2	Wh	84	LYS
2	Wh	110	THR
2	Wh	142	GLN
2	Wh	145	THR
2	Xh	77	LYS
2	Xh	84	LYS
2	Xh	110	THR
2	Xh	142	GLN
2	Xh	145	THR
2	Yh	77	LYS
2	Yh	84	LYS
2	Yh	110	THR
2	Yh	142	GLN
2	Yh	145	THR
2	Zh	77	LYS
2	Zh	84	LYS
2	Zh	110	THR
2	Zh	142	GLN
2	Zh	145	THR
2	lh	77	LYS

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Mol	Chain	Res	Type
2	1h	84	LYS
2	1h	110	THR
2	1h	142	GLN
2	1h	145	THR
2	2h	77	LYS
2	2h	84	LYS
2	2h	110	THR
2	2h	142	GLN
2	2h	145	THR
2	3h	77	LYS
2	3h	84	LYS
2	3h	110	THR
2	3h	142	GLN
2	3h	145	THR
2	4h	77	LYS
2	4h	84	LYS
2	4h	110	THR
2	4h	142	GLN
2	4h	145	THR
2	5h	77	LYS
2	5h	84	LYS
2	5h	110	THR
2	5h	142	GLN
2	5h	145	THR
2	6h	77	LYS
2	6h	84	LYS
2	6h	110	THR
2	6h	142	GLN
2	6h	145	THR
2	ah	77	LYS
2	ah	84	LYS
2	ah	110	THR
2	ah	142	GLN
2	ah	145	THR
2	bh	77	LYS
2	bh	84	LYS
2	bh	110	THR
2	bh	142	GLN
2	bh	145	THR
2	ch	77	LYS
2	ch	84	LYS
2	ch	110	THR

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Mol	Chain	Res	Type
2	ch	142	GLN
2	ch	145	THR
2	dh	77	LYS
2	dh	84	LYS
2	dh	110	THR
2	dh	142	GLN
2	dh	145	THR
2	eh	77	LYS
2	eh	84	LYS
2	eh	110	THR
2	eh	142	GLN
2	eh	145	THR
2	fh	77	LYS
2	fh	84	LYS
2	fh	110	THR
2	fh	142	GLN
2	fh	145	THR
2	gh	77	LYS
2	gh	84	LYS
2	gh	110	THR
2	gh	142	GLN
2	gh	145	THR
2	hh	77	LYS
2	hh	84	LYS
2	hh	110	THR
2	hh	142	GLN
2	hh	145	THR
2	ih	77	LYS
2	ih	84	LYS
2	ih	110	THR
2	ih	142	GLN
2	ih	145	THR
2	jh	77	LYS
2	jh	84	LYS
2	jh	110	THR
2	jh	142	GLN
2	jh	145	THR
2	kh	77	LYS
2	kh	84	LYS
2	kh	110	THR
2	kh	142	GLN
2	kh	145	THR

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Mol	Chain	Res	Type
2	lh	77	LYS
2	lh	84	LYS
2	lh	110	THR
2	lh	142	GLN
2	lh	145	THR
2	mh	77	LYS
2	mh	84	LYS
2	mh	110	THR
2	mh	142	GLN
2	mh	145	THR
2	nh	77	LYS
2	nh	84	LYS
2	nh	110	THR
2	nh	142	GLN
2	nh	145	THR
2	oh	77	LYS
2	oh	84	LYS
2	oh	110	THR
2	oh	142	GLN
2	oh	145	THR
2	ph	77	LYS
2	ph	84	LYS
2	ph	110	THR
2	ph	142	GLN
2	ph	145	THR
2	qh	77	LYS
2	qh	84	LYS
2	qh	110	THR
2	qh	142	GLN
2	qh	145	THR
2	rh	77	LYS
2	rh	84	LYS
2	rh	110	THR
2	rh	142	GLN
2	rh	145	THR
2	sh	77	LYS
2	sh	84	LYS
2	sh	110	THR
2	sh	142	GLN
2	sh	145	THR
2	th	77	LYS
2	th	84	LYS

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Mol	Chain	Res	Type
2	th	110	THR
2	th	142	GLN
2	th	145	THR
2	uh	77	LYS
2	uh	84	LYS
2	uh	110	THR
2	uh	142	GLN
2	uh	145	THR
2	vh	77	LYS
2	vh	84	LYS
2	vh	110	THR
2	vh	142	GLN
2	vh	145	THR
2	wh	77	LYS
2	wh	84	LYS
2	wh	110	THR
2	wh	142	GLN
2	wh	145	THR
2	xh	77	LYS
2	xh	84	LYS
2	xh	110	THR
2	xh	142	GLN
2	xh	145	THR
2	yh	77	LYS
2	yh	84	LYS
2	yh	110	THR
2	yh	142	GLN
2	yh	145	THR
2	zh	77	LYS
2	zh	84	LYS
2	zh	110	THR
2	zh	142	GLN
2	zh	145	THR
2	7h	77	LYS
2	7h	84	LYS
2	7h	110	THR
2	7h	142	GLN
2	7h	145	THR
2	8h	77	LYS
2	8h	84	LYS
2	8h	110	THR
2	8h	142	GLN

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Mol	Chain	Res	Type
2	8h	145	THR
3	Al	100	GLN
3	Bl	100	GLN
3	Cl	100	GLN
3	Dl	100	GLN
3	El	100	GLN
3	Fl	100	GLN
3	Gl	100	GLN
3	Hl	100	GLN
3	Il	100	GLN
3	Jl	100	GLN
3	Kl	100	GLN
3	Ll	100	GLN
3	Ml	100	GLN
3	Nl	100	GLN
3	Ol	100	GLN
3	Pl	100	GLN
3	Ql	100	GLN
3	Rl	100	GLN
3	Sl	100	GLN
3	Tl	100	GLN
3	Ul	100	GLN
3	Vl	100	GLN
3	Wl	100	GLN
3	Xl	100	GLN
3	Yl	100	GLN
3	Zl	100	GLN
3	1l	100	GLN
3	2l	100	GLN
3	3l	100	GLN
3	4l	100	GLN
3	5l	100	GLN
3	6l	100	GLN
3	al	100	GLN
3	bl	100	GLN
3	cl	100	GLN
3	dl	100	GLN
3	el	100	GLN
3	fl	100	GLN
3	gl	100	GLN
3	hl	100	GLN
3	il	100	GLN

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Mol	Chain	Res	Type
3	jl	100	GLN
3	kl	100	GLN
3	ll	100	GLN
3	ml	100	GLN
3	nl	100	GLN
3	ol	100	GLN
3	pl	100	GLN
3	ql	100	GLN
3	rl	100	GLN
3	sl	100	GLN
3	tl	100	GLN
3	ul	100	GLN
3	vl	100	GLN
3	wl	100	GLN
3	xl	100	GLN
3	yl	100	GLN
3	zl	100	GLN
3	7l	100	GLN
3	8l	100	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1301) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	229	HIS
1	A	334	ASN
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	551	ASN
1	A	587	ASN
1	A	596	ASN
1	A	629	HIS
1	A	641	HIS
1	A	645	GLN
1	A	650	ASN
1	A	687	GLN
1	A	703	ASN
1	B	229	HIS

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Mol	Chain	Res	Type
1	B	302	ASN
1	B	334	ASN
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	551	ASN
1	B	587	ASN
1	B	596	ASN
1	B	629	HIS
1	B	641	HIS
1	B	645	GLN
1	B	650	ASN
1	B	687	GLN
1	B	703	ASN
1	C	229	HIS
1	C	302	ASN
1	C	334	ASN
1	C	341	GLN
1	C	407	ASN
1	C	426	HIS
1	C	457	GLN
1	C	495	ASN
1	C	509	HIS
1	C	551	ASN
1	C	587	ASN
1	C	596	ASN
1	C	629	HIS
1	C	641	HIS
1	C	645	GLN
1	C	650	ASN
1	C	687	GLN
1	C	703	ASN
1	D	229	HIS
1	D	334	ASN
1	D	341	GLN
1	D	407	ASN
1	D	426	HIS
1	D	457	GLN

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Mol	Chain	Res	Type
1	D	495	ASN
1	D	496	ASN
1	D	509	HIS
1	D	551	ASN
1	D	587	ASN
1	D	596	ASN
1	D	629	HIS
1	D	641	HIS
1	D	645	GLN
1	D	650	ASN
1	D	687	GLN
1	D	703	ASN
1	D	734	ASN
1	E	229	HIS
1	E	334	ASN
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	551	ASN
1	E	587	ASN
1	E	596	ASN
1	E	629	HIS
1	E	641	HIS
1	E	645	GLN
1	E	650	ASN
1	E	687	GLN
1	E	703	ASN
1	F	229	HIS
1	F	334	ASN
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	545	GLN
1	F	551	ASN

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Mol	Chain	Res	Type
1	F	587	ASN
1	F	596	ASN
1	F	629	HIS
1	F	641	HIS
1	F	645	GLN
1	F	650	ASN
1	F	687	GLN
1	F	703	ASN
1	F	717	ASN
1	G	229	HIS
1	G	302	ASN
1	G	334	ASN
1	G	341	GLN
1	G	407	ASN
1	G	426	HIS
1	G	457	GLN
1	G	495	ASN
1	G	509	HIS
1	G	551	ASN
1	G	587	ASN
1	G	596	ASN
1	G	629	HIS
1	G	641	HIS
1	G	645	GLN
1	G	650	ASN
1	G	687	GLN
1	G	703	ASN
1	H	229	HIS
1	H	334	ASN
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	551	ASN
1	H	587	ASN
1	H	596	ASN
1	H	629	HIS
1	H	641	HIS
1	H	645	GLN

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Mol	Chain	Res	Type
1	H	650	ASN
1	H	687	GLN
1	H	703	ASN
1	H	717	ASN
1	I	229	HIS
1	I	302	ASN
1	I	341	GLN
1	I	407	ASN
1	I	426	HIS
1	I	457	GLN
1	I	495	ASN
1	I	509	HIS
1	I	551	ASN
1	I	587	ASN
1	I	596	ASN
1	I	629	HIS
1	I	641	HIS
1	I	645	GLN
1	I	650	ASN
1	I	687	GLN
1	I	703	ASN
1	J	229	HIS
1	J	302	ASN
1	J	334	ASN
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	551	ASN
1	J	587	ASN
1	J	596	ASN
1	J	629	HIS
1	J	641	HIS
1	J	645	GLN
1	J	650	ASN
1	J	687	GLN
1	J	703	ASN
1	K	229	HIS
1	K	334	ASN

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Mol	Chain	Res	Type
1	K	341	GLN
1	K	407	ASN
1	K	426	HIS
1	K	457	GLN
1	K	495	ASN
1	K	509	HIS
1	K	551	ASN
1	K	587	ASN
1	K	596	ASN
1	K	629	HIS
1	K	641	HIS
1	K	645	GLN
1	K	650	ASN
1	K	687	GLN
1	K	703	ASN
1	L	229	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
1	L	551	ASN
1	L	587	ASN
1	L	596	ASN
1	L	629	HIS
1	L	641	HIS
1	L	645	GLN
1	L	650	ASN
1	L	687	GLN
1	L	703	ASN
1	L	734	ASN
1	M	229	HIS
1	M	302	ASN
1	M	334	ASN
1	M	341	GLN
1	M	407	ASN
1	M	426	HIS
1	M	457	GLN
1	M	495	ASN
1	M	496	ASN

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Mol	Chain	Res	Type
1	M	509	HIS
1	M	551	ASN
1	M	587	ASN
1	M	596	ASN
1	M	629	HIS
1	M	641	HIS
1	M	645	GLN
1	M	650	ASN
1	M	687	GLN
1	M	703	ASN
1	N	229	HIS
1	N	302	ASN
1	N	334	ASN
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	551	ASN
1	N	587	ASN
1	N	596	ASN
1	N	629	HIS
1	N	641	HIS
1	N	645	GLN
1	N	650	ASN
1	N	687	GLN
1	N	703	ASN
1	O	229	HIS
1	O	302	ASN
1	O	334	ASN
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	551	ASN
1	O	587	ASN
1	O	596	ASN

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Mol	Chain	Res	Type
1	O	629	HIS
1	O	641	HIS
1	O	645	GLN
1	O	650	ASN
1	O	687	GLN
1	O	703	ASN
1	P	229	HIS
1	P	302	ASN
1	P	334	ASN
1	P	341	GLN
1	P	407	ASN
1	P	426	HIS
1	P	457	GLN
1	P	495	ASN
1	P	509	HIS
1	P	551	ASN
1	P	584	GLN
1	P	587	ASN
1	P	596	ASN
1	P	629	HIS
1	P	641	HIS
1	P	645	GLN
1	P	650	ASN
1	P	687	GLN
1	P	703	ASN
1	Q	229	HIS
1	Q	334	ASN
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	551	ASN
1	Q	587	ASN
1	Q	596	ASN
1	Q	629	HIS
1	Q	641	HIS
1	Q	645	GLN
1	Q	650	ASN
1	Q	687	GLN

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Mol	Chain	Res	Type
1	Q	703	ASN
1	Q	734	ASN
1	R	229	HIS
1	R	334	ASN
1	R	341	GLN
1	R	407	ASN
1	R	426	HIS
1	R	457	GLN
1	R	495	ASN
1	R	509	HIS
1	R	551	ASN
1	R	587	ASN
1	R	596	ASN
1	R	629	HIS
1	R	641	HIS
1	R	645	GLN
1	R	650	ASN
1	R	687	GLN
1	R	703	ASN
1	S	229	HIS
1	S	302	ASN
1	S	334	ASN
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	551	ASN
1	S	587	ASN
1	S	596	ASN
1	S	629	HIS
1	S	641	HIS
1	S	645	GLN
1	S	650	ASN
1	S	687	GLN
1	S	703	ASN
1	T	229	HIS
1	T	302	ASN
1	T	334	ASN
1	T	341	GLN

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Mol	Chain	Res	Type
1	T	407	ASN
1	T	426	HIS
1	T	457	GLN
1	T	495	ASN
1	T	496	ASN
1	T	509	HIS
1	T	545	GLN
1	T	551	ASN
1	T	587	ASN
1	T	596	ASN
1	T	629	HIS
1	T	641	HIS
1	T	645	GLN
1	T	650	ASN
1	T	687	GLN
1	T	703	ASN
1	U	229	HIS
1	U	334	ASN
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	551	ASN
1	U	587	ASN
1	U	596	ASN
1	U	629	HIS
1	U	641	HIS
1	U	645	GLN
1	U	650	ASN
1	U	687	GLN
1	U	703	ASN
1	V	229	HIS
1	V	334	ASN
1	V	341	GLN
1	V	407	ASN
1	V	426	HIS
1	V	457	GLN
1	V	495	ASN
1	V	509	HIS

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Mol	Chain	Res	Type
1	V	551	ASN
1	V	587	ASN
1	V	596	ASN
1	V	629	HIS
1	V	641	HIS
1	V	645	GLN
1	V	650	ASN
1	V	687	GLN
1	V	703	ASN
1	W	229	HIS
1	W	334	ASN
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	551	ASN
1	W	587	ASN
1	W	596	ASN
1	W	629	HIS
1	W	641	HIS
1	W	645	GLN
1	W	650	ASN
1	W	687	GLN
1	W	703	ASN
1	X	229	HIS
1	X	302	ASN
1	X	334	ASN
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	545	GLN
1	X	551	ASN
1	X	587	ASN
1	X	596	ASN
1	X	629	HIS

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Mol	Chain	Res	Type
1	X	641	HIS
1	X	645	GLN
1	X	650	ASN
1	X	687	GLN
1	X	703	ASN
1	Y	229	HIS
1	Y	334	ASN
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	551	ASN
1	Y	587	ASN
1	Y	596	ASN
1	Y	629	HIS
1	Y	641	HIS
1	Y	645	GLN
1	Y	650	ASN
1	Y	687	GLN
1	Y	703	ASN
1	Z	229	HIS
1	Z	302	ASN
1	Z	334	ASN
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	551	ASN
1	Z	587	ASN
1	Z	596	ASN
1	Z	629	HIS
1	Z	641	HIS
1	Z	645	GLN
1	Z	650	ASN
1	Z	687	GLN
1	Z	703	ASN

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Mol	Chain	Res	Type
1	1	229	HIS
1	1	334	ASN
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	551	ASN
1	1	587	ASN
1	1	596	ASN
1	1	629	HIS
1	1	641	HIS
1	1	645	GLN
1	1	650	ASN
1	1	687	GLN
1	1	703	ASN
1	2	229	HIS
1	2	334	ASN
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	551	ASN
1	2	587	ASN
1	2	596	ASN
1	2	629	HIS
1	2	641	HIS
1	2	645	GLN
1	2	650	ASN
1	2	687	GLN
1	2	703	ASN
1	3	229	HIS
1	3	302	ASN
1	3	334	ASN
1	3	341	GLN
1	3	407	ASN
1	3	426	HIS

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Mol	Chain	Res	Type
1	3	457	GLN
1	3	495	ASN
1	3	509	HIS
1	3	551	ASN
1	3	587	ASN
1	3	596	ASN
1	3	629	HIS
1	3	641	HIS
1	3	645	GLN
1	3	650	ASN
1	3	687	GLN
1	3	703	ASN
1	4	229	HIS
1	4	334	ASN
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	551	ASN
1	4	587	ASN
1	4	596	ASN
1	4	629	HIS
1	4	641	HIS
1	4	645	GLN
1	4	650	ASN
1	4	687	GLN
1	4	703	ASN
1	5	229	HIS
1	5	302	ASN
1	5	334	ASN
1	5	341	GLN
1	5	407	ASN
1	5	426	HIS
1	5	457	GLN
1	5	495	ASN
1	5	509	HIS
1	5	551	ASN
1	5	587	ASN
1	5	596	ASN

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Mol	Chain	Res	Type
1	5	629	HIS
1	5	641	HIS
1	5	645	GLN
1	5	650	ASN
1	5	687	GLN
1	5	703	ASN
1	6	229	HIS
1	6	334	ASN
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	551	ASN
1	6	587	ASN
1	6	596	ASN
1	6	629	HIS
1	6	641	HIS
1	6	645	GLN
1	6	650	ASN
1	6	687	GLN
1	6	703	ASN
1	a	229	HIS
1	a	302	ASN
1	a	334	ASN
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	551	ASN
1	a	587	ASN
1	a	596	ASN
1	a	629	HIS
1	a	641	HIS
1	a	645	GLN
1	a	650	ASN
1	a	687	GLN

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Mol	Chain	Res	Type
1	a	703	ASN
1	b	229	HIS
1	b	302	ASN
1	b	334	ASN
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	551	ASN
1	b	587	ASN
1	b	596	ASN
1	b	629	HIS
1	b	641	HIS
1	b	645	GLN
1	b	650	ASN
1	b	687	GLN
1	b	703	ASN
1	c	229	HIS
1	c	302	ASN
1	c	334	ASN
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	551	ASN
1	c	587	ASN
1	c	596	ASN
1	c	629	HIS
1	c	641	HIS
1	c	645	GLN
1	c	650	ASN
1	c	687	GLN
1	c	703	ASN
1	d	229	HIS
1	d	302	ASN
1	d	334	ASN

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Mol	Chain	Res	Type
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	551	ASN
1	d	587	ASN
1	d	596	ASN
1	d	629	HIS
1	d	641	HIS
1	d	645	GLN
1	d	650	ASN
1	d	687	GLN
1	d	703	ASN
1	e	229	HIS
1	e	334	ASN
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	551	ASN
1	e	587	ASN
1	e	596	ASN
1	e	629	HIS
1	e	641	HIS
1	e	645	GLN
1	e	650	ASN
1	e	687	GLN
1	e	703	ASN
1	e	734	ASN
1	f	229	HIS
1	f	302	ASN
1	f	334	ASN
1	f	341	GLN
1	f	407	ASN
1	f	426	HIS
1	f	457	GLN

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Mol	Chain	Res	Type
1	f	495	ASN
1	f	496	ASN
1	f	509	HIS
1	f	545	GLN
1	f	551	ASN
1	f	587	ASN
1	f	596	ASN
1	f	629	HIS
1	f	641	HIS
1	f	645	GLN
1	f	650	ASN
1	f	687	GLN
1	f	703	ASN
1	g	229	HIS
1	g	302	ASN
1	g	334	ASN
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	545	GLN
1	g	551	ASN
1	g	587	ASN
1	g	596	ASN
1	g	629	HIS
1	g	641	HIS
1	g	645	GLN
1	g	650	ASN
1	g	687	GLN
1	g	703	ASN
1	h	229	HIS
1	h	334	ASN
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

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Mol	Chain	Res	Type
1	h	551	ASN
1	h	587	ASN
1	h	596	ASN
1	h	629	HIS
1	h	641	HIS
1	h	645	GLN
1	h	650	ASN
1	h	687	GLN
1	h	703	ASN
1	i	229	HIS
1	i	302	ASN
1	i	334	ASN
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	551	ASN
1	i	587	ASN
1	i	596	ASN
1	i	629	HIS
1	i	641	HIS
1	i	645	GLN
1	i	650	ASN
1	i	687	GLN
1	i	703	ASN
1	j	229	HIS
1	j	334	ASN
1	j	341	GLN
1	j	407	ASN
1	j	426	HIS
1	j	457	GLN
1	j	495	ASN
1	j	509	HIS
1	j	551	ASN
1	j	587	ASN
1	j	596	ASN
1	j	629	HIS
1	j	641	HIS
1	j	645	GLN

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Mol	Chain	Res	Type
1	j	650	ASN
1	j	687	GLN
1	j	703	ASN
1	k	229	HIS
1	k	334	ASN
1	k	341	GLN
1	k	407	ASN
1	k	426	HIS
1	k	457	GLN
1	k	495	ASN
1	k	509	HIS
1	k	551	ASN
1	k	587	ASN
1	k	596	ASN
1	k	629	HIS
1	k	641	HIS
1	k	645	GLN
1	k	650	ASN
1	k	687	GLN
1	k	703	ASN
1	l	229	HIS
1	l	334	ASN
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
1	l	551	ASN
1	l	587	ASN
1	l	596	ASN
1	l	629	HIS
1	l	641	HIS
1	l	645	GLN
1	l	650	ASN
1	l	687	GLN
1	l	703	ASN
1	m	229	HIS
1	m	334	ASN
1	m	341	GLN
1	m	407	ASN

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Mol	Chain	Res	Type
1	m	426	HIS
1	m	457	GLN
1	m	495	ASN
1	m	496	ASN
1	m	509	HIS
1	m	551	ASN
1	m	587	ASN
1	m	596	ASN
1	m	629	HIS
1	m	641	HIS
1	m	645	GLN
1	m	650	ASN
1	m	687	GLN
1	m	703	ASN
1	n	229	HIS
1	n	302	ASN
1	n	334	ASN
1	n	341	GLN
1	n	407	ASN
1	n	426	HIS
1	n	457	GLN
1	n	495	ASN
1	n	509	HIS
1	n	551	ASN
1	n	587	ASN
1	n	596	ASN
1	n	629	HIS
1	n	641	HIS
1	n	645	GLN
1	n	650	ASN
1	n	687	GLN
1	n	703	ASN
1	o	229	HIS
1	o	341	GLN
1	o	407	ASN
1	o	426	HIS
1	o	457	GLN
1	o	495	ASN
1	o	509	HIS
1	o	551	ASN
1	o	587	ASN
1	o	596	ASN

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Mol	Chain	Res	Type
1	o	629	HIS
1	o	641	HIS
1	o	645	GLN
1	o	650	ASN
1	o	687	GLN
1	o	703	ASN
1	p	229	HIS
1	p	334	ASN
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	551	ASN
1	p	587	ASN
1	p	596	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	334	ASN
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	551	ASN
1	q	587	ASN
1	q	596	ASN
1	q	629	HIS
1	q	641	HIS
1	q	645	GLN
1	q	650	ASN
1	q	687	GLN

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Mol	Chain	Res	Type
1	q	703	ASN
1	r	229	HIS
1	r	334	ASN
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	551	ASN
1	r	587	ASN
1	r	596	ASN
1	r	629	HIS
1	r	641	HIS
1	r	645	GLN
1	r	650	ASN
1	r	687	GLN
1	r	703	ASN
1	r	734	ASN
1	s	229	HIS
1	s	334	ASN
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	545	GLN
1	s	551	ASN
1	s	587	ASN
1	s	596	ASN
1	s	629	HIS
1	s	641	HIS
1	s	645	GLN
1	s	650	ASN
1	s	687	GLN
1	s	703	ASN
1	s	717	ASN
1	t	229	HIS
1	t	341	GLN

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Mol	Chain	Res	Type
1	t	407	ASN
1	t	426	HIS
1	t	457	GLN
1	t	495	ASN
1	t	496	ASN
1	t	509	HIS
1	t	551	ASN
1	t	587	ASN
1	t	596	ASN
1	t	629	HIS
1	t	641	HIS
1	t	645	GLN
1	t	650	ASN
1	t	687	GLN
1	t	703	ASN
1	t	734	ASN
1	u	229	HIS
1	u	302	ASN
1	u	334	ASN
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	551	ASN
1	u	587	ASN
1	u	596	ASN
1	u	629	HIS
1	u	641	HIS
1	u	645	GLN
1	u	650	ASN
1	u	687	GLN
1	u	703	ASN
1	v	229	HIS
1	v	334	ASN
1	v	341	GLN
1	v	407	ASN
1	v	426	HIS
1	v	457	GLN
1	v	495	ASN

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Mol	Chain	Res	Type
1	v	496	ASN
1	v	509	HIS
1	v	551	ASN
1	v	587	ASN
1	v	596	ASN
1	v	629	HIS
1	v	641	HIS
1	v	645	GLN
1	v	650	ASN
1	v	687	GLN
1	v	703	ASN
1	w	229	HIS
1	w	334	ASN
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	545	GLN
1	w	551	ASN
1	w	587	ASN
1	w	596	ASN
1	w	629	HIS
1	w	641	HIS
1	w	645	GLN
1	w	650	ASN
1	w	687	GLN
1	w	703	ASN
1	w	734	ASN
1	x	229	HIS
1	x	334	ASN
1	x	341	GLN
1	x	407	ASN
1	x	426	HIS
1	x	457	GLN
1	x	495	ASN
1	x	509	HIS
1	x	551	ASN
1	x	587	ASN
1	x	596	ASN

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Mol	Chain	Res	Type
1	x	629	HIS
1	x	641	HIS
1	x	645	GLN
1	x	650	ASN
1	x	687	GLN
1	x	703	ASN
1	y	229	HIS
1	y	334	ASN
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	551	ASN
1	y	587	ASN
1	y	596	ASN
1	y	629	HIS
1	y	641	HIS
1	y	645	GLN
1	y	650	ASN
1	y	687	GLN
1	y	703	ASN
1	y	717	ASN
1	z	229	HIS
1	z	334	ASN
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	545	GLN
1	z	551	ASN
1	z	587	ASN
1	z	596	ASN
1	z	629	HIS
1	z	641	HIS
1	z	645	GLN
1	z	650	ASN

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Mol	Chain	Res	Type
1	z	687	GLN
1	z	703	ASN
1	7	229	HIS
1	7	334	ASN
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	551	ASN
1	7	587	ASN
1	7	596	ASN
1	7	629	HIS
1	7	641	HIS
1	7	645	GLN
1	7	650	ASN
1	7	687	GLN
1	7	703	ASN
1	8	229	HIS
1	8	302	ASN
1	8	334	ASN
1	8	341	GLN
1	8	407	ASN
1	8	426	HIS
1	8	457	GLN
1	8	495	ASN
1	8	509	HIS
1	8	551	ASN
1	8	587	ASN
1	8	596	ASN
1	8	629	HIS
1	8	641	HIS
1	8	645	GLN
1	8	650	ASN
1	8	687	GLN
1	8	703	ASN
2	Ah	142	GLN
2	Bh	142	GLN
2	Ch	142	GLN
2	Dh	101	GLN

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Mol	Chain	Res	Type
2	Dh	142	GLN
2	Eh	142	GLN
2	Fh	103	ASN
2	Fh	142	GLN
2	Gh	142	GLN
2	Hh	103	ASN
2	Hh	142	GLN
2	Ih	142	GLN
2	Jh	142	GLN
2	Kh	101	GLN
2	Kh	103	ASN
2	Kh	142	GLN
2	Lh	142	GLN
2	Mh	103	ASN
2	Mh	121	GLN
2	Mh	142	GLN
2	Nh	142	GLN
2	Oh	142	GLN
2	Ph	103	ASN
2	Ph	142	GLN
2	Qh	103	ASN
2	Qh	142	GLN
2	Rh	142	GLN
2	Sh	142	GLN
2	Th	142	GLN
2	Uh	142	GLN
2	Vh	103	ASN
2	Vh	142	GLN
2	Wh	103	ASN
2	Wh	142	GLN
2	Xh	142	GLN
2	Yh	142	GLN
2	Zh	142	GLN
2	1h	142	GLN
2	2h	101	GLN
2	2h	142	GLN
2	3h	142	GLN
2	4h	121	GLN
2	4h	142	GLN
2	5h	142	GLN
2	6h	142	GLN
2	ah	142	GLN

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Mol	Chain	Res	Type
2	bh	103	ASN
2	bh	142	GLN
2	ch	142	GLN
2	dh	142	GLN
2	eh	142	GLN
2	fh	142	GLN
2	gh	142	GLN
2	hh	142	GLN
2	ih	103	ASN
2	ih	142	GLN
2	jh	103	ASN
2	jh	142	GLN
2	kh	103	ASN
2	kh	142	GLN
2	lh	142	GLN
2	mh	142	GLN
2	nh	142	GLN
2	oh	142	GLN
2	ph	142	GLN
2	qh	142	GLN
2	rh	142	GLN
2	sh	103	ASN
2	sh	142	GLN
2	th	142	GLN
2	uh	142	GLN
2	vh	142	GLN
2	wh	142	GLN
2	xh	101	GLN
2	xh	103	ASN
2	xh	142	GLN
2	yh	142	GLN
2	zh	103	ASN
2	zh	142	GLN
2	7h	142	GLN
2	8h	142	GLN
3	Al	26	GLN
3	Al	72	ASN
3	Bl	26	GLN
3	Bl	72	ASN
3	Cl	72	ASN
3	Dl	26	GLN
3	Dl	72	ASN

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Mol	Chain	Res	Type
3	E1	26	GLN
3	E1	72	ASN
3	F1	26	GLN
3	F1	72	ASN
3	G1	26	GLN
3	G1	72	ASN
3	H1	26	GLN
3	H1	72	ASN
3	I1	26	GLN
3	I1	72	ASN
3	J1	26	GLN
3	J1	72	ASN
3	K1	72	ASN
3	L1	26	GLN
3	L1	72	ASN
3	M1	72	ASN
3	N1	26	GLN
3	N1	72	ASN
3	O1	26	GLN
3	O1	72	ASN
3	P1	26	GLN
3	P1	72	ASN
3	Q1	26	GLN
3	Q1	72	ASN
3	R1	26	GLN
3	R1	72	ASN
3	S1	72	ASN
3	T1	26	GLN
3	T1	72	ASN
3	U1	26	GLN
3	U1	72	ASN
3	U1	117	ASN
3	V1	26	GLN
3	V1	72	ASN
3	W1	26	GLN
3	W1	72	ASN
3	X1	26	GLN
3	X1	72	ASN
3	Y1	26	GLN
3	Y1	72	ASN
3	Z1	26	GLN
3	Z1	72	ASN

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Mol	Chain	Res	Type
3	1l	26	GLN
3	1l	72	ASN
3	2l	26	GLN
3	2l	72	ASN
3	3l	72	ASN
3	4l	26	GLN
3	4l	72	ASN
3	5l	72	ASN
3	6l	26	GLN
3	6l	72	ASN
3	al	72	ASN
3	bl	26	GLN
3	bl	72	ASN
3	cl	26	GLN
3	cl	72	ASN
3	dl	26	GLN
3	dl	72	ASN
3	el	26	GLN
3	el	72	ASN
3	fl	72	ASN
3	gl	26	GLN
3	gl	72	ASN
3	hl	26	GLN
3	hl	72	ASN
3	il	26	GLN
3	il	72	ASN
3	jl	26	GLN
3	jl	72	ASN
3	kl	26	GLN
3	kl	72	ASN
3	ll	26	GLN
3	ll	72	ASN
3	ml	26	GLN
3	ml	72	ASN
3	ml	117	ASN
3	nl	26	GLN
3	nl	72	ASN
3	ol	26	GLN
3	ol	72	ASN
3	pl	26	GLN
3	pl	72	ASN
3	ql	26	GLN

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Mol	Chain	Res	Type
3	ql	72	ASN
3	rl	26	GLN
3	rl	72	ASN
3	sl	26	GLN
3	sl	72	ASN
3	tl	26	GLN
3	tl	72	ASN
3	ul	26	GLN
3	ul	72	ASN
3	vl	26	GLN
3	vl	72	ASN
3	wl	26	GLN
3	wl	72	ASN
3	xl	72	ASN
3	yl	26	GLN
3	yl	72	ASN
3	zl	26	GLN
3	zl	72	ASN
3	7l	26	GLN
3	7l	72	ASN
3	8l	26	GLN
3	8l	72	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-76773. These allow visual inspection of the internal detail of the map and identification of artifacts.

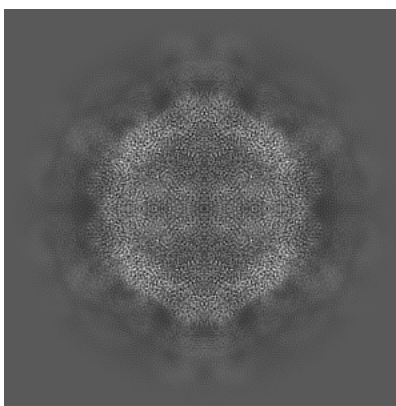
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



X

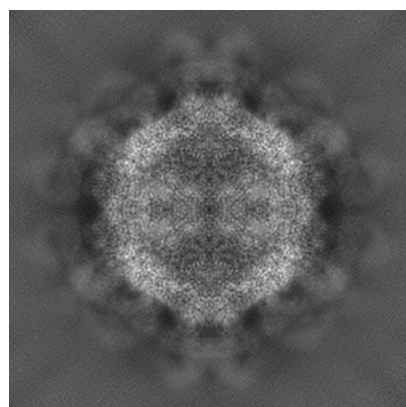


Y

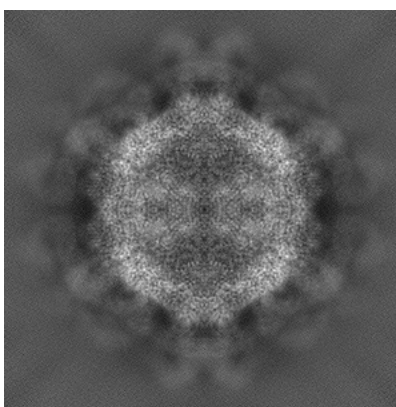


Z

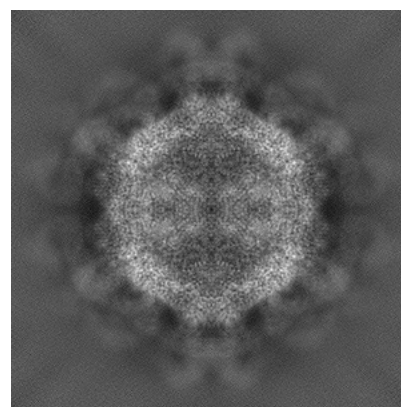
6.1.2 Raw map



X



Y

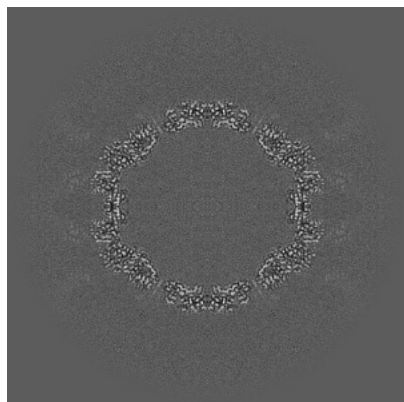


Z

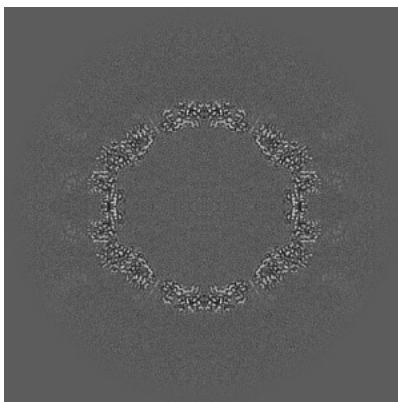
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

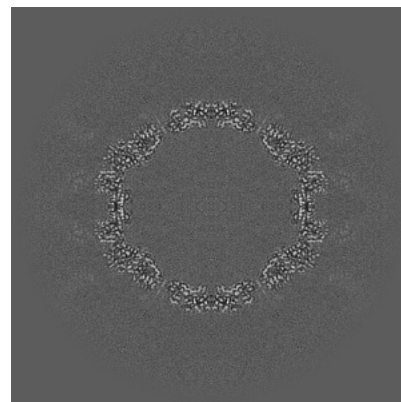
6.2.1 Primary map



X Index: 300

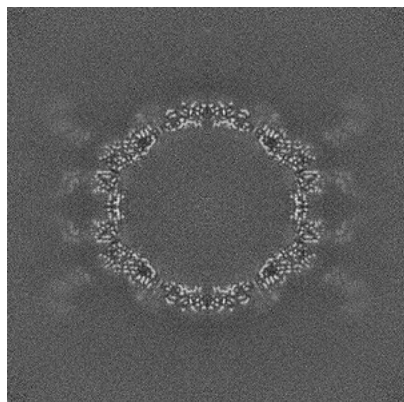


Y Index: 300

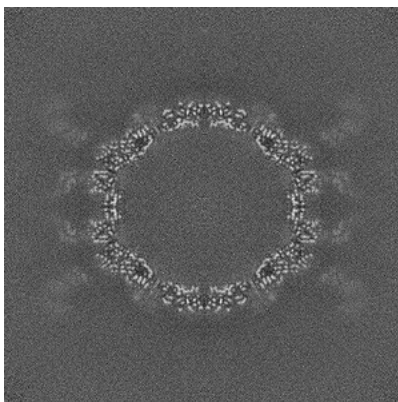


Z Index: 300

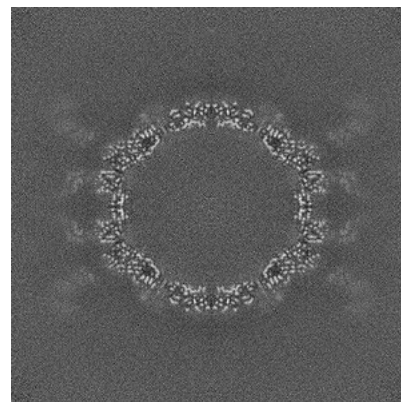
6.2.2 Raw map



X Index: 300



Y Index: 300

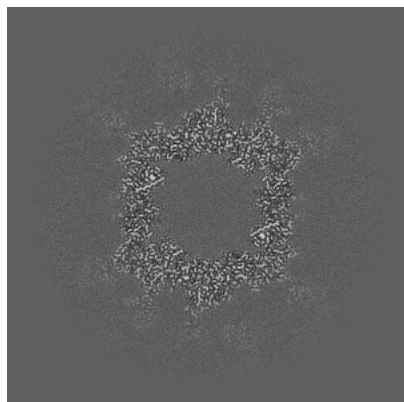


Z Index: 300

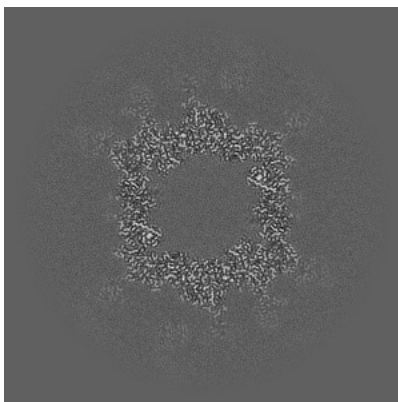
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

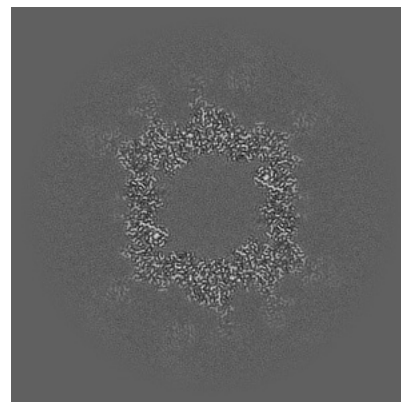
6.3.1 Primary map



X Index: 391

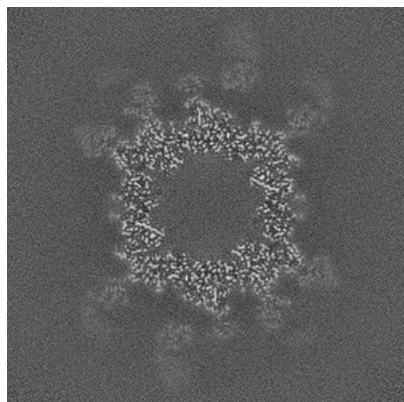


Y Index: 209

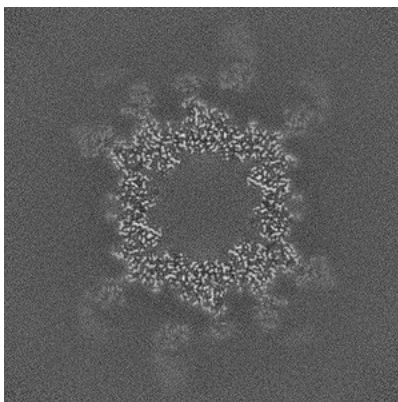


Z Index: 209

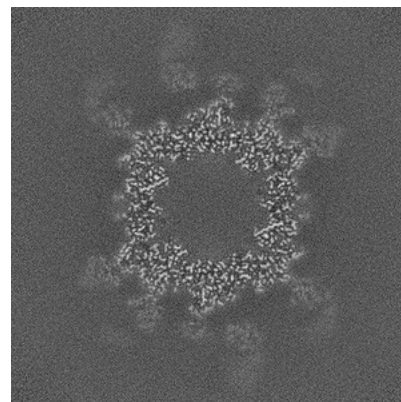
6.3.2 Raw map



X Index: 209



Y Index: 209

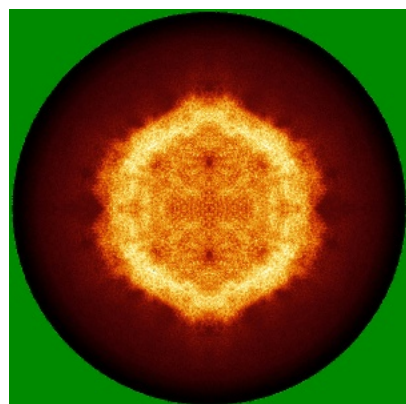


Z Index: 391

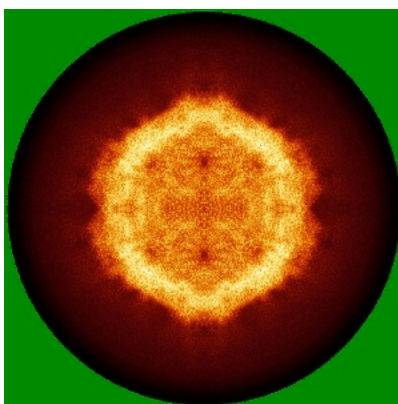
The images above show the largest variance slices of the map in three orthogonal directions.

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

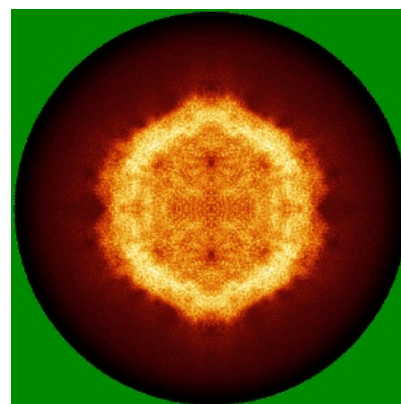
6.4.1 Primary map



X

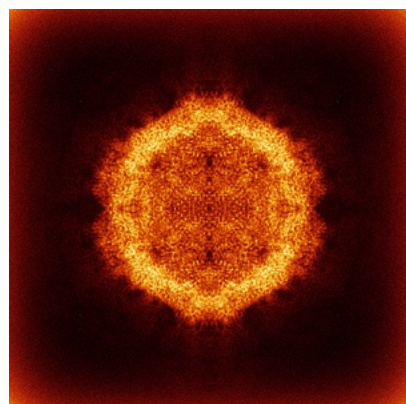


Y

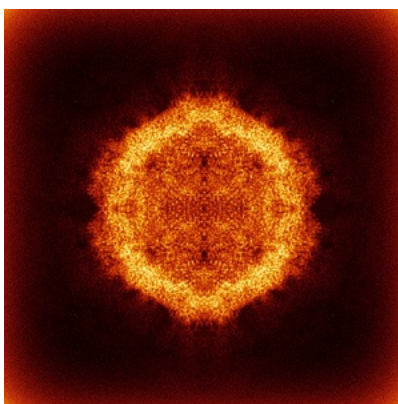


Z

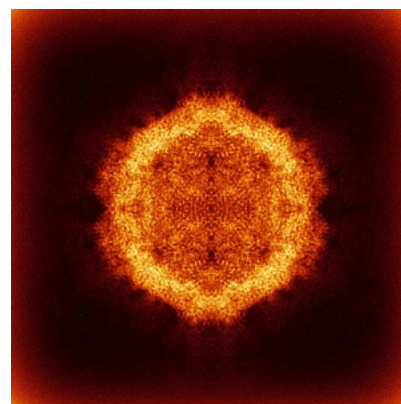
6.4.2 Raw map



X



Y

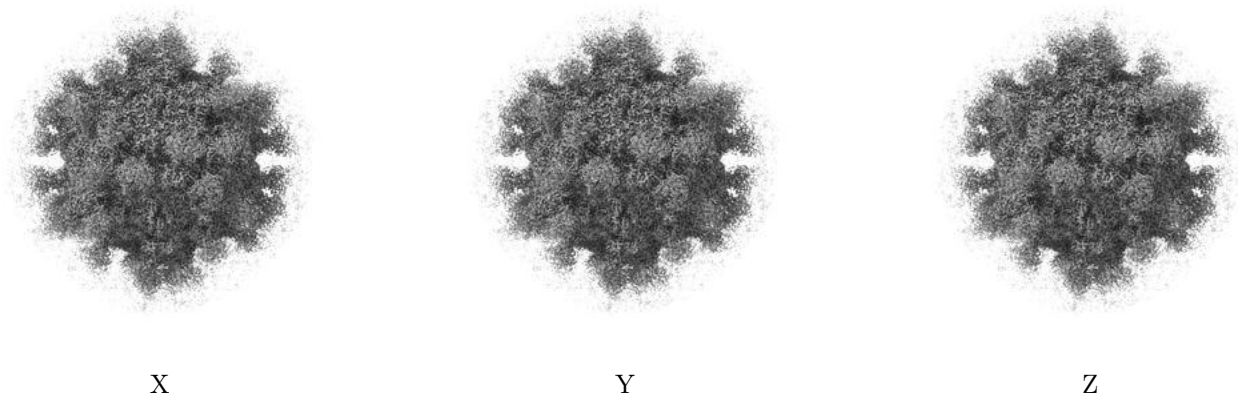


Z

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.

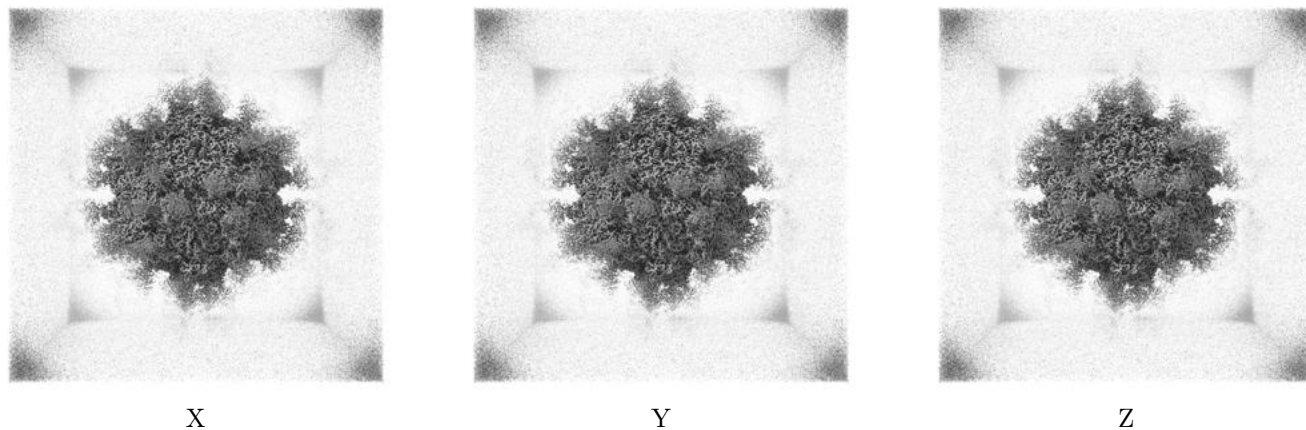
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



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



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

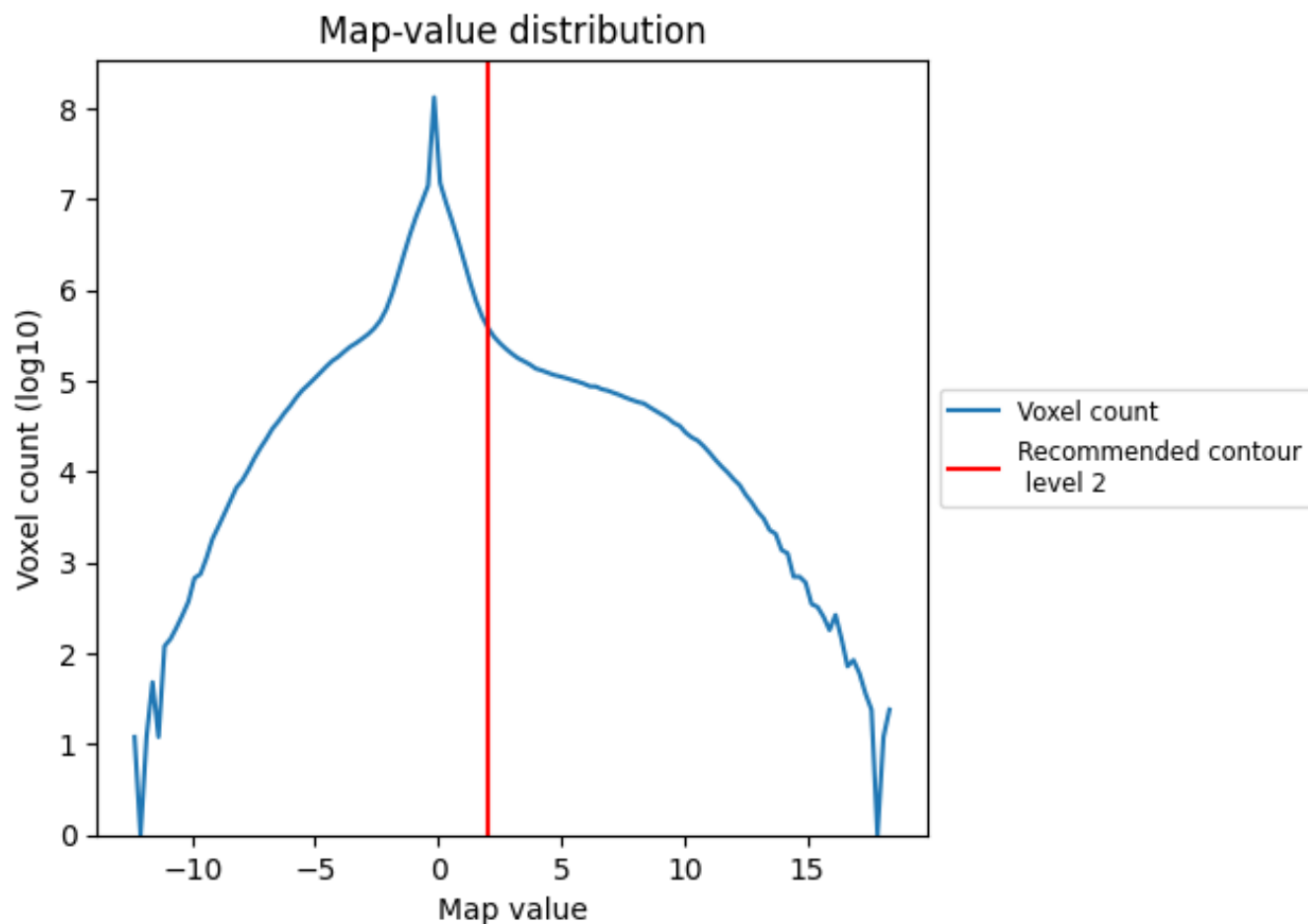
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

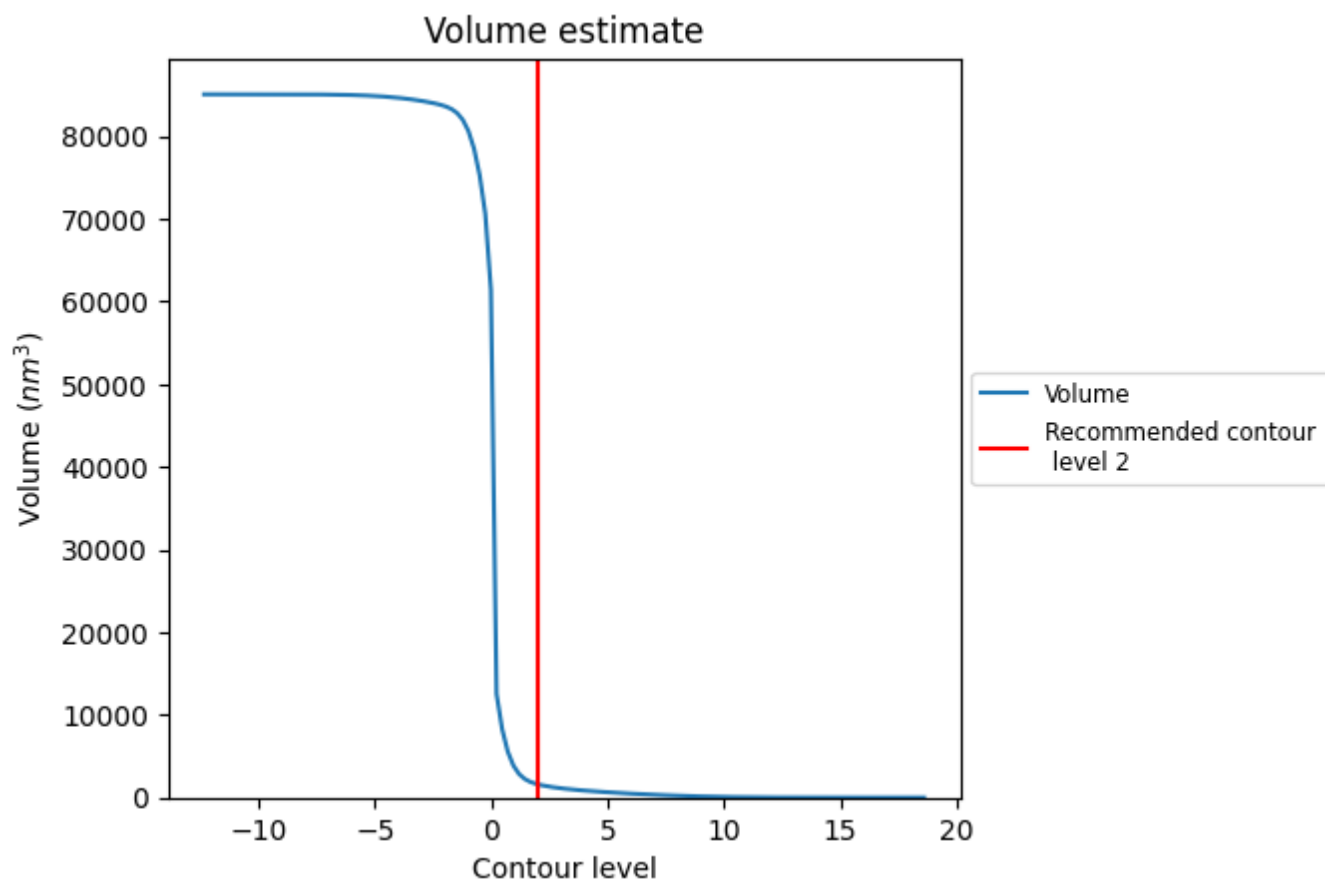
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

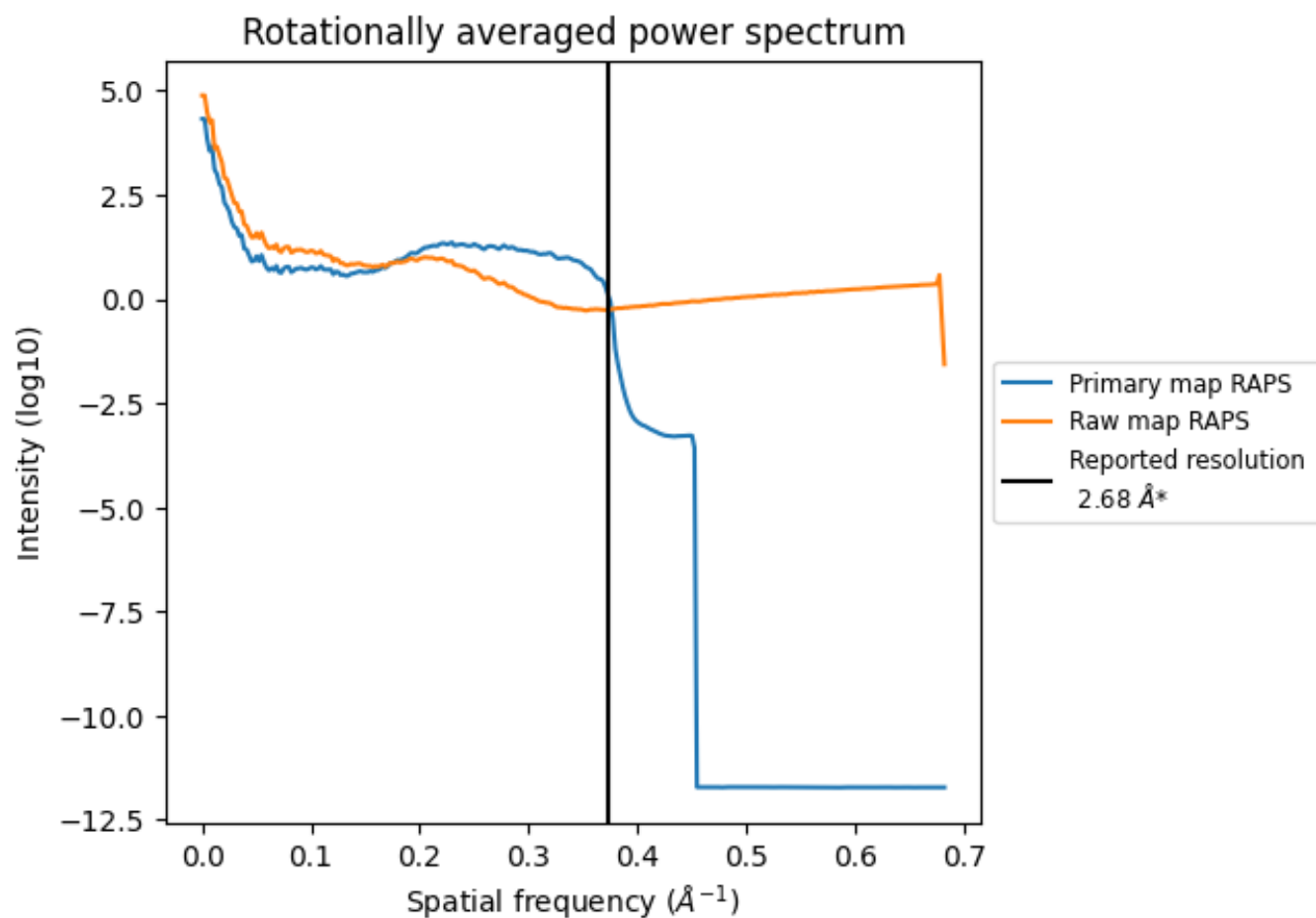
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1606 nm³; this corresponds to an approximate mass of 1450 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

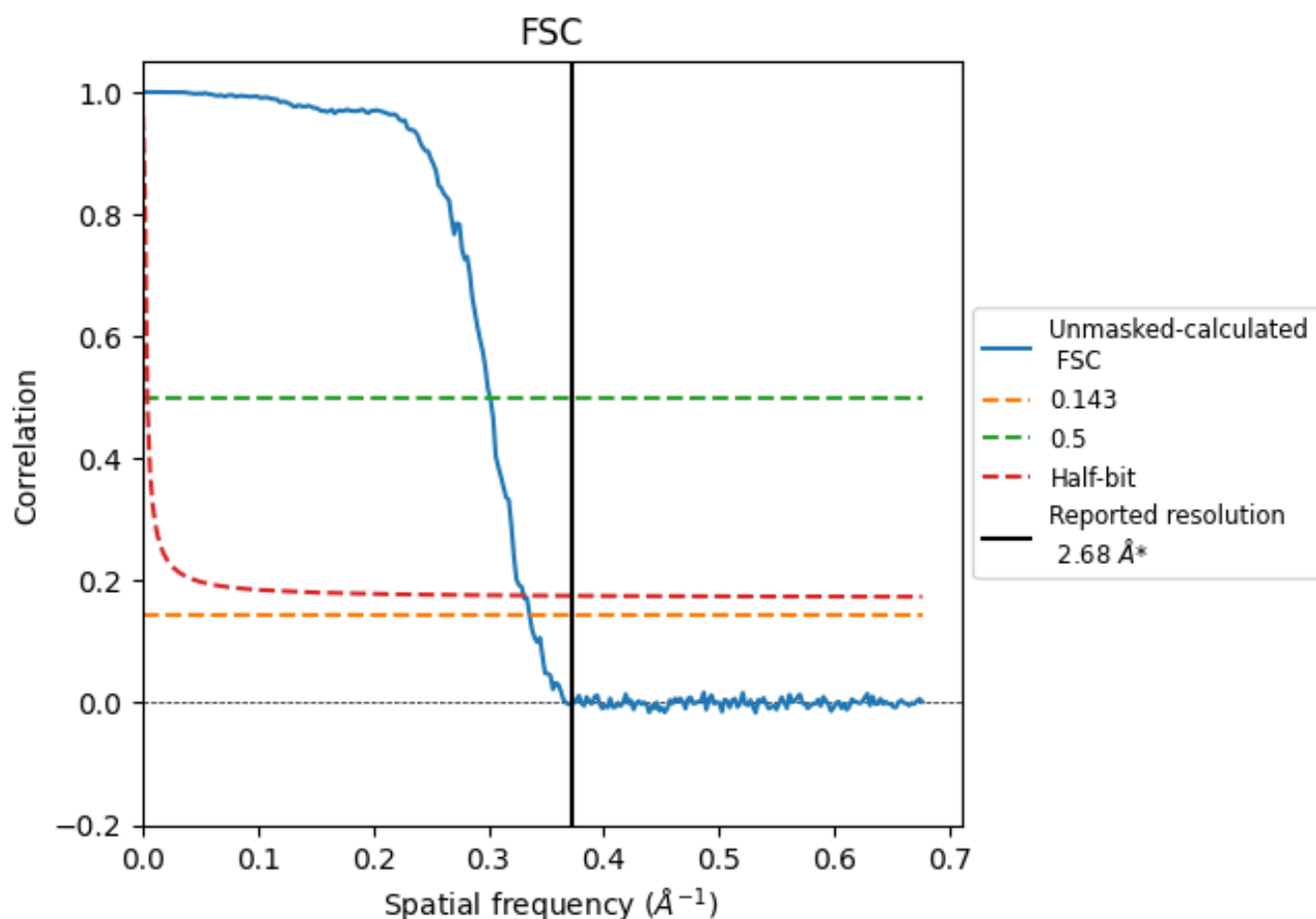


*Reported resolution corresponds to spatial frequency of 0.373 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.373 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

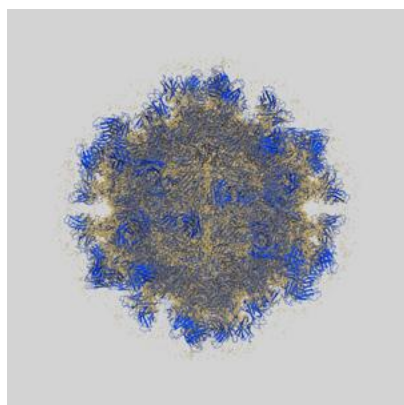
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.68	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.98	3.32	3.03

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.98 differs from the reported value 2.68 by more than 10 %

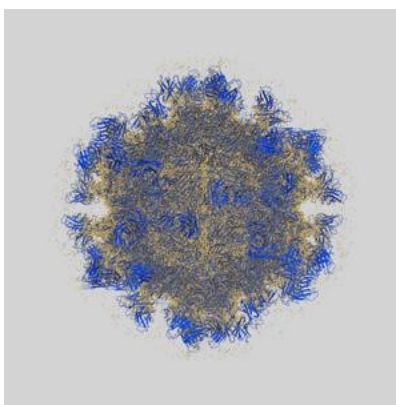
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-76773 and PDB model 12UV. Per-residue inclusion information can be found in [section 3](#) on [page 20](#).

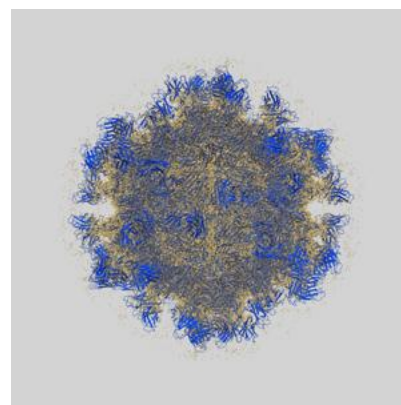
9.1 Map-model overlay [i](#)



X



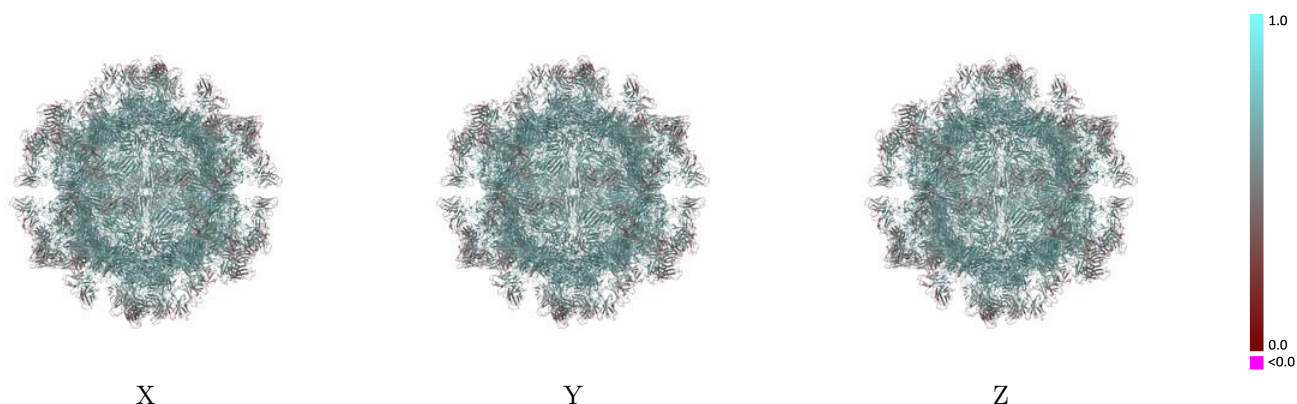
Y



Z

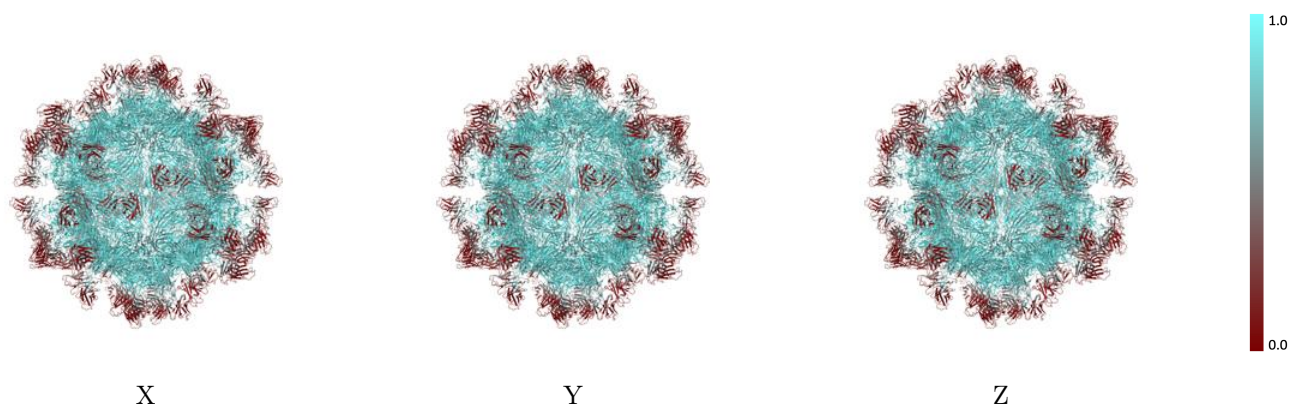
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



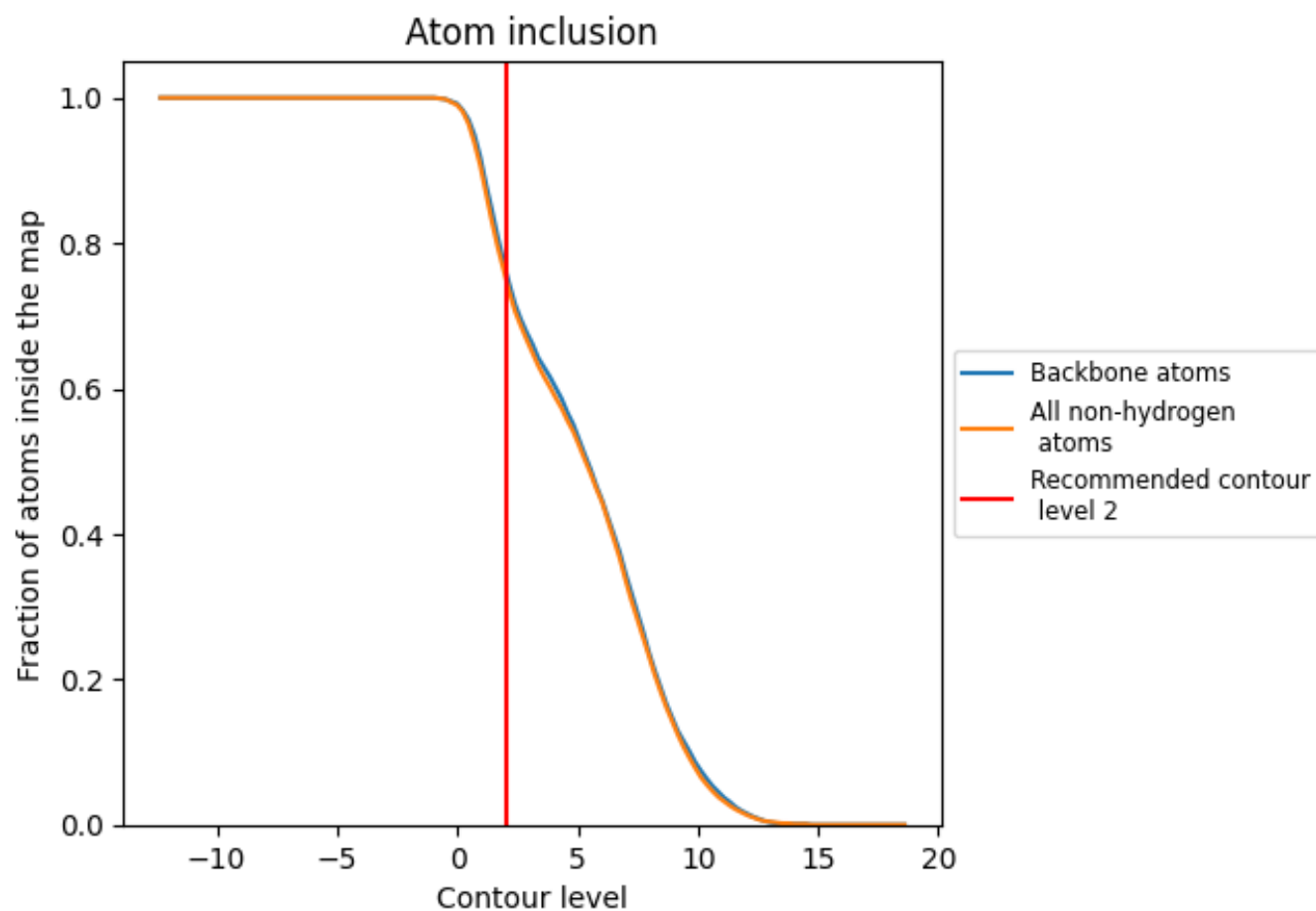
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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



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, 76% of all backbone atoms, 75% 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	 0.7530	 0.6210
1	 0.9660	 0.6760
1h	 0.2210	 0.5000
1l	 0.2950	 0.4920
2	 0.9660	 0.6760
2h	 0.2240	 0.4980
2l	 0.2920	 0.4870
3	 0.9660	 0.6760
3h	 0.2240	 0.4980
3l	 0.2920	 0.4910
4	 0.9660	 0.6760
4h	 0.2210	 0.4980
4l	 0.2950	 0.4880
5	 0.9660	 0.6760
5h	 0.2240	 0.4970
5l	 0.2920	 0.4890
6	 0.9660	 0.6760
6h	 0.2230	 0.4970
6l	 0.2910	 0.4900
7	 0.9660	 0.6760
7h	 0.2260	 0.5000
7l	 0.2960	 0.4900
8	 0.9650	 0.6760
8h	 0.2160	 0.5040
8l	 0.2810	 0.4920
A	 0.9660	 0.6760
Ah	 0.2230	 0.4990
Al	 0.2910	 0.4920
B	 0.9640	 0.6750
Bh	 0.2170	 0.4960
Bl	 0.2940	 0.4840
C	 0.9650	 0.6750
Ch	 0.2280	 0.4940
Cl	 0.2950	 0.4910
D	 0.9660	 0.6760



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Chain	Atom inclusion	Q-score
Dh	 0.2270	 0.5030
DI	 0.2960	 0.4880
E	 0.9650	 0.6760
Eh	 0.2170	 0.5070
El	 0.2810	 0.4900
F	 0.9660	 0.6760
Fh	 0.2210	 0.4970
Fl	 0.2830	 0.4910
G	 0.9650	 0.6760
Gh	 0.2170	 0.5040
Gl	 0.2810	 0.4890
H	 0.9660	 0.6760
Hh	 0.2280	 0.4990
HI	 0.2960	 0.4870
I	 0.9650	 0.6760
Ih	 0.2280	 0.4930
Il	 0.2940	 0.4880
J	 0.9640	 0.6760
Jh	 0.2170	 0.4980
JI	 0.2950	 0.4850
K	 0.9650	 0.6760
Kh	 0.2310	 0.4940
KI	 0.2950	 0.4870
L	 0.9640	 0.6760
Lh	 0.2200	 0.4950
LI	 0.2940	 0.4840
M	 0.9650	 0.6760
Mh	 0.2170	 0.5020
MI	 0.2810	 0.4890
N	 0.9660	 0.6770
Nh	 0.2260	 0.5000
NI	 0.2960	 0.4890
O	 0.9650	 0.6760
Oh	 0.2160	 0.5020
OI	 0.2810	 0.4910
P	 0.9660	 0.6760
Ph	 0.2280	 0.5000
PI	 0.2960	 0.4890
Q	 0.9650	 0.6760
Qh	 0.2280	 0.4920
QI	 0.2940	 0.4870
R	 0.9640	 0.6760

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Chain	Atom inclusion	Q-score
Rh	 0.2170	 0.4970
Rl	 0.2950	 0.4880
S	 0.9640	 0.6760
Sh	 0.2170	 0.4980
Sl	 0.2950	 0.4850
T	 0.9650	 0.6760
Th	 0.2310	 0.4950
Tl	 0.2950	 0.4910
U	 0.9640	 0.6760
Uh	 0.2200	 0.4950
Ul	 0.2940	 0.4830
V	 0.9650	 0.6760
Vh	 0.2280	 0.4980
Vl	 0.2950	 0.4900
W	 0.9660	 0.6760
Wh	 0.2270	 0.5040
Wl	 0.2960	 0.4880
X	 0.9650	 0.6770
Xh	 0.2170	 0.5030
Xl	 0.2810	 0.4880
Y	 0.9660	 0.6760
Yh	 0.2260	 0.4990
Yl	 0.2960	 0.4880
Z	 0.9650	 0.6750
Zh	 0.2160	 0.5040
Zl	 0.2810	 0.4920
a	 0.9650	 0.6750
ah	 0.2280	 0.4960
al	 0.2950	 0.4890
b	 0.9650	 0.6760
bh	 0.2170	 0.5010
bl	 0.2810	 0.4870
c	 0.9660	 0.6770
ch	 0.2260	 0.4990
cl	 0.2960	 0.4890
d	 0.9660	 0.6750
dh	 0.2280	 0.5000
dl	 0.2960	 0.4870
e	 0.9660	 0.6750
eh	 0.2260	 0.5040
el	 0.2960	 0.4890
f	 0.9650	 0.6750

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Chain	Atom inclusion	Q-score
fh	 0.2160	 0.5010
fl	 0.2810	 0.4920
g	 0.9650	 0.6760
gh	 0.2310	 0.4930
gl	 0.2950	 0.4880
h	 0.9660	 0.6760
hh	 0.2180	 0.5000
hl	 0.2950	 0.4890
i	 0.9650	 0.6770
ih	 0.2170	 0.5020
il	 0.2810	 0.4880
j	 0.9650	 0.6750
jh	 0.2280	 0.4960
jl	 0.2950	 0.4910
k	 0.9640	 0.6750
kh	 0.2170	 0.4960
kl	 0.2940	 0.4820
l	 0.9640	 0.6760
lh	 0.2170	 0.4990
ll	 0.2950	 0.4840
m	 0.9640	 0.6770
mh	 0.2200	 0.4940
ml	 0.2940	 0.4840
n	 0.9650	 0.6760
nh	 0.2170	 0.5070
nl	 0.2810	 0.4900
o	 0.9650	 0.6770
oh	 0.2280	 0.4930
ol	 0.2940	 0.4890
p	 0.9660	 0.6760
ph	 0.2210	 0.4960
pl	 0.2920	 0.4870
q	 0.9650	 0.6760
qh	 0.2170	 0.5030
ql	 0.2810	 0.4900
r	 0.9650	 0.6760
rh	 0.2280	 0.4920
rl	 0.2940	 0.4880
s	 0.9660	 0.6760
sh	 0.2210	 0.5000
sl	 0.2920	 0.4880
t	 0.9640	 0.6750

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Chain	Atom inclusion	Q-score
th	 0.2200	 0.4970
tl	 0.2940	 0.4860
u	 0.9640	 0.6750
uh	 0.2170	 0.4980
ul	 0.2940	 0.4860
v	 0.9640	 0.6760
vh	 0.2170	 0.4970
vl	 0.2950	 0.4860
w	 0.9660	 0.6760
wh	 0.2210	 0.4980
wl	 0.2950	 0.4890
x	 0.9650	 0.6750
xh	 0.2310	 0.4950
xl	 0.2950	 0.4870
y	 0.9660	 0.6770
yh	 0.2280	 0.4980
yl	 0.2960	 0.4870
z	 0.9660	 0.6760
zh	 0.2270	 0.5030
zl	 0.2960	 0.4890