



## Full wwPDB EM Validation Report ⓘ

Nov 5, 2024 – 09:02 pm GMT

PDB ID : 9HAR  
EMDB ID : EMD-52004  
Title : pT=3 virus-like particle of ssRNA phage ESE017 coat protein  
Authors : Kalnins, G.  
Deposited on : 2024-11-05  
Resolution : 2.80 Å (reported)  
Based on initial model : .

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

We welcome your comments at [validation@mail.wwpdb.org](mailto: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>.

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

EMDB validation analysis : 0.0.1.dev113  
MolProbity : 4.02b-467  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

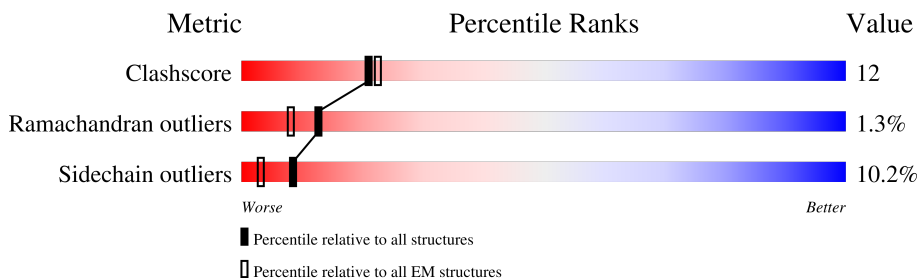
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 2.80 Å.

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





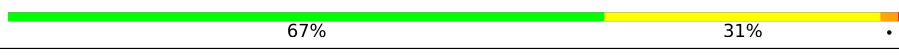








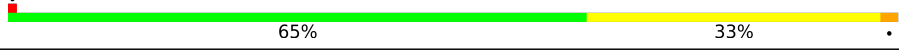







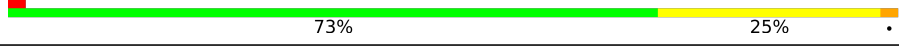
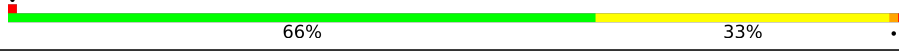




Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	AA	132	67% 30% .
1	AB	132	67% 30% .
1	AC	132	63% 33% .
1	AD	132	73% 25% .
1	AE	132	69% 30% .
1	AF	132	66% 31% .
1	AG	132	73% 25% .
1	AH	132	67% 31% .











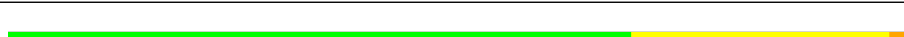


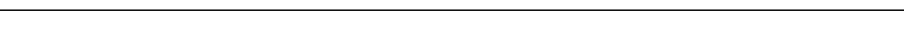
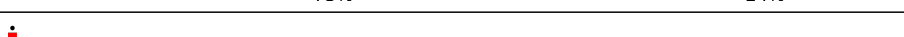
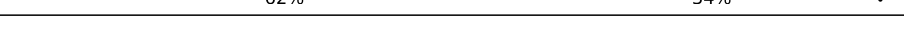



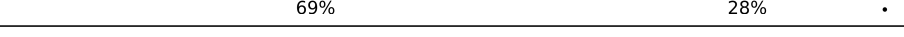





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Mol	Chain	Length	Quality of chain
1	AI	132	
1	AJ	132	
1	AK	132	
1	AL	132	
1	AM	132	
1	AN	132	
1	AO	132	
1	AP	132	
1	AQ	132	
1	AR	132	
1	AS	132	
1	AT	132	
1	AU	132	
1	AV	132	
1	AW	132	
1	AX	132	
1	AY	132	
1	AZ	132	
1	BA	132	
1	BB	132	
1	BC	132	
1	BD	132	
1	BE	132	
1	BF	132	
1	BG	132	







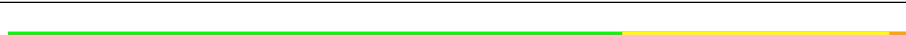
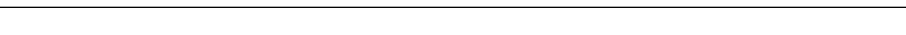
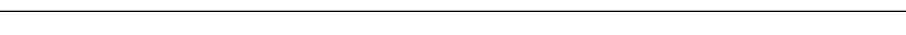
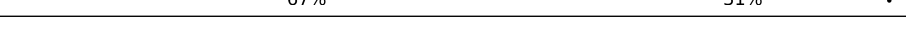
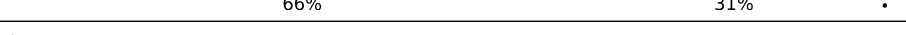
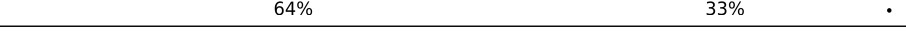













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Mol	Chain	Length	Quality of chain
1	BH	132	 72% 27%
1	BI	132	 71% 27%
1	BJ	132	 64% 33%
1	BK	132	 76% 23%
1	BL	132	 71% 26%
1	BM	132	 62% 34%
1	BN	132	 75% 24%
1	BO	132	 67% 32%
1	BP	132	 63% 34%
1	BQ	132	 71% 27%
1	BR	132	 70% 29%
1	BS	132	 64% 34%
1	BT	132	 74% 25%
1	BU	132	 73% 24%
1	BV	132	 62% 34%
1	BW	132	 73% 26%
1	BX	132	 69% 30%
1	BY	132	 64% 33%
1	BZ	132	 69% 28%
1	CA	132	 67% 30%
1	CB	132	 64% 32%
1	CC	132	 71% 27%
1	CD	132	 70% 29%
1	CE	132	 67% 31%
1	CF	132	 75% 24%



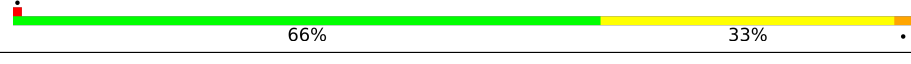
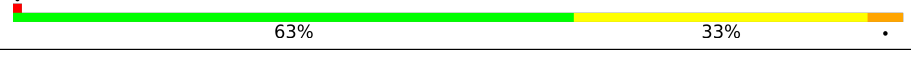
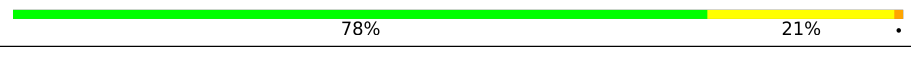



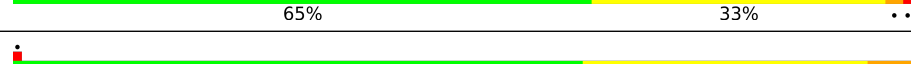
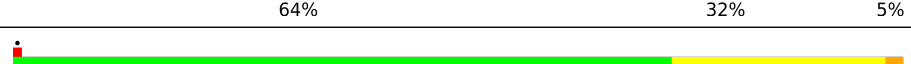
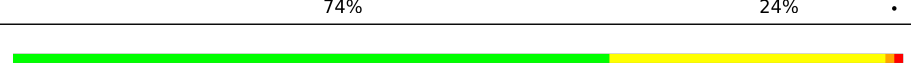
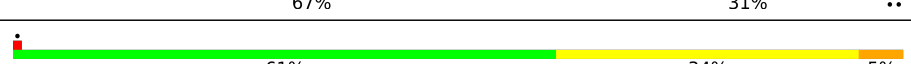
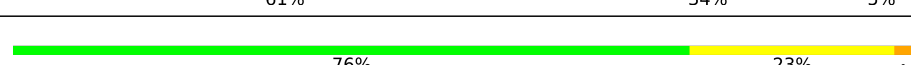
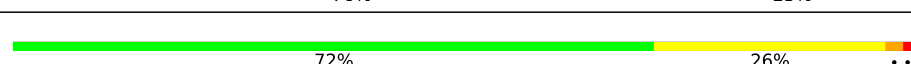
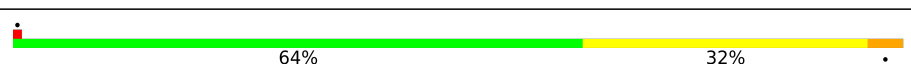
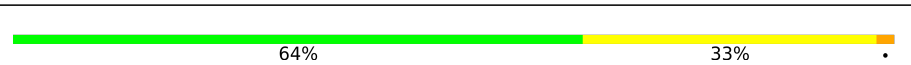
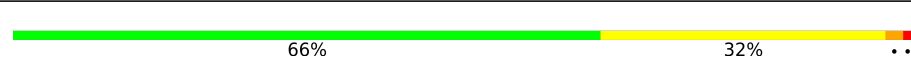


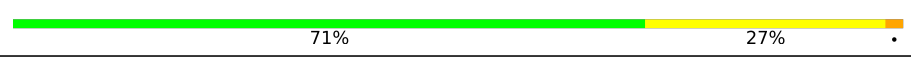

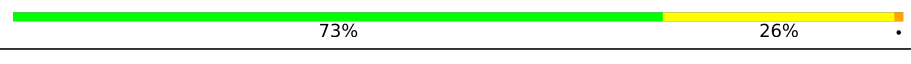



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Mol	Chain	Length	Quality of chain
1	CG	132	 71% 26%
1	CH	132	 61% 36%
1	CI	132	 76% 23%
1	CJ	132	 70% 29%
1	CK	132	 62% 35%
1	CL	132	 71% 27%
1	CM	132	 69% 30%
1	CN	132	 67% 33%
1	CO	132	 67% 31%
1	CP	132	 66% 31%
1	CQ	132	 64% 33%
1	CR	132	 76% 22%
1	CS	132	 67% 31%
1	CT	132	 61% 34% 5%
1	CU	132	 74% 24%
1	CV	132	 70% 29%
1	CW	132	 63% 34%
1	CX	132	 72% 27%
1	CY	132	 70% 28%
1	CZ	132	 66% 33%
1	DA	132	 64% 33%
1	DB	132	 66% 33%
1	DC	132	 63% 33%
1	DD	132	 72% 27%
1	DE	132	 67% 31%


























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Mol	Chain	Length	Quality of chain
1	DF	132	
1	DG	132	
1	DH	132	
1	DI	132	
1	DJ	132	
1	DK	132	
1	DL	132	
1	DM	132	
1	DN	132	
1	DO	132	
1	DP	132	
1	DQ	132	
1	DR	132	
1	DS	132	
1	DT	132	
1	DU	132	
1	DV	132	
1	DW	132	
1	DX	132	
1	DY	132	
1	DZ	132	
1	EA	132	
1	EB	132	
1	EC	132	
1	ED	132	


























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Mol	Chain	Length	Quality of chain
1	EE	132	 75% 23% .
1	EF	132	 70% 27% ..
1	EG	132	 64% 33% .
1	EH	132	 67% 29% .
1	EI	132	 64% 34% ..
1	EJ	132	 63% 34% .
1	EK	132	 68% 29% .
1	EL	132	 70% 28% .
1	EM	132	 63% 34% .
1	EN	132	 75% 23% .
1	EO	132	 70% 27% ..
1	EP	132	 66% 30% .
1	EQ	132	 74% 25% .
1	ER	132	 70% 26% .
1	ES	132	 60% 36% .
1	ET	132	 75% 23% .
1	EU	132	 69% 29% ..
1	EV	132	 66% 31% .
1	EW	132	 70% 27% .
1	EX	132	 70% 28% .
1	EY	132	 63% 34% .
1	EZ	132	 76% 22% .
1	FA	132	 72% 27% ..
1	FB	132	 64% 33% .
1	FC	132	 79% 20% .

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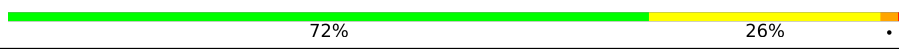




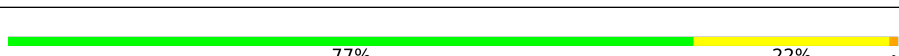
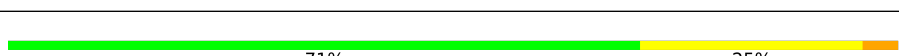

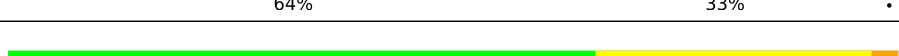
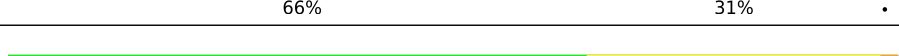
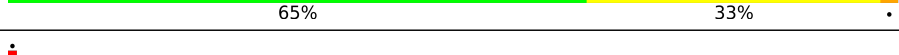



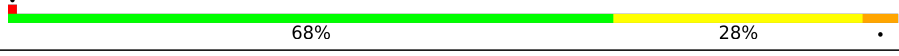



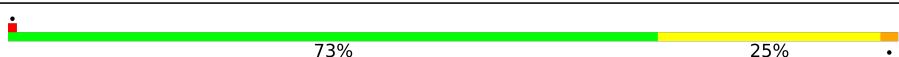

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Mol	Chain	Length	Quality of chain
1	FD	132	 70% 26% .
1	FE	132	 59% 37% .
1	FF	132	 70% 27% .
1	FG	132	 70% 28% .
1	FH	132	 63% 34% .
1	FI	132	 76% 23% .
1	FJ	132	 67% 30% ..
1	FK	132	 68% 27% 5% .
1	FL	132	 65% 31% .
1	FM	132	 64% 33% ..
1	FN	132	 64% 33% .
1	FO	132	 79% 20% .
1	FP	132	 71% 25% .
1	FQ	132	 59% 37% .
1	FR	132	 71% 27% .
1	FS	132	 73% 24% .
1	FT	132	 64% 33% .
1	FU	132	 76% 22% .
1	FV	132	 67% 31% ..
1	FW	132	 67% 30% .
1	FX	132	 77% 23% .
1	FY	132	 72% 24% .
1	FZ	132	 58% 38% .
1	GA	132	 67% 30% .
1	GB	132	 63% 34% ..

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Mol	Chain	Length	Quality of chain
1	GC	132	 64% 33%
1	GD	132	 73% 24%
1	GE	132	 72% 26%
1	GF	132	 66% 30% 5%
1	GG	132	 74% 24%
1	GH	132	 67% 30%
1	GI	132	 63% 33%
1	GJ	132	 77% 22%
1	GK	132	 71% 25%
1	GL	132	 64% 33%
1	GM	132	 66% 31%
1	GN	132	 65% 33%
1	GO	132	 64% 32%
1	GP	132	 76% 23%
1	GQ	132	 67% 31%
1	GR	132	 68% 28%
1	GS	132	 72% 26%
1	GT	132	 71% 26%
1	GU	132	 67% 29% 5%
1	GV	132	 73% 25%
1	GW	132	 70% 28%
1	GX	132	 62% 35%

## 2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 176040 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 Coat protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	AA	132	978	609	168	200	1	0	0
1	AB	132	978	609	168	200	1	0	0
1	AC	132	978	609	168	200	1	0	0
1	AD	132	978	609	168	200	1	0	0
1	AE	132	978	609	168	200	1	0	0
1	AF	132	978	609	168	200	1	0	0
1	AG	132	978	609	168	200	1	0	0
1	AH	132	978	609	168	200	1	0	0
1	AI	132	978	609	168	200	1	0	0
1	AJ	132	978	609	168	200	1	0	0
1	AK	132	978	609	168	200	1	0	0
1	AL	132	978	609	168	200	1	0	0
1	AM	132	978	609	168	200	1	0	0
1	AN	132	978	609	168	200	1	0	0
1	AO	132	978	609	168	200	1	0	0
1	AP	132	978	609	168	200	1	0	0
1	AQ	132	978	609	168	200	1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AR	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	AS	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	AT	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	AU	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	AV	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	AW	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	AX	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	AY	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	AZ	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BA	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BB	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BC	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BD	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BE	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BF	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BG	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BH	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BI	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BJ	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BK	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BL	132	Total 978	C 609	N 168	O 200	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	BM	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BN	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BO	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BP	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BQ	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BR	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BS	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BT	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BU	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BV	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BW	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BX	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BY	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	BZ	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	CA	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	CB	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	CC	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	CD	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	CE	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	CF	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	CG	132	Total 978	C 609	N 168	O 200	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	CH	132	978	609	168	200	1	0	0
1	CI	132	978	609	168	200	1	0	0
1	CJ	132	978	609	168	200	1	0	0
1	CK	132	978	609	168	200	1	0	0
1	CL	132	978	609	168	200	1	0	0
1	CM	132	978	609	168	200	1	0	0
1	CN	132	978	609	168	200	1	0	0
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Mol	Chain	Residues	Atoms					AltConf	Trace
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1	DG	132	978	609	168	200	1	0	0
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1	DQ	132	978	609	168	200	1	0	0
1	DR	132	978	609	168	200	1	0	0
1	DS	132	978	609	168	200	1	0	0
1	DT	132	978	609	168	200	1	0	0
1	DU	132	978	609	168	200	1	0	0
1	DV	132	978	609	168	200	1	0	0
1	DW	132	978	609	168	200	1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
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1	DY	132	978	609	168	200	1	0	0
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1	EO	132	978	609	168	200	1	0	0
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1	EQ	132	978	609	168	200	1	0	0
1	ER	132	978	609	168	200	1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
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1	ET	132	978	609	168	200	1	0	0
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1	FI	132	978	609	168	200	1	0	0
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1	FK	132	978	609	168	200	1	0	0
1	FL	132	978	609	168	200	1	0	0
1	FM	132	978	609	168	200	1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
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1	FO	132	978	609	168	200	1	0	0
1	FP	132	978	609	168	200	1	0	0
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1	FR	132	978	609	168	200	1	0	0
1	FS	132	978	609	168	200	1	0	0
1	FT	132	978	609	168	200	1	0	0
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1	FW	132	978	609	168	200	1	0	0
1	FX	132	978	609	168	200	1	0	0
1	FY	132	978	609	168	200	1	0	0
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1	GB	132	978	609	168	200	1	0	0
1	GC	132	978	609	168	200	1	0	0
1	GD	132	978	609	168	200	1	0	0
1	GE	132	978	609	168	200	1	0	0
1	GF	132	978	609	168	200	1	0	0
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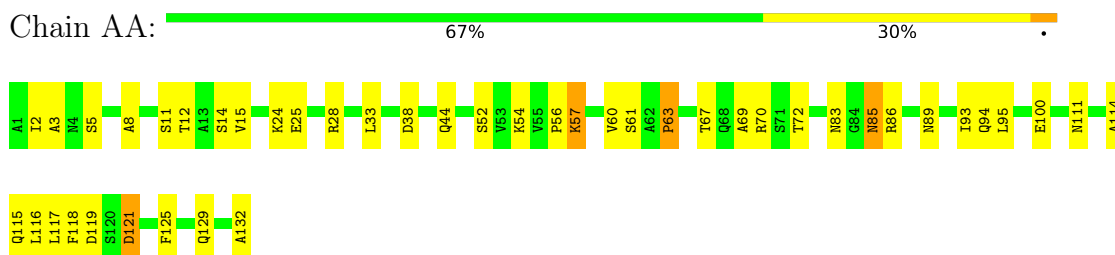
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Mol	Chain	Residues	Atoms					AltConf	Trace
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1	GJ	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GK	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GL	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GM	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GN	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GO	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GP	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GQ	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GR	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GS	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GT	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GU	132	Total 978	C 609	N 168	O 200	S 1	0	0
1	GV	132	Total 978	C 609	N 168	O 200	S 1	0	0
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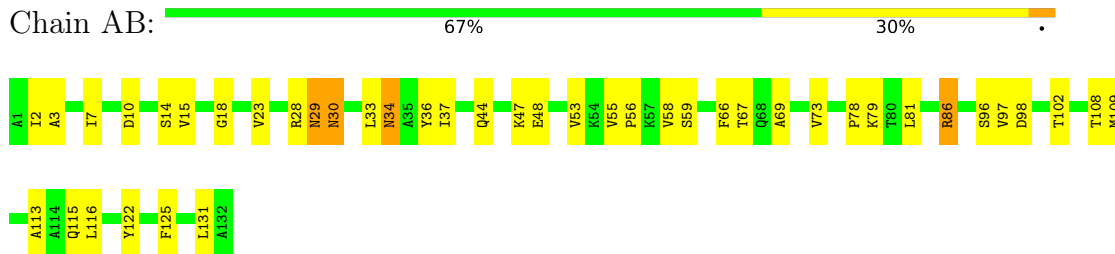
### 3 Residue-property plots [i](#)

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.

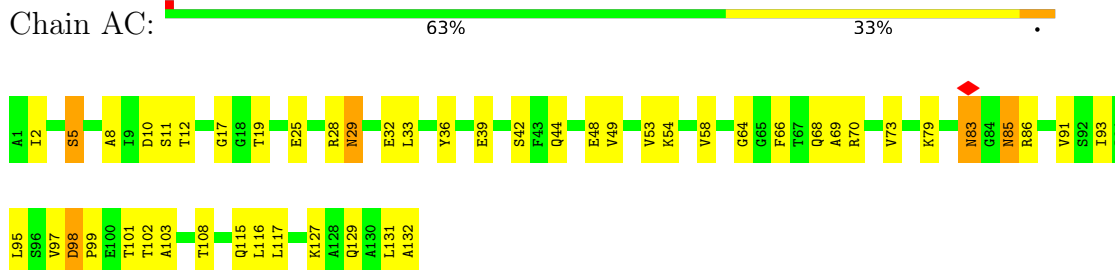
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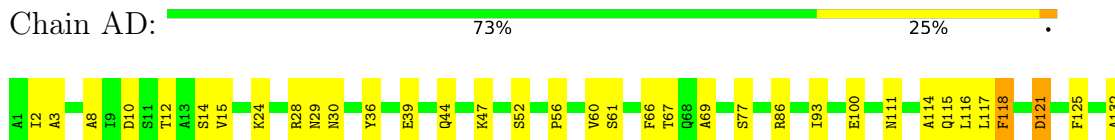
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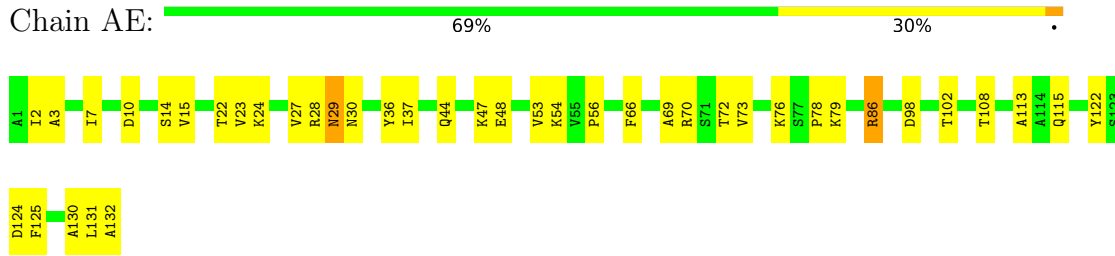
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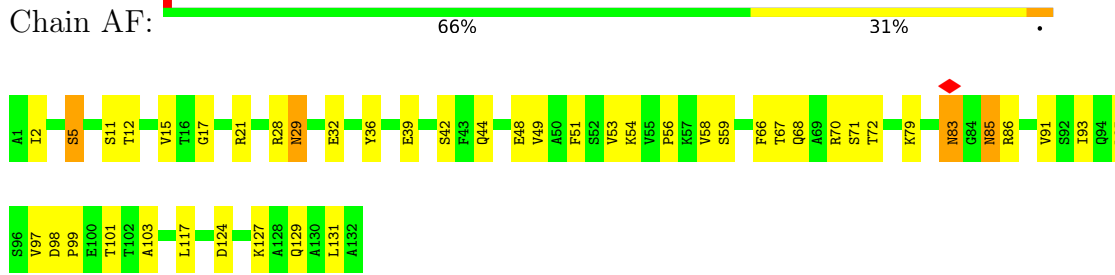
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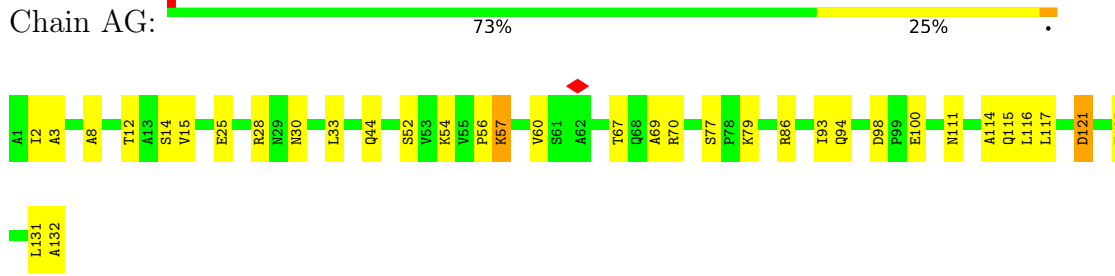
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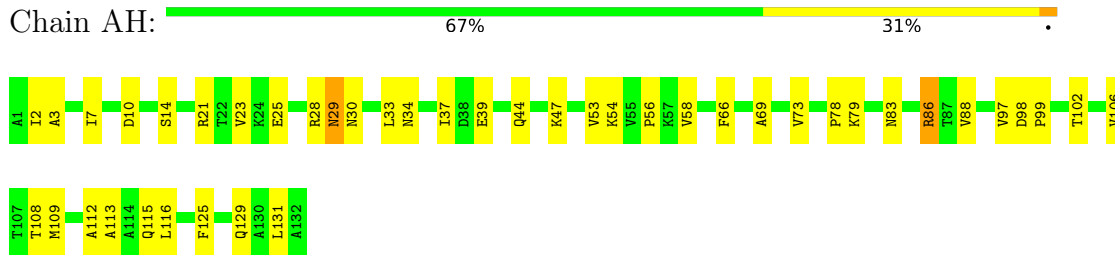
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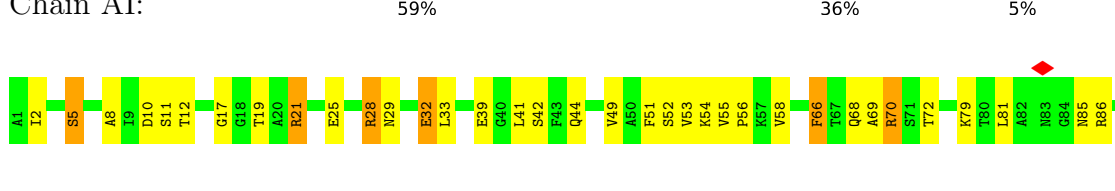
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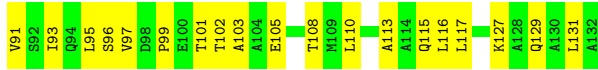


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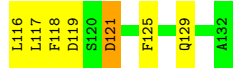
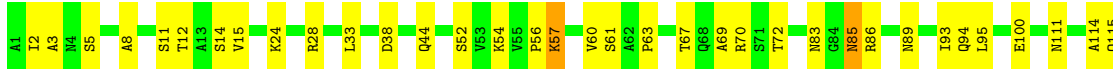


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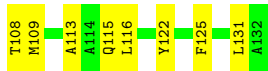




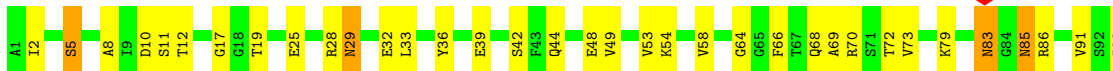
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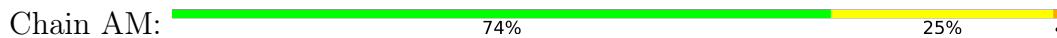
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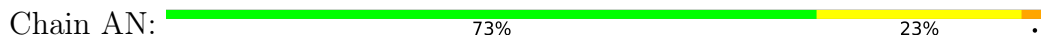
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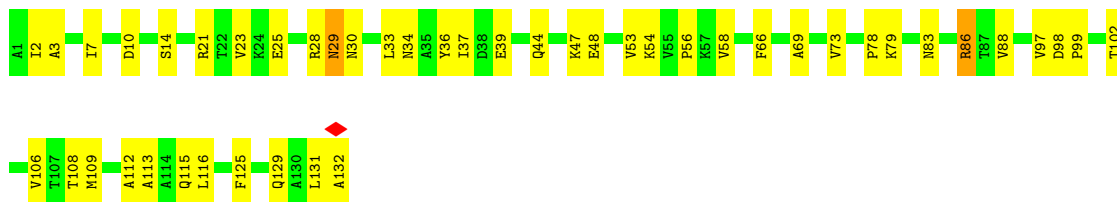
● Molecule 1: Coat protein



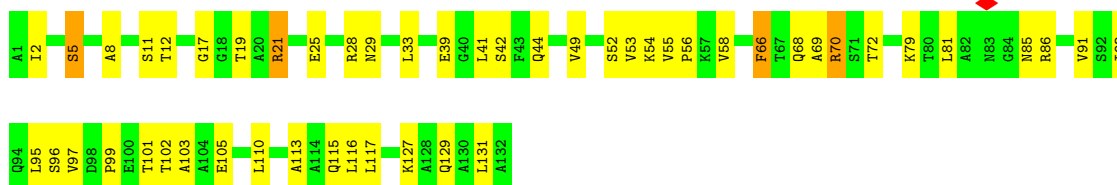
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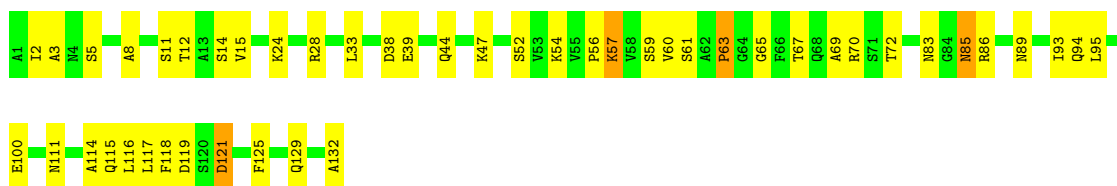




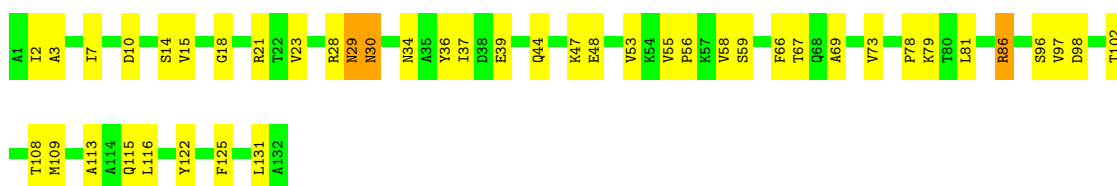
• Molecule 1: Coat protein



• Molecule 1: Coat protein



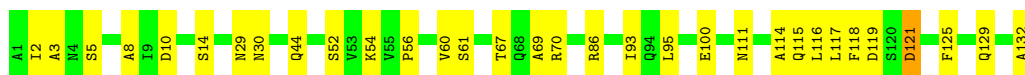
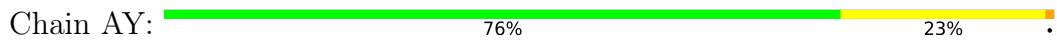
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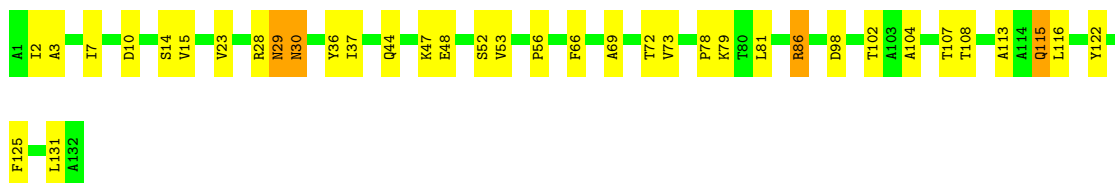
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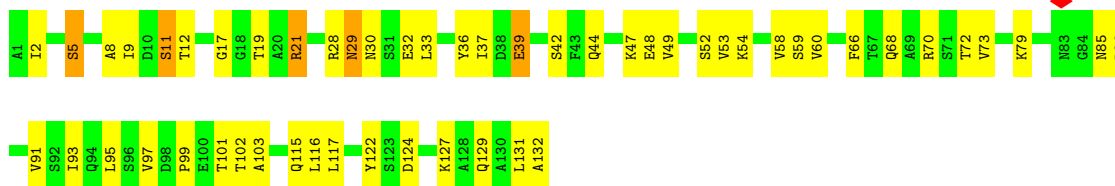
• Molecule 1: Coat protein



● Molecule 1: Coat protein



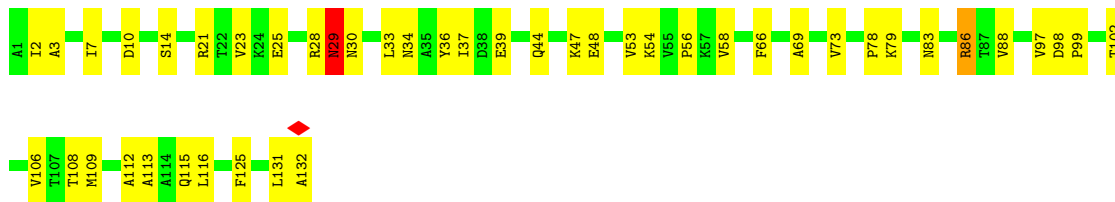
● Molecule 1: Coat protein



● Molecule 1: Coat protein

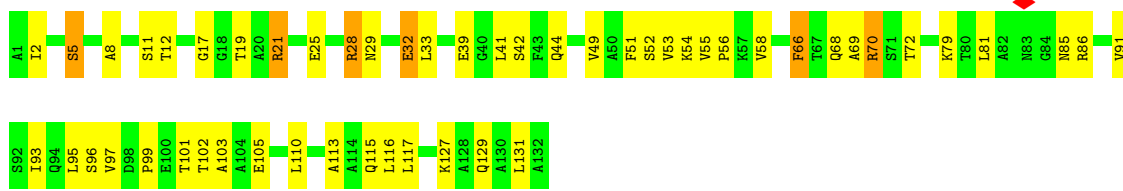


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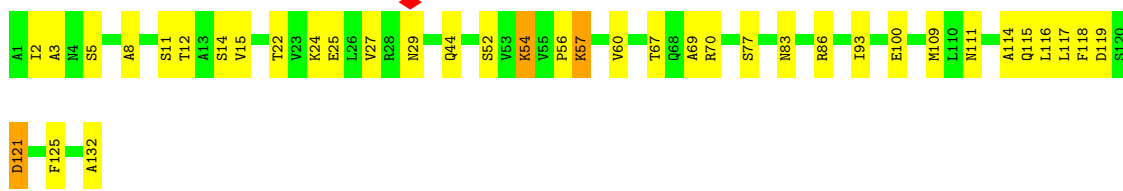


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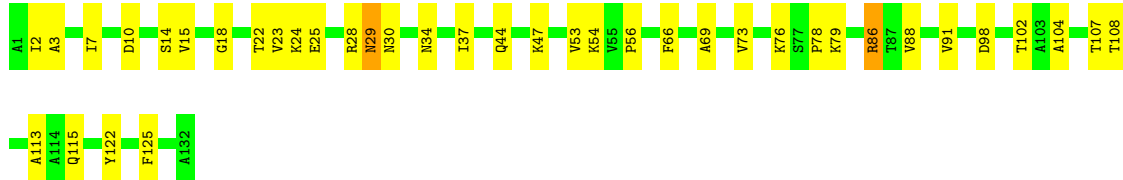




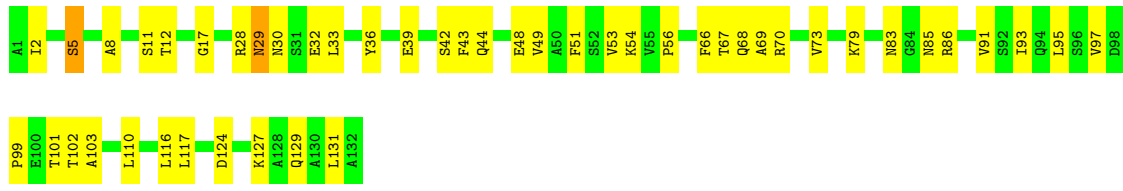
• Molecule 1: Coat protein



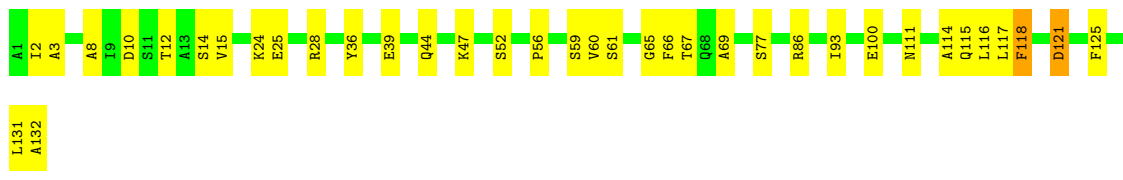
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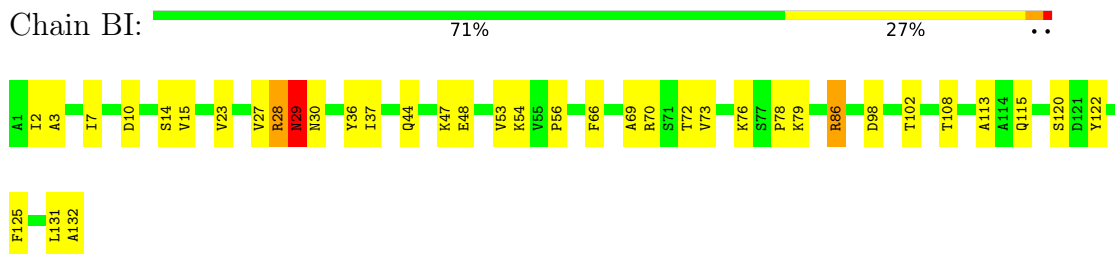
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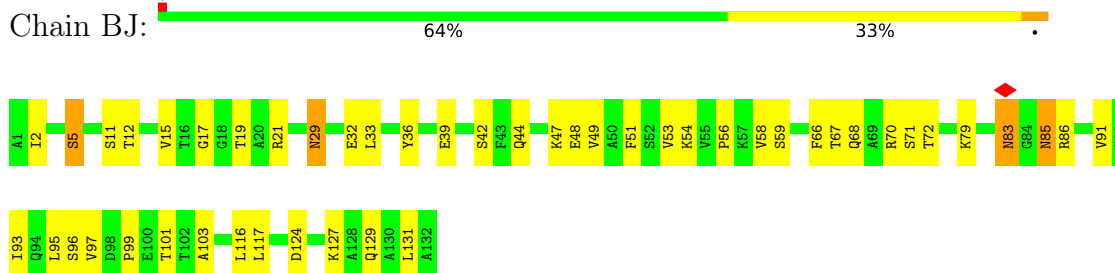
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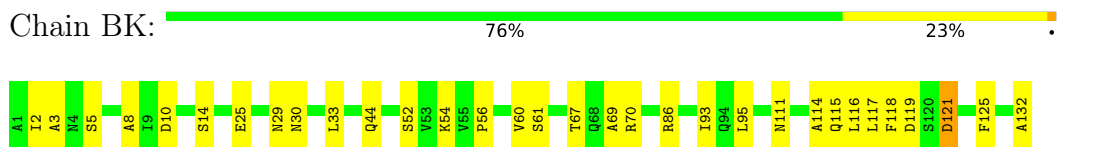
• Molecule 1: Coat protein



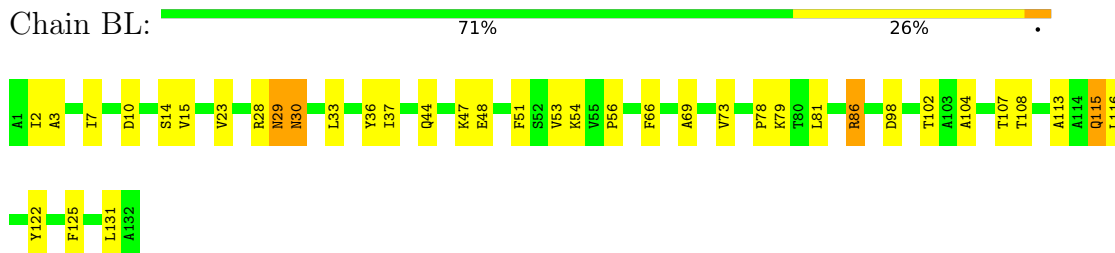
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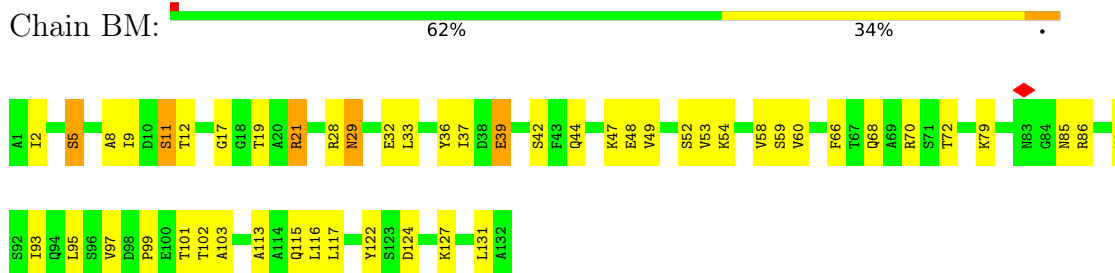
• Molecule 1: Coat protein




• Molecule 1: Coat protein



• Molecule 1: Coat protein



• Molecule 1: Coat protein

Chain BN:  75% 24%



• Molecule 1: Coat protein

Chain BO:  67% 32%



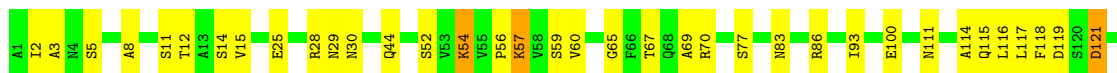
• Molecule 1: Coat protein

Chain BP:  63% 34%



• Molecule 1: Coat protein

Chain BQ:  71% 27%



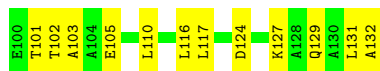
• Molecule 1: Coat protein

Chain BR:  70% 29%



• Molecule 1: Coat protein

Chain BS:  64% 34%



• Molecule 1: Coat protein



• Molecule 1: Coat protein



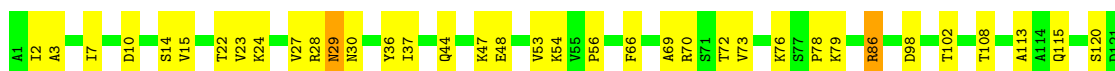
• Molecule 1: Coat protein



• Molecule 1: Coat protein



• Molecule 1: Coat protein





● Molecule 1: Coat protein



● Molecule 1: Coat protein



● Molecule 1: Coat protein



● Molecule 1: Coat protein



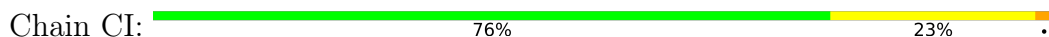
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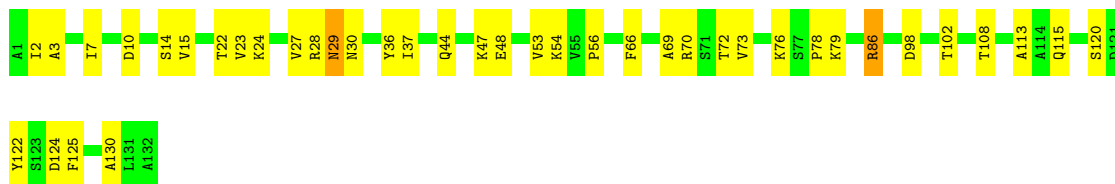




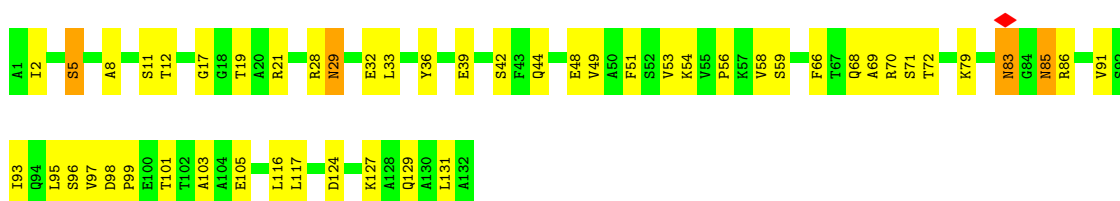
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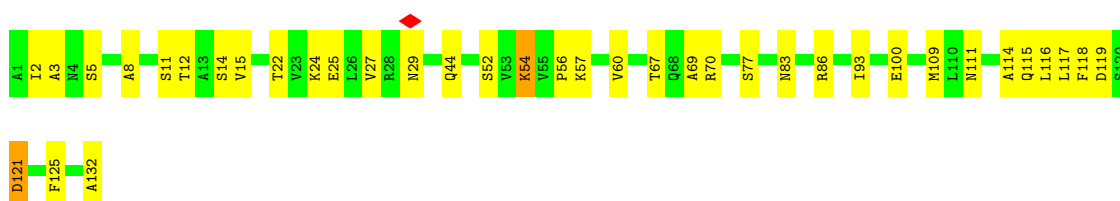
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● Molecule 1: Coat protein



● Molecule 1: Coat protein

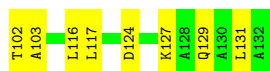
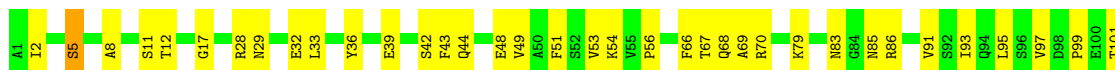


● Molecule 1: Coat protein





• Molecule 1: Coat protein



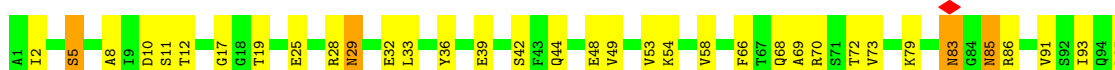
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• Molecule 1: Coat protein

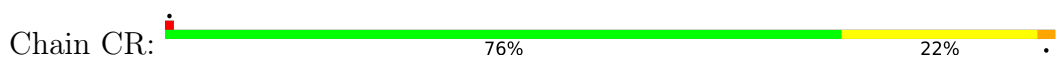


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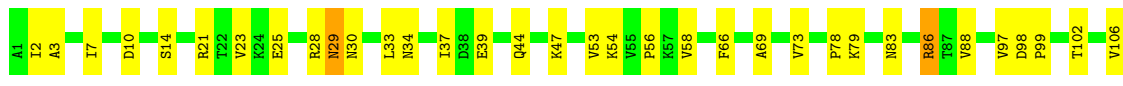


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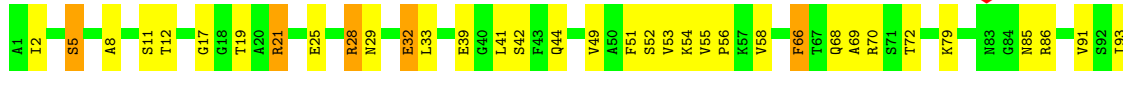




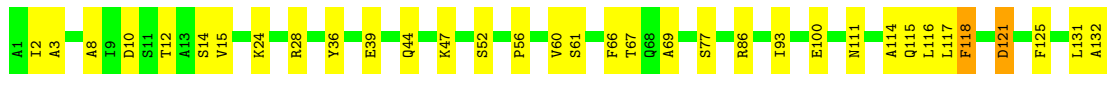
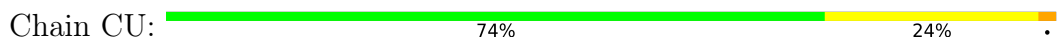
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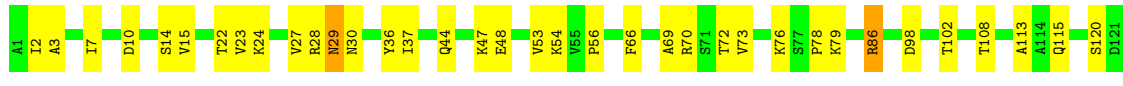
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• Molecule 1: Coat protein

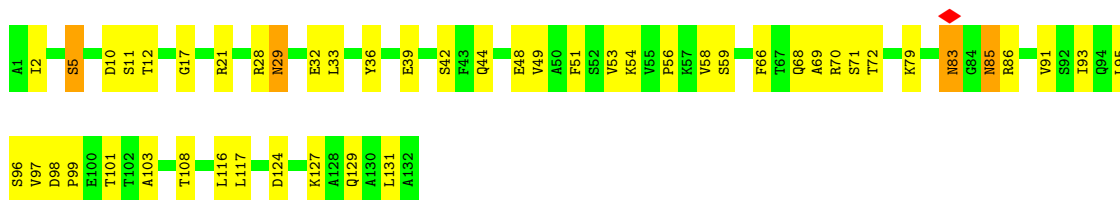


• Molecule 1: Coat protein

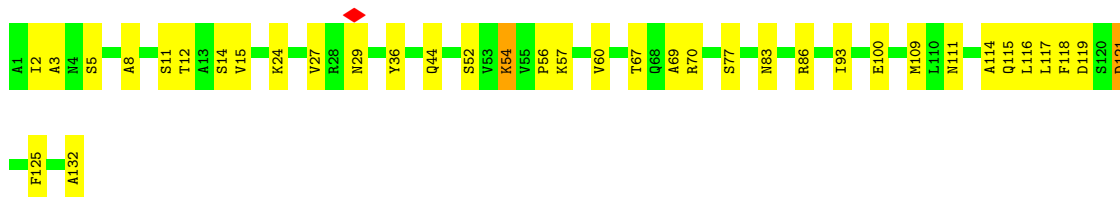
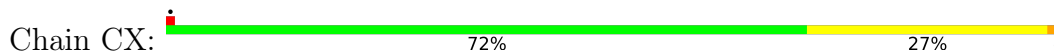


• Molecule 1: Coat protein

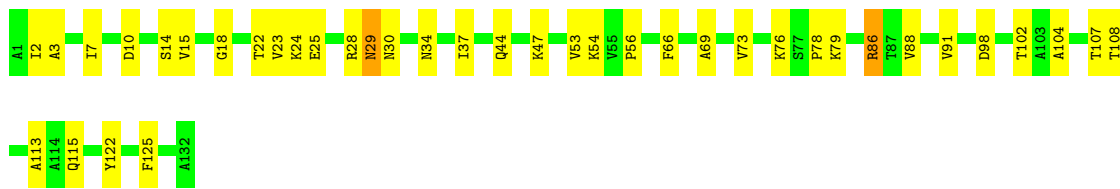




● Molecule 1: Coat protein



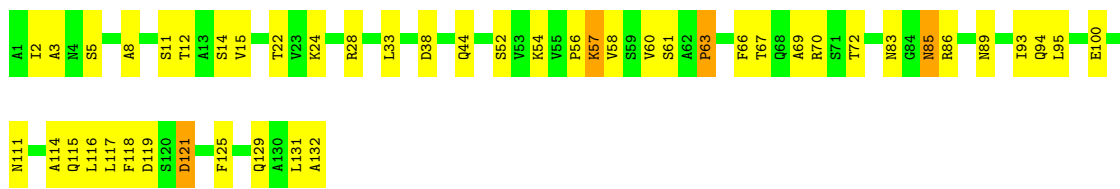
● Molecule 1: Coat protein



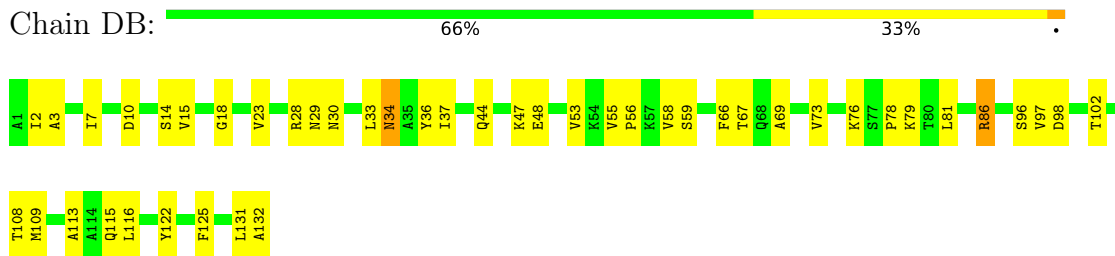
● Molecule 1: Coat protein



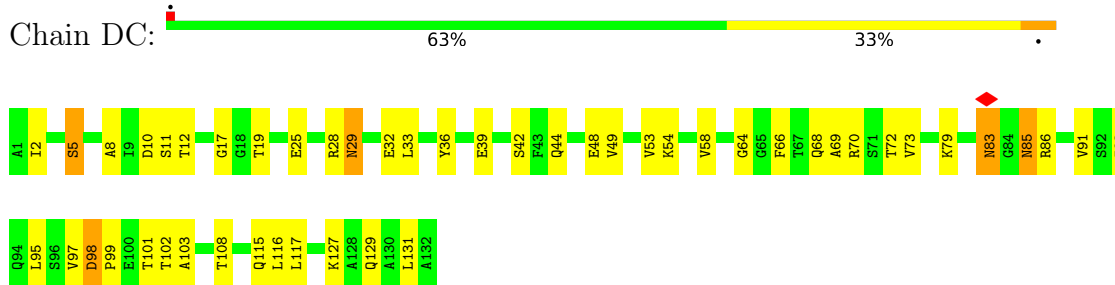
● Molecule 1: Coat protein



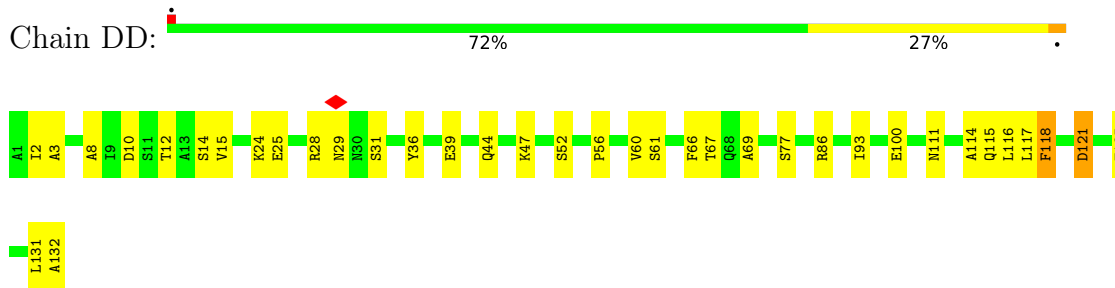
● Molecule 1: Coat protein



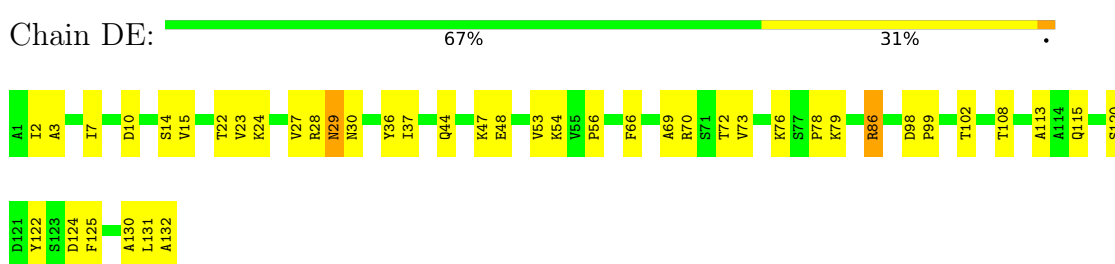
• Molecule 1: Coat protein



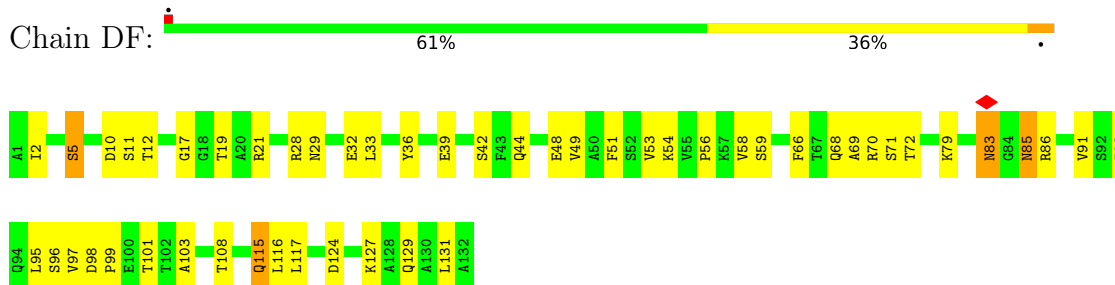
• Molecule 1: Coat protein



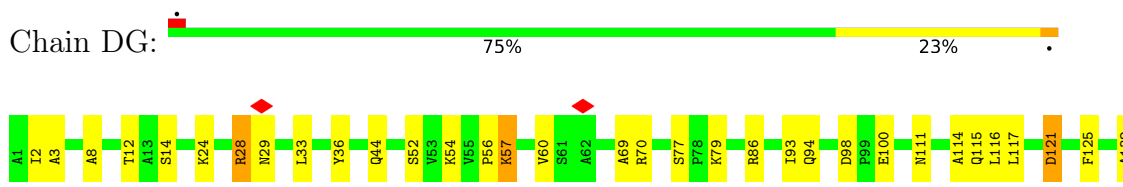
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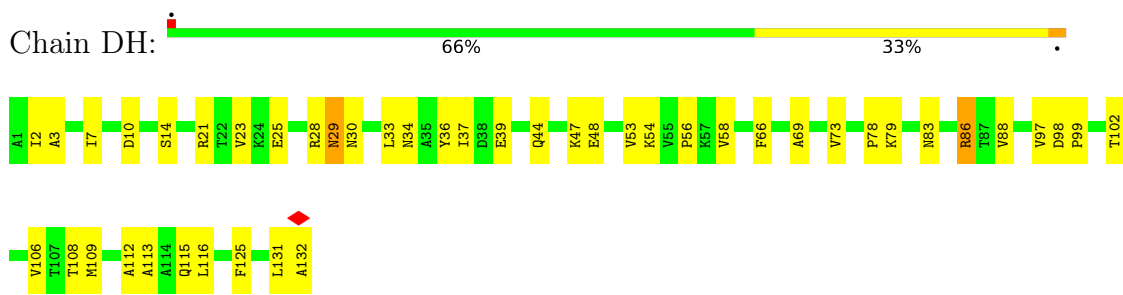
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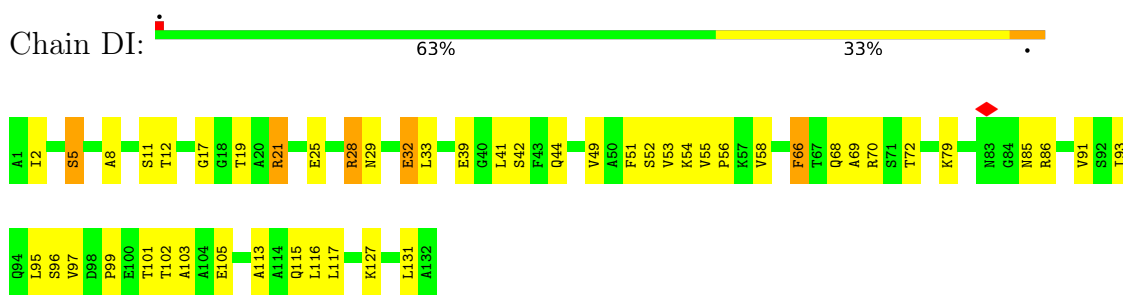
• Molecule 1: Coat protein



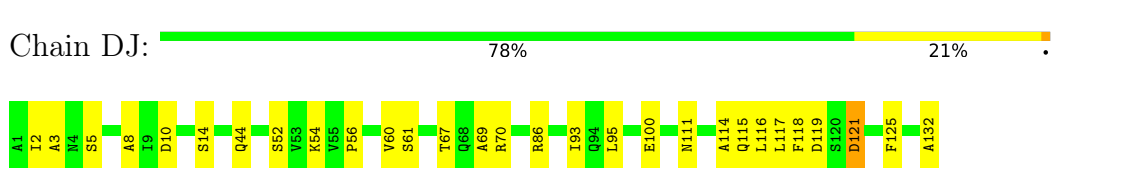
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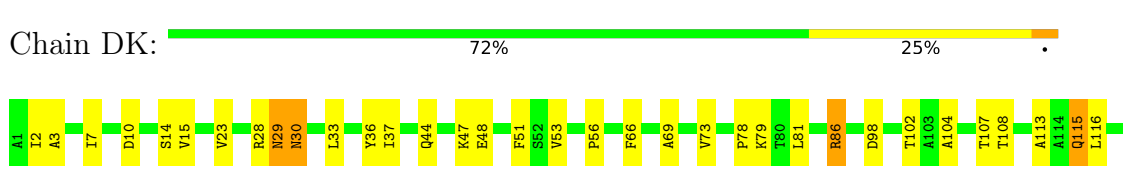
• Molecule 1: Coat protein



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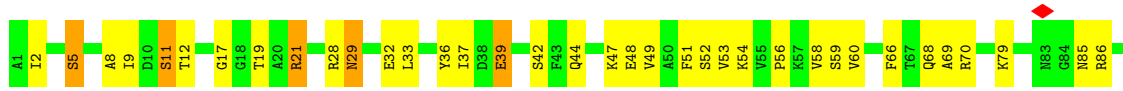


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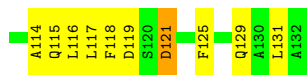
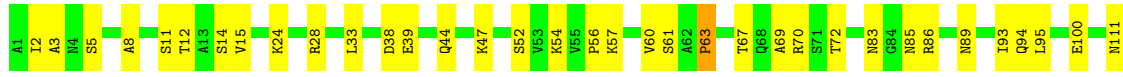


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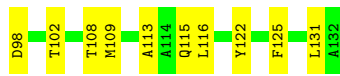




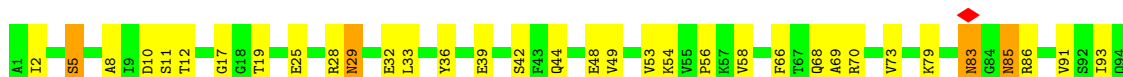
• Molecule 1: Coat protein



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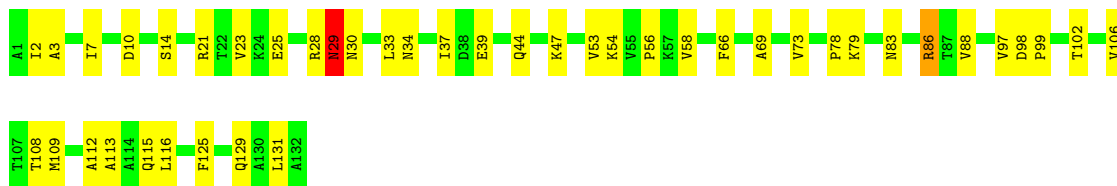


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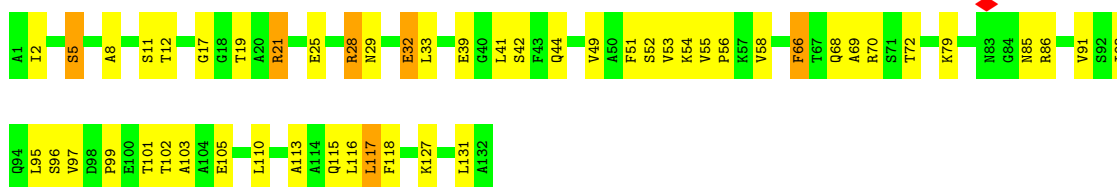
• Molecule 1: Coat protein

Chain DQ:  67% 31% ..




• Molecule 1: Coat protein

Chain DR:  61% 34% 5%



• Molecule 1: Coat protein

Chain DS:  76% 23%



• Molecule 1: Coat protein

Chain DT:  72% 26% ..



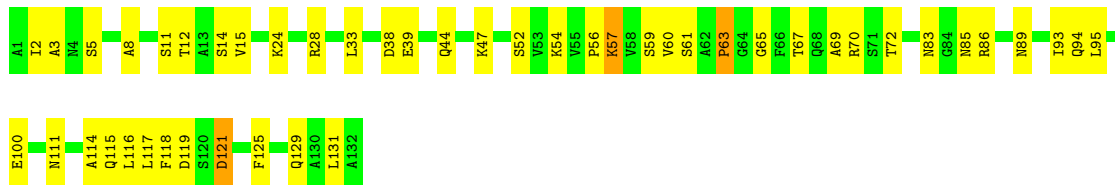
• Molecule 1: Coat protein

Chain DU:  64% 32%

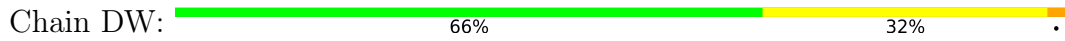


• Molecule 1: Coat protein

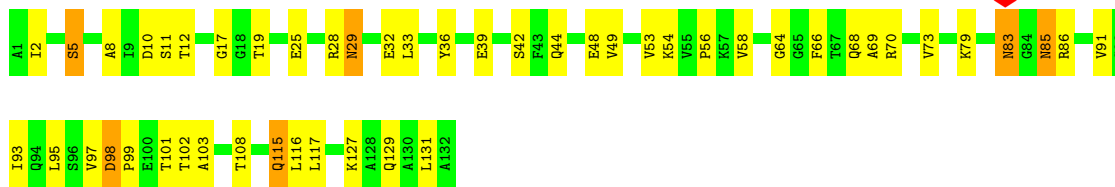
Chain DV:  64% 33%



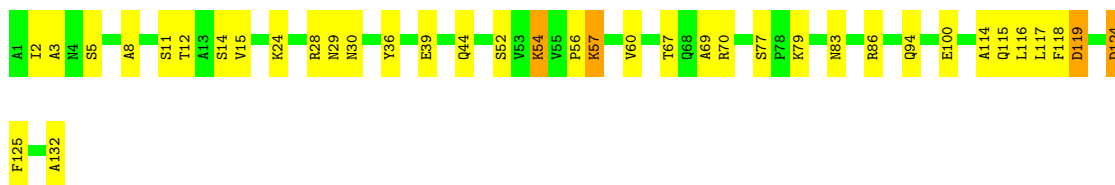
• Molecule 1: Coat protein



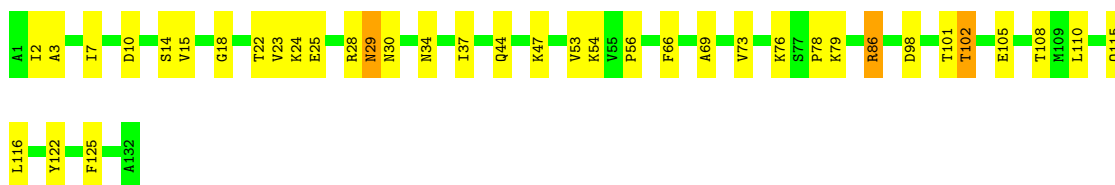
• Molecule 1: Coat protein



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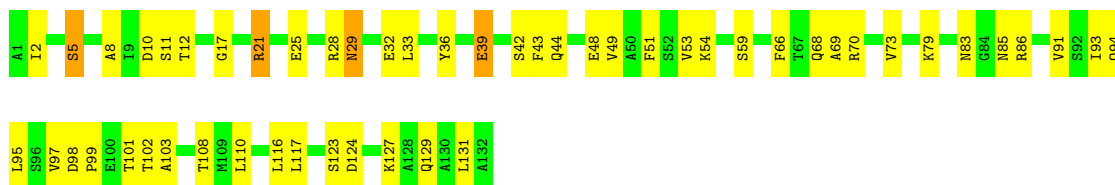


• Molecule 1: Coat protein



• Molecule 1: Coat protein

Chain EA:  61% 36%



• Molecule 1: Coat protein

Chain EB:  73% 26%



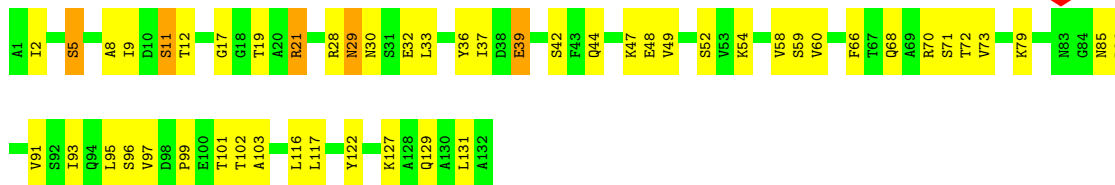
• Molecule 1: Coat protein

Chain EC:  70% 27%



• Molecule 1: Coat protein

Chain ED:  61% 35%



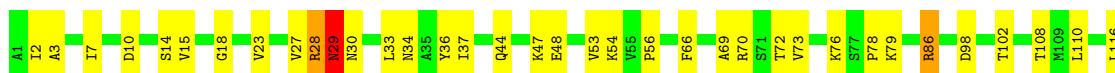
• Molecule 1: Coat protein

Chain EE:  75% 23%



• Molecule 1: Coat protein

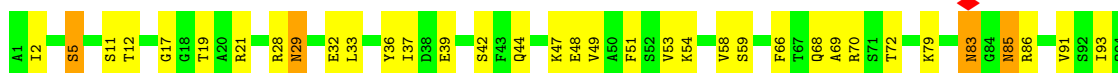
Chain EF:  70% 27%







- Molecule 1: Coat protein



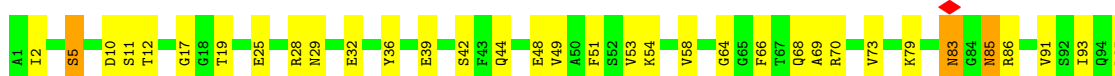
- Molecule 1: Coat protein



- Molecule 1: Coat protein

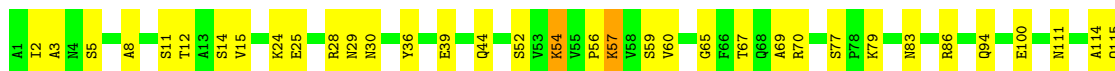


- Molecule 1: Coat protein

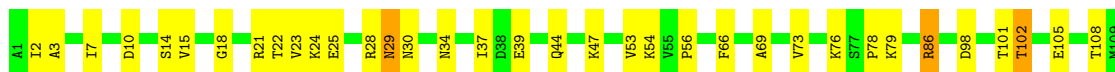


- Molecule 1: Coat protein





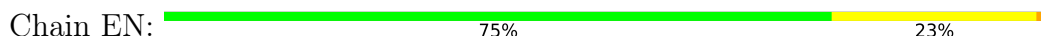
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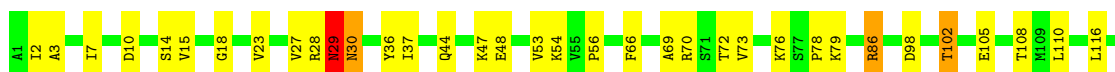
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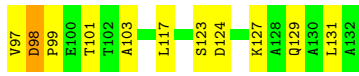


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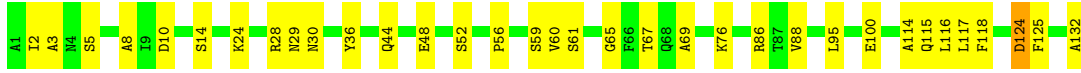
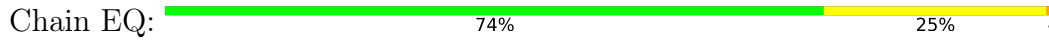


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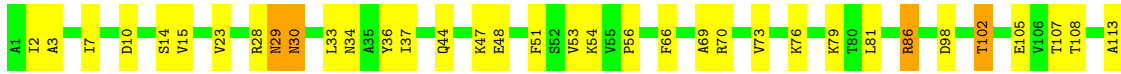




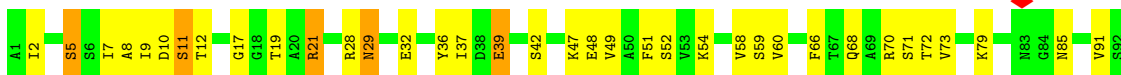
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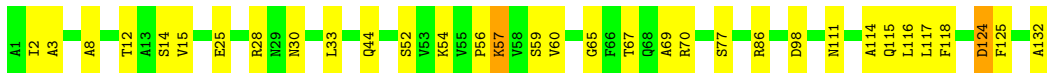
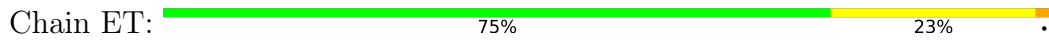
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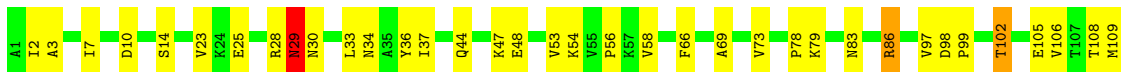
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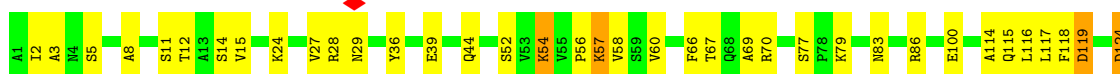




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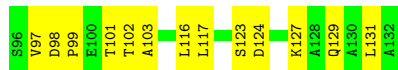
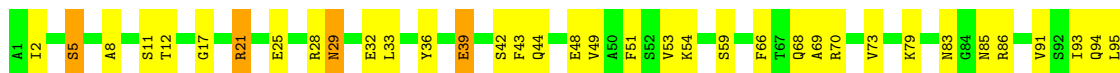
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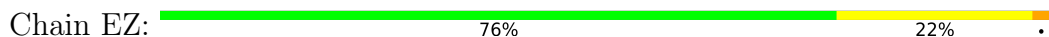
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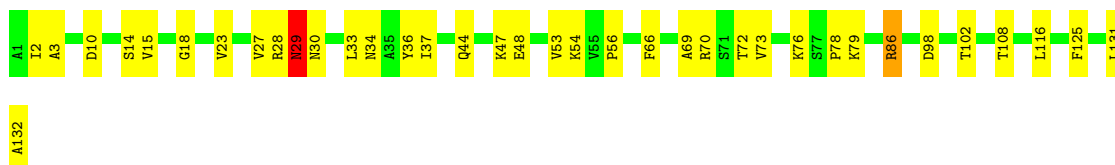


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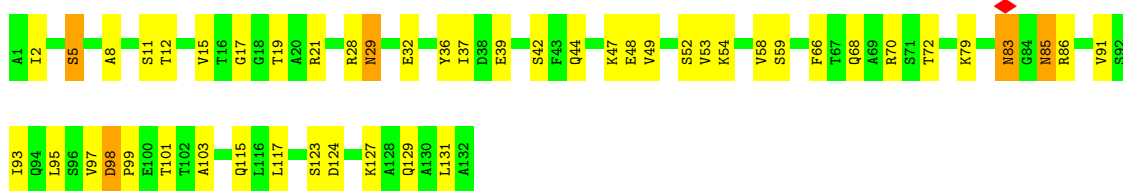




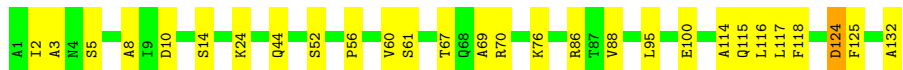
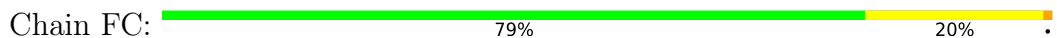
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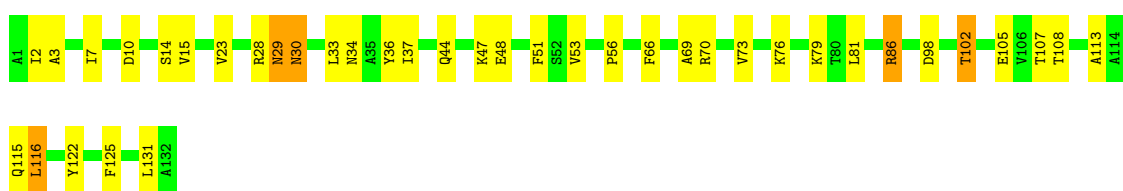
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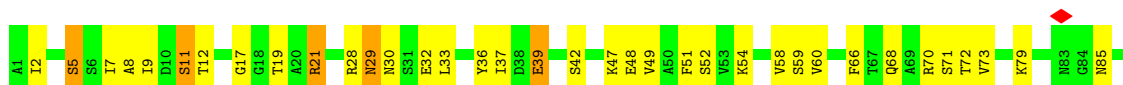
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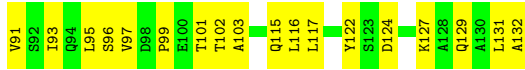


• Molecule 1: Coat protein



• Molecule 1: Coat protein





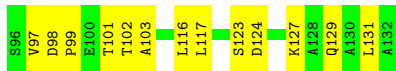
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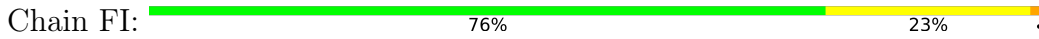
• Molecule 1: Coat protein



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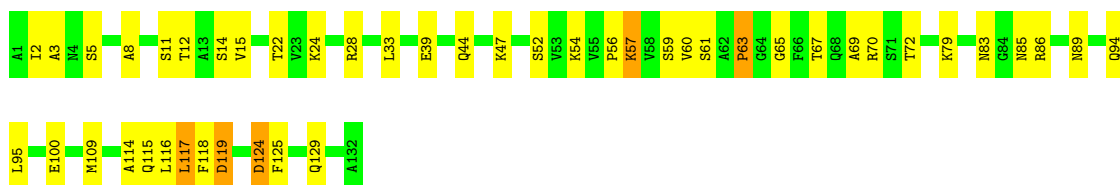
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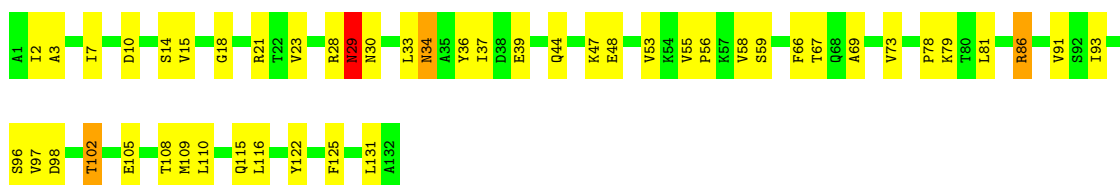
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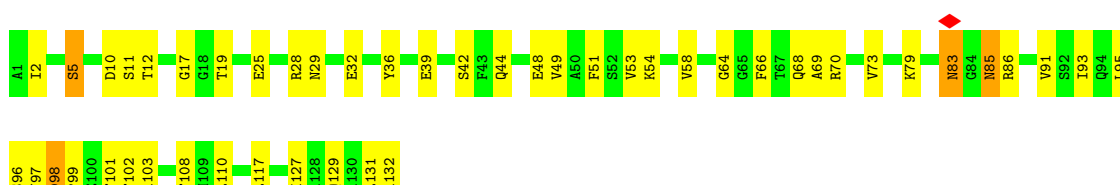
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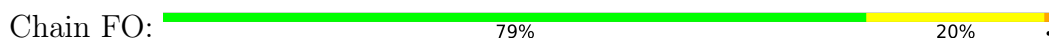
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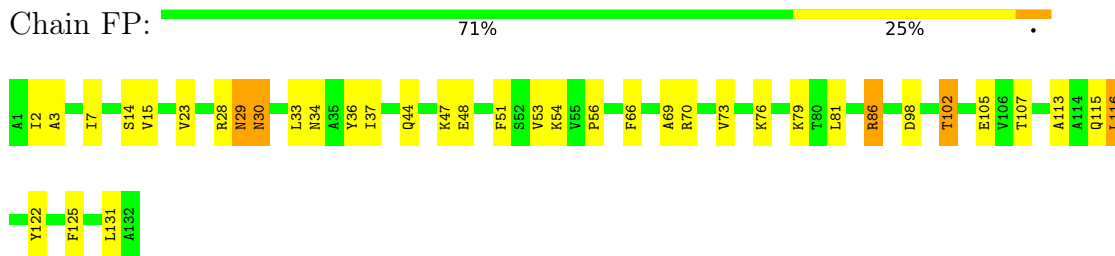
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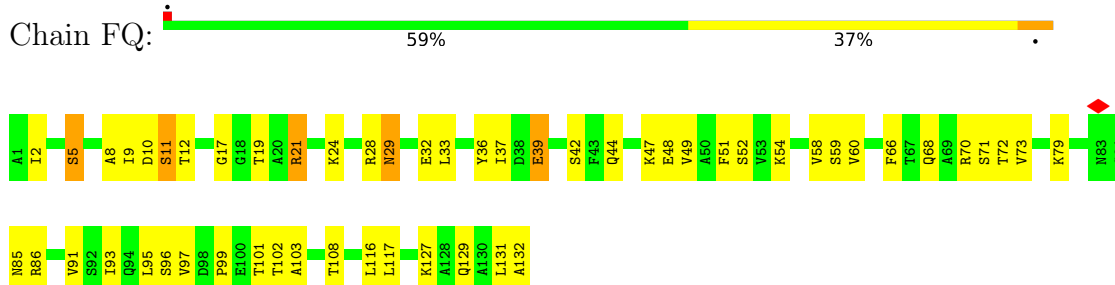
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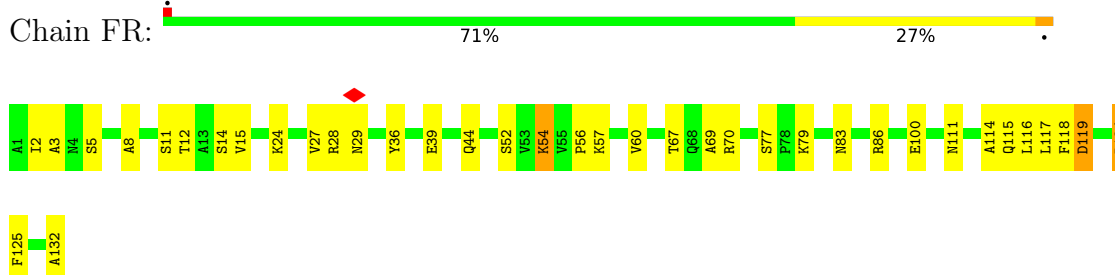
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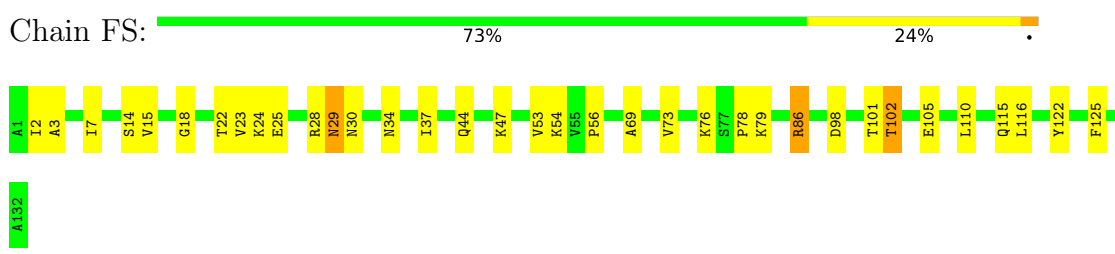
● Molecule 1: Coat protein



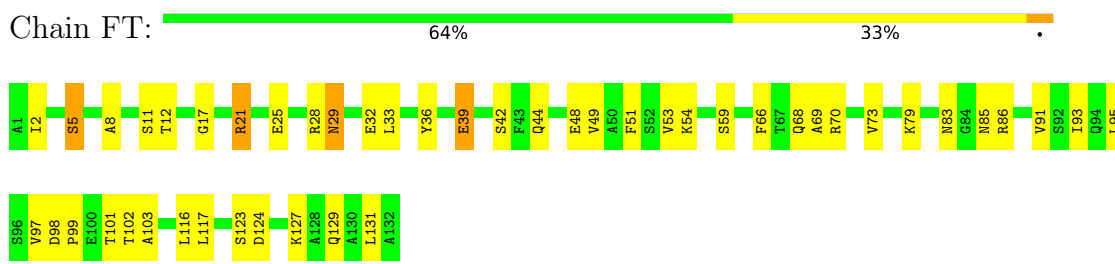
● Molecule 1: Coat protein



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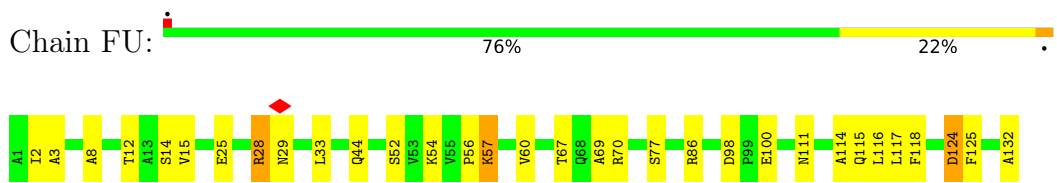


● Molecule 1: Coat protein

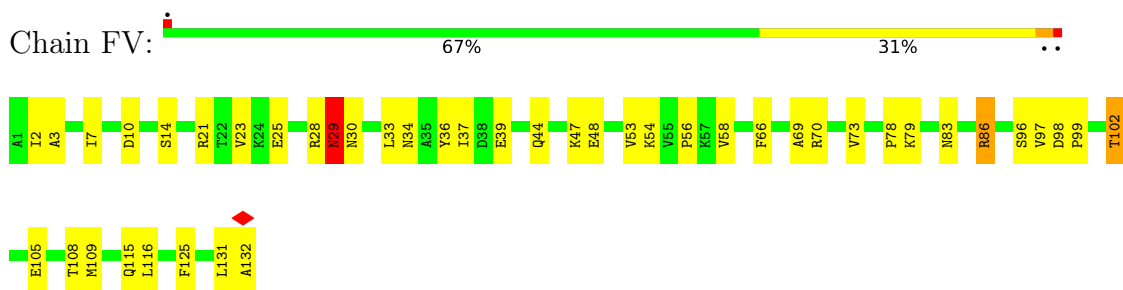




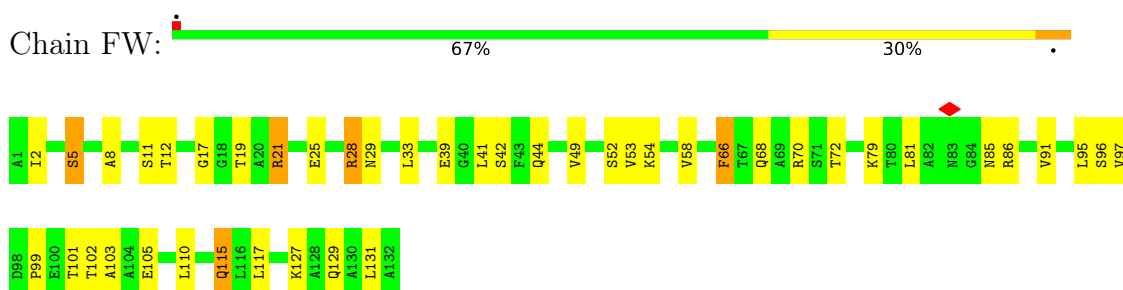
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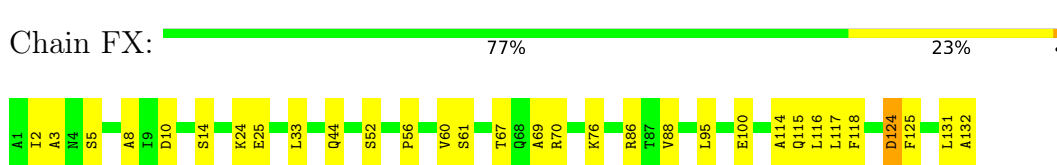
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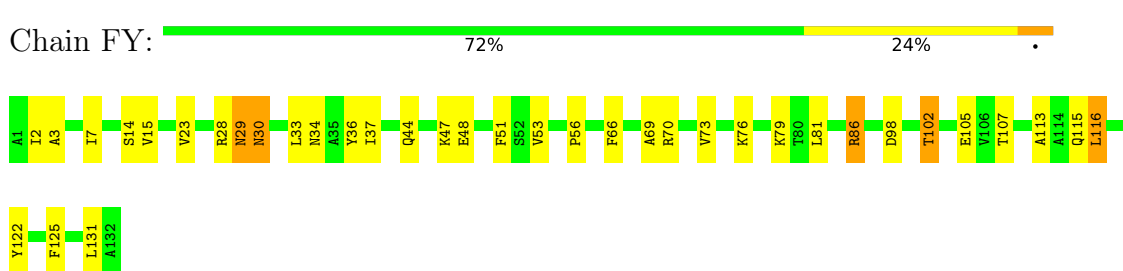
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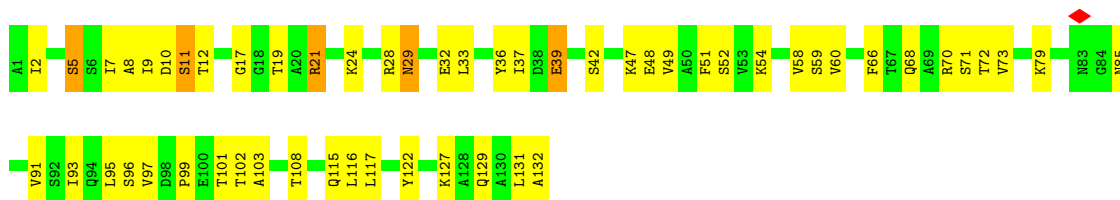


• Molecule 1: Coat protein

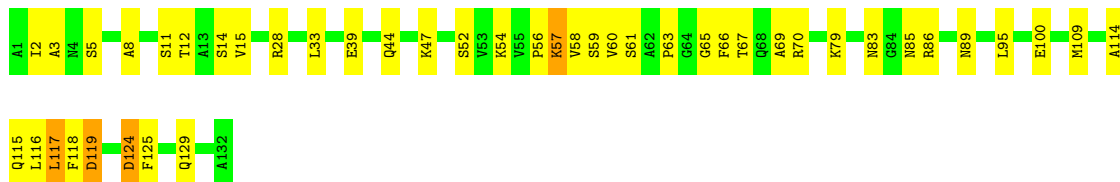


• Molecule 1: Coat protein

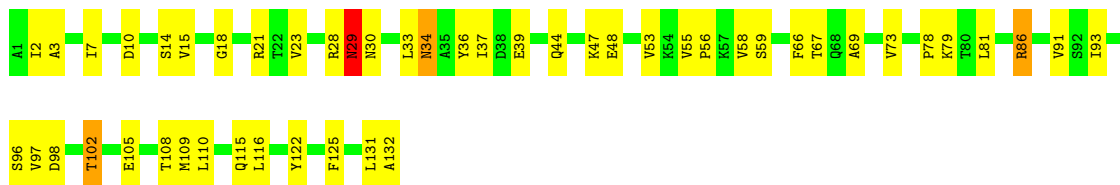




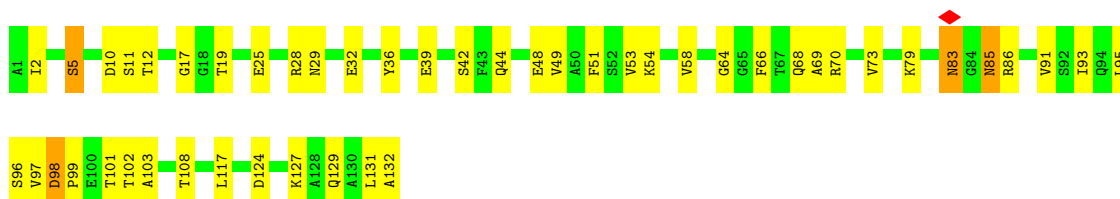
• Molecule 1: Coat protein



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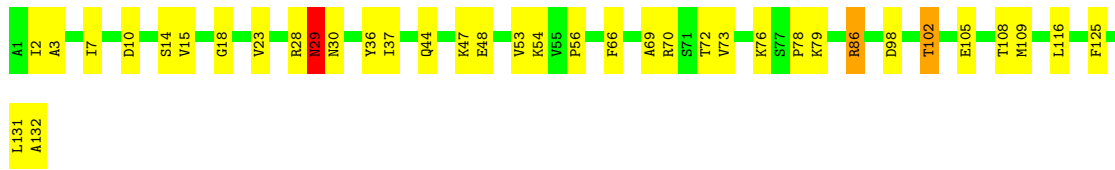


• Molecule 1: Coat protein

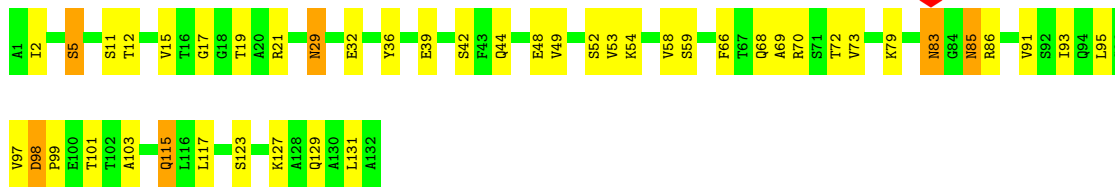


• Molecule 1: Coat protein

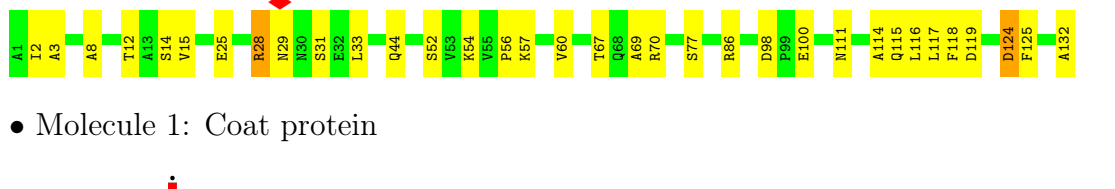
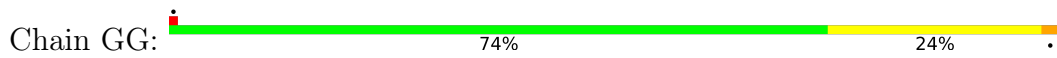




• Molecule 1: Coat protein



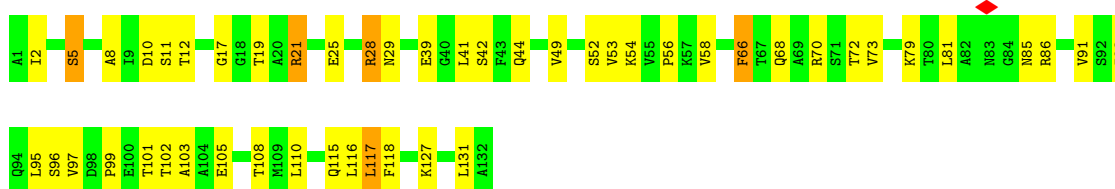
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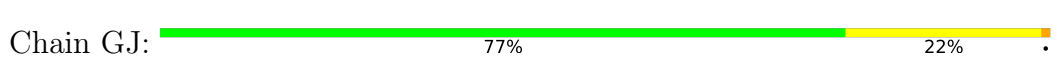
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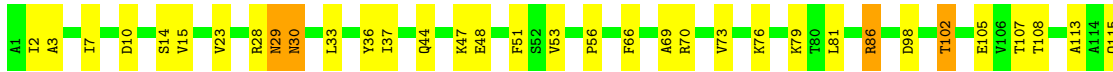


• Molecule 1: Coat protein





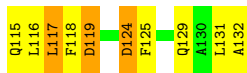
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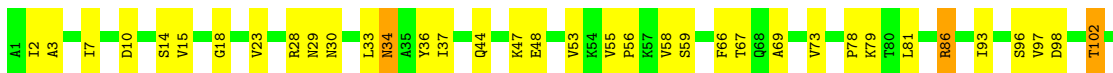
• Molecule 1: Coat protein



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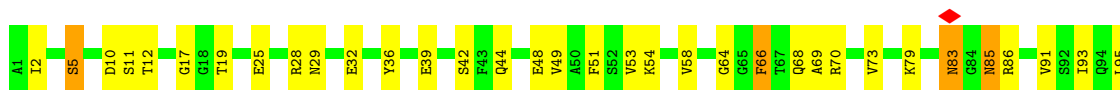


• Molecule 1: Coat protein

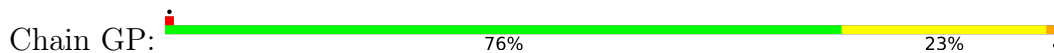


• Molecule 1: Coat protein





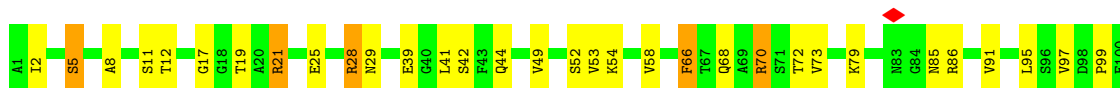
● Molecule 1: Coat protein



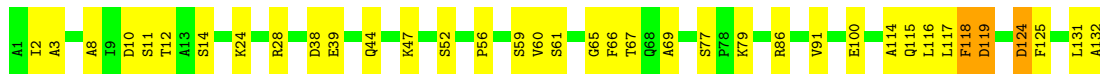
● Molecule 1: Coat protein



● Molecule 1: Coat protein



● Molecule 1: Coat protein

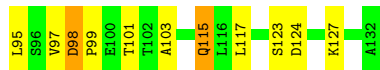


● Molecule 1: Coat protein

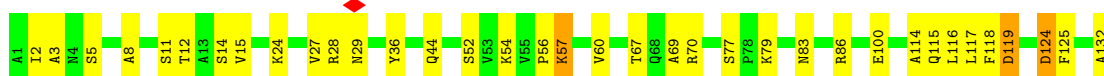
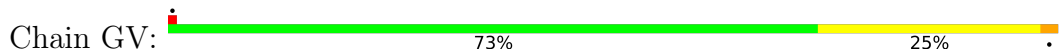




• Molecule 1: Coat protein



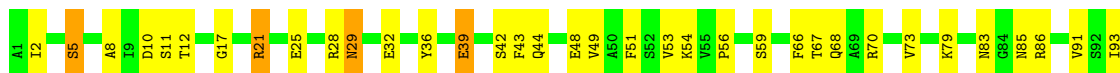
• Molecule 1: Coat protein



• Molecule 1: Coat protein



• Molecule 1: Coat protein



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	15154	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	1.4	Depositor
Minimum defocus (nm)	700	Depositor
Maximum defocus (nm)	1700	Depositor
Magnification	165000	Depositor
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.064	Depositor
Minimum map value	-0.032	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.003	Depositor
Recommended contour level	0.0107	Depositor
Map size (Å)	400.896, 400.896, 400.896	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.783, 0.783, 0.783	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	AA	0.31	0/990	0.60	2/1346 (0.1%)
1	AB	0.28	0/990	0.52	0/1346
1	AC	0.28	0/990	0.54	0/1346
1	AD	0.29	0/990	0.55	0/1346
1	AE	0.28	0/990	0.50	0/1346
1	AF	0.28	0/990	0.54	0/1346
1	AG	0.28	0/990	0.55	0/1346
1	AH	0.28	0/990	0.52	0/1346
1	AI	0.28	0/990	0.55	0/1346
1	AJ	0.31	0/990	0.60	2/1346 (0.1%)
1	AK	0.28	0/990	0.53	0/1346
1	AL	0.27	0/990	0.54	0/1346
1	AM	0.28	0/990	0.55	0/1346
1	AN	0.29	0/990	0.52	0/1346
1	AO	0.28	0/990	0.54	0/1346
1	AP	0.28	0/990	0.55	0/1346
1	AQ	0.29	0/990	0.52	0/1346
1	AR	0.27	0/990	0.54	0/1346
1	AS	0.28	0/990	0.54	0/1346
1	AT	0.28	0/990	0.51	0/1346
1	AU	0.28	0/990	0.55	0/1346
1	AV	0.31	0/990	0.60	2/1346 (0.1%)
1	AW	0.28	0/990	0.52	0/1346
1	AX	0.28	0/990	0.54	0/1346
1	AY	0.28	0/990	0.55	0/1346
1	AZ	0.29	0/990	0.52	0/1346
1	BA	0.28	0/990	0.54	0/1346
1	BB	0.28	0/990	0.55	0/1346
1	BC	0.28	0/990	0.52	0/1346
1	BD	0.28	0/990	0.55	0/1346
1	BE	0.28	0/990	0.55	0/1346
1	BF	0.28	0/990	0.52	0/1346
1	BG	0.27	0/990	0.54	0/1346
1	BH	0.29	0/990	0.55	0/1346



Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	BI	0.29	0/990	0.51	0/1346
1	BJ	0.28	0/990	0.54	0/1346
1	BK	0.28	0/990	0.55	0/1346
1	BL	0.29	0/990	0.52	0/1346
1	BM	0.28	0/990	0.53	0/1346
1	BN	0.28	0/990	0.54	0/1346
1	BO	0.28	0/990	0.51	0/1346
1	BP	0.28	0/990	0.55	0/1346
1	BQ	0.28	0/990	0.55	0/1346
1	BR	0.29	0/990	0.52	0/1346
1	BS	0.27	0/990	0.54	0/1346
1	BT	0.28	0/990	0.55	0/1346
1	BU	0.29	0/990	0.52	0/1346
1	BV	0.28	0/990	0.54	0/1346
1	BW	0.29	0/990	0.55	0/1346
1	BX	0.28	0/990	0.50	0/1346
1	BY	0.28	0/990	0.54	0/1346
1	BZ	0.31	0/990	0.60	2/1346 (0.1%)
1	CA	0.28	0/990	0.52	0/1346
1	CB	0.27	0/990	0.54	0/1346
1	CC	0.28	0/990	0.56	0/1346
1	CD	0.29	0/990	0.51	0/1346
1	CE	0.27	0/990	0.54	0/1346
1	CF	0.28	0/990	0.55	0/1346
1	CG	0.29	0/990	0.52	0/1346
1	CH	0.28	0/990	0.53	0/1346
1	CI	0.29	0/990	0.55	0/1346
1	CJ	0.28	0/990	0.50	0/1346
1	CK	0.28	0/990	0.54	0/1346
1	CL	0.28	0/990	0.56	0/1346
1	CM	0.29	0/990	0.52	0/1346
1	CN	0.27	0/990	0.54	0/1346
1	CO	0.31	0/990	0.60	2/1346 (0.1%)
1	CP	0.28	0/990	0.52	0/1346
1	CQ	0.27	0/990	0.54	0/1346
1	CR	0.28	0/990	0.54	0/1346
1	CS	0.28	0/990	0.52	0/1346
1	CT	0.28	0/990	0.56	1/1346 (0.1%)
1	CU	0.29	0/990	0.55	0/1346
1	CV	0.28	0/990	0.50	0/1346
1	CW	0.28	0/990	0.54	0/1346
1	CX	0.28	0/990	0.55	0/1346
1	CY	0.29	0/990	0.51	0/1346

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	CZ	0.27	0/990	0.54	0/1346
1	DA	0.31	0/990	0.60	2/1346 (0.1%)
1	DB	0.28	0/990	0.52	0/1346
1	DC	0.27	0/990	0.54	0/1346
1	DD	0.29	0/990	0.55	0/1346
1	DE	0.28	0/990	0.50	0/1346
1	DF	0.28	0/990	0.54	0/1346
1	DG	0.28	0/990	0.55	0/1346
1	DH	0.28	0/990	0.52	0/1346
1	DI	0.28	0/990	0.55	0/1346
1	DJ	0.28	0/990	0.55	0/1346
1	DK	0.28	0/990	0.52	0/1346
1	DL	0.27	0/990	0.54	0/1346
1	DM	0.32	0/990	0.60	2/1346 (0.1%)
1	DN	0.28	0/990	0.53	0/1346
1	DO	0.27	0/990	0.54	0/1346
1	DP	0.28	0/990	0.55	0/1346
1	DQ	0.28	0/990	0.52	0/1346
1	DR	0.28	0/990	0.56	1/1346 (0.1%)
1	DS	0.29	0/990	0.55	0/1346
1	DT	0.29	0/990	0.51	0/1346
1	DU	0.28	0/990	0.54	0/1346
1	DV	0.31	0/990	0.60	2/1346 (0.1%)
1	DW	0.29	0/990	0.53	0/1346
1	DX	0.28	0/990	0.53	0/1346
1	DY	0.28	0/990	0.55	0/1346
1	DZ	0.28	0/990	0.51	0/1346
1	EA	0.27	0/990	0.53	0/1346
1	EB	0.28	0/990	0.54	0/1346
1	EC	0.28	0/990	0.51	0/1346
1	ED	0.28	0/990	0.53	0/1346
1	EE	0.29	0/990	0.54	0/1346
1	EF	0.28	0/990	0.51	0/1346
1	EG	0.28	0/990	0.54	0/1346
1	EH	0.31	0/990	0.60	2/1346 (0.1%)
1	EI	0.28	0/990	0.53	0/1346
1	EJ	0.27	0/990	0.53	0/1346
1	EK	0.28	0/990	0.55	0/1346
1	EL	0.29	0/990	0.51	0/1346
1	EM	0.27	0/990	0.53	0/1346
1	EN	0.29	0/990	0.55	0/1346
1	EO	0.29	0/990	0.51	0/1346
1	EP	0.28	0/990	0.53	0/1346

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	EQ	0.28	0/990	0.54	0/1346
1	ER	0.28	0/990	0.51	0/1346
1	ES	0.28	0/990	0.54	0/1346
1	ET	0.28	0/990	0.54	0/1346
1	EU	0.28	0/990	0.53	0/1346
1	EV	0.28	0/990	0.53	0/1346
1	EW	0.28	0/990	0.55	0/1346
1	EX	0.28	0/990	0.51	0/1346
1	EY	0.28	0/990	0.53	0/1346
1	EZ	0.29	0/990	0.55	0/1346
1	FA	0.28	0/990	0.51	0/1346
1	FB	0.28	0/990	0.54	0/1346
1	FC	0.28	0/990	0.54	0/1346
1	FD	0.28	0/990	0.52	0/1346
1	FE	0.27	0/990	0.54	0/1346
1	FF	0.28	0/990	0.55	0/1346
1	FG	0.28	0/990	0.51	0/1346
1	FH	0.27	0/990	0.53	0/1346
1	FI	0.28	0/990	0.54	0/1346
1	FJ	0.28	0/990	0.53	0/1346
1	FK	0.28	0/990	0.53	0/1346
1	FL	0.31	0/990	0.60	2/1346 (0.1%)
1	FM	0.28	0/990	0.53	0/1346
1	FN	0.27	0/990	0.53	0/1346
1	FO	0.28	0/990	0.54	0/1346
1	FP	0.28	0/990	0.51	0/1346
1	FQ	0.28	0/990	0.54	0/1346
1	FR	0.28	0/990	0.55	0/1346
1	FS	0.28	0/990	0.51	0/1346
1	FT	0.28	0/990	0.53	0/1346
1	FU	0.28	0/990	0.54	0/1346
1	FV	0.28	0/990	0.53	0/1346
1	FW	0.28	0/990	0.53	0/1346
1	FX	0.28	0/990	0.54	0/1346
1	FY	0.28	0/990	0.51	0/1346
1	FZ	0.28	0/990	0.54	0/1346
1	GA	0.31	0/990	0.60	2/1346 (0.1%)
1	GB	0.28	0/990	0.53	0/1346
1	GC	0.27	0/990	0.53	0/1346
1	GD	0.29	0/990	0.55	0/1346
1	GE	0.28	0/990	0.51	0/1346
1	GF	0.28	0/990	0.53	0/1346
1	GG	0.28	0/990	0.54	0/1346

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	GH	0.28	0/990	0.52	0/1346
1	GI	0.28	0/990	0.55	1/1346 (0.1%)
1	GJ	0.28	0/990	0.54	0/1346
1	GK	0.28	0/990	0.52	0/1346
1	GL	0.27	0/990	0.54	0/1346
1	GM	0.31	0/990	0.60	2/1346 (0.1%)
1	GN	0.28	0/990	0.52	0/1346
1	GO	0.27	0/990	0.53	0/1346
1	GP	0.28	0/990	0.54	0/1346
1	GQ	0.28	0/990	0.53	0/1346
1	GR	0.28	0/990	0.53	0/1346
1	GS	0.29	0/990	0.55	0/1346
1	GT	0.28	0/990	0.51	0/1346
1	GU	0.28	0/990	0.53	0/1346
1	GV	0.28	0/990	0.55	0/1346
1	GW	0.28	0/990	0.51	0/1346
1	GX	0.28	0/990	0.54	0/1346
All	All	0.28	0/178200	0.54	27/242280 (0.0%)

There are no bond length outliers.

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	CO	63	PRO	N-CD-CG	-6.60	93.30	103.20
1	DA	63	PRO	N-CD-CG	-6.60	93.30	103.20
1	GA	63	PRO	N-CD-CG	-6.60	93.30	103.20
1	AA	63	PRO	N-CD-CG	-6.58	93.33	103.20
1	DV	63	PRO	N-CD-CG	-6.58	93.33	103.20
1	EH	63	PRO	N-CD-CG	-6.58	93.33	103.20
1	FL	63	PRO	N-CD-CG	-6.58	93.33	103.20
1	GM	63	PRO	N-CD-CG	-6.58	93.33	103.20
1	BZ	63	PRO	N-CD-CG	-6.56	93.36	103.20
1	DM	63	PRO	N-CD-CG	-6.56	93.36	103.20
1	AV	63	PRO	N-CD-CG	-6.56	93.36	103.20
1	AJ	63	PRO	N-CD-CG	-6.54	93.38	103.20
1	AV	63	PRO	CA-N-CD	-6.29	102.69	111.50
1	CT	117	LEU	CA-CB-CG	6.25	129.69	115.30
1	BZ	63	PRO	CA-N-CD	-6.25	102.75	111.50
1	GA	63	PRO	CA-N-CD	-6.25	102.76	111.50
1	DM	63	PRO	CA-N-CD	-6.24	102.76	111.50
1	DR	117	LEU	CA-CB-CG	6.24	129.65	115.30
1	EH	63	PRO	CA-N-CD	-6.24	102.77	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	FL	63	PRO	CA-N-CD	-6.24	102.77	111.50
1	AA	63	PRO	CA-N-CD	-6.24	102.77	111.50
1	DV	63	PRO	CA-N-CD	-6.24	102.77	111.50
1	GM	63	PRO	CA-N-CD	-6.24	102.77	111.50
1	DA	63	PRO	CA-N-CD	-6.23	102.78	111.50
1	AJ	63	PRO	CA-N-CD	-6.22	102.79	111.50
1	CO	63	PRO	CA-N-CD	-6.22	102.79	111.50
1	GI	117	LEU	CA-CB-CG	6.01	129.11	115.30

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	978	0	988	28	0
1	AB	978	0	988	31	0
1	AC	978	0	988	43	0
1	AD	978	0	988	24	0
1	AE	978	0	988	28	0
1	AF	978	0	988	37	0
1	AG	978	0	988	21	0
1	AH	978	0	988	29	0
1	AI	978	0	988	44	0
1	AJ	978	0	988	26	0
1	AK	978	0	988	33	0
1	AL	978	0	988	40	0
1	AM	978	0	988	21	0
1	AN	978	0	988	25	0
1	AO	978	0	988	44	0
1	AP	978	0	988	23	0
1	AQ	978	0	988	27	0
1	AR	978	0	988	40	0
1	AS	978	0	988	18	0
1	AT	978	0	988	28	0
1	AU	978	0	988	42	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AV	978	0	988	29	0
1	AW	978	0	988	29	0
1	AX	978	0	988	45	0
1	AY	978	0	988	22	0
1	AZ	978	0	988	25	0
1	BA	978	0	988	43	0
1	BB	978	0	988	23	0
1	BC	978	0	988	31	0
1	BD	978	0	988	42	0
1	BE	978	0	988	24	0
1	BF	978	0	988	27	0
1	BG	978	0	988	40	0
1	BH	978	0	988	25	0
1	BI	978	0	988	27	0
1	BJ	978	0	988	38	0
1	BK	978	0	988	20	0
1	BL	978	0	988	24	0
1	BM	978	0	988	39	0
1	BN	978	0	988	17	0
1	BO	978	0	988	27	0
1	BP	978	0	988	43	0
1	BQ	978	0	988	27	0
1	BR	978	0	988	27	0
1	BS	978	0	988	41	0
1	BT	978	0	988	22	0
1	BU	978	0	988	25	0
1	BV	978	0	988	41	0
1	BW	978	0	988	27	0
1	BX	978	0	988	27	0
1	BY	978	0	988	41	0
1	BZ	978	0	988	28	0
1	CA	978	0	988	34	0
1	CB	978	0	988	40	0
1	CC	978	0	988	25	0
1	CD	978	0	988	25	0
1	CE	978	0	988	36	0
1	CF	978	0	988	21	0
1	CG	978	0	988	24	0
1	CH	978	0	988	43	0
1	CI	978	0	988	23	0
1	CJ	978	0	988	25	0
1	CK	978	0	988	42	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	CL	978	0	988	23	0
1	CM	978	0	988	26	0
1	CN	978	0	988	36	0
1	CO	978	0	988	29	0
1	CP	978	0	988	34	0
1	CQ	978	0	988	40	0
1	CR	978	0	988	21	0
1	CS	978	0	988	27	0
1	CT	978	0	988	38	0
1	CU	978	0	988	24	0
1	CV	978	0	988	26	0
1	CW	978	0	988	42	0
1	CX	978	0	988	23	0
1	CY	978	0	988	25	0
1	CZ	978	0	988	39	0
1	DA	978	0	988	29	0
1	DB	978	0	988	30	0
1	DC	978	0	988	41	0
1	DD	978	0	988	26	0
1	DE	978	0	988	28	0
1	DF	978	0	988	41	0
1	DG	978	0	988	21	0
1	DH	978	0	988	29	0
1	DI	978	0	988	38	0
1	DJ	978	0	988	18	0
1	DK	978	0	988	26	0
1	DL	978	0	988	45	0
1	DM	978	0	988	27	0
1	DN	978	0	988	35	0
1	DO	978	0	988	41	0
1	DP	978	0	988	19	0
1	DQ	978	0	988	28	0
1	DR	978	0	988	39	0
1	DS	978	0	988	21	0
1	DT	978	0	988	27	0
1	DU	978	0	988	41	0
1	DV	978	0	988	29	0
1	DW	978	0	988	34	0
1	DX	978	0	988	43	0
1	DY	978	0	988	28	0
1	DZ	978	0	988	28	0
1	EA	978	0	988	42	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	EB	978	0	988	20	0
1	EC	978	0	988	25	0
1	ED	978	0	988	39	0
1	EE	978	0	988	23	0
1	EF	978	0	988	28	0
1	EG	978	0	988	43	0
1	EH	978	0	988	29	0
1	EI	978	0	988	38	0
1	EJ	978	0	988	38	0
1	EK	978	0	988	31	0
1	EL	978	0	988	30	0
1	EM	978	0	988	40	0
1	EN	978	0	988	23	0
1	EO	978	0	988	27	0
1	EP	978	0	988	41	0
1	EQ	978	0	988	21	0
1	ER	978	0	988	25	0
1	ES	978	0	988	39	0
1	ET	978	0	988	18	0
1	EU	978	0	988	28	0
1	EV	978	0	988	39	0
1	EW	978	0	988	27	0
1	EX	978	0	988	28	0
1	EY	978	0	988	38	0
1	EZ	978	0	988	17	0
1	FA	978	0	988	27	0
1	FB	978	0	988	39	0
1	FC	978	0	988	16	0
1	FD	978	0	988	24	0
1	FE	978	0	988	45	0
1	FF	978	0	988	28	0
1	FG	978	0	988	29	0
1	FH	978	0	988	37	0
1	FI	978	0	988	18	0
1	FJ	978	0	988	28	0
1	FK	978	0	988	35	0
1	FL	978	0	988	31	0
1	FM	978	0	988	38	0
1	FN	978	0	988	36	0
1	FO	978	0	988	16	0
1	FP	978	0	988	24	0
1	FQ	978	0	988	43	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	FR	978	0	988	26	0
1	FS	978	0	988	25	0
1	FT	978	0	988	39	0
1	FU	978	0	988	21	0
1	FV	978	0	988	32	0
1	FW	978	0	988	37	0
1	FX	978	0	988	18	0
1	FY	978	0	988	23	0
1	FZ	978	0	988	44	0
1	GA	978	0	988	29	0
1	GB	978	0	988	39	0
1	GC	978	0	988	37	0
1	GD	978	0	988	22	0
1	GE	978	0	988	28	0
1	GF	978	0	988	38	0
1	GG	978	0	988	22	0
1	GH	978	0	988	33	0
1	GI	978	0	988	35	0
1	GJ	978	0	988	17	0
1	GK	978	0	988	22	0
1	GL	978	0	988	39	0
1	GM	978	0	988	30	0
1	GN	978	0	988	32	0
1	GO	978	0	988	35	0
1	GP	978	0	988	20	0
1	GQ	978	0	988	31	0
1	GR	978	0	988	32	0
1	GS	978	0	988	22	0
1	GT	978	0	988	27	0
1	GU	978	0	988	36	0
1	GV	978	0	988	26	0
1	GW	978	0	988	29	0
1	GX	978	0	988	40	0
All	All	176040	0	177840	4122	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 (4122) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DU:54:LYS:HB3	1:DU:70:ARG:HG3	1.47	0.97
1:BJ:54:LYS:HB3	1:BJ:70:ARG:HG3	1.47	0.94
1:CE:54:LYS:HB3	1:CE:70:ARG:HG3	1.49	0.93
1:CN:54:LYS:HB3	1:CN:70:ARG:HG3	1.49	0.93
1:AB:78:PRO:HB3	1:AB:86:ARG:HH12	1.33	0.93
1:DB:78:PRO:HB3	1:DB:86:ARG:HH12	1.33	0.92
1:AK:78:PRO:HB3	1:AK:86:ARG:HH12	1.35	0.92
1:CZ:54:LYS:HB3	1:CZ:70:ARG:HG3	1.49	0.92
1:AR:54:LYS:HB3	1:AR:70:ARG:HG3	1.49	0.92
1:BS:54:LYS:HB3	1:BS:70:ARG:HG3	1.49	0.91
1:AW:78:PRO:HB3	1:AW:86:ARG:HH12	1.33	0.91
1:BG:54:LYS:HB3	1:BG:70:ARG:HG3	1.49	0.91
1:CP:78:PRO:HB3	1:CP:86:ARG:HH12	1.35	0.90
1:CA:78:PRO:HB3	1:CA:86:ARG:HH12	1.35	0.89
1:DR:54:LYS:HB3	1:DR:70:ARG:HG3	1.54	0.89
1:DN:78:PRO:HB3	1:DN:86:ARG:HH12	1.35	0.89
1:DW:78:PRO:HB3	1:DW:86:ARG:HH12	1.36	0.89
1:CK:54:LYS:HB3	1:CK:70:ARG:HG3	1.56	0.88
1:BY:54:LYS:HB3	1:BY:70:ARG:HG3	1.56	0.88
1:BV:54:LYS:HB3	1:BV:70:ARG:HB2	1.56	0.87
1:CT:54:LYS:HB3	1:CT:70:ARG:HG3	1.54	0.87
1:DI:54:LYS:HB3	1:DI:70:ARG:HG3	1.54	0.87
1:CH:54:LYS:HB3	1:CH:70:ARG:HB2	1.56	0.87
1:EI:78:PRO:HB3	1:EI:86:ARG:HH12	1.40	0.87
1:GN:78:PRO:HB3	1:GN:86:ARG:HH12	1.41	0.86
1:BM:54:LYS:HB3	1:BM:70:ARG:HB2	1.58	0.86
1:CW:54:LYS:HB3	1:CW:70:ARG:HG3	1.56	0.86
1:DF:54:LYS:HB3	1:DF:70:ARG:HG3	1.56	0.86
1:GB:78:PRO:HB3	1:GB:86:ARG:HH12	1.41	0.86
1:FM:78:PRO:HB3	1:FM:86:ARG:HH12	1.40	0.85
1:DL:54:LYS:HB3	1:DL:70:ARG:HB2	1.56	0.85
1:AO:54:LYS:HB3	1:AO:70:ARG:HB2	1.56	0.85
1:CQ:54:LYS:HB3	1:CQ:70:ARG:HB2	1.60	0.84
1:CB:54:LYS:HB3	1:CB:70:ARG:HB2	1.60	0.84
1:DX:54:LYS:HB3	1:DX:70:ARG:HB2	1.60	0.84
1:DO:54:LYS:HB3	1:DO:70:ARG:HB2	1.60	0.84
1:DC:54:LYS:HB3	1:DC:70:ARG:HB2	1.60	0.83
1:EJ:54:LYS:HB3	1:EJ:70:ARG:HG3	1.60	0.83
1:AX:54:LYS:HB3	1:AX:70:ARG:HB2	1.60	0.83
1:FL:100:GLU:HG2	1:FS:44:GLN:HE22	1.43	0.83
1:BZ:100:GLU:HG2	1:EL:44:GLN:HE22	1.43	0.83
1:GO:54:LYS:HB3	1:GO:70:ARG:HG3	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:100:GLU:HG2	1:EX:44:GLN:HE22	1.43	0.82
1:EH:100:GLU:HG2	1:FG:44:GLN:HE22	1.43	0.82
1:GC:54:LYS:HB3	1:GC:70:ARG:HG3	1.60	0.82
1:FN:54:LYS:HB3	1:FN:70:ARG:HG3	1.60	0.82
1:AF:54:LYS:HB3	1:AF:70:ARG:HG3	1.60	0.82
1:AC:54:LYS:HB3	1:AC:70:ARG:HB2	1.60	0.81
1:BA:54:LYS:HB3	1:BA:70:ARG:HB2	1.58	0.81
1:AL:54:LYS:HB3	1:AL:70:ARG:HB2	1.60	0.81
1:DM:100:GLU:HG2	1:DZ:44:GLN:HE22	1.43	0.81
1:DV:100:GLU:HG2	1:GW:44:GLN:HE22	1.43	0.81
1:AJ:100:GLU:HG2	1:BF:44:GLN:HE22	1.43	0.80
1:AA:100:GLU:HG2	1:AQ:44:GLN:HE22	1.43	0.80
1:DS:121:ASP:N	1:DS:121:ASP:OD1	2.17	0.77
1:CI:121:ASP:N	1:CI:121:ASP:OD1	2.17	0.77
1:DA:121:ASP:OD1	1:DA:121:ASP:N	2.18	0.77
1:DD:121:ASP:N	1:DD:121:ASP:OD1	2.17	0.77
1:CU:121:ASP:OD1	1:CU:121:ASP:N	2.18	0.77
1:DM:121:ASP:N	1:DM:121:ASP:OD1	2.18	0.77
1:DV:121:ASP:N	1:DV:121:ASP:OD1	2.18	0.77
1:EG:54:LYS:HB3	1:EG:70:ARG:HG3	1.67	0.77
1:EP:54:LYS:HB3	1:EP:70:ARG:HG3	1.67	0.77
1:AJ:121:ASP:N	1:AJ:121:ASP:OD1	2.18	0.76
1:GL:79:LYS:HE2	1:GU:101:THR:HA	1.67	0.76
1:AA:121:ASP:OD1	1:AA:121:ASP:N	2.18	0.76
1:BW:121:ASP:N	1:BW:121:ASP:OD1	2.17	0.76
1:EU:78:PRO:HB3	1:EU:86:ARG:NH1	2.01	0.76
1:BH:121:ASP:OD1	1:BH:121:ASP:N	2.18	0.76
1:FJ:78:PRO:HB3	1:FJ:86:ARG:NH1	2.01	0.76
1:BZ:121:ASP:N	1:BZ:121:ASP:OD1	2.18	0.76
1:DW:78:PRO:HB3	1:DW:86:ARG:NH1	2.00	0.76
1:AB:78:PRO:HB3	1:AB:86:ARG:NH1	2.01	0.76
1:AD:121:ASP:OD1	1:AD:121:ASP:N	2.17	0.76
1:CX:121:ASP:OD1	1:CX:121:ASP:N	2.18	0.76
1:BE:121:ASP:OD1	1:BE:121:ASP:N	2.18	0.76
1:AG:121:ASP:N	1:AG:121:ASP:OD1	2.18	0.76
1:AK:78:PRO:HB3	1:AK:86:ARG:NH1	2.01	0.76
1:BQ:121:ASP:OD1	1:BQ:121:ASP:N	2.18	0.76
1:CO:121:ASP:OD1	1:CO:121:ASP:N	2.18	0.76
1:DL:79:LYS:HE2	1:EP:101:THR:HA	1.68	0.76
1:GQ:78:PRO:HB3	1:GQ:86:ARG:NH1	2.01	0.76
1:DG:121:ASP:N	1:DG:121:ASP:OD1	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GH:78:PRO:HB3	1:GH:86:ARG:NH1	2.01	0.76
1:AP:121:ASP:N	1:AP:121:ASP:OD1	2.18	0.75
1:BC:78:PRO:HB3	1:BC:86:ARG:NH1	2.02	0.75
1:CT:117:LEU:HB2	1:FK:110:LEU:HD22	1.69	0.75
1:FV:78:PRO:HB3	1:FV:86:ARG:NH1	2.01	0.75
1:AS:121:ASP:N	1:AS:121:ASP:OD1	2.18	0.75
1:AT:78:PRO:HB3	1:AT:86:ARG:NH1	2.02	0.75
1:BM:44:GLN:O	1:BM:86:ARG:NH1	2.20	0.75
1:CR:121:ASP:OD1	1:CR:121:ASP:N	2.18	0.75
1:AY:121:ASP:N	1:AY:121:ASP:OD1	2.19	0.75
1:BV:44:GLN:O	1:BV:86:ARG:NH1	2.20	0.75
1:DN:78:PRO:HB3	1:DN:86:ARG:NH1	2.01	0.75
1:GF:54:LYS:HB3	1:GF:70:ARG:HG3	1.67	0.75
1:BB:121:ASP:OD1	1:BB:121:ASP:N	2.18	0.75
1:CP:78:PRO:HB3	1:CP:86:ARG:NH1	2.01	0.75
1:AO:79:LYS:HE2	1:EG:101:THR:HA	1.69	0.75
1:AV:121:ASP:N	1:AV:121:ASP:OD1	2.18	0.75
1:CA:78:PRO:HB3	1:CA:86:ARG:NH1	2.01	0.75
1:BN:121:ASP:OD1	1:BN:121:ASP:N	2.18	0.75
1:GI:21:ARG:HE	1:GI:39:GLU:HA	1.52	0.75
1:BD:21:ARG:HE	1:BD:39:GLU:HA	1.52	0.75
1:BK:121:ASP:OD1	1:BK:121:ASP:N	2.19	0.75
1:BT:121:ASP:N	1:BT:121:ASP:OD1	2.19	0.75
1:BV:79:LYS:HE2	1:FB:101:THR:HA	1.69	0.75
1:DJ:121:ASP:N	1:DJ:121:ASP:OD1	2.19	0.75
1:GQ:78:PRO:HB3	1:GQ:86:ARG:HH12	1.52	0.75
1:AM:121:ASP:N	1:AM:121:ASP:OD1	2.19	0.74
1:AU:21:ARG:HE	1:AU:39:GLU:HA	1.52	0.74
1:CH:44:GLN:O	1:CH:86:ARG:NH1	2.20	0.74
1:AI:21:ARG:HE	1:AI:39:GLU:HA	1.52	0.74
1:DP:121:ASP:N	1:DP:121:ASP:OD1	2.18	0.74
1:BA:44:GLN:O	1:BA:86:ARG:NH1	2.20	0.74
1:CS:78:PRO:HB3	1:CS:86:ARG:NH1	2.02	0.74
1:GH:78:PRO:HB3	1:GH:86:ARG:HH12	1.52	0.74
1:AO:44:GLN:O	1:AO:86:ARG:NH1	2.20	0.74
1:DH:78:PRO:HB3	1:DH:86:ARG:NH1	2.02	0.74
1:DL:44:GLN:O	1:DL:86:ARG:NH1	2.20	0.74
1:DQ:78:PRO:HB3	1:DQ:86:ARG:NH1	2.02	0.74
1:FT:54:LYS:HB3	1:FT:70:ARG:HG3	1.70	0.74
1:AH:78:PRO:HB3	1:AH:86:ARG:NH1	2.02	0.74
1:DB:78:PRO:HB3	1:DB:86:ARG:NH1	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:78:PRO:HB3	1:AW:86:ARG:NH1	2.01	0.74
1:BO:78:PRO:HB3	1:BO:86:ARG:NH1	2.02	0.74
1:CC:121:ASP:N	1:CC:121:ASP:OD1	2.18	0.74
1:CL:121:ASP:OD1	1:CL:121:ASP:N	2.18	0.74
1:EU:78:PRO:HB3	1:EU:86:ARG:HH12	1.52	0.74
1:CH:79:LYS:HE2	1:GF:101:THR:HA	1.68	0.74
1:EM:54:LYS:HB3	1:EM:70:ARG:HG3	1.70	0.74
1:FJ:78:PRO:HB3	1:FJ:86:ARG:HH12	1.52	0.74
1:EY:54:LYS:HB3	1:EY:70:ARG:HG3	1.70	0.74
1:FH:54:LYS:HB3	1:FH:70:ARG:HG3	1.70	0.74
1:GN:78:PRO:HB3	1:GN:86:ARG:NH1	2.03	0.74
1:EV:21:ARG:HE	1:EV:39:GLU:HA	1.52	0.73
1:FV:78:PRO:HB3	1:FV:86:ARG:HH12	1.52	0.73
1:GB:78:PRO:HB3	1:GB:86:ARG:NH1	2.03	0.73
1:FM:78:PRO:HB3	1:FM:86:ARG:NH1	2.03	0.73
1:FW:21:ARG:HE	1:FW:39:GLU:HA	1.53	0.73
1:CK:11:SER:HA	1:FZ:17:GLY:HA3	1.70	0.73
1:GR:21:ARG:HE	1:GR:39:GLU:HA	1.53	0.73
1:DR:117:LEU:HB2	1:FW:110:LEU:HD22	1.68	0.73
1:DU:11:SER:HA	1:FQ:17:GLY:HA3	1.71	0.73
1:EI:78:PRO:HB3	1:EI:86:ARG:NH1	2.03	0.73
1:AC:83:ASN:ND2	1:AC:85:ASN:OD1	2.22	0.73
1:BP:21:ARG:HE	1:BP:39:GLU:HA	1.52	0.73
1:FN:83:ASN:ND2	1:FN:85:ASN:OD1	2.22	0.73
1:BY:11:SER:HA	1:FE:17:GLY:HA3	1.70	0.73
1:GC:83:ASN:ND2	1:GC:85:ASN:OD1	2.22	0.73
1:GU:54:LYS:HB3	1:GU:70:ARG:HG3	1.68	0.73
1:DR:21:ARG:HE	1:DR:39:GLU:HA	1.52	0.72
1:AF:11:SER:HA	1:BM:17:GLY:HA3	1.71	0.72
1:AX:83:ASN:ND2	1:AX:85:ASN:OD1	2.22	0.72
1:AL:83:ASN:ND2	1:AL:85:ASN:OD1	2.22	0.72
1:AX:93:ILE:HG21	1:BG:117:LEU:HD21	1.71	0.72
1:BA:17:GLY:HA3	1:BJ:11:SER:HA	1.71	0.72
1:DO:83:ASN:ND2	1:DO:85:ASN:OD1	2.22	0.72
1:AU:11:SER:HA	1:BD:17:GLY:HA3	1.71	0.72
1:CH:93:ILE:HG21	1:GF:117:LEU:HD21	1.71	0.72
1:CT:21:ARG:HE	1:CT:39:GLU:HA	1.52	0.72
1:DX:83:ASN:ND2	1:DX:85:ASN:OD1	2.22	0.72
1:FB:54:LYS:HB3	1:FB:70:ARG:HG3	1.70	0.72
1:FK:21:ARG:HE	1:FK:39:GLU:HA	1.53	0.72
1:AC:93:ILE:HG21	1:BS:117:LEU:HD21	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:17:GLY:HA3	1:BD:11:SER:HA	1.72	0.72
1:BA:93:ILE:HG21	1:BJ:117:LEU:HD21	1.71	0.72
1:DI:21:ARG:HE	1:DI:39:GLU:HA	1.52	0.72
1:CZ:117:LEU:HD21	1:DX:93:ILE:HG21	1.71	0.72
1:AI:17:GLY:HA3	1:BP:11:SER:HA	1.71	0.72
1:CB:83:ASN:ND2	1:CB:85:ASN:OD1	2.22	0.72
1:AI:11:SER:HA	1:BP:17:GLY:HA3	1.72	0.72
1:BA:79:LYS:HE2	1:BJ:101:THR:HA	1.72	0.72
1:CQ:83:ASN:ND2	1:CQ:85:ASN:OD1	2.22	0.72
1:CT:11:SER:HA	1:FK:17:GLY:HA3	1.71	0.72
1:EA:54:LYS:HB3	1:EA:70:ARG:HG3	1.70	0.72
1:AI:54:LYS:HB3	1:AI:70:ARG:HG3	1.72	0.71
1:AU:54:LYS:HB3	1:AU:70:ARG:HG3	1.72	0.71
1:DR:11:SER:HA	1:FW:17:GLY:HA3	1.71	0.71
1:GX:54:LYS:HB3	1:GX:70:ARG:HG3	1.70	0.71
1:BP:54:LYS:HB3	1:BP:70:ARG:HG3	1.72	0.71
1:CF:121:ASP:N	1:CF:121:ASP:OD1	2.19	0.71
1:CT:17:GLY:HA3	1:FK:11:SER:HA	1.71	0.71
1:CW:101:THR:HA	1:ED:79:LYS:HE2	1.73	0.71
1:DI:11:SER:HA	1:EV:17:GLY:HA3	1.71	0.71
1:AO:93:ILE:HG21	1:EG:117:LEU:HD21	1.71	0.71
1:BD:54:LYS:HB3	1:BD:70:ARG:HG3	1.72	0.71
1:BQ:8:ALA:O	1:BQ:115:GLN:NE2	2.21	0.71
1:DF:101:THR:HA	1:ES:79:LYS:HE2	1.73	0.71
1:DI:17:GLY:HA3	1:EV:11:SER:HA	1.71	0.71
1:DL:93:ILE:HG21	1:EP:117:LEU:HD21	1.71	0.71
1:BV:17:GLY:HA3	1:FB:11:SER:HA	1.72	0.71
1:EJ:83:ASN:ND2	1:EJ:85:ASN:OD1	2.23	0.71
1:GO:83:ASN:ND2	1:GO:85:ASN:OD1	2.22	0.71
1:AH:78:PRO:HB3	1:AH:86:ARG:HH12	1.56	0.71
1:DF:11:SER:HA	1:ES:17:GLY:HA3	1.70	0.71
1:AO:11:SER:HA	1:EG:17:GLY:HA3	1.73	0.71
1:BV:93:ILE:HG21	1:FB:117:LEU:HD21	1.71	0.71
1:DC:83:ASN:ND2	1:DC:85:ASN:OD1	2.22	0.71
1:DH:78:PRO:HB3	1:DH:86:ARG:HH12	1.56	0.71
1:AF:117:LEU:HD21	1:BM:93:ILE:HG21	1.71	0.70
1:DR:17:GLY:HA3	1:FW:11:SER:HA	1.71	0.70
1:GI:117:LEU:HB2	1:GR:110:LEU:HD22	1.71	0.70
1:CW:11:SER:HA	1:ED:17:GLY:HA3	1.71	0.70
1:DL:11:SER:HA	1:EP:17:GLY:HA3	1.74	0.70
1:GI:11:SER:HA	1:GR:17:GLY:HA3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:101:THR:HA	1:BM:79:LYS:HE2	1.73	0.70
1:GI:17:GLY:HA3	1:GR:11:SER:HA	1.71	0.70
1:GL:93:ILE:HG21	1:GU:117:LEU:HD21	1.74	0.70
1:BO:78:PRO:HB3	1:BO:86:ARG:HH12	1.56	0.70
1:BS:28:ARG:HE	1:EU:28:ARG:HD2	1.57	0.70
1:CK:17:GLY:HA3	1:FZ:11:SER:HA	1.74	0.70
1:CS:78:PRO:HB3	1:CS:86:ARG:HH12	1.56	0.70
1:GL:17:GLY:HA3	1:GU:11:SER:HA	1.72	0.70
1:BA:11:SER:HA	1:BJ:17:GLY:HA3	1.73	0.70
1:CZ:11:SER:HA	1:DX:17:GLY:HA3	1.74	0.70
1:DL:17:GLY:HA3	1:EP:11:SER:HA	1.72	0.70
1:DQ:78:PRO:HB3	1:DQ:86:ARG:HH12	1.56	0.70
1:AO:17:GLY:HA3	1:EG:11:SER:HA	1.72	0.70
1:BV:11:SER:HA	1:FB:17:GLY:HA3	1.73	0.70
1:BY:101:THR:HA	1:FE:79:LYS:HE2	1.73	0.70
1:CE:11:SER:HA	1:GC:17:GLY:HA3	1.74	0.70
1:CN:11:SER:HA	1:FN:17:GLY:HA3	1.74	0.70
1:EM:28:ARG:HE	1:FJ:28:ARG:HD2	1.57	0.70
1:AR:28:ARG:HE	1:BC:28:ARG:HD2	1.56	0.70
1:BY:117:LEU:HD21	1:FE:93:ILE:HG21	1.74	0.70
1:GH:25:GLU:HG3	1:GH:33:LEU:HD11	1.74	0.70
1:AL:17:GLY:HA3	1:EM:11:SER:HA	1.74	0.70
1:AO:69:ALA:HB1	1:EG:129:GLN:HE22	1.57	0.70
1:BY:17:GLY:HA3	1:FE:11:SER:HA	1.74	0.70
1:CE:28:ARG:HE	1:DQ:28:ARG:HD2	1.56	0.70
1:CH:17:GLY:HA3	1:GF:11:SER:HA	1.72	0.70
1:DL:69:ALA:HB1	1:EP:129:GLN:HE22	1.57	0.70
1:AC:17:GLY:HA3	1:BS:11:SER:HA	1.74	0.69
1:DO:17:GLY:HA3	1:FT:11:SER:HA	1.74	0.69
1:BY:83:ASN:ND2	1:BY:85:ASN:OD1	2.25	0.69
1:CH:11:SER:HA	1:GF:17:GLY:HA3	1.74	0.69
1:BJ:83:ASN:ND2	1:BJ:85:ASN:OD1	2.25	0.69
1:CK:117:LEU:HD21	1:FZ:93:ILE:HG21	1.74	0.69
1:EA:28:ARG:HE	1:GQ:28:ARG:HD2	1.57	0.69
1:AF:83:ASN:ND2	1:AF:85:ASN:OD1	2.25	0.69
1:AR:11:SER:HA	1:EJ:17:GLY:HA3	1.74	0.69
1:BV:69:ALA:HB1	1:FB:129:GLN:HE22	1.57	0.69
1:DF:17:GLY:HA3	1:ES:11:SER:HA	1.74	0.69
1:DU:117:LEU:HD21	1:FQ:93:ILE:HG21	1.74	0.69
1:AX:17:GLY:HA3	1:BG:11:SER:HA	1.74	0.69
1:DG:8:ALA:O	1:DG:115:GLN:NE2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EG:83:ASN:ND2	1:EG:85:ASN:OD1	2.26	0.69
1:GQ:25:GLU:HG3	1:GQ:33:LEU:HD11	1.75	0.69
1:DF:83:ASN:ND2	1:DF:85:ASN:OD1	2.25	0.69
1:CC:132:ALA:HB2	1:CD:28:ARG:HH12	1.58	0.69
1:CK:83:ASN:ND2	1:CK:85:ASN:OD1	2.25	0.69
1:DM:28:ARG:NH1	1:DZ:25:GLU:OE1	2.22	0.69
1:EK:8:ALA:O	1:EK:115:GLN:NE2	2.24	0.69
1:AR:93:ILE:HG21	1:EJ:117:LEU:HD21	1.75	0.69
1:BH:8:ALA:O	1:BH:115:GLN:NE2	2.22	0.69
1:BO:25:GLU:HG3	1:BO:33:LEU:HD11	1.73	0.69
1:CH:69:ALA:HB1	1:GF:129:GLN:HE22	1.57	0.69
1:CQ:17:GLY:HA3	1:FH:11:SER:HA	1.74	0.69
1:DU:83:ASN:ND2	1:DU:85:ASN:OD1	2.25	0.69
1:DU:101:THR:HA	1:FQ:79:LYS:HE2	1.73	0.69
1:DV:28:ARG:NH1	1:GW:25:GLU:OE1	2.22	0.69
1:GO:117:LEU:HD21	1:GX:93:ILE:HG21	1.75	0.69
1:AC:117:LEU:HD21	1:BS:93:ILE:HG21	1.75	0.69
1:CQ:11:SER:HA	1:FH:17:GLY:HA3	1.75	0.69
1:EP:83:ASN:ND2	1:EP:85:ASN:OD1	2.26	0.69
1:FH:28:ARG:HE	1:FV:28:ARG:HD2	1.57	0.69
1:GF:83:ASN:ND2	1:GF:85:ASN:OD1	2.26	0.69
1:GU:83:ASN:ND2	1:GU:85:ASN:OD1	2.26	0.69
1:AF:17:GLY:HA3	1:BM:11:SER:HA	1.75	0.69
1:AM:129:GLN:HE22	1:AN:56:PRO:HD3	1.58	0.69
1:AT:25:GLU:HG3	1:AT:33:LEU:HD11	1.73	0.69
1:BE:8:ALA:O	1:BE:115:GLN:NE2	2.21	0.69
1:BH:132:ALA:HB2	1:BI:28:ARG:HH12	1.58	0.69
1:BW:8:ALA:O	1:BW:115:GLN:NE2	2.22	0.69
1:CB:11:SER:HA	1:EY:17:GLY:HA3	1.75	0.69
1:FB:83:ASN:ND2	1:FB:85:ASN:OD1	2.26	0.69
1:GL:11:SER:HA	1:GU:17:GLY:HA3	1.74	0.69
1:AP:8:ALA:O	1:AP:115:GLN:NE2	2.21	0.68
1:CK:101:THR:HA	1:FZ:79:LYS:HE2	1.73	0.68
1:DC:17:GLY:HA3	1:EA:11:SER:HA	1.74	0.68
1:AX:117:LEU:HD21	1:BG:93:ILE:HG21	1.75	0.68
1:BC:78:PRO:HB3	1:BC:86:ARG:HH12	1.56	0.68
1:DU:17:GLY:HA3	1:FQ:11:SER:HA	1.76	0.68
1:FF:132:ALA:HB2	1:FG:28:ARG:HH12	1.59	0.68
1:FJ:25:GLU:HG3	1:FJ:33:LEU:HD11	1.75	0.68
1:AX:11:SER:HA	1:BG:17:GLY:HA3	1.75	0.68
1:CX:132:ALA:HB2	1:CY:28:ARG:HH12	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FV:25:GLU:HG3	1:FV:33:LEU:HD11	1.75	0.68
1:GO:17:GLY:HA3	1:GX:11:SER:HA	1.74	0.68
1:AL:117:LEU:HD21	1:EM:93:ILE:HG21	1.76	0.68
1:AO:117:LEU:HD21	1:EG:93:ILE:HG21	1.76	0.68
1:AT:78:PRO:HB3	1:AT:86:ARG:HH12	1.56	0.68
1:AY:129:GLN:HE22	1:AZ:56:PRO:HD3	1.58	0.68
1:CB:17:GLY:HA3	1:EY:11:SER:HA	1.74	0.68
1:AJ:129:GLN:HE22	1:AK:56:PRO:HD3	1.59	0.68
1:CF:8:ALA:O	1:CF:115:GLN:NE2	2.22	0.68
1:CW:17:GLY:HA3	1:ED:11:SER:HA	1.75	0.68
1:AA:129:GLN:HE22	1:AB:56:PRO:HD3	1.59	0.68
1:CW:117:LEU:HD21	1:ED:93:ILE:HG21	1.74	0.68
1:DL:117:LEU:HD21	1:EP:93:ILE:HG21	1.76	0.68
1:DM:129:GLN:HE22	1:DN:56:PRO:HD3	1.59	0.68
1:BQ:132:ALA:HB2	1:BR:28:ARG:HH12	1.59	0.68
1:DF:117:LEU:HD21	1:ES:93:ILE:HG21	1.74	0.68
1:BE:132:ALA:HB2	1:BF:28:ARG:HH12	1.59	0.68
1:CL:132:ALA:HB2	1:CM:28:ARG:HH12	1.59	0.68
1:CZ:93:ILE:HG21	1:DX:117:LEU:HD21	1.75	0.68
1:DK:78:PRO:HB3	1:DK:86:ARG:NH1	2.09	0.68
1:DV:129:GLN:HE22	1:DW:56:PRO:HD3	1.59	0.68
1:EZ:132:ALA:HB2	1:FA:28:ARG:HH12	1.58	0.68
1:AN:78:PRO:HB3	1:AN:86:ARG:NH1	2.09	0.68
1:AR:17:GLY:HA3	1:EJ:11:SER:HA	1.76	0.68
1:AV:8:ALA:O	1:AV:115:GLN:NE2	2.22	0.68
1:BZ:28:ARG:NH1	1:EL:25:GLU:OE1	2.22	0.68
1:CN:93:ILE:HG21	1:FN:117:LEU:HD21	1.74	0.68
1:DM:8:ALA:O	1:DM:115:GLN:NE2	2.23	0.68
1:CE:17:GLY:HA3	1:GC:11:SER:HA	1.76	0.68
1:DC:117:LEU:HD21	1:EA:93:ILE:HG21	1.76	0.68
1:DO:117:LEU:HD21	1:FT:93:ILE:HG21	1.76	0.68
1:CN:17:GLY:HA3	1:FN:11:SER:HA	1.76	0.67
1:CS:25:GLU:HG3	1:CS:33:LEU:HD11	1.76	0.67
1:CE:93:ILE:HG21	1:GC:117:LEU:HD21	1.74	0.67
1:DV:8:ALA:O	1:DV:115:GLN:NE2	2.23	0.67
1:AP:132:ALA:HB2	1:AQ:28:ARG:HH12	1.59	0.67
1:CZ:17:GLY:HA3	1:DX:11:SER:HA	1.75	0.67
1:EU:25:GLU:HG3	1:EU:33:LEU:HD11	1.75	0.67
1:AC:11:SER:HA	1:BS:17:GLY:HA3	1.75	0.67
1:BA:117:LEU:HD21	1:BJ:93:ILE:HG21	1.76	0.67
1:CX:8:ALA:O	1:CX:115:GLN:NE2	2.22	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DO:11:SER:HA	1:FT:17:GLY:HA3	1.75	0.67
1:DO:79:LYS:HE2	1:FT:101:THR:HA	1.76	0.67
1:FE:68:GLN:HA	1:FE:99:PRO:HD3	1.76	0.67
1:FR:132:ALA:HB2	1:FS:28:ARG:HH12	1.59	0.67
1:BU:78:PRO:HB3	1:BU:86:ARG:NH1	2.09	0.67
1:CG:78:PRO:HB3	1:CG:86:ARG:NH1	2.09	0.67
1:EH:129:GLN:HE22	1:EI:56:PRO:HD3	1.59	0.67
1:EW:132:ALA:HB2	1:EX:28:ARG:HH12	1.60	0.67
1:AV:129:GLN:HE22	1:AW:56:PRO:HD3	1.59	0.67
1:CW:93:ILE:HG21	1:ED:117:LEU:HD21	1.76	0.67
1:AC:79:LYS:HE2	1:BS:101:THR:HA	1.77	0.67
1:BL:78:PRO:HB3	1:BL:86:ARG:NH1	2.09	0.67
1:DC:11:SER:HA	1:EA:17:GLY:HA3	1.75	0.67
1:DC:79:LYS:HE2	1:EA:101:THR:HA	1.76	0.67
1:CE:117:LEU:HD21	1:GC:93:ILE:HG21	1.76	0.67
1:EW:8:ALA:O	1:EW:115:GLN:NE2	2.23	0.67
1:FL:129:GLN:HE22	1:FM:56:PRO:HD3	1.59	0.67
1:GA:129:GLN:HE22	1:GB:56:PRO:HD3	1.59	0.67
1:AL:11:SER:HA	1:EM:17:GLY:HA3	1.75	0.67
1:GX:68:GLN:HA	1:GX:99:PRO:HD3	1.77	0.67
1:CQ:79:LYS:HE2	1:FH:101:THR:HA	1.76	0.67
1:CU:8:ALA:O	1:CU:115:GLN:NE2	2.22	0.67
1:DQ:25:GLU:HG3	1:DQ:33:LEU:HD11	1.76	0.67
1:EK:132:ALA:HB2	1:EL:28:ARG:HH12	1.60	0.67
1:AL:79:LYS:HE2	1:EM:101:THR:HA	1.76	0.66
1:AZ:78:PRO:HB3	1:AZ:86:ARG:NH1	2.09	0.66
1:DH:25:GLU:HG3	1:DH:33:LEU:HD11	1.77	0.66
1:FZ:68:GLN:HA	1:FZ:99:PRO:HD3	1.76	0.66
1:GO:11:SER:HA	1:GX:17:GLY:HA3	1.76	0.66
1:CH:117:LEU:HD21	1:GF:93:ILE:HG21	1.76	0.66
1:EE:132:ALA:HB2	1:EF:28:ARG:HH12	1.58	0.66
1:AX:79:LYS:HE2	1:BG:101:THR:HA	1.77	0.66
1:BZ:129:GLN:HE22	1:CA:56:PRO:HD3	1.59	0.66
1:DA:129:GLN:HE22	1:DB:56:PRO:HD3	1.59	0.66
1:FF:8:ALA:O	1:FF:115:GLN:NE2	2.24	0.66
1:FQ:68:GLN:HA	1:FQ:99:PRO:HD3	1.76	0.66
1:AR:117:LEU:HD21	1:EJ:93:ILE:HG21	1.76	0.66
1:CO:129:GLN:HE22	1:CP:56:PRO:HD3	1.59	0.66
1:DR:79:LYS:HE3	1:FW:101:THR:HA	1.78	0.66
1:GL:68:GLN:HA	1:GL:99:PRO:HD3	1.76	0.66
1:CN:101:THR:HA	1:FN:79:LYS:HE2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GM:129:GLN:HE22	1:GN:56:PRO:HD3	1.59	0.66
1:BT:8:ALA:O	1:BT:115:GLN:NE2	2.22	0.66
1:CE:101:THR:HA	1:GC:79:LYS:HE2	1.77	0.66
1:CQ:117:LEU:HD21	1:FH:93:ILE:HG21	1.76	0.66
1:DU:93:ILE:HG21	1:FQ:117:LEU:HD21	1.76	0.66
1:GA:8:ALA:O	1:GA:115:GLN:NE2	2.23	0.66
1:AW:2:ILE:HD11	1:AW:125:PHE:HB2	1.78	0.66
1:BV:117:LEU:HD21	1:FB:93:ILE:HG21	1.76	0.66
1:CB:79:LYS:HE2	1:EY:101:THR:HA	1.76	0.66
1:DD:8:ALA:O	1:DD:115:GLN:NE2	2.22	0.66
1:DI:79:LYS:HE3	1:EV:101:THR:HA	1.78	0.66
1:EI:2:ILE:HD11	1:EI:125:PHE:HB2	1.78	0.66
1:EX:2:ILE:HD11	1:EX:125:PHE:HB2	1.78	0.66
1:GU:44:GLN:O	1:GU:86:ARG:NH2	2.29	0.66
1:GU:68:GLN:HA	1:GU:99:PRO:HD3	1.78	0.66
1:CB:117:LEU:HD21	1:EY:93:ILE:HG21	1.76	0.66
1:ES:68:GLN:HA	1:ES:99:PRO:HD3	1.76	0.66
1:FL:8:ALA:O	1:FL:115:GLN:NE2	2.23	0.66
1:GF:44:GLN:O	1:GF:86:ARG:NH2	2.29	0.66
1:BC:25:GLU:HG3	1:BC:33:LEU:HD11	1.77	0.66
1:BF:2:ILE:HD11	1:BF:125:PHE:HB2	1.78	0.66
1:CN:117:LEU:HD21	1:FN:93:ILE:HG21	1.77	0.66
1:CZ:101:THR:HA	1:DX:79:LYS:HE2	1.77	0.66
1:ED:68:GLN:HA	1:ED:99:PRO:HD3	1.76	0.66
1:FO:8:ALA:O	1:FO:115:GLN:NE2	2.25	0.66
1:GG:8:ALA:O	1:GG:115:GLN:NE2	2.24	0.66
1:GJ:124:ASP:OD1	1:GJ:124:ASP:N	2.29	0.66
1:AQ:2:ILE:HD11	1:AQ:125:PHE:HB2	1.78	0.66
1:BK:8:ALA:O	1:BK:115:GLN:NE2	2.22	0.66
1:BW:132:ALA:HB2	1:BX:28:ARG:HH12	1.62	0.66
1:CT:58:VAL:HA	1:CT:66:PHE:HB3	1.78	0.66
1:DI:58:VAL:HA	1:DI:66:PHE:HB3	1.78	0.66
1:FG:2:ILE:HD11	1:FG:125:PHE:HB2	1.78	0.66
1:FO:124:ASP:OD1	1:FO:124:ASP:N	2.29	0.66
1:FX:124:ASP:OD1	1:FX:124:ASP:N	2.29	0.66
1:GW:2:ILE:HD11	1:GW:125:PHE:HB2	1.78	0.66
1:DB:2:ILE:HD11	1:DB:125:PHE:HB2	1.78	0.65
1:DS:8:ALA:O	1:DS:115:GLN:NE2	2.22	0.65
1:FH:68:GLN:HA	1:FH:99:PRO:HD3	1.78	0.65
1:AD:132:ALA:HB2	1:AE:28:ARG:HH12	1.61	0.65
1:AH:25:GLU:HG3	1:AH:33:LEU:HD11	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:8:ALA:O	1:CL:115:GLN:NE2	2.21	0.65
1:DY:132:ALA:HB2	1:DZ:28:ARG:HH12	1.60	0.65
1:EZ:124:ASP:OD1	1:EZ:124:ASP:N	2.29	0.65
1:FW:58:VAL:HA	1:FW:66:PHE:HB3	1.78	0.65
1:GL:117:LEU:HD21	1:GU:93:ILE:HG21	1.77	0.65
1:GV:132:ALA:HB2	1:GW:28:ARG:HH12	1.60	0.65
1:AH:2:ILE:HD11	1:AH:125:PHE:HB2	1.78	0.65
1:DQ:2:ILE:HD11	1:DQ:125:PHE:HB2	1.79	0.65
1:DZ:2:ILE:HD11	1:DZ:125:PHE:HB2	1.78	0.65
1:ET:8:ALA:O	1:ET:115:GLN:NE2	2.25	0.65
1:FR:8:ALA:O	1:FR:115:GLN:NE2	2.23	0.65
1:GK:2:ILE:HD11	1:GK:125:PHE:HB2	1.79	0.65
1:AF:44:GLN:O	1:AF:86:ARG:NH2	2.29	0.65
1:AF:93:ILE:HG21	1:BM:117:LEU:HD21	1.76	0.65
1:AM:8:ALA:O	1:AM:115:GLN:NE2	2.22	0.65
1:CM:2:ILE:HD11	1:CM:125:PHE:HB2	1.78	0.65
1:EH:8:ALA:O	1:EH:115:GLN:NE2	2.23	0.65
1:EL:56:PRO:HG3	1:EL:69:ALA:HB2	1.79	0.65
1:FI:8:ALA:O	1:FI:115:GLN:NE2	2.25	0.65
1:FS:2:ILE:HD11	1:FS:125:PHE:HB2	1.78	0.65
1:FX:8:ALA:O	1:FX:115:GLN:NE2	2.24	0.65
1:GF:68:GLN:HA	1:GF:99:PRO:HD3	1.79	0.65
1:GP:8:ALA:O	1:GP:115:GLN:NE2	2.25	0.65
1:CI:8:ALA:O	1:CI:115:GLN:NE2	2.22	0.65
1:CW:44:GLN:O	1:CW:86:ARG:NH2	2.30	0.65
1:CY:2:ILE:HD11	1:CY:125:PHE:HB2	1.78	0.65
1:DR:58:VAL:HA	1:DR:66:PHE:HB3	1.78	0.65
1:FS:56:PRO:HG3	1:FS:69:ALA:HB2	1.79	0.65
1:GJ:8:ALA:O	1:GJ:115:GLN:NE2	2.25	0.65
1:AJ:8:ALA:O	1:AJ:115:GLN:NE2	2.22	0.65
1:BD:58:VAL:HA	1:BD:66:PHE:HB3	1.78	0.65
1:BP:58:VAL:HA	1:BP:66:PHE:HB3	1.79	0.65
1:CC:8:ALA:O	1:CC:115:GLN:NE2	2.22	0.65
1:CY:56:PRO:HG3	1:CY:69:ALA:HB2	1.79	0.65
1:DJ:8:ALA:O	1:DJ:115:GLN:NE2	2.22	0.65
1:DR:44:GLN:O	1:DR:86:ARG:NH2	2.30	0.65
1:DZ:56:PRO:HG3	1:DZ:69:ALA:HB2	1.79	0.65
1:EA:68:GLN:HA	1:EA:99:PRO:HD3	1.79	0.65
1:FF:28:ARG:NH1	1:FV:25:GLU:OE1	2.30	0.65
1:AG:8:ALA:O	1:AG:115:GLN:NE2	2.23	0.65
1:AI:58:VAL:HA	1:AI:66:PHE:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:58:VAL:HA	1:AU:66:PHE:HB3	1.79	0.65
1:BO:2:ILE:HD11	1:BO:125:PHE:HB2	1.79	0.65
1:CT:79:LYS:HE3	1:FK:101:THR:HA	1.78	0.65
1:EK:28:ARG:NH1	1:FJ:25:GLU:OE1	2.30	0.65
1:EP:44:GLN:O	1:EP:86:ARG:NH2	2.29	0.65
1:GI:58:VAL:HA	1:GI:66:PHE:HB3	1.78	0.65
1:GM:8:ALA:O	1:GM:115:GLN:NE2	2.23	0.65
1:GW:56:PRO:HG3	1:GW:69:ALA:HB2	1.79	0.65
1:AN:2:ILE:HD11	1:AN:125:PHE:HB2	1.79	0.65
1:AT:2:ILE:HD11	1:AT:125:PHE:HB2	1.79	0.65
1:BN:8:ALA:O	1:BN:115:GLN:NE2	2.23	0.65
1:BR:56:PRO:HG3	1:BR:69:ALA:HB2	1.79	0.65
1:BX:27:VAL:HG22	1:DK:131:LEU:HD12	1.78	0.65
1:DA:8:ALA:O	1:DA:115:GLN:NE2	2.22	0.65
1:FP:2:ILE:HD11	1:FP:125:PHE:HB2	1.79	0.65
1:FY:2:ILE:HD11	1:FY:125:PHE:HB2	1.79	0.65
1:GR:44:GLN:O	1:GR:86:ARG:NH2	2.30	0.65
1:BC:2:ILE:HD11	1:BC:125:PHE:HB2	1.79	0.65
1:BU:2:ILE:HD11	1:BU:125:PHE:HB2	1.79	0.65
1:CD:2:ILE:HD11	1:CD:125:PHE:HB2	1.79	0.65
1:CG:2:ILE:HD11	1:CG:125:PHE:HB2	1.79	0.65
1:DK:2:ILE:HD11	1:DK:125:PHE:HB2	1.79	0.65
1:EY:68:GLN:HA	1:EY:99:PRO:HD3	1.79	0.65
1:FB:68:GLN:HA	1:FB:99:PRO:HD3	1.78	0.65
1:FJ:2:ILE:HD11	1:FJ:125:PHE:HB2	1.79	0.65
1:FV:2:ILE:HD11	1:FV:125:PHE:HB2	1.79	0.65
1:GI:44:GLN:O	1:GI:86:ARG:NH2	2.30	0.65
1:BL:2:ILE:HD11	1:BL:125:PHE:HB2	1.79	0.65
1:BP:44:GLN:O	1:BP:86:ARG:NH2	2.30	0.65
1:BR:2:ILE:HD11	1:BR:125:PHE:HB2	1.78	0.65
1:CI:132:ALA:HB2	1:CJ:28:ARG:HH12	1.62	0.65
1:CW:83:ASN:ND2	1:CW:85:ASN:OD1	2.29	0.65
1:DP:8:ALA:O	1:DP:115:GLN:NE2	2.23	0.65
1:AA:8:ALA:O	1:AA:115:GLN:NE2	2.23	0.64
1:AB:2:ILE:HD11	1:AB:125:PHE:HB2	1.78	0.64
1:BB:2:ILE:HD11	1:BB:125:PHE:HB2	1.80	0.64
1:BF:56:PRO:HG3	1:BF:69:ALA:HB2	1.79	0.64
1:CT:44:GLN:O	1:CT:86:ARG:NH2	2.30	0.64
1:DI:44:GLN:O	1:DI:86:ARG:NH2	2.30	0.64
1:EU:2:ILE:HD11	1:EU:125:PHE:HB2	1.79	0.64
1:FB:44:GLN:O	1:FB:86:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FU:8:ALA:O	1:FU:115:GLN:NE2	2.25	0.64
1:EH:124:ASP:OD1	1:EH:124:ASP:N	2.29	0.64
1:EL:2:ILE:HD11	1:EL:125:PHE:HB2	1.78	0.64
1:FK:58:VAL:HA	1:FK:66:PHE:HB3	1.78	0.64
1:FM:2:ILE:HD11	1:FM:125:PHE:HB2	1.78	0.64
1:AJ:28:ARG:NH1	1:BF:25:GLU:OE1	2.27	0.64
1:AK:2:ILE:HD11	1:AK:125:PHE:HB2	1.78	0.64
1:AN:131:LEU:HD12	1:BI:27:VAL:HG22	1.80	0.64
1:AQ:56:PRO:HG3	1:AQ:69:ALA:HB2	1.79	0.64
1:AS:2:ILE:HD11	1:AS:125:PHE:HB2	1.80	0.64
1:CP:2:ILE:HD11	1:CP:125:PHE:HB2	1.78	0.64
1:DQ:56:PRO:HG3	1:DQ:69:ALA:HB2	1.80	0.64
1:DU:44:GLN:O	1:DU:86:ARG:NH2	2.31	0.64
1:DY:28:ARG:NH1	1:GQ:25:GLU:OE1	2.30	0.64
1:FW:44:GLN:O	1:FW:86:ARG:NH2	2.30	0.64
1:GR:58:VAL:HA	1:GR:66:PHE:HB3	1.79	0.64
1:BB:8:ALA:O	1:BB:115:GLN:NE2	2.23	0.64
1:BJ:44:GLN:O	1:BJ:86:ARG:NH2	2.31	0.64
1:BO:56:PRO:HG3	1:BO:69:ALA:HB2	1.80	0.64
1:CD:56:PRO:HG3	1:CD:69:ALA:HB2	1.79	0.64
1:CJ:56:PRO:HG3	1:CJ:69:ALA:HB2	1.80	0.64
1:CS:56:PRO:HG3	1:CS:69:ALA:HB2	1.80	0.64
1:GO:93:ILE:HG21	1:GX:117:LEU:HD21	1.79	0.64
1:BY:44:GLN:O	1:BY:86:ARG:NH2	2.31	0.64
1:CA:2:ILE:HD11	1:CA:125:PHE:HB2	1.78	0.64
1:DH:56:PRO:HG3	1:DH:69:ALA:HB2	1.80	0.64
1:EV:58:VAL:HA	1:EV:66:PHE:HB3	1.78	0.64
1:FT:68:GLN:HA	1:FT:99:PRO:HD3	1.79	0.64
1:GD:124:ASP:OD1	1:GD:124:ASP:N	2.29	0.64
1:GS:44:GLN:HG3	1:GS:86:ARG:HD2	1.79	0.64
1:GS:124:ASP:OD1	1:GS:124:ASP:N	2.29	0.64
1:AI:44:GLN:O	1:AI:86:ARG:NH2	2.30	0.64
1:CB:93:ILE:HG21	1:EY:117:LEU:HD21	1.79	0.64
1:CQ:93:ILE:HG21	1:FH:117:LEU:HD21	1.79	0.64
1:DF:44:GLN:O	1:DF:86:ARG:NH2	2.31	0.64
1:EC:2:ILE:HD11	1:EC:125:PHE:HB2	1.79	0.64
1:GB:2:ILE:HD11	1:GB:125:PHE:HB2	1.79	0.64
1:GD:44:GLN:HG3	1:GD:86:ARG:HD2	1.79	0.64
1:GN:2:ILE:HD11	1:GN:125:PHE:HB2	1.79	0.64
1:AS:8:ALA:O	1:AS:115:GLN:NE2	2.23	0.64
1:BA:68:GLN:HA	1:BA:99:PRO:HD3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:44:GLN:O	1:CK:86:ARG:NH2	2.31	0.64
1:CR:2:ILE:HD11	1:CR:125:PHE:HB2	1.80	0.64
1:DW:2:ILE:HD11	1:DW:125:PHE:HB2	1.78	0.64
1:ES:54:LYS:HB3	1:ES:70:ARG:HG3	1.80	0.64
1:FK:44:GLN:O	1:FK:86:ARG:NH2	2.30	0.64
1:GI:79:LYS:HE3	1:GR:101:THR:HA	1.79	0.64
1:CM:56:PRO:HG3	1:CM:69:ALA:HB2	1.79	0.64
1:DC:93:ILE:HG21	1:EA:117:LEU:HD21	1.79	0.64
1:EG:44:GLN:O	1:EG:86:ARG:NH2	2.30	0.64
1:EJ:2:ILE:O	1:EJ:5:SER:OG	2.16	0.64
1:EV:44:GLN:O	1:EV:86:ARG:NH2	2.30	0.64
1:FD:2:ILE:HD11	1:FD:125:PHE:HB2	1.79	0.64
1:AD:8:ALA:O	1:AD:115:GLN:NE2	2.22	0.64
1:DG:2:ILE:HD11	1:DG:125:PHE:HB2	1.80	0.64
1:DO:93:ILE:HG21	1:FT:117:LEU:HD21	1.79	0.64
1:ED:54:LYS:HB3	1:ED:70:ARG:HG3	1.80	0.64
1:EZ:44:GLN:HG3	1:EZ:86:ARG:HD2	1.80	0.64
1:AH:56:PRO:HG3	1:AH:69:ALA:HB2	1.80	0.64
1:BL:131:LEU:HD12	1:EO:27:VAL:HG22	1.78	0.64
1:DN:2:ILE:HD11	1:DN:125:PHE:HB2	1.78	0.64
1:DP:2:ILE:HD11	1:DP:125:PHE:HB2	1.80	0.64
1:AL:93:ILE:HG21	1:EM:117:LEU:HD21	1.79	0.63
1:AZ:2:ILE:HD11	1:AZ:125:PHE:HB2	1.79	0.63
1:DA:2:ILE:HD11	1:DA:125:PHE:HB2	1.81	0.63
1:EP:68:GLN:HA	1:EP:99:PRO:HD3	1.79	0.63
1:EX:56:PRO:HG3	1:EX:69:ALA:HB2	1.79	0.63
1:FV:56:PRO:HG3	1:FV:69:ALA:HB2	1.80	0.63
1:GX:21:ARG:HE	1:GX:39:GLU:HA	1.62	0.63
1:AX:2:ILE:O	1:AX:5:SER:OG	2.16	0.63
1:CU:132:ALA:HB2	1:CV:28:ARG:HH12	1.61	0.63
1:EO:2:ILE:HD11	1:EO:125:PHE:HB2	1.80	0.63
1:AL:2:ILE:O	1:AL:5:SER:OG	2.16	0.63
1:AU:44:GLN:O	1:AU:86:ARG:NH2	2.30	0.63
1:BD:44:GLN:O	1:BD:86:ARG:NH2	2.30	0.63
1:DD:132:ALA:HB2	1:DE:28:ARG:HH12	1.62	0.63
1:DI:117:LEU:HD11	1:EV:93:ILE:HD13	1.81	0.63
1:EF:2:ILE:HD11	1:EF:125:PHE:HB2	1.80	0.63
1:EM:68:GLN:HA	1:EM:99:PRO:HD3	1.79	0.63
1:FG:56:PRO:HG3	1:FG:69:ALA:HB2	1.79	0.63
1:FJ:56:PRO:HG3	1:FJ:69:ALA:HB2	1.80	0.63
1:FL:28:ARG:NH1	1:FS:25:GLU:OE1	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:8:ALA:HB3	1:AX:115:GLN:HE22	1.63	0.63
1:BP:2:ILE:O	1:BP:5:SER:OG	2.16	0.63
1:DR:2:ILE:O	1:DR:5:SER:OG	2.16	0.63
1:FN:2:ILE:O	1:FN:5:SER:OG	2.15	0.63
1:CB:2:ILE:O	1:CB:5:SER:OG	2.16	0.63
1:CY:78:PRO:HB3	1:CY:86:ARG:HH11	1.64	0.63
1:DT:56:PRO:HG3	1:DT:69:ALA:HB2	1.81	0.63
1:FA:56:PRO:HG3	1:FA:69:ALA:HB2	1.81	0.63
1:FQ:54:LYS:HB3	1:FQ:70:ARG:HG3	1.80	0.63
1:GH:2:ILE:HD11	1:GH:125:PHE:HB2	1.79	0.63
1:AJ:2:ILE:HD11	1:AJ:125:PHE:HB2	1.80	0.63
1:CQ:2:ILE:O	1:CQ:5:SER:OG	2.16	0.63
1:DH:2:ILE:HD11	1:DH:125:PHE:HB2	1.79	0.63
1:EN:44:GLN:HG3	1:EN:86:ARG:HD2	1.79	0.63
1:FC:44:GLN:HG3	1:FC:86:ARG:HD2	1.81	0.63
1:FZ:54:LYS:HB3	1:FZ:70:ARG:HG3	1.80	0.63
1:GI:101:THR:HA	1:GR:79:LYS:HE3	1.79	0.63
1:AA:2:ILE:HD11	1:AA:125:PHE:HB2	1.81	0.63
1:AA:28:ARG:NH1	1:AQ:25:GLU:OE1	2.28	0.63
1:BN:2:ILE:HD11	1:BN:125:PHE:HB2	1.80	0.63
1:BX:2:ILE:HD11	1:BX:125:PHE:HB2	1.81	0.63
1:CS:2:ILE:HD11	1:CS:125:PHE:HB2	1.79	0.63
1:EU:56:PRO:HG3	1:EU:69:ALA:HB2	1.80	0.63
1:GI:2:ILE:O	1:GI:5:SER:OG	2.16	0.63
1:GL:54:LYS:HB3	1:GL:70:ARG:HG3	1.80	0.63
1:GQ:2:ILE:HD11	1:GQ:125:PHE:HB2	1.79	0.63
1:GR:2:ILE:O	1:GR:5:SER:OG	2.16	0.63
1:AO:2:ILE:O	1:AO:5:SER:OG	2.16	0.63
1:AV:2:ILE:HD11	1:AV:125:PHE:HB2	1.81	0.63
1:EO:56:PRO:HG3	1:EO:69:ALA:HB2	1.81	0.63
1:FX:44:GLN:HG3	1:FX:86:ARG:HD2	1.81	0.63
1:AZ:131:LEU:HD12	1:FA:27:VAL:HG22	1.80	0.63
1:CA:10:ASP:OD1	1:CA:108:THR:OG1	2.15	0.63
1:EF:56:PRO:HG3	1:EF:69:ALA:HB2	1.81	0.63
1:FO:44:GLN:HG3	1:FO:86:ARG:HD2	1.81	0.63
1:FQ:8:ALA:O	1:FQ:11:SER:OG	2.17	0.63
1:FZ:2:ILE:O	1:FZ:5:SER:OG	2.15	0.63
1:AE:56:PRO:HG3	1:AE:69:ALA:HB2	1.81	0.62
1:CG:131:LEU:HD12	1:DT:27:VAL:HG22	1.79	0.62
1:DY:8:ALA:O	1:DY:115:GLN:NE2	2.24	0.62
1:EG:68:GLN:HA	1:EG:99:PRO:HD3	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:54:LYS:HB3	1:FE:70:ARG:HG3	1.80	0.62
1:GC:2:ILE:O	1:GC:5:SER:OG	2.16	0.62
1:BC:56:PRO:HG3	1:BC:69:ALA:HB2	1.80	0.62
1:CQ:8:ALA:HB3	1:CQ:115:GLN:HE22	1.63	0.62
1:DL:2:ILE:O	1:DL:5:SER:OG	2.16	0.62
1:DO:127:LYS:HD3	1:FT:103:ALA:HB1	1.81	0.62
1:EE:44:GLN:HG3	1:EE:86:ARG:HD2	1.80	0.62
1:GA:124:ASP:OD1	1:GA:124:ASP:N	2.29	0.62
1:GQ:56:PRO:HG3	1:GQ:69:ALA:HB2	1.80	0.62
1:GV:8:ALA:O	1:GV:115:GLN:NE2	2.24	0.62
1:AI:117:LEU:HD11	1:BP:93:ILE:HD13	1.81	0.62
1:AT:56:PRO:HG3	1:AT:69:ALA:HB2	1.80	0.62
1:AU:117:LEU:HD11	1:BD:93:ILE:HD13	1.81	0.62
1:CA:56:PRO:HG3	1:CA:69:ALA:HB2	1.82	0.62
1:CP:56:PRO:HG3	1:CP:69:ALA:HB2	1.82	0.62
1:FP:56:PRO:HG3	1:FP:69:ALA:HB2	1.82	0.62
1:FQ:2:ILE:O	1:FQ:5:SER:OG	2.15	0.62
1:AY:8:ALA:O	1:AY:115:GLN:NE2	2.22	0.62
1:BY:93:ILE:HG21	1:FE:117:LEU:HD21	1.82	0.62
1:CB:8:ALA:HB3	1:CB:115:GLN:HE22	1.63	0.62
1:CM:78:PRO:HB3	1:CM:86:ARG:HH11	1.64	0.62
1:DI:93:ILE:HD13	1:EV:117:LEU:HD11	1.81	0.62
1:FT:98:ASP:O	1:FT:101:THR:OG1	2.16	0.62
1:FY:56:PRO:HG3	1:FY:69:ALA:HB2	1.82	0.62
1:GI:93:ILE:HD13	1:GR:117:LEU:HD11	1.82	0.62
1:AG:2:ILE:HD11	1:AG:125:PHE:HB2	1.80	0.62
1:BU:131:LEU:HD12	1:EF:27:VAL:HG22	1.79	0.62
1:CN:68:GLN:HA	1:CN:99:PRO:HD3	1.81	0.62
1:DT:2:ILE:HD11	1:DT:125:PHE:HB2	1.81	0.62
1:FR:124:ASP:OD1	1:FR:124:ASP:N	2.28	0.62
1:FZ:8:ALA:O	1:FZ:11:SER:OG	2.18	0.62
1:AK:56:PRO:HG3	1:AK:69:ALA:HB2	1.81	0.62
1:CD:78:PRO:HB3	1:CD:86:ARG:HH11	1.64	0.62
1:CK:93:ILE:HG21	1:FZ:117:LEU:HD21	1.82	0.62
1:EC:56:PRO:HG3	1:EC:69:ALA:HB2	1.82	0.62
1:GK:56:PRO:HG3	1:GK:69:ALA:HB2	1.82	0.62
1:GS:132:ALA:HB2	1:GT:28:ARG:HH12	1.65	0.62
1:AI:93:ILE:HD13	1:BP:117:LEU:HD11	1.81	0.62
1:BD:2:ILE:O	1:BD:5:SER:OG	2.16	0.62
1:BJ:68:GLN:HA	1:BJ:99:PRO:HD3	1.81	0.62
1:BR:78:PRO:HB3	1:BR:86:ARG:HH11	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BX:56:PRO:HG3	1:BX:69:ALA:HB2	1.80	0.62
1:CJ:2:ILE:HD11	1:CJ:125:PHE:HB2	1.81	0.62
1:DE:56:PRO:HG3	1:DE:69:ALA:HB2	1.80	0.62
1:ER:56:PRO:HG3	1:ER:69:ALA:HB2	1.82	0.62
1:GD:118:PHE:HZ	1:GE:15:VAL:HG23	1.65	0.62
1:AB:56:PRO:HG3	1:AB:69:ALA:HB2	1.82	0.62
1:AL:127:LYS:HD3	1:EM:103:ALA:HB1	1.82	0.62
1:AU:93:ILE:HD13	1:BD:117:LEU:HD11	1.81	0.62
1:AV:28:ARG:NH1	1:EX:25:GLU:OE1	2.28	0.62
1:CB:127:LYS:HD3	1:EY:103:ALA:HB1	1.81	0.62
1:CE:68:GLN:HA	1:CE:99:PRO:HD3	1.82	0.62
1:CT:93:ILE:HD13	1:FK:117:LEU:HD11	1.82	0.62
1:DJ:44:GLN:HG3	1:DJ:86:ARG:HD2	1.81	0.62
1:EE:118:PHE:HZ	1:EF:15:VAL:HG23	1.65	0.62
1:EH:28:ARG:NH1	1:FG:25:GLU:OE1	2.29	0.62
1:ES:28:ARG:HE	1:GE:28:ARG:HD2	1.64	0.62
1:GM:124:ASP:OD1	1:GM:124:ASP:N	2.29	0.62
1:GS:118:PHE:HZ	1:GT:15:VAL:HG23	1.65	0.62
1:AB:10:ASP:OD1	1:AB:108:THR:OG1	2.15	0.62
1:AM:44:GLN:HG3	1:AM:86:ARG:HD2	1.81	0.62
1:BI:56:PRO:HG3	1:BI:69:ALA:HB2	1.81	0.62
1:BM:68:GLN:HA	1:BM:99:PRO:HD3	1.79	0.62
1:BT:44:GLN:HG3	1:BT:86:ARG:HD2	1.81	0.62
1:DF:93:ILE:HG21	1:ES:117:LEU:HD21	1.82	0.62
1:DR:93:ILE:HD13	1:FW:117:LEU:HD11	1.82	0.62
1:EN:118:PHE:HZ	1:EO:15:VAL:HG23	1.65	0.62
1:GD:132:ALA:HB2	1:GE:28:ARG:HH12	1.64	0.62
1:GH:56:PRO:HG3	1:GH:69:ALA:HB2	1.80	0.62
1:AD:44:GLN:HG3	1:AD:86:ARG:HD2	1.82	0.62
1:AI:28:ARG:HB2	1:AN:29:ASN:HD22	1.65	0.62
1:AL:8:ALA:HB3	1:AL:115:GLN:HE22	1.63	0.62
1:BK:44:GLN:HG3	1:BK:86:ARG:HD2	1.81	0.62
1:BU:56:PRO:HG3	1:BU:69:ALA:HB2	1.81	0.62
1:CC:28:ARG:NH1	1:DQ:25:GLU:OE1	2.33	0.62
1:CF:44:GLN:HG3	1:CF:86:ARG:HD2	1.81	0.62
1:EI:56:PRO:HG3	1:EI:69:ALA:HB2	1.82	0.62
1:GS:8:ALA:O	1:GS:115:GLN:NE2	2.25	0.62
1:BJ:2:ILE:O	1:BJ:5:SER:OG	2.18	0.61
1:CA:29:ASN:ND2	1:DD:29:ASN:OD1	2.32	0.61
1:CG:56:PRO:HG3	1:CG:69:ALA:HB2	1.82	0.61
1:CX:15:VAL:HG21	1:CY:115:GLN:HE21	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:10:ASP:OD1	1:DB:108:THR:OG1	2.15	0.61
1:DB:56:PRO:HG3	1:DB:69:ALA:HB2	1.82	0.61
1:DC:127:LYS:HD3	1:EA:103:ALA:HB1	1.82	0.61
1:DE:78:PRO:HB3	1:DE:86:ARG:HH11	1.65	0.61
1:DJ:132:ALA:HB2	1:DK:28:ARG:HH12	1.65	0.61
1:DN:10:ASP:OD1	1:DN:108:THR:OG1	2.15	0.61
1:ER:2:ILE:HD11	1:ER:125:PHE:HB2	1.80	0.61
1:FU:124:ASP:OD1	1:FU:124:ASP:N	2.28	0.61
1:GN:56:PRO:HG3	1:GN:69:ALA:HB2	1.82	0.61
1:AC:8:ALA:HB3	1:AC:115:GLN:HE22	1.63	0.61
1:AW:56:PRO:HG3	1:AW:69:ALA:HB2	1.82	0.61
1:BL:56:PRO:HG3	1:BL:69:ALA:HB2	1.81	0.61
1:CQ:127:LYS:HD3	1:FH:103:ALA:HB1	1.82	0.61
1:FK:28:ARG:HB2	1:FP:29:ASN:HD22	1.65	0.61
1:GD:8:ALA:O	1:GD:115:GLN:NE2	2.25	0.61
1:GJ:44:GLN:HG3	1:GJ:86:ARG:HD2	1.81	0.61
1:BQ:15:VAL:HG21	1:BR:115:GLN:HE21	1.65	0.61
1:CV:78:PRO:HB3	1:CV:86:ARG:HH11	1.66	0.61
1:CZ:68:GLN:HA	1:CZ:99:PRO:HD3	1.83	0.61
1:DH:10:ASP:OD1	1:DH:108:THR:OG1	2.15	0.61
1:DT:78:PRO:HB3	1:DT:86:ARG:HH11	1.65	0.61
1:DU:21:ARG:HG3	1:FQ:9:ILE:HG13	1.83	0.61
1:AE:2:ILE:HD11	1:AE:125:PHE:HB2	1.81	0.61
1:AK:10:ASP:OD1	1:AK:108:THR:OG1	2.15	0.61
1:AY:44:GLN:HG3	1:AY:86:ARG:HD2	1.81	0.61
1:CK:117:LEU:HD11	1:FZ:93:ILE:HD13	1.83	0.61
1:CR:8:ALA:O	1:CR:115:GLN:NE2	2.23	0.61
1:DE:10:ASP:OD1	1:DE:108:THR:OG1	2.18	0.61
1:DK:56:PRO:HG3	1:DK:69:ALA:HB2	1.81	0.61
1:FE:2:ILE:O	1:FE:5:SER:OG	2.15	0.61
1:AF:2:ILE:O	1:AF:5:SER:OG	2.18	0.61
1:BA:2:ILE:O	1:BA:5:SER:OG	2.15	0.61
1:BK:132:ALA:HB2	1:BL:28:ARG:HH12	1.66	0.61
1:CJ:78:PRO:HB3	1:CJ:86:ARG:HH11	1.65	0.61
1:DE:2:ILE:HD11	1:DE:125:PHE:HB2	1.81	0.61
1:DS:132:ALA:HB2	1:DT:28:ARG:HH12	1.65	0.61
1:EM:2:ILE:O	1:EM:5:SER:OG	2.16	0.61
1:FM:56:PRO:HG3	1:FM:69:ALA:HB2	1.82	0.61
1:GB:56:PRO:HG3	1:GB:69:ALA:HB2	1.82	0.61
1:BV:69:ALA:HB1	1:FB:129:GLN:NE2	2.15	0.61
1:CE:79:LYS:HE2	1:GC:101:THR:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CH:68:GLN:HA	1:CH:99:PRO:HD3	1.83	0.61
1:CK:21:ARG:HG3	1:FZ:9:ILE:HG13	1.82	0.61
1:CN:79:LYS:HE2	1:FN:101:THR:HA	1.83	0.61
1:CQ:93:ILE:HD13	1:FH:117:LEU:HD11	1.83	0.61
1:CS:10:ASP:OD1	1:CS:108:THR:OG1	2.15	0.61
1:DO:93:ILE:HD13	1:FT:117:LEU:HD11	1.83	0.61
1:DU:117:LEU:HD11	1:FQ:93:ILE:HD13	1.83	0.61
1:DV:2:ILE:HD11	1:DV:125:PHE:HB2	1.80	0.61
1:DV:100:GLU:HG2	1:GW:44:GLN:NE2	2.14	0.61
1:EN:132:ALA:HB2	1:EO:28:ARG:HH12	1.64	0.61
1:EY:2:ILE:O	1:EY:5:SER:OG	2.16	0.61
1:FE:8:ALA:O	1:FE:11:SER:OG	2.18	0.61
1:GE:56:PRO:HG3	1:GE:69:ALA:HB2	1.81	0.61
1:BY:93:ILE:HD13	1:FE:117:LEU:HD11	1.83	0.61
1:BZ:2:ILE:HD11	1:BZ:125:PHE:HB2	1.80	0.61
1:CB:93:ILE:HD13	1:EY:117:LEU:HD11	1.83	0.61
1:DF:93:ILE:HD13	1:ES:117:LEU:HD11	1.83	0.61
1:GT:56:PRO:HG3	1:GT:69:ALA:HB2	1.81	0.61
1:AC:2:ILE:O	1:AC:5:SER:OG	2.16	0.61
1:AC:117:LEU:HD11	1:BS:93:ILE:HD13	1.83	0.61
1:AJ:100:GLU:HG2	1:BF:44:GLN:NE2	2.14	0.61
1:AL:117:LEU:HD11	1:EM:93:ILE:HD13	1.83	0.61
1:AN:56:PRO:HG3	1:AN:69:ALA:HB2	1.82	0.61
1:AR:68:GLN:HA	1:AR:99:PRO:HD3	1.83	0.61
1:BG:2:ILE:O	1:BG:5:SER:OG	2.17	0.61
1:CI:44:GLN:HG3	1:CI:86:ARG:HD2	1.82	0.61
1:CL:15:VAL:HG21	1:CM:115:GLN:HE21	1.65	0.61
1:CW:117:LEU:HD11	1:ED:93:ILE:HD13	1.83	0.61
1:DC:98:ASP:O	1:DC:101:THR:OG1	2.16	0.61
1:DI:93:ILE:HG21	1:EV:117:LEU:HD21	1.83	0.61
1:DM:2:ILE:HD11	1:DM:125:PHE:HB2	1.80	0.61
1:FH:2:ILE:O	1:FH:5:SER:OG	2.16	0.61
1:BO:10:ASP:OD1	1:BO:108:THR:OG1	2.15	0.61
1:BQ:28:ARG:NH1	1:EU:25:GLU:OE1	2.33	0.61
1:BY:21:ARG:HG3	1:FE:9:ILE:HG13	1.82	0.61
1:CU:44:GLN:HG3	1:CU:86:ARG:HD2	1.82	0.61
1:DF:21:ARG:HG3	1:ES:9:ILE:HG13	1.82	0.61
1:DF:117:LEU:HD11	1:ES:93:ILE:HD13	1.83	0.61
1:DM:100:GLU:HG2	1:DZ:44:GLN:NE2	2.15	0.61
1:DQ:10:ASP:OD1	1:DQ:108:THR:OG1	2.15	0.61
1:EL:78:PRO:HB3	1:EL:86:ARG:HH11	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GO:2:ILE:O	1:GO:5:SER:OG	2.16	0.61
1:AA:100:GLU:HG2	1:AQ:44:GLN:NE2	2.15	0.61
1:AQ:78:PRO:HB3	1:AQ:86:ARG:HH11	1.65	0.61
1:AZ:56:PRO:HG3	1:AZ:69:ALA:HB2	1.82	0.61
1:BF:78:PRO:HB3	1:BF:86:ARG:HH11	1.65	0.61
1:BZ:100:GLU:HG2	1:EL:44:GLN:NE2	2.15	0.61
1:CO:2:ILE:HD11	1:CO:125:PHE:HB2	1.81	0.61
1:CV:56:PRO:HG3	1:CV:69:ALA:HB2	1.81	0.61
1:DD:44:GLN:HG3	1:DD:86:ARG:HD2	1.82	0.61
1:DU:2:ILE:O	1:DU:5:SER:OG	2.18	0.61
1:FG:78:PRO:HB3	1:FG:86:ARG:HH11	1.66	0.61
1:AF:21:ARG:HG3	1:BM:9:ILE:HG13	1.83	0.60
1:AR:103:ALA:HB1	1:EJ:127:LYS:HD3	1.83	0.60
1:BS:2:ILE:O	1:BS:5:SER:OG	2.17	0.60
1:CB:117:LEU:HD11	1:EY:93:ILE:HD13	1.83	0.60
1:CC:15:VAL:HG21	1:CD:115:GLN:HE21	1.65	0.60
1:DL:69:ALA:HB1	1:EP:129:GLN:NE2	2.15	0.60
1:DW:56:PRO:HG3	1:DW:69:ALA:HB2	1.82	0.60
1:EQ:132:ALA:HB2	1:ER:28:ARG:HH12	1.66	0.60
1:EX:78:PRO:HB3	1:EX:86:ARG:HH11	1.66	0.60
1:FX:132:ALA:HB2	1:FY:28:ARG:HH12	1.66	0.60
1:GW:78:PRO:HB3	1:GW:86:ARG:HH11	1.66	0.60
1:AI:101:THR:HA	1:BP:79:LYS:HE3	1.83	0.60
1:CQ:117:LEU:HD11	1:FH:93:ILE:HD13	1.83	0.60
1:CT:101:THR:HA	1:FK:79:LYS:HE3	1.83	0.60
1:DI:101:THR:HA	1:EV:79:LYS:HE3	1.83	0.60
1:DL:68:GLN:HA	1:DL:99:PRO:HD3	1.82	0.60
1:EO:78:PRO:HB3	1:EO:86:ARG:HH11	1.67	0.60
1:EQ:8:ALA:O	1:EQ:115:GLN:NE2	2.25	0.60
1:AO:69:ALA:HB1	1:EG:129:GLN:NE2	2.15	0.60
1:AR:2:ILE:O	1:AR:5:SER:OG	2.17	0.60
1:AR:93:ILE:HD13	1:EJ:117:LEU:HD11	1.83	0.60
1:AX:117:LEU:HD11	1:BG:93:ILE:HD13	1.83	0.60
1:BG:68:GLN:HA	1:BG:99:PRO:HD3	1.83	0.60
1:CH:69:ALA:HB1	1:GF:129:GLN:NE2	2.15	0.60
1:CJ:10:ASP:OD1	1:CJ:108:THR:OG1	2.18	0.60
1:DS:44:GLN:HG3	1:DS:86:ARG:HD2	1.83	0.60
1:DZ:78:PRO:HB3	1:DZ:86:ARG:HH11	1.66	0.60
1:EB:44:GLN:HG3	1:EB:86:ARG:HD2	1.81	0.60
1:FK:25:GLU:HG2	1:FO:132:ALA:HB3	1.83	0.60
1:GL:8:ALA:O	1:GL:11:SER:OG	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GO:93:ILE:HD13	1:GX:117:LEU:HD11	1.82	0.60
1:GO:127:LYS:HD3	1:GX:103:ALA:HB1	1.82	0.60
1:AU:79:LYS:HE3	1:BD:101:THR:HA	1.83	0.60
1:AU:101:THR:HA	1:BD:79:LYS:HE3	1.83	0.60
1:BI:2:ILE:HD11	1:BI:125:PHE:HB2	1.83	0.60
1:BW:44:GLN:HG3	1:BW:86:ARG:HD2	1.82	0.60
1:CH:127:LYS:HD3	1:GF:103:ALA:HB1	1.83	0.60
1:DC:2:ILE:O	1:DC:5:SER:OG	2.16	0.60
1:DN:56:PRO:HG3	1:DN:69:ALA:HB2	1.82	0.60
1:DT:10:ASP:OD1	1:DT:108:THR:OG1	2.18	0.60
1:EK:124:ASP:OD1	1:EK:124:ASP:N	2.28	0.60
1:EV:2:ILE:O	1:EV:5:SER:OG	2.16	0.60
1:FK:2:ILE:O	1:FK:5:SER:OG	2.16	0.60
1:AL:93:ILE:HD13	1:EM:117:LEU:HD11	1.83	0.60
1:AO:68:GLN:HA	1:AO:99:PRO:HD3	1.83	0.60
1:BH:44:GLN:HG3	1:BH:86:ARG:HD2	1.82	0.60
1:DR:28:ARG:HB2	1:EC:29:ASN:HD22	1.65	0.60
1:EE:8:ALA:O	1:EE:115:GLN:NE2	2.25	0.60
1:EN:8:ALA:O	1:EN:115:GLN:NE2	2.25	0.60
1:EP:2:ILE:O	1:EP:5:SER:OG	2.18	0.60
1:EQ:44:GLN:HG3	1:EQ:86:ARG:HD2	1.81	0.60
1:FS:78:PRO:HB3	1:FS:86:ARG:HH11	1.66	0.60
1:GF:2:ILE:O	1:GF:5:SER:OG	2.18	0.60
1:GI:103:ALA:HB1	1:GR:127:LYS:HD3	1.84	0.60
1:GU:2:ILE:O	1:GU:5:SER:OG	2.18	0.60
1:BZ:8:ALA:O	1:BZ:115:GLN:NE2	2.23	0.60
1:DO:98:ASP:O	1:DO:101:THR:OG1	2.17	0.60
1:EB:132:ALA:HB2	1:EC:28:ARG:HH12	1.67	0.60
1:FF:124:ASP:OD1	1:FF:124:ASP:N	2.28	0.60
1:FT:2:ILE:O	1:FT:5:SER:OG	2.16	0.60
1:AP:15:VAL:HG21	1:AQ:115:GLN:HE21	1.65	0.60
1:CF:132:ALA:HB2	1:CG:28:ARG:HH12	1.65	0.60
1:CQ:10:ASP:OD1	1:CQ:108:THR:OG1	2.18	0.60
1:EG:2:ILE:O	1:EG:5:SER:OG	2.18	0.60
1:ET:124:ASP:OD1	1:ET:124:ASP:N	2.28	0.60
1:FO:132:ALA:HB2	1:FP:28:ARG:HH12	1.67	0.60
1:GL:127:LYS:HD3	1:GU:103:ALA:HB1	1.83	0.60
1:BT:132:ALA:HB2	1:BU:28:ARG:HH12	1.67	0.60
1:BV:68:GLN:HA	1:BV:99:PRO:HD3	1.83	0.60
1:BX:78:PRO:HB3	1:BX:86:ARG:HH11	1.65	0.60
1:DC:93:ILE:HD13	1:EA:117:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DU:69:ALA:HB1	1:FQ:129:GLN:NE2	2.16	0.60
1:FD:56:PRO:HG3	1:FD:69:ALA:HB2	1.82	0.60
1:AE:78:PRO:HB3	1:AE:86:ARG:HH11	1.66	0.60
1:BE:15:VAL:HG21	1:BF:115:GLN:HE21	1.65	0.60
1:BS:68:GLN:HA	1:BS:99:PRO:HD3	1.83	0.60
1:CO:8:ALA:O	1:CO:115:GLN:NE2	2.22	0.60
1:DO:117:LEU:HD11	1:FT:93:ILE:HD13	1.83	0.60
1:DR:101:THR:HA	1:FW:79:LYS:HE3	1.83	0.60
1:EN:124:ASP:OD1	1:EN:124:ASP:N	2.29	0.60
1:ET:2:ILE:HD11	1:ET:125:PHE:HB2	1.84	0.60
1:FI:2:ILE:HD11	1:FI:125:PHE:HB2	1.84	0.60
1:FI:124:ASP:OD1	1:FI:124:ASP:N	2.28	0.60
1:GJ:132:ALA:HB2	1:GK:28:ARG:HH12	1.65	0.60
1:BI:78:PRO:HB3	1:BI:86:ARG:HH11	1.66	0.60
1:CH:28:ARG:HE	1:DT:28:ARG:HD2	1.67	0.60
1:CU:118:PHE:HZ	1:CV:15:VAL:HG23	1.67	0.60
1:DD:118:PHE:HZ	1:DE:15:VAL:HG23	1.67	0.60
1:DI:117:LEU:HD21	1:EV:93:ILE:HG21	1.84	0.60
1:DU:68:GLN:HA	1:DU:99:PRO:HD3	1.83	0.60
1:BY:117:LEU:HD11	1:FE:93:ILE:HD13	1.83	0.59
1:DK:29:ASN:HD22	1:FW:28:ARG:HB2	1.67	0.59
1:EW:124:ASP:OD1	1:EW:124:ASP:N	2.28	0.59
1:EZ:118:PHE:HZ	1:FA:15:VAL:HG23	1.65	0.59
1:FU:2:ILE:HD11	1:FU:125:PHE:HB2	1.84	0.59
1:AC:127:LYS:HD3	1:BS:103:ALA:HB1	1.84	0.59
1:BU:29:ASN:HD22	1:DI:28:ARG:HB2	1.67	0.59
1:CO:118:PHE:HZ	1:CP:15:VAL:HG23	1.68	0.59
1:CT:93:ILE:HG21	1:FK:117:LEU:HD21	1.84	0.59
1:DV:118:PHE:HZ	1:DW:15:VAL:HG23	1.68	0.59
1:DX:98:ASP:O	1:DX:101:THR:OG1	2.18	0.59
1:EB:8:ALA:O	1:EB:115:GLN:NE2	2.25	0.59
1:EH:2:ILE:HD11	1:EH:125:PHE:HB2	1.84	0.59
1:EK:44:GLN:HG3	1:EK:86:ARG:HD2	1.84	0.59
1:EZ:8:ALA:O	1:EZ:115:GLN:NE2	2.25	0.59
1:FF:44:GLN:HG3	1:FF:86:ARG:HD2	1.84	0.59
1:GJ:132:ALA:HB3	1:GR:25:GLU:HG2	1.85	0.59
1:GK:29:ASN:HD22	1:GR:28:ARG:HB2	1.67	0.59
1:BV:127:LYS:HD3	1:FB:103:ALA:HB1	1.83	0.59
1:BZ:118:PHE:HZ	1:CA:15:VAL:HG23	1.68	0.59
1:CK:93:ILE:HD13	1:FZ:117:LEU:HD11	1.83	0.59
1:CS:28:ARG:HD2	1:CZ:28:ARG:HE	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DF:79:LYS:HE2	1:ES:101:THR:HA	1.84	0.59
1:DM:118:PHE:HZ	1:DN:15:VAL:HG23	1.68	0.59
1:EE:124:ASP:OD1	1:EE:124:ASP:N	2.29	0.59
1:FC:8:ALA:O	1:FC:115:GLN:NE2	2.25	0.59
1:AS:132:ALA:HB2	1:AT:28:ARG:HH12	1.68	0.59
1:BL:29:ASN:HD22	1:CT:28:ARG:HB2	1.67	0.59
1:CN:103:ALA:HB1	1:FN:127:LYS:HD3	1.84	0.59
1:CZ:2:ILE:O	1:CZ:5:SER:OG	2.17	0.59
1:GL:93:ILE:HD13	1:GU:117:LEU:HD11	1.83	0.59
1:GV:54:LYS:HB3	1:GV:70:ARG:HB2	1.85	0.59
1:AA:118:PHE:HZ	1:AB:15:VAL:HG23	1.68	0.59
1:AJ:118:PHE:HZ	1:AK:15:VAL:HG23	1.68	0.59
1:AR:79:LYS:HE2	1:EJ:101:THR:HA	1.83	0.59
1:CH:9:ILE:HG13	1:GF:21:ARG:HG3	1.85	0.59
1:CN:93:ILE:HD13	1:FN:117:LEU:HD11	1.83	0.59
1:CZ:93:ILE:HD13	1:DX:117:LEU:HD11	1.83	0.59
1:DL:127:LYS:HD3	1:EP:103:ALA:HB1	1.83	0.59
1:EW:44:GLN:HG3	1:EW:86:ARG:HD2	1.85	0.59
1:FL:100:GLU:HG2	1:FS:44:GLN:NE2	2.14	0.59
1:GA:44:GLN:HG3	1:GA:86:ARG:HD2	1.85	0.59
1:GL:9:ILE:HG13	1:GU:21:ARG:HG3	1.85	0.59
1:GO:101:THR:HA	1:GX:79:LYS:HE2	1.83	0.59
1:AT:28:ARG:HD2	1:BG:28:ARG:HE	1.67	0.59
1:AU:54:LYS:HB3	1:AU:70:ARG:CG	2.33	0.59
1:BD:54:LYS:HB3	1:BD:70:ARG:CG	2.33	0.59
1:BH:118:PHE:HZ	1:BI:15:VAL:HG23	1.67	0.59
1:CE:103:ALA:HB1	1:GC:127:LYS:HD3	1.84	0.59
1:CG:10:ASP:OD1	1:CG:108:THR:OG1	2.18	0.59
1:EY:98:ASP:O	1:EY:101:THR:OG1	2.16	0.59
1:FL:44:GLN:HG3	1:FL:86:ARG:HD2	1.85	0.59
1:FU:44:GLN:HG3	1:FU:86:ARG:HD2	1.85	0.59
1:GC:10:ASP:OD1	1:GC:108:THR:OG1	2.17	0.59
1:GH:28:ARG:HD2	1:GX:28:ARG:HE	1.67	0.59
1:AC:69:ALA:HB1	1:BS:129:GLN:NE2	2.18	0.59
1:AH:28:ARG:HD2	1:EY:28:ARG:HE	1.68	0.59
1:AI:2:ILE:O	1:AI:5:SER:OG	2.16	0.59
1:AI:79:LYS:HE3	1:BP:101:THR:HA	1.83	0.59
1:AM:132:ALA:HB2	1:AN:28:ARG:HH12	1.68	0.59
1:BM:28:ARG:HE	1:EO:28:ARG:HD2	1.67	0.59
1:CF:132:ALA:HB3	1:GI:25:GLU:HG2	1.85	0.59
1:ED:28:ARG:HE	1:GT:28:ARG:HD2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EH:100:GLU:HG2	1:FG:44:GLN:NE2	2.14	0.59
1:EO:78:PRO:HB3	1:EO:86:ARG:NH1	2.18	0.59
1:ES:2:ILE:O	1:ES:5:SER:OG	2.15	0.59
1:FA:2:ILE:HD11	1:FA:125:PHE:HB2	1.84	0.59
1:AF:68:GLN:HA	1:AF:99:PRO:HD3	1.83	0.59
1:AV:100:GLU:HG2	1:EX:44:GLN:NE2	2.14	0.59
1:AX:127:LYS:HD3	1:BG:103:ALA:HB1	1.84	0.59
1:AZ:29:ASN:HD22	1:BD:28:ARG:HB2	1.67	0.59
1:BP:28:ARG:HB2	1:ER:29:ASN:HD22	1.68	0.59
1:BP:54:LYS:HB3	1:BP:70:ARG:CG	2.33	0.59
1:BW:118:PHE:HZ	1:BX:15:VAL:HG23	1.67	0.59
1:CG:29:ASN:HD22	1:GI:28:ARG:HB2	1.68	0.59
1:CZ:103:ALA:HB1	1:DX:127:LYS:HD3	1.84	0.59
1:DC:117:LEU:HD11	1:EA:93:ILE:HD13	1.83	0.59
1:ED:2:ILE:O	1:ED:5:SER:OG	2.15	0.59
1:FI:44:GLN:HG3	1:FI:86:ARG:HD2	1.85	0.59
1:GG:44:GLN:HG3	1:GG:86:ARG:HD2	1.85	0.59
1:AI:93:ILE:HG21	1:BP:117:LEU:HD21	1.84	0.59
1:AO:9:ILE:HG13	1:EG:21:ARG:HG3	1.85	0.59
1:AX:58:VAL:HA	1:AX:66:PHE:HB3	1.85	0.59
1:BC:10:ASP:OD1	1:BC:108:THR:OG1	2.15	0.59
1:BY:79:LYS:HE2	1:FE:101:THR:HA	1.84	0.59
1:CE:93:ILE:HD13	1:GC:117:LEU:HD11	1.84	0.59
1:CZ:129:GLN:NE2	1:DX:69:ALA:HB1	2.18	0.59
1:DI:127:LYS:HD3	1:EV:103:ALA:HB1	1.84	0.59
1:DL:9:ILE:HG13	1:EP:21:ARG:HG3	1.85	0.59
1:FC:132:ALA:HB2	1:FD:28:ARG:HH12	1.66	0.59
1:GO:117:LEU:HD11	1:GX:93:ILE:HD13	1.84	0.59
1:GP:44:GLN:HG3	1:GP:86:ARG:HD2	1.85	0.59
1:AO:8:ALA:O	1:AO:11:SER:OG	2.19	0.59
1:AT:10:ASP:OD1	1:AT:108:THR:OG1	2.15	0.59
1:AV:118:PHE:HZ	1:AW:15:VAL:HG23	1.68	0.59
1:CK:69:ALA:HB1	1:FZ:129:GLN:NE2	2.18	0.59
1:CK:79:LYS:HE2	1:FZ:101:THR:HA	1.84	0.59
1:CW:69:ALA:HB1	1:ED:129:GLN:NE2	2.18	0.59
1:DF:69:ALA:HB1	1:ES:129:GLN:NE2	2.18	0.59
1:ET:44:GLN:HG3	1:ET:86:ARG:HD2	1.85	0.59
1:GI:93:ILE:HG21	1:GR:117:LEU:HD21	1.83	0.59
1:GM:2:ILE:HD11	1:GM:125:PHE:HB2	1.85	0.59
1:BA:8:ALA:O	1:BA:11:SER:OG	2.20	0.58
1:DU:79:LYS:HE2	1:FQ:101:THR:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DY:54:LYS:HB3	1:DY:70:ARG:HB2	1.84	0.58
1:FR:44:GLN:HG3	1:FR:86:ARG:HD2	1.85	0.58
1:GE:2:ILE:HD11	1:GE:125:PHE:HB2	1.84	0.58
1:GP:124:ASP:OD1	1:GP:124:ASP:N	2.28	0.58
1:AD:118:PHE:HZ	1:AE:15:VAL:HG23	1.67	0.58
1:CV:2:ILE:HD11	1:CV:125:PHE:HB2	1.84	0.58
1:EK:54:LYS:HB3	1:EK:70:ARG:HB2	1.84	0.58
1:FW:2:ILE:O	1:FW:5:SER:OG	2.16	0.58
1:GT:2:ILE:HD11	1:GT:125:PHE:HB2	1.84	0.58
1:GT:78:PRO:HB3	1:GT:86:ARG:HH11	1.68	0.58
1:AC:58:VAL:HA	1:AC:66:PHE:HB3	1.85	0.58
1:AC:101:THR:HA	1:BS:79:LYS:HE2	1.84	0.58
1:AU:117:LEU:HD21	1:BD:93:ILE:HG21	1.84	0.58
1:BV:9:ILE:HG13	1:FB:21:ARG:HG3	1.85	0.58
1:BY:69:ALA:HB1	1:FE:129:GLN:NE2	2.18	0.58
1:CW:21:ARG:HG3	1:ED:9:ILE:HG13	1.83	0.58
1:DL:8:ALA:O	1:DL:11:SER:OG	2.20	0.58
1:DS:118:PHE:HZ	1:DT:15:VAL:HG23	1.67	0.58
1:EH:44:GLN:HG3	1:EH:86:ARG:HD2	1.85	0.58
1:FR:54:LYS:HB3	1:FR:70:ARG:HB2	1.85	0.58
1:AI:117:LEU:HD21	1:BP:93:ILE:HG21	1.85	0.58
1:CE:2:ILE:O	1:CE:5:SER:OG	2.17	0.58
1:CN:2:ILE:O	1:CN:5:SER:OG	2.17	0.58
1:GA:2:ILE:HD11	1:GA:125:PHE:HB2	1.85	0.58
1:GG:124:ASP:OD1	1:GG:124:ASP:N	2.28	0.58
1:GL:101:THR:HA	1:GU:79:LYS:HE2	1.84	0.58
1:AI:54:LYS:HB3	1:AI:70:ARG:CG	2.33	0.58
1:BA:9:ILE:HG13	1:BJ:21:ARG:HG3	1.85	0.58
1:CI:118:PHE:HZ	1:CJ:15:VAL:HG23	1.67	0.58
1:CK:2:ILE:O	1:CK:5:SER:OG	2.18	0.58
1:DC:58:VAL:HA	1:DC:66:PHE:HB3	1.85	0.58
1:FL:2:ILE:HD11	1:FL:125:PHE:HB2	1.85	0.58
1:GE:78:PRO:HB3	1:GE:86:ARG:HH11	1.68	0.58
1:GQ:33:LEU:HD12	1:GQ:34:ASN:H	1.69	0.58
1:AO:117:LEU:HD11	1:EG:93:ILE:HD13	1.86	0.58
1:AO:127:LYS:HD3	1:EG:103:ALA:HB1	1.83	0.58
1:AX:69:ALA:HB1	1:BG:129:GLN:NE2	2.18	0.58
1:BK:2:ILE:HD11	1:BK:125:PHE:HB2	1.86	0.58
1:BN:132:ALA:HB2	1:BO:28:ARG:HH12	1.68	0.58
1:CF:2:ILE:HD11	1:CF:125:PHE:HB2	1.86	0.58
1:DH:28:ARG:HD2	1:FT:28:ARG:HE	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DR:93:ILE:HG21	1:FW:117:LEU:HD21	1.84	0.58
1:GO:58:VAL:HA	1:GO:66:PHE:HB3	1.86	0.58
1:AL:58:VAL:HA	1:AL:66:PHE:HB3	1.85	0.58
1:AM:2:ILE:HD11	1:AM:125:PHE:HB2	1.86	0.58
1:BM:2:ILE:O	1:BM:5:SER:OG	2.15	0.58
1:CB:95:LEU:HD12	1:EY:91:VAL:HG22	1.86	0.58
1:DJ:132:ALA:HB3	1:FW:25:GLU:HG2	1.85	0.58
1:DL:117:LEU:HD11	1:EP:93:ILE:HD13	1.86	0.58
1:EF:78:PRO:HB3	1:EF:86:ARG:HH11	1.69	0.58
1:FV:33:LEU:HD12	1:FV:34:ASN:H	1.69	0.58
1:GG:132:ALA:HB2	1:GH:28:ARG:HH12	1.69	0.58
1:AU:93:ILE:HG21	1:BD:117:LEU:HD21	1.85	0.58
1:BO:28:ARG:HD2	1:CN:28:ARG:HE	1.67	0.58
1:BT:2:ILE:HD11	1:BT:125:PHE:HB2	1.86	0.58
1:BU:10:ASP:OD1	1:BU:108:THR:OG1	2.18	0.58
1:BY:68:GLN:HA	1:BY:99:PRO:HD3	1.86	0.58
1:CC:54:LYS:HB3	1:CC:70:ARG:HB2	1.86	0.58
1:CN:117:LEU:HD11	1:FN:93:ILE:HD13	1.85	0.58
1:DA:118:PHE:HZ	1:DB:15:VAL:HG23	1.68	0.58
1:DJ:2:ILE:HD11	1:DJ:125:PHE:HB2	1.86	0.58
1:DL:101:THR:HA	1:EP:79:LYS:HE2	1.85	0.58
1:EW:54:LYS:HB3	1:EW:70:ARG:HB2	1.85	0.58
1:GQ:7:ILE:HD12	1:GQ:115:GLN:HB3	1.86	0.58
1:BA:117:LEU:HD11	1:BJ:93:ILE:HD13	1.86	0.58
1:CL:54:LYS:HB3	1:CL:70:ARG:HB2	1.86	0.58
1:DF:68:GLN:HA	1:DF:99:PRO:HD3	1.86	0.58
1:DX:58:VAL:HA	1:DX:66:PHE:HB3	1.85	0.58
1:GM:44:GLN:HG3	1:GM:86:ARG:HD2	1.85	0.58
1:AN:10:ASP:OD1	1:AN:108:THR:OG1	2.18	0.58
1:AU:28:ARG:HB2	1:FD:29:ASN:HD22	1.68	0.58
1:BL:10:ASP:OD1	1:BL:108:THR:OG1	2.18	0.58
1:CH:101:THR:HA	1:GF:79:LYS:HE2	1.85	0.58
1:CW:93:ILE:HD13	1:ED:117:LEU:HD11	1.86	0.58
1:DO:58:VAL:HA	1:DO:66:PHE:HB3	1.85	0.58
1:GO:95:LEU:HD12	1:GX:91:VAL:HG22	1.86	0.58
1:AT:97:VAL:HG12	1:AT:109:MET:HE1	1.86	0.57
1:AY:132:ALA:HB2	1:AZ:28:ARG:HH12	1.67	0.57
1:BC:97:VAL:HG12	1:BC:109:MET:HE1	1.86	0.57
1:BV:2:ILE:O	1:BV:5:SER:OG	2.16	0.57
1:CB:10:ASP:OD1	1:CB:108:THR:OG1	2.17	0.57
1:CT:2:ILE:O	1:CT:5:SER:OG	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DO:95:LEU:HD12	1:FT:91:VAL:HG22	1.86	0.57
1:BV:8:ALA:O	1:BV:11:SER:OG	2.19	0.57
1:CE:117:LEU:HD11	1:GC:93:ILE:HD13	1.85	0.57
1:DK:10:ASP:OD1	1:DK:108:THR:OG1	2.18	0.57
1:DR:127:LYS:HD3	1:FW:103:ALA:HB1	1.87	0.57
1:DY:44:GLN:HG3	1:DY:86:ARG:HD2	1.84	0.57
1:FN:58:VAL:HA	1:FN:66:PHE:HB3	1.86	0.57
1:GL:2:ILE:O	1:GL:5:SER:OG	2.15	0.57
1:AW:10:ASP:OD1	1:AW:108:THR:OG1	2.15	0.57
1:CQ:95:LEU:HD12	1:FH:91:VAL:HG22	1.87	0.57
1:DI:2:ILE:O	1:DI:5:SER:OG	2.16	0.57
1:BM:8:ALA:O	1:BM:11:SER:OG	2.20	0.57
1:CD:10:ASP:OD1	1:CD:108:THR:OG1	2.18	0.57
1:CH:2:ILE:O	1:CH:5:SER:OG	2.16	0.57
1:CH:8:ALA:O	1:CH:11:SER:OG	2.20	0.57
1:CK:68:GLN:HA	1:CK:99:PRO:HD3	1.86	0.57
1:CW:68:GLN:HA	1:CW:99:PRO:HD3	1.86	0.57
1:EJ:58:VAL:HA	1:EJ:66:PHE:HB3	1.86	0.57
1:EV:28:ARG:HB2	1:FY:29:ASN:HD22	1.68	0.57
1:GH:7:ILE:HD12	1:GH:115:GLN:HB3	1.86	0.57
1:AX:101:THR:HA	1:BG:79:LYS:HE2	1.84	0.57
1:BO:7:ILE:HD12	1:BO:115:GLN:HB3	1.86	0.57
1:CK:103:ALA:HB1	1:FZ:127:LYS:HD3	1.87	0.57
1:FF:2:ILE:HD11	1:FF:125:PHE:HB2	1.87	0.57
1:FF:54:LYS:HB3	1:FF:70:ARG:HB2	1.84	0.57
1:GI:127:LYS:HD3	1:GR:103:ALA:HB1	1.87	0.57
1:AI:103:ALA:HB1	1:BP:127:LYS:HD3	1.87	0.57
1:AL:68:GLN:HA	1:AL:99:PRO:HD3	1.86	0.57
1:AR:117:LEU:HD11	1:EJ:93:ILE:HD13	1.85	0.57
1:AX:68:GLN:HA	1:AX:99:PRO:HD3	1.87	0.57
1:CW:103:ALA:HB1	1:ED:127:LYS:HD3	1.87	0.57
1:CX:54:LYS:HB3	1:CX:70:ARG:HB2	1.86	0.57
1:DF:103:ALA:HB1	1:ES:127:LYS:HD3	1.87	0.57
1:DH:7:ILE:HD12	1:DH:115:GLN:HB3	1.87	0.57
1:GV:44:GLN:HG3	1:GV:86:ARG:HD2	1.85	0.57
1:AL:69:ALA:HB1	1:EM:129:GLN:NE2	2.20	0.57
1:CB:69:ALA:HB1	1:EY:129:GLN:NE2	2.20	0.57
1:CQ:69:ALA:HB1	1:FH:129:GLN:NE2	2.20	0.57
1:CS:7:ILE:HD12	1:CS:115:GLN:HB3	1.87	0.57
1:DO:2:ILE:O	1:DO:5:SER:OG	2.16	0.57
1:DO:69:ALA:HB1	1:FT:129:GLN:NE2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DX:2:ILE:O	1:DX:5:SER:OG	2.16	0.57
1:GC:58:VAL:HA	1:GC:66:PHE:HB3	1.86	0.57
1:GP:2:ILE:HD11	1:GP:125:PHE:HB2	1.84	0.57
1:CD:28:ARG:NH1	1:GO:25:GLU:OE2	2.38	0.57
1:CV:78:PRO:HB3	1:CV:86:ARG:NH1	2.20	0.57
1:CZ:79:LYS:HE2	1:DX:101:THR:HA	1.85	0.57
1:DQ:33:LEU:HD12	1:DQ:34:ASN:H	1.69	0.57
1:FV:7:ILE:HD12	1:FV:115:GLN:HB3	1.86	0.57
1:GG:2:ILE:HD11	1:GG:125:PHE:HB2	1.84	0.57
1:BQ:54:LYS:HB3	1:BQ:70:ARG:HB2	1.86	0.57
1:CH:117:LEU:HD11	1:GF:93:ILE:HD13	1.86	0.57
1:DC:68:GLN:HA	1:DC:99:PRO:HD3	1.86	0.57
1:DQ:7:ILE:HD12	1:DQ:115:GLN:HB3	1.87	0.57
1:DU:93:ILE:HD13	1:FQ:117:LEU:HD11	1.86	0.57
1:DU:103:ALA:HB1	1:FQ:127:LYS:HD3	1.87	0.57
1:FN:25:GLU:OE2	1:FS:28:ARG:NH1	2.38	0.57
1:AG:132:ALA:HB3	1:EY:25:GLU:HG2	1.87	0.57
1:AX:98:ASP:O	1:AX:101:THR:OG1	2.16	0.57
1:BY:103:ALA:HB1	1:FE:127:LYS:HD3	1.87	0.57
1:EA:2:ILE:O	1:EA:5:SER:OG	2.16	0.57
1:FA:78:PRO:HB3	1:FA:86:ARG:HH11	1.69	0.57
1:GL:117:LEU:HD11	1:GU:93:ILE:HD13	1.86	0.57
1:AE:78:PRO:HB3	1:AE:86:ARG:NH1	2.20	0.56
1:AH:97:VAL:HG12	1:AH:109:MET:HE1	1.86	0.56
1:AL:98:ASP:O	1:AL:101:THR:OG1	2.16	0.56
1:CB:58:VAL:HA	1:CB:66:PHE:HB3	1.85	0.56
1:CY:28:ARG:NH1	1:GC:25:GLU:OE2	2.38	0.56
1:DU:53:VAL:HG13	1:FQ:131:LEU:HG	1.87	0.56
1:AR:69:ALA:HB1	1:EJ:129:GLN:NE2	2.20	0.56
1:AZ:10:ASP:OD1	1:AZ:108:THR:OG1	2.18	0.56
1:BC:33:LEU:HD12	1:BC:34:ASN:H	1.69	0.56
1:CC:118:PHE:HZ	1:CD:15:VAL:HG23	1.70	0.56
1:CN:69:ALA:HB1	1:FN:129:GLN:NE2	2.20	0.56
1:DC:69:ALA:HB1	1:EA:129:GLN:NE2	2.20	0.56
1:DE:78:PRO:HB3	1:DE:86:ARG:NH1	2.21	0.56
1:DQ:97:VAL:HG12	1:DQ:109:MET:HE1	1.86	0.56
1:DR:103:ALA:HB1	1:FW:127:LYS:HD3	1.87	0.56
1:EU:7:ILE:HD12	1:EU:115:GLN:HB3	1.86	0.56
1:EW:15:VAL:HG21	1:EX:115:GLN:HE21	1.71	0.56
1:FF:15:VAL:HG21	1:FG:115:GLN:HE21	1.71	0.56
1:GO:98:ASP:O	1:GO:101:THR:OG1	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:93:ILE:HD13	1:BM:117:LEU:HD11	1.86	0.56
1:AP:54:LYS:HB3	1:AP:70:ARG:HB2	1.86	0.56
1:AT:7:ILE:HD12	1:AT:115:GLN:HB3	1.86	0.56
1:AY:2:ILE:HD11	1:AY:125:PHE:HB2	1.86	0.56
1:BO:97:VAL:HG12	1:BO:109:MET:HE1	1.86	0.56
1:BY:95:LEU:HD12	1:FE:91:VAL:HG22	1.87	0.56
1:CD:44:GLN:O	1:CD:86:ARG:NH1	2.38	0.56
1:CE:69:ALA:HB1	1:GC:129:GLN:NE2	2.20	0.56
1:CQ:58:VAL:HA	1:CQ:66:PHE:HB3	1.85	0.56
1:CW:79:LYS:HE2	1:ED:101:THR:HA	1.86	0.56
1:CY:44:GLN:O	1:CY:86:ARG:NH1	2.38	0.56
1:CZ:95:LEU:HD12	1:DX:91:VAL:HG22	1.87	0.56
1:DC:95:LEU:HD12	1:EA:91:VAL:HG22	1.87	0.56
1:FJ:7:ILE:HD12	1:FJ:115:GLN:HB3	1.86	0.56
1:GP:28:ARG:HH12	1:GQ:132:ALA:HB2	1.68	0.56
1:GQ:10:ASP:OD2	1:GQ:108:THR:OG1	2.19	0.56
1:AC:68:GLN:HA	1:AC:99:PRO:HD3	1.87	0.56
1:AC:91:VAL:HG22	1:BS:95:LEU:HD12	1.87	0.56
1:AF:79:LYS:HE2	1:BM:101:THR:HA	1.87	0.56
1:AO:91:VAL:HG22	1:EG:95:LEU:HD12	1.87	0.56
1:BA:127:LYS:HD3	1:BJ:103:ALA:HB1	1.88	0.56
1:BE:54:LYS:HB3	1:BE:70:ARG:HB2	1.86	0.56
1:BI:10:ASP:OD1	1:BI:108:THR:OG1	2.18	0.56
1:BV:117:LEU:HD11	1:FB:93:ILE:HD13	1.86	0.56
1:CL:118:PHE:HZ	1:CM:15:VAL:HG23	1.70	0.56
1:CW:53:VAL:HG13	1:ED:131:LEU:HG	1.87	0.56
1:DU:95:LEU:HD12	1:FQ:91:VAL:HG22	1.87	0.56
1:EA:44:GLN:O	1:EA:86:ARG:NH2	2.39	0.56
1:EJ:25:GLU:OE2	1:FG:28:ARG:NH1	2.38	0.56
1:FJ:33:LEU:HD12	1:FJ:34:ASN:H	1.69	0.56
1:GI:54:LYS:HB3	1:GI:70:ARG:HG3	1.87	0.56
1:GO:91:VAL:HG22	1:GX:95:LEU:HD12	1.87	0.56
1:GX:44:GLN:O	1:GX:86:ARG:NH2	2.38	0.56
1:CK:53:VAL:HG13	1:FZ:131:LEU:HG	1.87	0.56
1:CW:95:LEU:HD12	1:ED:91:VAL:HG22	1.87	0.56
1:DF:53:VAL:HG13	1:ES:131:LEU:HG	1.87	0.56
1:DF:95:LEU:HD12	1:ES:91:VAL:HG22	1.87	0.56
1:DG:132:ALA:HB3	1:FT:25:GLU:HG2	1.87	0.56
1:FT:44:GLN:O	1:FT:86:ARG:NH2	2.38	0.56
1:FU:28:ARG:HH12	1:FV:132:ALA:HB2	1.70	0.56
1:GO:79:LYS:HE2	1:GX:105:GLU:OE2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:10:ASP:OD1	1:AL:108:THR:OG1	2.17	0.56
1:DL:91:VAL:HG22	1:EP:95:LEU:HD12	1.87	0.56
1:AU:68:GLN:HA	1:AU:99:PRO:HD3	1.88	0.56
1:BC:7:ILE:HD12	1:BC:115:GLN:HB3	1.87	0.56
1:CS:97:VAL:HG12	1:CS:109:MET:HE1	1.86	0.56
1:CX:118:PHE:HZ	1:CY:15:VAL:HG23	1.70	0.56
1:DO:68:GLN:HA	1:DO:99:PRO:HD3	1.86	0.56
1:DT:78:PRO:HB3	1:DT:86:ARG:NH1	2.21	0.56
1:EK:15:VAL:HG21	1:EL:115:GLN:HE21	1.71	0.56
1:AG:132:ALA:HB2	1:AH:28:ARG:HH12	1.71	0.56
1:AI:127:LYS:HD3	1:BP:103:ALA:HB1	1.88	0.56
1:BA:101:THR:HA	1:BJ:79:LYS:HE2	1.87	0.56
1:CJ:78:PRO:HB3	1:CJ:86:ARG:NH1	2.21	0.56
1:CR:132:ALA:HB2	1:CS:28:ARG:HH12	1.69	0.56
1:CS:33:LEU:HD12	1:CS:34:ASN:H	1.71	0.56
1:DH:97:VAL:HG12	1:DH:109:MET:HE1	1.86	0.56
1:DK:78:PRO:HB3	1:DK:86:ARG:HH12	1.71	0.56
1:EW:2:ILE:HD11	1:EW:125:PHE:HB2	1.88	0.56
1:AC:98:ASP:O	1:AC:101:THR:OG1	2.16	0.56
1:AD:116:LEU:HD13	1:AE:73:VAL:HG11	1.88	0.56
1:AH:33:LEU:HD12	1:AH:34:ASN:H	1.71	0.56
1:AP:44:GLN:HG3	1:AP:86:ARG:HD2	1.88	0.56
1:AP:118:PHE:HZ	1:AQ:15:VAL:HG23	1.70	0.56
1:BA:91:VAL:HG22	1:BJ:95:LEU:HD12	1.88	0.56
1:BX:10:ASP:OD1	1:BX:108:THR:OG1	2.18	0.56
1:CG:78:PRO:HB3	1:CG:86:ARG:HH12	1.71	0.56
1:DH:33:LEU:HD12	1:DH:34:ASN:H	1.71	0.56
1:ED:8:ALA:O	1:ED:11:SER:OG	2.17	0.56
1:ES:8:ALA:O	1:ES:11:SER:OG	2.18	0.56
1:FR:15:VAL:HG21	1:FS:115:GLN:HE21	1.71	0.56
1:GX:2:ILE:O	1:GX:5:SER:OG	2.17	0.56
1:AN:78:PRO:HB3	1:AN:86:ARG:HH12	1.72	0.56
1:BV:91:VAL:HG22	1:FB:95:LEU:HD12	1.87	0.56
1:CH:91:VAL:HG22	1:GF:95:LEU:HD12	1.87	0.56
1:DY:2:ILE:HD11	1:DY:125:PHE:HB2	1.88	0.56
1:AF:103:ALA:HB1	1:BM:127:LYS:HD3	1.88	0.55
1:BE:44:GLN:HG3	1:BE:86:ARG:HD2	1.89	0.55
1:EM:44:GLN:O	1:EM:86:ARG:NH2	2.39	0.55
1:GL:91:VAL:HG22	1:GU:95:LEU:HD12	1.87	0.55
1:GO:73:VAL:HG11	1:GX:116:LEU:HD13	1.88	0.55
1:GV:2:ILE:HD11	1:GV:125:PHE:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:7:ILE:HD12	1:AH:115:GLN:HB3	1.87	0.55
1:AU:2:ILE:O	1:AU:5:SER:OG	2.16	0.55
1:BE:118:PHE:HZ	1:BF:15:VAL:HG23	1.70	0.55
1:BN:44:GLN:HG3	1:BN:86:ARG:HD2	1.88	0.55
1:CB:68:GLN:HA	1:CB:99:PRO:HD3	1.86	0.55
1:CK:69:ALA:HB1	1:FZ:129:GLN:HE22	1.71	0.55
1:CT:103:ALA:HB1	1:FK:127:LYS:HD3	1.87	0.55
1:DI:103:ALA:HB1	1:EV:127:LYS:HD3	1.87	0.55
1:DP:44:GLN:HG3	1:DP:86:ARG:HD2	1.88	0.55
1:DS:116:LEU:HD13	1:DT:73:VAL:HG11	1.88	0.55
1:EU:33:LEU:HD12	1:EU:34:ASN:H	1.70	0.55
1:FW:54:LYS:HB3	1:FW:70:ARG:HG3	1.86	0.55
1:GH:33:LEU:HD12	1:GH:34:ASN:H	1.71	0.55
1:GH:97:VAL:HG12	1:GH:109:MET:HE1	1.89	0.55
1:CB:91:VAL:HG22	1:EY:95:LEU:HD12	1.88	0.55
1:CC:44:GLN:HG3	1:CC:86:ARG:HD2	1.88	0.55
1:CI:116:LEU:HD13	1:CJ:73:VAL:HG11	1.88	0.55
1:CT:127:LYS:HD3	1:FK:103:ALA:HB1	1.87	0.55
1:CU:116:LEU:HD13	1:CV:73:VAL:HG11	1.88	0.55
1:CZ:69:ALA:HB1	1:DX:129:GLN:NE2	2.22	0.55
1:DD:116:LEU:HD13	1:DE:73:VAL:HG11	1.88	0.55
1:DG:132:ALA:HB2	1:DH:28:ARG:HH12	1.71	0.55
1:DX:68:GLN:HA	1:DX:99:PRO:HD3	1.87	0.55
1:GE:78:PRO:HB3	1:GE:86:ARG:NH1	2.22	0.55
1:AH:10:ASP:OD1	1:AH:108:THR:OG1	2.15	0.55
1:AZ:78:PRO:HB3	1:AZ:86:ARG:HH12	1.72	0.55
1:BA:131:LEU:HG	1:BJ:53:VAL:HG13	1.88	0.55
1:BB:132:ALA:HB2	1:BC:28:ARG:HH12	1.71	0.55
1:BQ:118:PHE:HZ	1:BR:15:VAL:HG23	1.70	0.55
1:CQ:91:VAL:HG22	1:FH:95:LEU:HD12	1.88	0.55
1:GN:7:ILE:HD11	1:GN:122:TYR:HE2	1.72	0.55
1:AC:129:GLN:NE2	1:BS:69:ALA:HB1	2.22	0.55
1:AL:95:LEU:HD12	1:EM:91:VAL:HG22	1.87	0.55
1:AU:127:LYS:HD3	1:BD:103:ALA:HB1	1.87	0.55
1:BY:53:VAL:HG13	1:FE:131:LEU:HG	1.87	0.55
1:BY:91:VAL:HG22	1:FE:95:LEU:HD12	1.89	0.55
1:CK:95:LEU:HD12	1:FZ:91:VAL:HG22	1.87	0.55
1:CL:44:GLN:HG3	1:CL:86:ARG:HD2	1.89	0.55
1:CX:44:GLN:HG3	1:CX:86:ARG:HD2	1.88	0.55
1:EV:54:LYS:HB3	1:EV:70:ARG:HG3	1.87	0.55
1:GT:78:PRO:HB3	1:GT:86:ARG:NH1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:91:VAL:HG22	1:BG:95:LEU:HD12	1.87	0.55
1:BD:68:GLN:HA	1:BD:99:PRO:HD3	1.89	0.55
1:CN:95:LEU:HD12	1:FN:91:VAL:HG22	1.87	0.55
1:CQ:68:GLN:HA	1:CQ:99:PRO:HD3	1.86	0.55
1:CZ:116:LEU:HD13	1:DX:73:VAL:HG11	1.89	0.55
1:DO:91:VAL:HG22	1:FT:95:LEU:HD12	1.88	0.55
1:DP:132:ALA:HB2	1:DQ:28:ARG:HH12	1.71	0.55
1:DU:69:ALA:HB1	1:FQ:129:GLN:HE22	1.70	0.55
1:EB:29:ASN:OD1	1:GT:29:ASN:HB2	2.06	0.55
1:FL:118:PHE:HZ	1:FM:15:VAL:HG23	1.72	0.55
1:AA:44:GLN:HG3	1:AA:86:ARG:HD2	1.88	0.55
1:AC:10:ASP:OD1	1:AC:108:THR:OG1	2.18	0.55
1:BX:78:PRO:HB3	1:BX:86:ARG:NH1	2.20	0.55
1:CE:95:LEU:HD12	1:GC:91:VAL:HG22	1.87	0.55
1:DA:44:GLN:HG3	1:DA:86:ARG:HD2	1.89	0.55
1:DY:124:ASP:OD1	1:DY:124:ASP:N	2.28	0.55
1:EY:44:GLN:O	1:EY:86:ARG:NH2	2.38	0.55
1:GV:124:ASP:OD1	1:GV:124:ASP:N	2.28	0.55
1:AG:44:GLN:HG3	1:AG:86:ARG:HD2	1.88	0.55
1:AS:44:GLN:HG3	1:AS:86:ARG:HD2	1.88	0.55
1:AX:73:VAL:HG11	1:BG:116:LEU:HD13	1.89	0.55
1:CE:91:VAL:HG22	1:GC:95:LEU:HD12	1.89	0.55
1:CL:2:ILE:HD11	1:CL:125:PHE:HB2	1.89	0.55
1:CM:44:GLN:O	1:CM:86:ARG:NH1	2.40	0.55
1:CW:2:ILE:O	1:CW:5:SER:OG	2.18	0.55
1:EB:124:ASP:OD1	1:EB:124:ASP:N	2.29	0.55
1:EV:25:GLU:HG2	1:FX:132:ALA:HB3	1.88	0.55
1:FH:44:GLN:O	1:FH:86:ARG:NH2	2.39	0.55
1:FU:132:ALA:HB2	1:FV:28:ARG:HH12	1.72	0.55
1:AJ:44:GLN:HG3	1:AJ:86:ARG:HD2	1.89	0.55
1:AO:101:THR:HA	1:EG:79:LYS:HE2	1.89	0.55
1:BQ:44:GLN:HG3	1:BQ:86:ARG:HD2	1.89	0.55
1:DC:73:VAL:HG11	1:EA:116:LEU:HD13	1.89	0.55
1:DX:25:GLU:OE2	1:GW:28:ARG:NH1	2.40	0.55
1:DY:15:VAL:HG21	1:DZ:115:GLN:HE21	1.71	0.55
1:EQ:124:ASP:OD1	1:EQ:124:ASP:N	2.29	0.55
1:FA:78:PRO:HB3	1:FA:86:ARG:NH1	2.22	0.55
1:GB:7:ILE:HD11	1:GB:122:TYR:HE2	1.72	0.55
1:GV:15:VAL:HG21	1:GW:115:GLN:HE21	1.70	0.55
1:BP:68:GLN:HA	1:BP:99:PRO:HD3	1.88	0.55
1:BV:101:THR:HA	1:FB:79:LYS:HE2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CW:91:VAL:HG22	1:ED:95:LEU:HD12	1.89	0.55
1:DF:2:ILE:O	1:DF:5:SER:OG	2.18	0.55
1:DF:91:VAL:HG22	1:ES:95:LEU:HD12	1.89	0.55
1:DO:25:GLU:OE2	1:DZ:28:ARG:NH1	2.40	0.55
1:DU:91:VAL:HG22	1:FQ:95:LEU:HD12	1.89	0.55
1:AP:29:ASN:OD1	1:BC:29:ASN:HB2	2.07	0.54
1:AR:127:LYS:HD3	1:EJ:103:ALA:HB1	1.89	0.54
1:AX:95:LEU:HD12	1:BG:91:VAL:HG22	1.89	0.54
1:CK:91:VAL:HG22	1:FZ:95:LEU:HD12	1.89	0.54
1:DB:86:ARG:HD2	1:GD:66:PHE:CE2	2.42	0.54
1:DC:91:VAL:HG22	1:EA:95:LEU:HD12	1.88	0.54
1:EW:118:PHE:HZ	1:EX:15:VAL:HG23	1.72	0.54
1:GL:103:ALA:HB1	1:GU:127:LYS:HD3	1.89	0.54
1:CM:28:ARG:NH1	1:DC:25:GLU:OE2	2.40	0.54
1:CN:91:VAL:HG22	1:FN:95:LEU:HD12	1.89	0.54
1:CR:44:GLN:HG3	1:CR:86:ARG:HD2	1.88	0.54
1:DI:68:GLN:HA	1:DI:99:PRO:HD3	1.88	0.54
1:FF:118:PHE:HZ	1:FG:15:VAL:HG23	1.72	0.54
1:FW:68:GLN:HA	1:FW:99:PRO:HD3	1.88	0.54
1:GG:28:ARG:HH12	1:GH:132:ALA:HB2	1.71	0.54
1:AC:25:GLU:OE2	1:AQ:28:ARG:NH1	2.40	0.54
1:AC:73:VAL:HG11	1:BS:116:LEU:HD13	1.89	0.54
1:AF:95:LEU:HD12	1:BM:91:VAL:HG22	1.88	0.54
1:AL:25:GLU:OE2	1:BF:28:ARG:NH1	2.40	0.54
1:AL:91:VAL:HG22	1:EM:95:LEU:HD12	1.88	0.54
1:BO:33:LEU:HD12	1:BO:34:ASN:H	1.71	0.54
1:CC:2:ILE:HD11	1:CC:125:PHE:HB2	1.89	0.54
1:FK:68:GLN:HA	1:FK:99:PRO:HD3	1.89	0.54
1:FR:2:ILE:HD11	1:FR:125:PHE:HB2	1.88	0.54
1:GA:118:PHE:HZ	1:GB:15:VAL:HG23	1.72	0.54
1:AI:68:GLN:HA	1:AI:99:PRO:HD3	1.89	0.54
1:AR:95:LEU:HD12	1:EJ:91:VAL:HG22	1.88	0.54
1:BH:116:LEU:HD13	1:BI:73:VAL:HG11	1.88	0.54
1:BL:78:PRO:HB3	1:BL:86:ARG:HH12	1.71	0.54
1:BR:10:ASP:OD1	1:BR:108:THR:OG1	2.19	0.54
1:BW:116:LEU:HD13	1:BX:73:VAL:HG11	1.88	0.54
1:CH:129:GLN:NE2	1:GF:69:ALA:HB1	2.23	0.54
1:DR:68:GLN:HA	1:DR:99:PRO:HD3	1.89	0.54
1:FR:118:PHE:HZ	1:FS:15:VAL:HG23	1.72	0.54
1:FU:33:LEU:HB2	1:FV:131:LEU:HD22	1.89	0.54
1:AB:86:ARG:HD2	1:EZ:66:PHE:CE2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:28:ARG:HD2	1:FE:28:ARG:HE	1.73	0.54
1:AR:91:VAL:HG22	1:EJ:95:LEU:HD12	1.89	0.54
1:AU:103:ALA:HB1	1:BD:127:LYS:HD3	1.88	0.54
1:BB:44:GLN:HG3	1:BB:86:ARG:HD2	1.88	0.54
1:CR:28:ARG:HH12	1:CS:132:ALA:HB2	1.72	0.54
1:CW:127:LYS:HD3	1:ED:103:ALA:HB1	1.89	0.54
1:DF:127:LYS:HD3	1:ES:103:ALA:HB1	1.89	0.54
1:EJ:32:GLU:HG2	1:EJ:51:PHE:O	2.08	0.54
1:EK:29:ASN:OD1	1:FJ:29:ASN:HB2	2.08	0.54
1:FF:29:ASN:OD1	1:FV:29:ASN:HB2	2.08	0.54
1:FI:132:ALA:HB2	1:FJ:28:ARG:HH12	1.72	0.54
1:GH:10:ASP:OD1	1:GH:108:THR:OG1	2.19	0.54
1:AE:44:GLN:OE1	1:FC:100:GLU:HG2	2.08	0.54
1:AL:73:VAL:HG11	1:EM:116:LEU:HD13	1.89	0.54
1:AT:33:LEU:HD12	1:AT:34:ASN:H	1.72	0.54
1:AX:25:GLU:OE2	1:EX:28:ARG:NH1	2.40	0.54
1:AX:129:GLN:NE2	1:BG:69:ALA:HB1	2.22	0.54
1:BR:44:GLN:O	1:BR:86:ARG:NH1	2.40	0.54
1:BW:100:GLU:HG2	1:EI:44:GLN:OE1	2.08	0.54
1:BY:69:ALA:HB1	1:FE:129:GLN:HE22	1.71	0.54
1:BZ:44:GLN:HG3	1:BZ:86:ARG:HD2	1.88	0.54
1:CB:25:GLU:OE2	1:EL:28:ARG:NH1	2.40	0.54
1:DE:28:ARG:HD2	1:FQ:28:ARG:HE	1.73	0.54
1:GG:33:LEU:HB2	1:GH:131:LEU:HD22	1.89	0.54
1:GQ:97:VAL:HG12	1:GQ:109:MET:HE1	1.90	0.54
1:BB:28:ARG:HH12	1:BC:132:ALA:HB2	1.73	0.54
1:CD:44:GLN:OE1	1:GM:100:GLU:HG2	2.08	0.54
1:CI:66:PHE:CE2	1:DN:86:ARG:HD2	2.43	0.54
1:CQ:98:ASP:O	1:CQ:101:THR:OG1	2.16	0.54
1:CT:68:GLN:HA	1:CT:99:PRO:HD3	1.89	0.54
1:CV:28:ARG:HD2	1:FZ:28:ARG:HE	1.73	0.54
1:DS:66:PHE:CE2	1:DW:86:ARG:HD2	2.43	0.54
1:DY:118:PHE:HZ	1:DZ:15:VAL:HG23	1.72	0.54
1:EK:118:PHE:HZ	1:EL:15:VAL:HG23	1.72	0.54
1:GP:33:LEU:HB2	1:GQ:131:LEU:HD22	1.89	0.54
1:BI:78:PRO:HB3	1:BI:86:ARG:NH1	2.22	0.54
1:BK:30:ASN:H	1:EO:29:ASN:CG	2.12	0.54
1:DG:44:GLN:HG3	1:DG:86:ARG:HD2	1.88	0.54
1:DM:44:GLN:HG3	1:DM:86:ARG:HD2	1.88	0.54
1:DO:73:VAL:HG11	1:FT:116:LEU:HD13	1.89	0.54
1:DU:127:LYS:HD3	1:FQ:103:ALA:HB1	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:118:PHE:HZ	1:EC:15:VAL:HG23	1.73	0.54
1:EJ:44:GLN:O	1:EJ:86:ARG:NH2	2.41	0.54
1:EK:2:ILE:HD11	1:EK:125:PHE:HB2	1.88	0.54
1:EQ:2:ILE:HD11	1:EQ:125:PHE:HB2	1.90	0.54
1:GO:103:ALA:HB1	1:GX:127:LYS:HD3	1.88	0.54
1:AW:44:GLN:OE1	1:BH:100:GLU:HG2	2.08	0.54
1:AW:86:ARG:HD2	1:BH:66:PHE:CE2	2.42	0.54
1:AY:118:PHE:HZ	1:AZ:15:VAL:HG23	1.73	0.54
1:BQ:2:ILE:HD11	1:BQ:125:PHE:HB2	1.89	0.54
1:CZ:91:VAL:HG22	1:DX:95:LEU:HD12	1.89	0.54
1:EB:2:ILE:HD11	1:EB:125:PHE:HB2	1.90	0.54
1:ET:132:ALA:HB2	1:EU:28:ARG:HH12	1.73	0.54
1:FO:118:PHE:HZ	1:FP:15:VAL:HG23	1.73	0.54
1:GO:32:GLU:HG2	1:GO:51:PHE:O	2.08	0.54
1:GP:132:ALA:HB2	1:GQ:28:ARG:HH12	1.72	0.54
1:CA:44:GLN:OE1	1:DD:100:GLU:HG2	2.08	0.54
1:CN:116:LEU:HD13	1:FN:73:VAL:HG11	1.90	0.54
1:CW:69:ALA:HB1	1:ED:129:GLN:HE22	1.72	0.54
1:DV:44:GLN:HG3	1:DV:86:ARG:HD2	1.89	0.54
1:DY:29:ASN:OD1	1:GQ:29:ASN:HB2	2.08	0.54
1:EF:78:PRO:HB3	1:EF:86:ARG:NH1	2.22	0.54
1:EQ:118:PHE:HZ	1:ER:15:VAL:HG23	1.73	0.54
1:EU:97:VAL:HG12	1:EU:109:MET:HE1	1.89	0.54
1:AE:10:ASP:OD1	1:AE:108:THR:OG1	2.18	0.53
1:AV:44:GLN:HG3	1:AV:86:ARG:HD2	1.88	0.53
1:BT:118:PHE:HZ	1:BU:15:VAL:HG23	1.73	0.53
1:CE:116:LEU:HD13	1:GC:73:VAL:HG11	1.90	0.53
1:CF:30:ASN:H	1:DT:29:ASN:CG	2.11	0.53
1:CF:118:PHE:HZ	1:CG:15:VAL:HG23	1.73	0.53
1:CH:131:LEU:HG	1:GF:53:VAL:HG13	1.90	0.53
1:CK:127:LYS:HD3	1:FZ:103:ALA:HB1	1.90	0.53
1:CO:44:GLN:HG3	1:CO:86:ARG:HD2	1.89	0.53
1:CP:44:GLN:OE1	1:CU:100:GLU:HG2	2.08	0.53
1:CV:44:GLN:OE1	1:FX:100:GLU:HG2	2.08	0.53
1:DE:44:GLN:OE1	1:FO:100:GLU:HG2	2.08	0.53
1:DF:69:ALA:HB1	1:ES:129:GLN:HE22	1.72	0.53
1:EE:100:GLU:HG2	1:FM:44:GLN:OE1	2.07	0.53
1:EH:118:PHE:HZ	1:EI:15:VAL:HG23	1.72	0.53
1:FJ:97:VAL:HG12	1:FJ:109:MET:HE1	1.90	0.53
1:FX:118:PHE:HZ	1:FY:15:VAL:HG23	1.73	0.53
1:GJ:118:PHE:HZ	1:GK:15:VAL:HG23	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GN:86:ARG:HD2	1:GS:66:PHE:CE2	2.43	0.53
1:AD:66:PHE:CE2	1:AK:86:ARG:HD2	2.43	0.53
1:AF:53:VAL:HG13	1:BM:131:LEU:HG	1.89	0.53
1:AM:118:PHE:HZ	1:AN:15:VAL:HG23	1.73	0.53
1:BQ:29:ASN:OD1	1:EU:29:ASN:HB2	2.08	0.53
1:BR:28:ARG:NH1	1:CQ:25:GLU:OE2	2.40	0.53
1:GJ:2:ILE:HD11	1:GJ:125:PHE:HB2	1.91	0.53
1:GN:44:GLN:OE1	1:GS:100:GLU:HG2	2.07	0.53
1:GV:118:PHE:HZ	1:GW:15:VAL:HG23	1.72	0.53
1:AP:2:ILE:HD11	1:AP:125:PHE:HB2	1.89	0.53
1:BX:44:GLN:OE1	1:DJ:100:GLU:HG2	2.09	0.53
1:CB:73:VAL:HG11	1:EY:116:LEU:HD13	1.89	0.53
1:CM:44:GLN:OE1	1:DA:100:GLU:HG2	2.08	0.53
1:CP:10:ASP:OD1	1:CP:108:THR:OG1	2.15	0.53
1:DL:95:LEU:HD12	1:EP:91:VAL:HG22	1.91	0.53
1:DL:131:LEU:HG	1:EP:53:VAL:HG13	1.91	0.53
1:EE:66:PHE:CE2	1:FM:86:ARG:HD2	2.43	0.53
1:EN:66:PHE:CE2	1:GB:86:ARG:HD2	2.43	0.53
1:EN:100:GLU:HG2	1:GB:44:GLN:OE1	2.07	0.53
1:FE:21:ARG:HE	1:FE:39:GLU:HA	1.74	0.53
1:BX:44:GLN:O	1:BX:86:ARG:NH1	2.41	0.53
1:CA:86:ARG:HD2	1:DD:66:PHE:CE2	2.43	0.53
1:CH:95:LEU:HD12	1:GF:91:VAL:HG22	1.91	0.53
1:DB:44:GLN:OE1	1:GD:100:GLU:HG2	2.08	0.53
1:DC:10:ASP:OD1	1:DC:108:THR:OG1	2.18	0.53
1:DS:100:GLU:HG2	1:DW:44:GLN:OE1	2.08	0.53
1:DT:44:GLN:O	1:DT:86:ARG:NH1	2.42	0.53
1:DY:28:ARG:HG3	1:DY:28:ARG:O	2.08	0.53
1:EI:7:ILE:HD12	1:EI:115:GLN:HB3	1.90	0.53
1:EM:25:GLU:HG2	1:FI:132:ALA:HB3	1.91	0.53
1:FC:118:PHE:HZ	1:FD:15:VAL:HG23	1.73	0.53
1:AO:95:LEU:HD12	1:EG:91:VAL:HG22	1.91	0.53
1:BE:2:ILE:HD11	1:BE:125:PHE:HB2	1.89	0.53
1:BY:2:ILE:O	1:BY:5:SER:OG	2.18	0.53
1:CE:127:LYS:HD3	1:GC:103:ALA:HB1	1.89	0.53
1:CJ:44:GLN:O	1:CJ:86:ARG:NH1	2.42	0.53
1:CP:86:ARG:HD2	1:CU:66:PHE:CE2	2.43	0.53
1:DJ:118:PHE:HZ	1:DK:15:VAL:HG23	1.73	0.53
1:AC:95:LEU:HD12	1:BS:91:VAL:HG22	1.89	0.53
1:AO:131:LEU:HG	1:EG:53:VAL:HG13	1.91	0.53
1:AR:116:LEU:HD13	1:EJ:73:VAL:HG11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:78:PRO:HB3	1:CD:86:ARG:NH1	2.24	0.53
1:CX:2:ILE:HD11	1:CX:125:PHE:HB2	1.89	0.53
1:EA:25:GLU:HG2	1:GP:132:ALA:HB3	1.91	0.53
1:FO:2:ILE:HD11	1:FO:125:PHE:HB2	1.90	0.53
1:FX:2:ILE:HD11	1:FX:125:PHE:HB2	1.90	0.53
1:AB:7:ILE:HD11	1:AB:122:TYR:HE2	1.74	0.53
1:BK:118:PHE:HZ	1:BL:15:VAL:HG23	1.73	0.53
1:BV:93:ILE:HD13	1:FB:117:LEU:HD11	1.90	0.53
1:CI:100:GLU:HG2	1:DN:44:GLN:OE1	2.08	0.53
1:CJ:44:GLN:OE1	1:GJ:100:GLU:HG2	2.08	0.53
1:CN:127:LYS:HD3	1:FN:103:ALA:HB1	1.89	0.53
1:CQ:73:VAL:HG11	1:FH:116:LEU:HD13	1.89	0.53
1:DL:129:GLN:NE2	1:EP:69:ALA:HB1	2.23	0.53
1:GC:98:ASP:O	1:GC:101:THR:OG1	2.16	0.53
1:GM:118:PHE:HZ	1:GN:15:VAL:HG23	1.72	0.53
1:AI:8:ALA:HB3	1:AI:115:GLN:HE22	1.74	0.53
1:BR:44:GLN:OE1	1:CO:100:GLU:HG2	2.08	0.53
1:CA:7:ILE:HD11	1:CA:122:TYR:HE2	1.74	0.53
1:CJ:28:ARG:HD2	1:GL:28:ARG:HE	1.73	0.53
1:CM:78:PRO:HB3	1:CM:86:ARG:NH1	2.24	0.53
1:DI:8:ALA:HB3	1:DI:115:GLN:HE22	1.74	0.53
1:ED:21:ARG:HE	1:ED:39:GLU:HA	1.74	0.53
1:ES:21:ARG:HE	1:ES:39:GLU:HA	1.74	0.53
1:FC:2:ILE:HD11	1:FC:125:PHE:HB2	1.90	0.53
1:FN:32:GLU:HG2	1:FN:51:PHE:O	2.08	0.53
1:GL:21:ARG:HE	1:GL:39:GLU:HA	1.74	0.53
1:GR:54:LYS:HB3	1:GR:70:ARG:HG3	1.91	0.53
1:AO:129:GLN:NE2	1:EG:69:ALA:HB1	2.23	0.53
1:BN:28:ARG:NH1	1:BO:132:ALA:HB2	2.24	0.53
1:CY:78:PRO:HB3	1:CY:86:ARG:NH1	2.24	0.53
1:DN:7:ILE:HD11	1:DN:122:TYR:HE2	1.74	0.53
1:DO:103:ALA:HB1	1:FT:127:LYS:HD3	1.91	0.53
1:FF:28:ARG:HG3	1:FF:28:ARG:O	2.08	0.53
1:FL:124:ASP:OD1	1:FL:124:ASP:N	2.29	0.53
1:GA:114:ALA:O	1:GA:117:LEU:HD12	2.09	0.53
1:GL:95:LEU:HD12	1:GU:91:VAL:HG22	1.91	0.53
1:GM:114:ALA:O	1:GM:117:LEU:HD12	2.09	0.53
1:AD:2:ILE:HD11	1:AD:125:PHE:HB2	1.91	0.53
1:BH:2:ILE:HD11	1:BH:125:PHE:HB2	1.91	0.53
1:BY:127:LYS:HD3	1:FE:103:ALA:HB1	1.90	0.53
1:CF:100:GLU:HG2	1:DT:44:GLN:OE1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:2:ILE:O	1:FB:5:SER:OG	2.18	0.53
1:FL:114:ALA:O	1:FL:117:LEU:HD12	2.09	0.53
1:FM:7:ILE:HD11	1:FM:122:TYR:HE2	1.73	0.53
1:GC:32:GLU:HG2	1:GC:51:PHE:O	2.08	0.53
1:GC:44:GLN:O	1:GC:86:ARG:NH2	2.42	0.53
1:GD:28:ARG:NH1	1:GE:132:ALA:HB3	2.25	0.53
1:GS:28:ARG:NH1	1:GT:132:ALA:HB3	2.24	0.53
1:AE:44:GLN:O	1:AE:86:ARG:NH1	2.42	0.52
1:AI:129:GLN:HE22	1:BP:55:VAL:HA	1.75	0.52
1:AS:28:ARG:NH1	1:AT:132:ALA:HB2	2.24	0.52
1:BV:95:LEU:HD12	1:FB:91:VAL:HG22	1.91	0.52
1:CB:98:ASP:O	1:CB:101:THR:OG1	2.17	0.52
1:CU:2:ILE:HD11	1:CU:125:PHE:HB2	1.91	0.52
1:DG:28:ARG:HH12	1:DH:132:ALA:HB2	1.73	0.52
1:DW:7:ILE:HD11	1:DW:122:TYR:HE2	1.74	0.52
1:FV:97:VAL:HG12	1:FV:109:MET:HE1	1.89	0.52
1:AD:100:GLU:HG2	1:AK:44:GLN:OE1	2.08	0.52
1:BW:66:PHE:CE2	1:EI:86:ARG:HD2	2.43	0.52
1:CH:93:ILE:HD13	1:GF:117:LEU:HD11	1.90	0.52
1:CN:53:VAL:HG13	1:FN:131:LEU:HG	1.91	0.52
1:FN:44:GLN:O	1:FN:86:ARG:NH2	2.43	0.52
1:FN:98:ASP:O	1:FN:101:THR:OG1	2.16	0.52
1:AB:44:GLN:OE1	1:EZ:100:GLU:HG2	2.08	0.52
1:CC:29:ASN:OD1	1:DQ:29:ASN:HB2	2.08	0.52
1:DD:2:ILE:HD11	1:DD:125:PHE:HB2	1.92	0.52
1:DD:28:ARG:NH1	1:DE:132:ALA:HB3	2.25	0.52
1:DE:44:GLN:O	1:DE:86:ARG:NH1	2.42	0.52
1:DL:93:ILE:HD13	1:EP:117:LEU:HD11	1.90	0.52
1:FM:7:ILE:HD12	1:FM:115:GLN:HB3	1.89	0.52
1:AB:97:VAL:HG12	1:AB:109:MET:HE1	1.92	0.52
1:AX:103:ALA:HB1	1:BG:127:LYS:HD3	1.92	0.52
1:BD:8:ALA:HB3	1:BD:115:GLN:HE22	1.74	0.52
1:BT:30:ASN:H	1:EF:29:ASN:CG	2.13	0.52
1:BW:2:ILE:HD11	1:BW:125:PHE:HB2	1.92	0.52
1:DO:44:GLN:O	1:DO:86:ARG:NH2	2.42	0.52
1:DW:10:ASP:OD1	1:DW:108:THR:OG1	2.15	0.52
1:EQ:30:ASN:H	1:GE:29:ASN:CG	2.12	0.52
1:EZ:116:LEU:HD13	1:FA:73:VAL:HG11	1.91	0.52
1:AU:55:VAL:HA	1:BD:129:GLN:HE22	1.75	0.52
1:BP:25:GLU:HG2	1:EQ:132:ALA:HB3	1.92	0.52
1:CV:10:ASP:OD1	1:CV:108:THR:OG1	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CV:44:GLN:O	1:CV:86:ARG:NH1	2.42	0.52
1:EZ:28:ARG:NH1	1:FA:132:ALA:HB3	2.24	0.52
1:AH:25:GLU:OE2	1:EW:28:ARG:NH1	2.43	0.52
1:BX:28:ARG:HD2	1:DL:28:ARG:HE	1.73	0.52
1:CB:103:ALA:HB1	1:EY:127:LYS:HD3	1.91	0.52
1:CQ:103:ALA:HB1	1:FH:127:LYS:HD3	1.91	0.52
1:CY:44:GLN:OE1	1:GA:100:GLU:HG2	2.08	0.52
1:EK:28:ARG:O	1:EK:28:ARG:HG3	2.08	0.52
1:EQ:56:PRO:HG3	1:EQ:69:ALA:HB2	1.92	0.52
1:FI:56:PRO:HG3	1:FI:69:ALA:HB2	1.92	0.52
1:AU:8:ALA:HB3	1:AU:115:GLN:HE22	1.75	0.52
1:AU:129:GLN:HE22	1:BD:55:VAL:HA	1.75	0.52
1:CB:44:GLN:O	1:CB:86:ARG:NH2	2.42	0.52
1:CZ:53:VAL:HG13	1:DX:131:LEU:HG	1.92	0.52
1:EH:114:ALA:O	1:EH:117:LEU:HD12	2.10	0.52
1:GO:44:GLN:O	1:GO:86:ARG:NH2	2.43	0.52
1:AO:93:ILE:HD13	1:EG:117:LEU:HD11	1.90	0.52
1:BQ:28:ARG:O	1:BQ:28:ARG:HG3	2.09	0.52
1:BR:78:PRO:HB3	1:BR:86:ARG:NH1	2.24	0.52
1:CE:53:VAL:HG13	1:GC:131:LEU:HG	1.92	0.52
1:EN:30:ASN:H	1:GB:29:ASN:CG	2.13	0.52
1:EN:116:LEU:HD13	1:EO:73:VAL:HG11	1.91	0.52
1:ET:33:LEU:HB2	1:EU:131:LEU:HD22	1.90	0.52
1:FT:36:TYR:HA	1:FT:48:GLU:HA	1.92	0.52
1:AY:30:ASN:H	1:FA:29:ASN:CG	2.13	0.52
1:CR:132:ALA:HB3	1:CZ:25:GLU:HG2	1.90	0.52
1:CZ:127:LYS:HD3	1:DX:103:ALA:HB1	1.92	0.52
1:DS:2:ILE:HD11	1:DS:125:PHE:HB2	1.91	0.52
1:EB:56:PRO:HG3	1:EB:69:ALA:HB2	1.92	0.52
1:EE:116:LEU:HD13	1:EF:73:VAL:HG11	1.91	0.52
1:EH:116:LEU:HD13	1:EI:73:VAL:HG11	1.92	0.52
1:EI:7:ILE:HD11	1:EI:122:TYR:HE2	1.75	0.52
1:ET:56:PRO:HG3	1:ET:69:ALA:HB2	1.92	0.52
1:GG:132:ALA:HB3	1:GX:25:GLU:HG2	1.92	0.52
1:GH:25:GLU:OE1	1:GV:28:ARG:NH1	2.43	0.52
1:AU:25:GLU:HG2	1:FC:132:ALA:HB3	1.92	0.52
1:AW:7:ILE:HD11	1:AW:122:TYR:HE2	1.74	0.52
1:CC:28:ARG:HG3	1:CC:28:ARG:O	2.09	0.52
1:DC:103:ALA:HB1	1:EA:127:LYS:HD3	1.91	0.52
1:FX:56:PRO:HG3	1:FX:69:ALA:HB2	1.92	0.52
1:BA:93:ILE:HD13	1:BJ:117:LEU:HD11	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:10:ASP:OD1	1:BF:108:THR:OG1	2.19	0.51
1:BU:29:ASN:ND2	1:DG:29:ASN:OD1	2.44	0.51
1:EA:36:TYR:HA	1:EA:48:GLU:HA	1.92	0.51
1:FC:56:PRO:HG3	1:FC:69:ALA:HB2	1.92	0.51
1:FH:25:GLU:HG2	1:FU:132:ALA:HB3	1.91	0.51
1:GX:36:TYR:HA	1:GX:48:GLU:HA	1.92	0.51
1:AQ:10:ASP:OD1	1:AQ:108:THR:OG1	2.19	0.51
1:AF:117:LEU:HD11	1:BM:93:ILE:HD13	1.91	0.51
1:FH:98:ASP:O	1:FH:101:THR:OG1	2.22	0.51
1:FV:10:ASP:OD2	1:FV:108:THR:OG1	2.19	0.51
1:AR:53:VAL:HG13	1:EJ:131:LEU:HG	1.92	0.51
1:BL:29:ASN:ND2	1:CR:29:ASN:OD1	2.44	0.51
1:BU:78:PRO:HB3	1:BU:86:ARG:HH12	1.72	0.51
1:CG:29:ASN:ND2	1:GG:29:ASN:OD1	2.43	0.51
1:DW:86:ARG:HG2	1:DW:86:ARG:HH11	1.76	0.51
1:FO:56:PRO:HG3	1:FO:69:ALA:HB2	1.92	0.51
1:GI:79:LYS:HE2	1:GR:105:GLU:OE2	2.10	0.51
1:AM:30:ASN:H	1:BI:29:ASN:CG	2.13	0.51
1:CI:2:ILE:HD11	1:CI:125:PHE:HB2	1.92	0.51
1:DN:86:ARG:HG2	1:DN:86:ARG:HH11	1.76	0.51
1:FZ:21:ARG:HE	1:FZ:39:GLU:HA	1.74	0.51
1:AW:86:ARG:HG2	1:AW:86:ARG:HH11	1.75	0.51
1:AX:131:LEU:HG	1:BG:53:VAL:HG13	1.92	0.51
1:BA:95:LEU:HD12	1:BJ:91:VAL:HG22	1.92	0.51
1:CH:21:ARG:HE	1:CH:39:GLU:HA	1.76	0.51
1:CQ:29:ASN:ND2	1:CQ:32:GLU:OE1	2.44	0.51
1:CT:8:ALA:HB3	1:CT:115:GLN:HE22	1.76	0.51
1:ES:37:ILE:HD12	1:ES:47:LYS:HB2	1.93	0.51
1:FE:37:ILE:HD12	1:FE:47:LYS:HB2	1.93	0.51
1:GM:117:LEU:HD23	1:GN:93:ILE:HG21	1.93	0.51
1:AC:131:LEU:HG	1:BS:53:VAL:HG13	1.93	0.51
1:AF:91:VAL:HG22	1:BM:95:LEU:HD12	1.92	0.51
1:AI:55:VAL:HA	1:BP:129:GLN:HE22	1.75	0.51
1:EI:10:ASP:OD1	1:EI:108:THR:OG1	2.19	0.51
1:EX:7:ILE:HD12	1:EX:115:GLN:HB3	1.93	0.51
1:FQ:21:ARG:HE	1:FQ:39:GLU:HA	1.74	0.51
1:GK:29:ASN:ND2	1:GP:29:ASN:OD1	2.44	0.51
1:AC:103:ALA:HB1	1:BS:127:LYS:HD3	1.92	0.51
1:AL:103:ALA:HB1	1:EM:127:LYS:HD3	1.91	0.51
1:AY:56:PRO:HG3	1:AY:69:ALA:HB2	1.93	0.51
1:AZ:29:ASN:ND2	1:BB:29:ASN:OD1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:21:ARG:HE	1:BM:39:GLU:HA	1.76	0.51
1:DD:56:PRO:HG3	1:DD:69:ALA:HB2	1.93	0.51
1:DZ:7:ILE:HD12	1:DZ:115:GLN:HB3	1.93	0.51
1:FG:7:ILE:HD12	1:FG:115:GLN:HB3	1.93	0.51
1:FI:116:LEU:HD13	1:FJ:73:VAL:HG11	1.93	0.51
1:AR:8:ALA:O	1:AR:11:SER:OG	2.28	0.51
1:BH:28:ARG:NH1	1:BI:132:ALA:HB3	2.24	0.51
1:CU:56:PRO:HG3	1:CU:69:ALA:HB2	1.93	0.51
1:EH:117:LEU:HD23	1:EI:93:ILE:HG21	1.93	0.51
1:EY:36:TYR:HA	1:EY:48:GLU:HA	1.92	0.51
1:GD:56:PRO:HG3	1:GD:69:ALA:HB2	1.93	0.51
1:GS:56:PRO:HG3	1:GS:69:ALA:HB2	1.93	0.51
1:CW:83:ASN:HD22	1:CW:85:ASN:H	1.58	0.51
1:DX:10:ASP:OD1	1:DX:108:THR:OG1	2.18	0.51
1:ED:37:ILE:HD12	1:ED:47:LYS:HB2	1.93	0.51
1:EM:36:TYR:HA	1:EM:48:GLU:HA	1.92	0.51
1:ET:116:LEU:HD13	1:EU:73:VAL:HG11	1.93	0.51
1:FH:36:TYR:HA	1:FH:48:GLU:HA	1.92	0.51
1:FK:54:LYS:HB3	1:FK:70:ARG:HG3	1.92	0.51
1:FL:116:LEU:HD13	1:FM:73:VAL:HG11	1.92	0.51
1:FZ:37:ILE:HD12	1:FZ:47:LYS:HB2	1.93	0.51
1:GA:116:LEU:HD13	1:GB:73:VAL:HG11	1.92	0.51
1:GM:116:LEU:HD13	1:GN:73:VAL:HG11	1.92	0.51
1:BA:68:GLN:HB3	1:BA:97:VAL:O	2.11	0.50
1:BA:129:GLN:NE2	1:BJ:71:SER:OG	2.43	0.50
1:BV:21:ARG:HE	1:BV:39:GLU:HA	1.76	0.50
1:CZ:36:TYR:HA	1:CZ:48:GLU:HA	1.94	0.50
1:DB:86:ARG:HG2	1:DB:86:ARG:HH11	1.75	0.50
1:DO:10:ASP:OD1	1:DO:108:THR:OG1	2.17	0.50
1:EE:56:PRO:HG3	1:EE:69:ALA:HB2	1.93	0.50
1:EN:56:PRO:HG3	1:EN:69:ALA:HB2	1.93	0.50
1:FS:7:ILE:HD12	1:FS:115:GLN:HB3	1.93	0.50
1:GD:116:LEU:HD13	1:GE:73:VAL:HG11	1.92	0.50
1:GG:56:PRO:HG3	1:GG:69:ALA:HB2	1.92	0.50
1:GJ:56:PRO:HG3	1:GJ:69:ALA:HB2	1.92	0.50
1:GP:56:PRO:HG3	1:GP:69:ALA:HB2	1.92	0.50
1:AB:86:ARG:HG2	1:AB:86:ARG:HH11	1.75	0.50
1:CZ:131:LEU:HG	1:DX:53:VAL:HG13	1.93	0.50
1:DK:29:ASN:ND2	1:FU:29:ASN:OD1	2.44	0.50
1:DO:116:LEU:HD13	1:FT:73:VAL:HG11	1.94	0.50
1:EZ:56:PRO:HG3	1:EZ:69:ALA:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GK:10:ASP:OD1	1:GK:108:THR:OG1	2.23	0.50
1:GS:116:LEU:HD13	1:GT:73:VAL:HG11	1.92	0.50
1:GW:7:ILE:HD12	1:GW:115:GLN:HB3	1.94	0.50
1:AF:28:ARG:HE	1:AK:28:ARG:HD2	1.77	0.50
1:AK:97:VAL:HG12	1:AK:109:MET:HE1	1.94	0.50
1:BA:21:ARG:HE	1:BA:39:GLU:HA	1.77	0.50
1:BP:8:ALA:HB3	1:BP:115:GLN:HE22	1.75	0.50
1:DH:25:GLU:OE2	1:FR:28:ARG:NH1	2.43	0.50
1:DY:116:LEU:HD13	1:DZ:73:VAL:HG11	1.93	0.50
1:GB:10:ASP:OD1	1:GB:108:THR:OG1	2.19	0.50
1:GV:28:ARG:HG3	1:GV:28:ARG:O	2.11	0.50
1:AB:37:ILE:HD12	1:AB:47:LYS:HB3	1.93	0.50
1:AI:28:ARG:HB2	1:AN:29:ASN:ND2	2.27	0.50
1:AX:53:VAL:HG13	1:BG:131:LEU:HG	1.93	0.50
1:BT:56:PRO:HG3	1:BT:69:ALA:HB2	1.93	0.50
1:CF:56:PRO:HG3	1:CF:69:ALA:HB2	1.94	0.50
1:CQ:53:VAL:HG13	1:FH:131:LEU:HG	1.93	0.50
1:DS:30:ASN:H	1:DW:29:ASN:CG	2.13	0.50
1:FM:37:ILE:HD12	1:FM:47:LYS:HB3	1.94	0.50
1:GP:116:LEU:HD13	1:GQ:73:VAL:HG11	1.93	0.50
1:AK:37:ILE:HD12	1:AK:47:LYS:HB3	1.94	0.50
1:CB:83:ASN:HD22	1:CB:85:ASN:H	1.59	0.50
1:CR:116:LEU:HD13	1:CS:73:VAL:HG11	1.93	0.50
1:EJ:68:GLN:HA	1:EJ:99:PRO:HD3	1.94	0.50
1:EW:28:ARG:HG3	1:EW:28:ARG:O	2.11	0.50
1:FC:124:ASP:OD1	1:FC:124:ASP:N	2.29	0.50
1:FI:33:LEU:HB2	1:FJ:131:LEU:HD22	1.92	0.50
1:FM:10:ASP:OD1	1:FM:108:THR:OG1	2.19	0.50
1:FQ:37:ILE:HD12	1:FQ:47:LYS:HB2	1.93	0.50
1:GG:116:LEU:HD13	1:GH:73:VAL:HG11	1.93	0.50
1:AC:53:VAL:HG13	1:BS:131:LEU:HG	1.93	0.50
1:AD:56:PRO:HG3	1:AD:69:ALA:HB2	1.93	0.50
1:AG:54:LYS:HB3	1:AG:70:ARG:HB2	1.92	0.50
1:AO:21:ARG:HE	1:AO:39:GLU:HA	1.76	0.50
1:AR:36:TYR:HA	1:AR:48:GLU:HA	1.94	0.50
1:CU:114:ALA:O	1:CU:117:LEU:HD23	2.12	0.50
1:DL:21:ARG:HE	1:DL:39:GLU:HA	1.76	0.50
1:DR:28:ARG:HB2	1:EC:29:ASN:ND2	2.27	0.50
1:ET:28:ARG:NH1	1:EU:132:ALA:HB2	2.27	0.50
1:EV:68:GLN:HA	1:EV:99:PRO:HD3	1.93	0.50
1:FR:116:LEU:HD13	1:FS:73:VAL:HG11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:37:ILE:HD12	1:GB:47:LYS:HB3	1.94	0.50
1:GR:68:GLN:HA	1:GR:99:PRO:HD3	1.94	0.50
1:AK:86:ARG:HG2	1:AK:86:ARG:HH11	1.76	0.50
1:AM:56:PRO:HG3	1:AM:69:ALA:HB2	1.93	0.50
1:CI:56:PRO:HG3	1:CI:69:ALA:HB2	1.93	0.50
1:DO:131:LEU:HG	1:FT:53:VAL:HG13	1.94	0.50
1:FA:10:ASP:OD1	1:FA:108:THR:OG1	2.22	0.50
1:FU:56:PRO:HG3	1:FU:69:ALA:HB2	1.92	0.50
1:FU:116:LEU:HD13	1:FV:73:VAL:HG11	1.93	0.50
1:GI:68:GLN:HA	1:GI:99:PRO:HD3	1.94	0.50
1:GV:116:LEU:HD13	1:GW:73:VAL:HG11	1.93	0.50
1:AL:116:LEU:HD13	1:EM:73:VAL:HG11	1.94	0.50
1:AU:105:GLU:OE1	1:BD:79:LYS:HE2	2.12	0.50
1:AW:97:VAL:HG12	1:AW:109:MET:HE1	1.93	0.50
1:BH:114:ALA:O	1:BH:117:LEU:HD23	2.12	0.50
1:CA:97:VAL:HG12	1:CA:109:MET:HE1	1.92	0.50
1:DD:114:ALA:O	1:DD:117:LEU:HD23	2.12	0.50
1:DM:116:LEU:HD13	1:DN:73:VAL:HG11	1.94	0.50
1:DO:53:VAL:HG13	1:FT:131:LEU:HG	1.94	0.50
1:FY:102:THR:HG23	1:FY:105:GLU:OE1	2.12	0.50
1:AO:103:ALA:HB1	1:EG:127:LYS:HD3	1.94	0.50
1:AV:54:LYS:HB3	1:AV:70:ARG:HB2	1.94	0.50
1:BG:36:TYR:HA	1:BG:48:GLU:HA	1.94	0.50
1:BW:114:ALA:O	1:BW:117:LEU:HD23	2.12	0.50
1:CB:53:VAL:HG13	1:EY:131:LEU:HG	1.94	0.50
1:CB:116:LEU:HD13	1:EY:73:VAL:HG11	1.94	0.50
1:CQ:101:THR:HA	1:FH:79:LYS:HE2	1.94	0.50
1:CQ:116:LEU:HD13	1:FH:73:VAL:HG11	1.94	0.50
1:CW:54:LYS:HB3	1:CW:70:ARG:CG	2.37	0.50
1:EM:8:ALA:O	1:EM:11:SER:OG	2.28	0.50
1:AL:53:VAL:HG13	1:EM:131:LEU:HG	1.93	0.49
1:CB:131:LEU:HG	1:EY:53:VAL:HG13	1.94	0.49
1:CM:10:ASP:OD1	1:CM:108:THR:OG1	2.19	0.49
1:DL:37:ILE:HD12	1:DL:47:LYS:HB2	1.95	0.49
1:DS:56:PRO:HG3	1:DS:69:ALA:HB2	1.93	0.49
1:DV:116:LEU:HD13	1:DW:73:VAL:HG11	1.94	0.49
1:EE:114:ALA:O	1:EE:117:LEU:HD23	2.12	0.49
1:EI:37:ILE:HD12	1:EI:47:LYS:HB3	1.93	0.49
1:EI:86:ARG:HG2	1:EI:86:ARG:HH11	1.76	0.49
1:FP:102:THR:HG23	1:FP:105:GLU:OE1	2.12	0.49
1:AA:116:LEU:HD13	1:AB:73:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:29:ASN:OD1	1:AK:29:ASN:HB2	2.12	0.49
1:AJ:116:LEU:HD13	1:AK:73:VAL:HG11	1.94	0.49
1:AS:116:LEU:HD13	1:AT:73:VAL:HG11	1.93	0.49
1:AT:112:ALA:O	1:AT:116:LEU:HD12	2.13	0.49
1:BA:37:ILE:HD12	1:BA:47:LYS:HB2	1.95	0.49
1:BK:56:PRO:HG3	1:BK:69:ALA:HB2	1.94	0.49
1:CK:54:LYS:HB3	1:CK:70:ARG:CG	2.37	0.49
1:CN:69:ALA:HB1	1:FN:129:GLN:HE22	1.77	0.49
1:CQ:83:ASN:HD22	1:CQ:85:ASN:H	1.60	0.49
1:CT:54:LYS:HB3	1:CT:70:ARG:CG	2.37	0.49
1:DC:29:ASN:ND2	1:DC:32:GLU:OE1	2.44	0.49
1:DF:54:LYS:HB3	1:DF:70:ARG:CG	2.37	0.49
1:EA:10:ASP:OD1	1:EA:108:THR:OG1	2.24	0.49
1:GK:102:THR:HG23	1:GK:105:GLU:OE1	2.12	0.49
1:AI:79:LYS:HE2	1:BP:105:GLU:OE1	2.12	0.49
1:AL:83:ASN:HD22	1:AL:85:ASN:H	1.60	0.49
1:AO:37:ILE:HD12	1:AO:47:LYS:HB2	1.95	0.49
1:AV:116:LEU:HD13	1:AW:73:VAL:HG11	1.94	0.49
1:AW:37:ILE:HD12	1:AW:47:LYS:HB3	1.93	0.49
1:CH:103:ALA:HB1	1:GF:127:LYS:HD3	1.94	0.49
1:CS:112:ALA:O	1:CS:116:LEU:HD12	2.13	0.49
1:CT:79:LYS:HE2	1:FK:105:GLU:OE1	2.12	0.49
1:DH:112:ALA:O	1:DH:116:LEU:HD12	2.13	0.49
1:DJ:56:PRO:HG3	1:DJ:69:ALA:HB2	1.94	0.49
1:DL:103:ALA:HB1	1:EP:127:LYS:HD3	1.94	0.49
1:DR:79:LYS:HE2	1:FW:105:GLU:OE1	2.12	0.49
1:EC:102:THR:HG23	1:EC:105:GLU:OE1	2.12	0.49
1:EH:33:LEU:HB2	1:EI:131:LEU:HD22	1.94	0.49
1:EN:114:ALA:O	1:EN:117:LEU:HD23	2.12	0.49
1:FR:28:ARG:HG3	1:FR:28:ARG:O	2.11	0.49
1:GL:37:ILE:HD12	1:GL:47:LYS:HB2	1.93	0.49
1:AH:112:ALA:O	1:AH:116:LEU:HD12	2.12	0.49
1:BC:112:ALA:O	1:BC:116:LEU:HD12	2.13	0.49
1:BN:116:LEU:HD13	1:BO:73:VAL:HG11	1.93	0.49
1:CB:29:ASN:ND2	1:CB:32:GLU:OE2	2.45	0.49
1:CE:36:TYR:HA	1:CE:48:GLU:HA	1.94	0.49
1:DG:116:LEU:HD13	1:DH:73:VAL:HG11	1.94	0.49
1:DI:54:LYS:HB3	1:DI:70:ARG:CG	2.37	0.49
1:DY:30:ASN:H	1:GQ:29:ASN:CG	2.16	0.49
1:EG:28:ARG:HE	1:FM:28:ARG:HD2	1.76	0.49
1:ER:102:THR:HG23	1:ER:105:GLU:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EW:114:ALA:O	1:EW:117:LEU:HD23	2.12	0.49
1:EX:10:ASP:OD2	1:EX:108:THR:OG1	2.26	0.49
1:AA:54:LYS:HB3	1:AA:70:ARG:HB2	1.94	0.49
1:AG:116:LEU:HD13	1:AH:73:VAL:HG11	1.94	0.49
1:BW:56:PRO:HG3	1:BW:69:ALA:HB2	1.93	0.49
1:CN:36:TYR:HA	1:CN:48:GLU:HA	1.94	0.49
1:CP:97:VAL:HG12	1:CP:109:MET:HE1	1.94	0.49
1:DC:53:VAL:HG13	1:EA:131:LEU:HG	1.93	0.49
1:DV:54:LYS:HB3	1:DV:70:ARG:HB2	1.94	0.49
1:EL:78:PRO:HB3	1:EL:86:ARG:NH1	2.27	0.49
1:EY:29:ASN:ND2	1:EY:32:GLU:OE1	2.44	0.49
1:FF:114:ALA:O	1:FF:117:LEU:HD23	2.13	0.49
1:FM:86:ARG:HG2	1:FM:86:ARG:HH11	1.76	0.49
1:FS:78:PRO:HB3	1:FS:86:ARG:NH1	2.27	0.49
1:GB:86:ARG:HG2	1:GB:86:ARG:HH11	1.76	0.49
1:GE:10:ASP:OD1	1:GE:108:THR:OG1	2.22	0.49
1:GN:86:ARG:HG2	1:GN:86:ARG:HH11	1.76	0.49
1:AX:44:GLN:O	1:AX:86:ARG:NH2	2.46	0.49
1:BE:114:ALA:O	1:BE:117:LEU:HD23	2.13	0.49
1:BM:68:GLN:HB3	1:BM:97:VAL:O	2.11	0.49
1:CA:86:ARG:HG2	1:CA:86:ARG:HH11	1.76	0.49
1:CO:54:LYS:HB3	1:CO:70:ARG:HB2	1.94	0.49
1:CP:86:ARG:HG2	1:CP:86:ARG:HH11	1.76	0.49
1:DM:54:LYS:HB3	1:DM:70:ARG:HB2	1.94	0.49
1:DZ:78:PRO:HB3	1:DZ:86:ARG:NH1	2.27	0.49
1:EO:10:ASP:OD1	1:EO:108:THR:OG1	2.22	0.49
1:GI:8:ALA:HB3	1:GI:115:GLN:HE22	1.78	0.49
1:GN:37:ILE:HD12	1:GN:47:LYS:HB3	1.94	0.49
1:GO:10:ASP:OD1	1:GO:108:THR:OG1	2.19	0.49
1:GV:11:SER:HB3	1:GW:18:GLY:HA3	1.95	0.49
1:AP:114:ALA:O	1:AP:117:LEU:HD23	2.13	0.49
1:AS:56:PRO:HG3	1:AS:69:ALA:HB2	1.95	0.49
1:AU:79:LYS:HE2	1:BD:105:GLU:OE1	2.13	0.49
1:BZ:54:LYS:HB3	1:BZ:70:ARG:HB2	1.94	0.49
1:CB:101:THR:HA	1:EY:79:LYS:HE2	1.95	0.49
1:CE:69:ALA:HB1	1:GC:129:GLN:HE22	1.78	0.49
1:DC:116:LEU:HD13	1:EA:73:VAL:HG11	1.94	0.49
1:DD:15:VAL:HG21	1:DE:115:GLN:HE21	1.78	0.49
1:DP:116:LEU:HD13	1:DQ:73:VAL:HG11	1.93	0.49
1:DR:8:ALA:HB3	1:DR:115:GLN:HE22	1.76	0.49
1:FL:33:LEU:HB2	1:FM:131:LEU:HD22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FR:114:ALA:O	1:FR:117:LEU:HD23	2.12	0.49
1:GD:114:ALA:O	1:GD:117:LEU:HD23	2.12	0.49
1:GW:78:PRO:HB3	1:GW:86:ARG:NH1	2.27	0.49
1:BQ:114:ALA:O	1:BQ:117:LEU:HD23	2.13	0.49
1:CC:114:ALA:O	1:CC:117:LEU:HD23	2.13	0.49
1:CH:37:ILE:HD12	1:CH:47:LYS:HB2	1.95	0.49
1:CL:114:ALA:O	1:CL:117:LEU:HD23	2.13	0.49
1:CO:56:PRO:HG3	1:CO:69:ALA:HB2	1.95	0.49
1:DL:68:GLN:HB3	1:DL:97:VAL:O	2.13	0.49
1:DN:37:ILE:HD12	1:DN:47:LYS:HB3	1.93	0.49
1:DO:83:ASN:HD22	1:DO:85:ASN:H	1.59	0.49
1:DW:97:VAL:HG12	1:DW:109:MET:HE1	1.95	0.49
1:DZ:29:ASN:HA	1:DZ:30:ASN:HA	1.55	0.49
1:ED:36:TYR:HA	1:ED:48:GLU:HA	1.95	0.49
1:EK:116:LEU:HD13	1:EL:73:VAL:HG11	1.93	0.49
1:GC:68:GLN:HA	1:GC:99:PRO:HD3	1.94	0.49
1:GS:114:ALA:O	1:GS:117:LEU:HD23	2.12	0.49
1:AD:114:ALA:O	1:AD:117:LEU:HD23	2.12	0.49
1:AJ:54:LYS:HB3	1:AJ:70:ARG:HB2	1.94	0.49
1:AO:68:GLN:HB3	1:AO:97:VAL:O	2.13	0.49
1:BM:37:ILE:HD12	1:BM:47:LYS:HB2	1.94	0.49
1:CS:29:ASN:HA	1:CS:30:ASN:HA	1.52	0.49
1:DA:15:VAL:HG21	1:DB:115:GLN:HE21	1.78	0.49
1:DN:97:VAL:HG12	1:DN:109:MET:HE1	1.94	0.49
1:DS:114:ALA:O	1:DS:117:LEU:HD23	2.12	0.49
1:DW:37:ILE:HD12	1:DW:47:LYS:HB3	1.94	0.49
1:EF:10:ASP:OD1	1:EF:108:THR:OG1	2.22	0.49
1:FB:98:ASP:O	1:FB:101:THR:OG1	2.22	0.49
1:FF:30:ASN:H	1:FV:29:ASN:CG	2.16	0.49
1:FL:117:LEU:HD23	1:FM:93:ILE:HG21	1.93	0.49
1:FW:115:GLN:HE21	1:FW:115:GLN:HB2	1.47	0.49
1:AR:69:ALA:HB1	1:EJ:129:GLN:HE22	1.77	0.49
1:BB:116:LEU:HD13	1:BC:73:VAL:HG11	1.94	0.49
1:BH:56:PRO:HG3	1:BH:69:ALA:HB2	1.93	0.49
1:BY:28:ARG:HE	1:EI:28:ARG:HD2	1.78	0.49
1:CA:37:ILE:HD12	1:CA:47:LYS:HB3	1.93	0.49
1:CX:114:ALA:O	1:CX:117:LEU:HD23	2.13	0.49
1:DA:54:LYS:HB3	1:DA:70:ARG:HB2	1.94	0.49
1:DB:37:ILE:HD12	1:DB:47:LYS:HB3	1.94	0.49
1:DF:10:ASP:OD1	1:DF:108:THR:OG1	2.28	0.49
1:EL:7:ILE:HD12	1:EL:115:GLN:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EP:83:ASN:HD22	1:EP:85:ASN:H	1.61	0.49
1:ES:36:TYR:HA	1:ES:48:GLU:HA	1.95	0.49
1:EW:116:LEU:HD13	1:EX:73:VAL:HG11	1.93	0.49
1:FD:102:THR:HG23	1:FD:105:GLU:OE1	2.12	0.49
1:FE:68:GLN:HB3	1:FE:97:VAL:O	2.13	0.49
1:GT:10:ASP:OD1	1:GT:108:THR:OG1	2.22	0.49
1:AC:29:ASN:ND2	1:AC:32:GLU:OE1	2.45	0.48
1:AD:30:ASN:H	1:AK:29:ASN:CG	2.17	0.48
1:AI:91:VAL:HG22	1:BP:95:LEU:HD12	1.95	0.48
1:BN:33:LEU:HB2	1:BO:131:LEU:HD22	1.95	0.48
1:BS:36:TYR:HA	1:BS:48:GLU:HA	1.94	0.48
1:BV:37:ILE:HD12	1:BV:47:LYS:HB2	1.95	0.48
1:CI:15:VAL:HG21	1:CJ:115:GLN:HE21	1.78	0.48
1:CI:29:ASN:OD1	1:DN:29:ASN:HB2	2.13	0.48
1:CI:114:ALA:O	1:CI:117:LEU:HD23	2.12	0.48
1:CZ:117:LEU:HD11	1:DX:93:ILE:HD13	1.95	0.48
1:EK:114:ALA:O	1:EK:117:LEU:HD23	2.13	0.48
1:EN:115:GLN:O	1:EN:119:ASP:HB2	2.13	0.48
1:FF:116:LEU:HD13	1:FG:73:VAL:HG11	1.93	0.48
1:GA:117:LEU:HD23	1:GB:93:ILE:HG21	1.93	0.48
1:GL:68:GLN:HB3	1:GL:97:VAL:O	2.13	0.48
1:GM:89:ASN:HB3	1:GN:109:MET:HE1	1.94	0.48
1:GX:10:ASP:OD1	1:GX:108:THR:OG1	2.25	0.48
1:AC:44:GLN:O	1:AC:86:ARG:NH2	2.46	0.48
1:BK:44:GLN:OE1	1:BK:44:GLN:HA	2.13	0.48
1:CC:30:ASN:H	1:DQ:29:ASN:CG	2.16	0.48
1:EB:30:ASN:H	1:GT:29:ASN:CG	2.16	0.48
1:EE:115:GLN:O	1:EE:119:ASP:HB2	2.13	0.48
1:GA:28:ARG:NH1	1:GB:132:ALA:HB3	2.28	0.48
1:AE:54:LYS:HB2	1:AE:70:ARG:HB3	1.95	0.48
1:AJ:15:VAL:HG21	1:AK:115:GLN:HE21	1.78	0.48
1:AQ:78:PRO:HB3	1:AQ:86:ARG:NH1	2.28	0.48
1:AU:21:ARG:HD2	1:AU:21:ARG:HA	1.65	0.48
1:AU:95:LEU:HD12	1:BD:91:VAL:HG22	1.95	0.48
1:BT:44:GLN:HA	1:BT:44:GLN:OE1	2.13	0.48
1:BV:103:ALA:HB1	1:FB:127:LYS:HD3	1.94	0.48
1:CE:25:GLU:HG2	1:DP:132:ALA:HB3	1.95	0.48
1:CE:29:ASN:HA	1:DQ:30:ASN:HB2	1.95	0.48
1:CF:44:GLN:OE1	1:CF:44:GLN:HA	2.13	0.48
1:CK:28:ARG:HE	1:DN:28:ARG:HD2	1.77	0.48
1:CQ:131:LEU:HG	1:FH:53:VAL:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CW:10:ASP:OD1	1:CW:108:THR:OG1	2.28	0.48
1:CY:10:ASP:OD1	1:CY:108:THR:OG1	2.18	0.48
1:DC:44:GLN:O	1:DC:86:ARG:NH2	2.46	0.48
1:DU:28:ARG:HE	1:DW:28:ARG:HD2	1.78	0.48
1:FQ:36:TYR:HA	1:FQ:48:GLU:HA	1.95	0.48
1:GL:36:TYR:HA	1:GL:48:GLU:HA	1.94	0.48
1:GM:28:ARG:NH1	1:GN:132:ALA:HB3	2.28	0.48
1:AN:104:ALA:O	1:AN:107:THR:HG22	2.14	0.48
1:AR:98:ASP:O	1:AR:101:THR:OG1	2.20	0.48
1:BS:29:ASN:HA	1:EU:30:ASN:HB2	1.95	0.48
1:CP:37:ILE:HD12	1:CP:47:LYS:HB3	1.94	0.48
1:CT:55:VAL:HA	1:FK:129:GLN:HE22	1.79	0.48
1:DA:56:PRO:HG3	1:DA:69:ALA:HB2	1.95	0.48
1:DH:29:ASN:HA	1:DH:30:ASN:HA	1.52	0.48
1:DO:129:GLN:NE2	1:FT:69:ALA:HB1	2.29	0.48
1:DR:55:VAL:HA	1:FW:129:GLN:HE22	1.79	0.48
1:DY:11:SER:HB3	1:DZ:18:GLY:HA3	1.96	0.48
1:EA:8:ALA:O	1:EA:11:SER:OG	2.28	0.48
1:EJ:36:TYR:HA	1:EJ:48:GLU:HA	1.95	0.48
1:EJ:83:ASN:HD22	1:EJ:85:ASN:H	1.60	0.48
1:EK:30:ASN:H	1:FJ:29:ASN:CG	2.16	0.48
1:EL:10:ASP:OD2	1:EL:108:THR:OG1	2.26	0.48
1:EZ:114:ALA:O	1:EZ:117:LEU:HD23	2.12	0.48
1:FP:7:ILE:HD12	1:FP:115:GLN:HB3	1.95	0.48
1:GM:33:LEU:HB2	1:GN:131:LEU:HD22	1.96	0.48
1:AF:127:LYS:HD3	1:BM:103:ALA:HB1	1.95	0.48
1:AG:56:PRO:HG3	1:AG:69:ALA:HB2	1.95	0.48
1:AI:129:GLN:NE2	1:BP:69:ALA:HB1	2.28	0.48
1:AL:44:GLN:O	1:AL:86:ARG:NH2	2.46	0.48
1:AX:10:ASP:OD1	1:AX:108:THR:OG1	2.18	0.48
1:AX:93:ILE:HD13	1:BG:117:LEU:HD11	1.95	0.48
1:CB:129:GLN:NE2	1:EY:69:ALA:HB1	2.29	0.48
1:CJ:54:LYS:HB2	1:CJ:70:ARG:HB3	1.95	0.48
1:CO:15:VAL:HG21	1:CP:115:GLN:HE21	1.78	0.48
1:CR:114:ALA:O	1:CR:117:LEU:HD23	2.14	0.48
1:DA:116:LEU:HD13	1:DB:73:VAL:HG11	1.94	0.48
1:DC:101:THR:HA	1:EA:79:LYS:HE2	1.94	0.48
1:DK:104:ALA:O	1:DK:107:THR:HG22	2.14	0.48
1:DX:44:GLN:O	1:DX:86:ARG:NH2	2.46	0.48
1:EB:44:GLN:OE1	1:EB:44:GLN:HA	2.14	0.48
1:ED:32:GLU:HG2	1:ED:33:LEU:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EG:83:ASN:HD22	1:EG:85:ASN:H	1.62	0.48
1:EM:29:ASN:HA	1:FJ:30:ASN:HB2	1.96	0.48
1:EQ:44:GLN:HA	1:EQ:44:GLN:OE1	2.14	0.48
1:EY:8:ALA:O	1:EY:11:SER:OG	2.28	0.48
1:FN:36:TYR:HA	1:FN:48:GLU:HA	1.95	0.48
1:FZ:36:TYR:HA	1:FZ:48:GLU:HA	1.95	0.48
1:GA:33:LEU:HB2	1:GB:131:LEU:HD22	1.96	0.48
1:GL:131:LEU:HG	1:GU:53:VAL:HG13	1.96	0.48
1:AC:93:ILE:HD13	1:BS:117:LEU:HD11	1.95	0.48
1:AI:21:ARG:HA	1:AI:21:ARG:HD2	1.65	0.48
1:AI:105:GLU:OE1	1:BP:79:LYS:HE2	2.13	0.48
1:AL:101:THR:HA	1:EM:79:LYS:HE2	1.94	0.48
1:AL:131:LEU:HG	1:EM:53:VAL:HG13	1.95	0.48
1:AT:29:ASN:HA	1:AT:30:ASN:HA	1.52	0.48
1:BB:33:LEU:HB2	1:BC:131:LEU:HD22	1.96	0.48
1:BD:21:ARG:HD2	1:BD:21:ARG:HA	1.65	0.48
1:BF:78:PRO:HB3	1:BF:86:ARG:NH1	2.28	0.48
1:BO:112:ALA:O	1:BO:116:LEU:HD12	2.13	0.48
1:BQ:30:ASN:H	1:EU:29:ASN:CG	2.16	0.48
1:BZ:56:PRO:HG3	1:BZ:69:ALA:HB2	1.96	0.48
1:BZ:116:LEU:HD13	1:CA:73:VAL:HG11	1.94	0.48
1:CG:7:ILE:HD12	1:CG:115:GLN:HB3	1.95	0.48
1:CK:59:SER:H	1:CK:66:PHE:HB3	1.79	0.48
1:DG:114:ALA:O	1:DG:117:LEU:HD23	2.14	0.48
1:DS:29:ASN:OD1	1:DW:29:ASN:HB2	2.14	0.48
1:FE:36:TYR:HA	1:FE:48:GLU:HA	1.94	0.48
1:FK:28:ARG:HB2	1:FP:29:ASN:ND2	2.27	0.48
1:FY:7:ILE:HD12	1:FY:115:GLN:HB3	1.96	0.48
1:GD:115:GLN:O	1:GD:119:ASP:HB2	2.13	0.48
1:GJ:44:GLN:OE1	1:GJ:44:GLN:HA	2.14	0.48
1:GX:8:ALA:O	1:GX:11:SER:OG	2.28	0.48
1:BW:15:VAL:HG21	1:BX:115:GLN:HE21	1.78	0.48
1:DI:55:VAL:HA	1:EV:129:GLN:HE22	1.79	0.48
1:DP:114:ALA:O	1:DP:117:LEU:HD23	2.14	0.48
1:DQ:112:ALA:O	1:DQ:116:LEU:HD12	2.13	0.48
1:EA:98:ASP:O	1:EA:101:THR:OG1	2.22	0.48
1:EE:29:ASN:OD1	1:FM:29:ASN:HB2	2.14	0.48
1:EZ:115:GLN:O	1:EZ:119:ASP:HB2	2.13	0.48
1:FA:54:LYS:HB2	1:FA:70:ARG:HB3	1.96	0.48
1:AA:15:VAL:HG21	1:AB:115:GLN:HE21	1.79	0.48
1:AJ:56:PRO:HG3	1:AJ:69:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:44:GLN:HA	1:AM:44:GLN:OE1	2.13	0.48
1:AR:25:GLU:HG2	1:BB:132:ALA:HB3	1.95	0.48
1:AS:33:LEU:HB2	1:AT:131:LEU:HD22	1.95	0.48
1:AZ:7:ILE:HD12	1:AZ:115:GLN:HB3	1.96	0.48
1:BL:7:ILE:HD12	1:BL:115:GLN:HB3	1.96	0.48
1:BU:104:ALA:O	1:BU:107:THR:HG22	2.14	0.48
1:BW:29:ASN:OD1	1:EI:29:ASN:HB2	2.13	0.48
1:CH:68:GLN:HB3	1:CH:97:VAL:O	2.13	0.48
1:DI:95:LEU:HD12	1:EV:91:VAL:HG22	1.94	0.48
1:DJ:44:GLN:OE1	1:DJ:44:GLN:HA	2.14	0.48
1:EE:30:ASN:H	1:FM:29:ASN:CG	2.17	0.48
1:FH:8:ALA:O	1:FH:11:SER:OG	2.28	0.48
1:GG:114:ALA:O	1:GG:117:LEU:HD23	2.14	0.48
1:GO:36:TYR:HA	1:GO:48:GLU:HA	1.95	0.48
1:GP:114:ALA:O	1:GP:117:LEU:HD23	2.14	0.48
1:GS:115:GLN:O	1:GS:119:ASP:HB2	2.13	0.48
1:AR:29:ASN:HA	1:BC:30:ASN:HB2	1.95	0.48
1:AS:57:LYS:HE3	1:AS:57:LYS:HB3	1.60	0.48
1:BI:7:ILE:HD11	1:BI:122:TYR:HE2	1.79	0.48
1:BL:7:ILE:HD11	1:BL:122:TYR:HE2	1.79	0.48
1:BN:114:ALA:O	1:BN:117:LEU:HD23	2.14	0.48
1:CQ:129:GLN:NE2	1:FH:69:ALA:HB1	2.29	0.48
1:CR:33:LEU:HB2	1:CS:131:LEU:HD22	1.95	0.48
1:DM:56:PRO:HG3	1:DM:69:ALA:HB2	1.96	0.48
1:DV:15:VAL:HG21	1:DW:115:GLN:HE21	1.79	0.48
1:EM:98:ASP:O	1:EM:101:THR:OG1	2.22	0.48
1:EX:78:PRO:HB3	1:EX:86:ARG:NH1	2.27	0.48
1:FI:57:LYS:HE3	1:FI:57:LYS:HB3	1.60	0.48
1:GC:36:TYR:HA	1:GC:48:GLU:HA	1.95	0.48
1:AE:7:ILE:HD11	1:AE:122:TYR:HE2	1.79	0.48
1:AS:114:ALA:O	1:AS:117:LEU:HD23	2.14	0.48
1:BA:95:LEU:HG	1:BA:97:VAL:HG13	1.96	0.48
1:BB:56:PRO:HG3	1:BB:69:ALA:HB2	1.96	0.48
1:BB:114:ALA:O	1:BB:117:LEU:HD23	2.14	0.48
1:BL:104:ALA:O	1:BL:107:THR:HG22	2.14	0.48
1:BZ:15:VAL:HG21	1:CA:115:GLN:HE21	1.79	0.48
1:CZ:8:ALA:O	1:CZ:11:SER:OG	2.28	0.48
1:DF:59:SER:H	1:DF:66:PHE:HB3	1.79	0.48
1:DI:105:GLU:OE1	1:EV:79:LYS:HE2	2.14	0.48
1:DK:7:ILE:HD11	1:DK:122:TYR:HE2	1.79	0.48
1:EC:7:ILE:HD11	1:EC:122:TYR:HE2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EP:28:ARG:HE	1:GB:28:ARG:HD2	1.78	0.48
1:EP:36:TYR:HA	1:EP:48:GLU:HA	1.96	0.48
1:FH:29:ASN:HA	1:FV:30:ASN:HB2	1.96	0.48
1:FN:68:GLN:HA	1:FN:99:PRO:HD3	1.95	0.48
1:FR:11:SER:HB3	1:FS:18:GLY:HA3	1.96	0.48
1:AA:56:PRO:HG3	1:AA:69:ALA:HB2	1.96	0.47
1:AP:28:ARG:HG3	1:AP:28:ARG:O	2.14	0.47
1:AZ:29:ASN:HA	1:AZ:30:ASN:HA	1.60	0.47
1:BU:7:ILE:HD12	1:BU:115:GLN:HB3	1.96	0.47
1:BX:54:LYS:HB2	1:BX:70:ARG:HB3	1.95	0.47
1:CO:116:LEU:HD13	1:CP:73:VAL:HG11	1.94	0.47
1:CX:11:SER:HB3	1:CY:18:GLY:HA3	1.96	0.47
1:DM:15:VAL:HG21	1:DN:115:GLN:HE21	1.79	0.47
1:DT:54:LYS:HB2	1:DT:70:ARG:HB3	1.96	0.47
1:EH:54:LYS:HB3	1:EH:70:ARG:HB2	1.96	0.47
1:EK:57:LYS:HE3	1:EK:57:LYS:HB3	1.72	0.47
1:EV:21:ARG:HA	1:EV:21:ARG:HD2	1.60	0.47
1:FD:29:ASN:HA	1:FD:30:ASN:HA	1.57	0.47
1:FG:78:PRO:HB3	1:FG:86:ARG:NH1	2.27	0.47
1:FK:21:ARG:HA	1:FK:21:ARG:HD2	1.60	0.47
1:GK:7:ILE:HD11	1:GK:122:TYR:HE2	1.79	0.47
1:GT:44:GLN:O	1:GT:86:ARG:NH1	2.47	0.47
1:AD:132:ALA:HB2	1:AE:28:ARG:NH1	2.29	0.47
1:AE:22:THR:HG21	1:AE:24:LYS:HE3	1.96	0.47
1:BN:56:PRO:HG3	1:BN:69:ALA:HB2	1.95	0.47
1:BU:7:ILE:HD11	1:BU:122:TYR:HE2	1.79	0.47
1:BV:68:GLN:HB3	1:BV:97:VAL:O	2.13	0.47
1:BX:7:ILE:HD11	1:BX:122:TYR:HE2	1.79	0.47
1:CG:7:ILE:HD11	1:CG:122:TYR:HE2	1.79	0.47
1:CK:83:ASN:HD22	1:CK:85:ASN:H	1.62	0.47
1:CV:7:ILE:HD11	1:CV:122:TYR:HE2	1.79	0.47
1:DE:54:LYS:HB2	1:DE:70:ARG:HB3	1.95	0.47
1:DG:132:ALA:HB2	1:DH:28:ARG:NH1	2.30	0.47
1:DY:83:ASN:OD1	1:DY:83:ASN:N	2.47	0.47
1:EM:21:ARG:HE	1:EM:39:GLU:HA	1.79	0.47
1:EN:29:ASN:OD1	1:GB:29:ASN:HB2	2.13	0.47
1:ES:32:GLU:HG2	1:ES:51:PHE:O	2.15	0.47
1:FI:114:ALA:O	1:FI:117:LEU:HD23	2.14	0.47
1:GP:28:ARG:HH12	1:GQ:132:ALA:CB	2.27	0.47
1:GU:98:ASP:O	1:GU:101:THR:OG1	2.20	0.47
1:AH:29:ASN:HA	1:AH:30:ASN:HA	1.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:69:ALA:HB1	1:BP:129:GLN:NE2	2.29	0.47
1:AL:129:GLN:NE2	1:EM:69:ALA:HB1	2.29	0.47
1:AN:7:ILE:HD11	1:AN:122:TYR:HE2	1.79	0.47
1:BI:54:LYS:HB2	1:BI:70:ARG:HB3	1.96	0.47
1:BJ:83:ASN:HD22	1:BJ:85:ASN:H	1.62	0.47
1:CG:104:ALA:O	1:CG:107:THR:HG22	2.14	0.47
1:CI:30:ASN:H	1:DN:29:ASN:CG	2.17	0.47
1:CN:8:ALA:O	1:CN:11:SER:OG	2.28	0.47
1:CO:57:LYS:HE3	1:CO:57:LYS:HB3	1.60	0.47
1:CZ:73:VAL:HG11	1:DX:116:LEU:HD13	1.97	0.47
1:DB:97:VAL:HG12	1:DB:109:MET:HE1	1.96	0.47
1:DC:129:GLN:NE2	1:EA:69:ALA:HB1	2.29	0.47
1:DE:7:ILE:HD11	1:DE:122:TYR:HE2	1.79	0.47
1:DF:83:ASN:HD22	1:DF:85:ASN:H	1.62	0.47
1:DR:91:VAL:HG22	1:FW:95:LEU:HD12	1.97	0.47
1:DU:83:ASN:HD22	1:DU:85:ASN:H	1.62	0.47
1:DV:56:PRO:HG3	1:DV:69:ALA:HB2	1.96	0.47
1:EF:44:GLN:O	1:EF:86:ARG:NH1	2.47	0.47
1:ER:7:ILE:HD12	1:ER:115:GLN:HB3	1.96	0.47
1:ET:114:ALA:O	1:ET:117:LEU:HD23	2.14	0.47
1:FA:44:GLN:O	1:FA:86:ARG:NH1	2.47	0.47
1:FB:95:LEU:HG	1:FB:97:VAL:HG13	1.96	0.47
1:GH:29:ASN:HA	1:GH:30:ASN:HA	1.52	0.47
1:GK:33:LEU:HB3	1:GK:51:PHE:HB2	1.95	0.47
1:GV:83:ASN:OD1	1:GV:83:ASN:N	2.47	0.47
1:AP:30:ASN:H	1:BC:29:ASN:CG	2.17	0.47
1:AQ:7:ILE:HD11	1:AQ:122:TYR:HE2	1.79	0.47
1:AU:53:VAL:HG13	1:BD:131:LEU:HG	1.96	0.47
1:BC:29:ASN:HA	1:BC:30:ASN:HA	1.64	0.47
1:BV:131:LEU:HG	1:FB:53:VAL:HG13	1.95	0.47
1:BW:30:ASN:H	1:EI:29:ASN:CG	2.17	0.47
1:DA:44:GLN:OE1	1:DA:44:GLN:HA	2.15	0.47
1:DC:83:ASN:HD22	1:DC:85:ASN:H	1.60	0.47
1:DL:53:VAL:HG13	1:EP:131:LEU:HG	1.97	0.47
1:DO:101:THR:HA	1:FT:79:LYS:HE2	1.95	0.47
1:DV:44:GLN:OE1	1:DV:44:GLN:HA	2.14	0.47
1:EW:11:SER:HB3	1:EX:18:GLY:HA3	1.96	0.47
1:FQ:68:GLN:HB3	1:FQ:97:VAL:O	2.13	0.47
1:GK:7:ILE:HD12	1:GK:115:GLN:HB3	1.95	0.47
1:GL:21:ARG:HD2	1:GL:21:ARG:HA	1.66	0.47
1:GM:56:PRO:HG3	1:GM:69:ALA:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GV:114:ALA:O	1:GV:117:LEU:HD23	2.12	0.47
1:AZ:104:ALA:O	1:AZ:107:THR:HG22	2.14	0.47
1:BA:103:ALA:HB1	1:BJ:127:LYS:HD3	1.95	0.47
1:BM:95:LEU:HG	1:BM:97:VAL:HG13	1.96	0.47
1:CC:11:SER:HB3	1:CD:18:GLY:HA3	1.96	0.47
1:CC:116:LEU:HD13	1:CD:73:VAL:HG11	1.96	0.47
1:CL:11:SER:HB3	1:CM:18:GLY:HA3	1.96	0.47
1:CL:116:LEU:HD13	1:CM:73:VAL:HG11	1.96	0.47
1:CT:105:GLU:OE1	1:FK:79:LYS:HE2	2.14	0.47
1:CU:132:ALA:HB2	1:CV:28:ARG:NH1	2.29	0.47
1:DO:32:GLU:HG2	1:DO:33:LEU:H	1.80	0.47
1:DR:105:GLU:OE1	1:FW:79:LYS:HE2	2.14	0.47
1:EH:56:PRO:HG3	1:EH:69:ALA:HB2	1.97	0.47
1:EW:83:ASN:OD1	1:EW:83:ASN:N	2.47	0.47
1:FP:29:ASN:HA	1:FP:30:ASN:HA	1.57	0.47
1:FP:113:ALA:HA	1:FP:116:LEU:HD12	1.97	0.47
1:FY:113:ALA:HA	1:FY:116:LEU:HD12	1.97	0.47
1:FZ:68:GLN:HB3	1:FZ:97:VAL:O	2.13	0.47
1:GM:44:GLN:OE1	1:GM:44:GLN:HA	2.15	0.47
1:AF:83:ASN:HD22	1:AF:85:ASN:H	1.62	0.47
1:AO:53:VAL:HG13	1:EG:131:LEU:HG	1.97	0.47
1:AP:111:ASN:O	1:AP:115:GLN:HG3	2.14	0.47
1:AU:69:ALA:HB1	1:BD:129:GLN:NE2	2.28	0.47
1:AV:56:PRO:HG3	1:AV:69:ALA:HB2	1.96	0.47
1:BE:111:ASN:O	1:BE:115:GLN:HG3	2.14	0.47
1:BI:44:GLN:O	1:BI:86:ARG:NH1	2.47	0.47
1:BV:36:TYR:HA	1:BV:48:GLU:HA	1.97	0.47
1:CB:32:GLU:HG2	1:CB:33:LEU:H	1.80	0.47
1:CE:8:ALA:O	1:CE:11:SER:OG	2.28	0.47
1:CQ:32:GLU:HG2	1:CQ:33:LEU:H	1.80	0.47
1:CV:54:LYS:HB2	1:CV:70:ARG:HB3	1.96	0.47
1:DG:33:LEU:HB2	1:DH:131:LEU:HD22	1.96	0.47
1:DM:44:GLN:OE1	1:DM:44:GLN:HA	2.14	0.47
1:DM:93:ILE:HD11	1:DN:113:ALA:HB1	1.97	0.47
1:DO:29:ASN:ND2	1:DO:32:GLU:OE2	2.45	0.47
1:DX:29:ASN:ND2	1:DX:32:GLU:OE2	2.45	0.47
1:DX:32:GLU:HG2	1:DX:33:LEU:H	1.80	0.47
1:EO:36:TYR:HA	1:EO:48:GLU:HA	1.97	0.47
1:FL:44:GLN:OE1	1:FL:44:GLN:HA	2.15	0.47
1:FT:8:ALA:O	1:FT:11:SER:OG	2.28	0.47
1:AC:116:LEU:HD13	1:BS:73:VAL:HG11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:27:VAL:HG22	1:FD:131:LEU:HD12	1.97	0.47
1:AF:54:LYS:HB3	1:AF:70:ARG:CG	2.39	0.47
1:AF:95:LEU:HG	1:AF:97:VAL:HG13	1.97	0.47
1:AG:114:ALA:O	1:AG:117:LEU:HD23	2.14	0.47
1:AI:32:GLU:HG2	1:AI:51:PHE:O	2.15	0.47
1:AP:11:SER:HB3	1:AQ:18:GLY:HA3	1.96	0.47
1:AY:44:GLN:OE1	1:AY:44:GLN:HA	2.13	0.47
1:AY:111:ASN:O	1:AY:115:GLN:HG3	2.15	0.47
1:BE:11:SER:HB3	1:BF:18:GLY:HA3	1.96	0.47
1:BU:29:ASN:HA	1:BU:30:ASN:HA	1.60	0.47
1:BX:22:THR:HG21	1:BX:24:LYS:HE3	1.96	0.47
1:BY:83:ASN:HD22	1:BY:85:ASN:H	1.62	0.47
1:CC:111:ASN:O	1:CC:115:GLN:HG3	2.14	0.47
1:CH:10:ASP:OD1	1:CH:108:THR:OG1	2.27	0.47
1:CQ:44:GLN:O	1:CQ:86:ARG:NH2	2.46	0.47
1:CR:56:PRO:HG3	1:CR:69:ALA:HB2	1.95	0.47
1:CR:132:ALA:HB2	1:CS:28:ARG:NH1	2.30	0.47
1:CT:53:VAL:HG13	1:FK:131:LEU:HG	1.96	0.47
1:CU:93:ILE:HD11	1:CV:113:ALA:HB1	1.97	0.47
1:DA:28:ARG:NH1	1:DB:132:ALA:HB3	2.29	0.47
1:DD:132:ALA:HB2	1:DE:28:ARG:NH1	2.29	0.47
1:DI:69:ALA:HB1	1:EV:129:GLN:NE2	2.29	0.47
1:DL:36:TYR:HA	1:DL:48:GLU:HA	1.97	0.47
1:DP:56:PRO:HG3	1:DP:69:ALA:HB2	1.96	0.47
1:DR:32:GLU:HG2	1:DR:51:PHE:O	2.15	0.47
1:DR:69:ALA:HB1	1:FW:129:GLN:NE2	2.30	0.47
1:DV:93:ILE:HD11	1:DW:113:ALA:HB1	1.97	0.47
1:DX:36:TYR:HA	1:DX:48:GLU:HA	1.96	0.47
1:DY:114:ALA:O	1:DY:117:LEU:HD23	2.13	0.47
1:EC:7:ILE:HD12	1:EC:115:GLN:HB3	1.95	0.47
1:ED:68:GLN:HB3	1:ED:97:VAL:O	2.13	0.47
1:EJ:10:ASP:OD1	1:EJ:108:THR:OG1	2.18	0.47
1:EK:83:ASN:OD1	1:EK:83:ASN:N	2.47	0.47
1:ES:68:GLN:HB3	1:ES:97:VAL:O	2.13	0.47
1:ES:116:LEU:HD23	1:ES:122:TYR:CE2	2.50	0.47
1:EX:7:ILE:HD11	1:EX:122:TYR:HE2	1.80	0.47
1:FF:11:SER:HB3	1:FG:18:GLY:HA3	1.96	0.47
1:FF:83:ASN:OD1	1:FF:83:ASN:N	2.47	0.47
1:FG:7:ILE:HD11	1:FG:122:TYR:HE2	1.80	0.47
1:FT:21:ARG:HE	1:FT:39:GLU:HA	1.79	0.47
1:FX:44:GLN:OE1	1:FX:44:GLN:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FY:29:ASN:HA	1:FY:30:ASN:HA	1.57	0.47
1:GA:44:GLN:HA	1:GA:44:GLN:OE1	2.15	0.47
1:GE:54:LYS:HB2	1:GE:70:ARG:HB3	1.96	0.47
1:GT:54:LYS:HB2	1:GT:70:ARG:HB3	1.96	0.47
1:AF:59:SER:H	1:AF:66:PHE:HB3	1.80	0.47
1:AI:131:LEU:HG	1:BP:53:VAL:HG13	1.96	0.47
1:AM:111:ASN:O	1:AM:115:GLN:HG3	2.15	0.47
1:AR:56:PRO:HG3	1:AR:69:ALA:HB2	1.97	0.47
1:AU:129:GLN:NE2	1:BD:69:ALA:HB1	2.29	0.47
1:AV:44:GLN:OE1	1:AV:44:GLN:HA	2.14	0.47
1:AX:29:ASN:ND2	1:AX:32:GLU:OE1	2.45	0.47
1:BK:111:ASN:O	1:BK:115:GLN:HG3	2.15	0.47
1:BQ:83:ASN:OD1	1:BQ:83:ASN:N	2.47	0.47
1:BT:111:ASN:O	1:BT:115:GLN:HG3	2.15	0.47
1:BY:59:SER:H	1:BY:66:PHE:HB3	1.79	0.47
1:CR:57:LYS:HE3	1:CR:57:LYS:HB3	1.61	0.47
1:CV:22:THR:HG21	1:CV:24:LYS:HE3	1.96	0.47
1:DI:53:VAL:HG13	1:EV:131:LEU:HG	1.96	0.47
1:DR:53:VAL:HG13	1:FW:131:LEU:HG	1.96	0.47
1:EA:29:ASN:HA	1:GQ:30:ASN:HB2	1.96	0.47
1:FC:44:GLN:OE1	1:FC:44:GLN:HA	2.14	0.47
1:FM:29:ASN:HA	1:FM:30:ASN:HA	1.67	0.47
1:GG:28:ARG:HH12	1:GH:132:ALA:CB	2.28	0.47
1:AI:53:VAL:HG13	1:BP:131:LEU:HG	1.96	0.47
1:AI:56:PRO:HG3	1:AI:69:ALA:HB2	1.97	0.47
1:AO:59:SER:H	1:AO:66:PHE:HB3	1.80	0.47
1:AV:15:VAL:HG21	1:AW:115:GLN:HE21	1.79	0.47
1:BA:59:SER:H	1:BA:66:PHE:HB3	1.80	0.47
1:BL:29:ASN:HA	1:BL:30:ASN:HA	1.60	0.47
1:BM:36:TYR:HA	1:BM:48:GLU:HA	1.97	0.47
1:BN:111:ASN:O	1:BN:115:GLN:HG3	2.15	0.47
1:BY:33:LEU:HB2	1:FE:131:LEU:HD22	1.97	0.47
1:CH:21:ARG:HD2	1:CH:21:ARG:HA	1.65	0.47
1:CO:28:ARG:NH1	1:CP:132:ALA:HB3	2.29	0.47
1:CT:32:GLU:HG2	1:CT:51:PHE:O	2.15	0.47
1:CT:69:ALA:HB1	1:FK:129:GLN:NE2	2.30	0.47
1:CW:59:SER:H	1:CW:66:PHE:HB3	1.80	0.47
1:CX:116:LEU:HD13	1:CY:73:VAL:HG11	1.96	0.47
1:DD:93:ILE:HD11	1:DE:113:ALA:HB1	1.97	0.47
1:DF:129:GLN:NE2	1:ES:71:SER:OG	2.45	0.47
1:DI:32:GLU:HG2	1:DI:51:PHE:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:111:ASN:O	1:DJ:115:GLN:HG3	2.15	0.47
1:DZ:7:ILE:HD11	1:DZ:122:TYR:HE2	1.80	0.47
1:EF:36:TYR:HA	1:EF:48:GLU:HA	1.97	0.47
1:EJ:98:ASP:O	1:EJ:101:THR:OG1	2.16	0.47
1:EK:11:SER:HB3	1:EL:18:GLY:HA3	1.96	0.47
1:ES:29:ASN:HA	1:GE:30:ASN:HB2	1.96	0.47
1:FB:68:GLN:HB3	1:FB:97:VAL:O	2.15	0.47
1:FB:83:ASN:HD22	1:FB:85:ASN:H	1.62	0.47
1:FO:44:GLN:OE1	1:FO:44:GLN:HA	2.14	0.47
1:GU:36:TYR:HA	1:GU:48:GLU:HA	1.96	0.47
1:AG:33:LEU:HB2	1:AH:131:LEU:HD22	1.97	0.47
1:AJ:114:ALA:O	1:AJ:117:LEU:HD23	2.15	0.47
1:AR:44:GLN:O	1:AR:86:ARG:NH2	2.48	0.47
1:AS:25:GLU:HG3	1:AS:33:LEU:HD21	1.97	0.47
1:BG:44:GLN:O	1:BG:86:ARG:NH2	2.48	0.47
1:BV:53:VAL:HG13	1:FB:131:LEU:HG	1.97	0.47
1:CE:131:LEU:HG	1:GC:53:VAL:HG13	1.97	0.47
1:CF:111:ASN:O	1:CF:115:GLN:HG3	2.15	0.47
1:CJ:7:ILE:HD11	1:CJ:122:TYR:HE2	1.79	0.47
1:CL:111:ASN:O	1:CL:115:GLN:HG3	2.14	0.47
1:CV:30:ASN:HB2	1:FZ:29:ASN:HA	1.97	0.47
1:CW:129:GLN:NE2	1:ED:71:SER:OG	2.46	0.47
1:CZ:44:GLN:O	1:CZ:86:ARG:NH2	2.48	0.47
1:DE:22:THR:HG21	1:DE:24:LYS:HE3	1.96	0.47
1:DL:59:SER:H	1:DL:66:PHE:HB3	1.80	0.47
1:DP:33:LEU:HB2	1:DQ:131:LEU:HD22	1.97	0.47
1:DS:93:ILE:HD11	1:DT:113:ALA:HB1	1.97	0.47
1:EA:21:ARG:HE	1:EA:39:GLU:HA	1.79	0.47
1:EH:44:GLN:OE1	1:EH:44:GLN:HA	2.15	0.47
1:ER:10:ASP:OD1	1:ER:108:THR:OG1	2.23	0.47
1:FB:36:TYR:HA	1:FB:48:GLU:HA	1.97	0.47
1:FU:114:ALA:O	1:FU:117:LEU:HD23	2.14	0.47
1:GE:44:GLN:O	1:GE:86:ARG:NH1	2.48	0.47
1:GK:36:TYR:HA	1:GK:48:GLU:HA	1.97	0.47
1:AO:36:TYR:HA	1:AO:48:GLU:HA	1.97	0.46
1:AU:131:LEU:HG	1:BD:53:VAL:HG13	1.96	0.46
1:AV:93:ILE:HD11	1:AW:113:ALA:HB1	1.97	0.46
1:AX:32:GLU:HG2	1:AX:33:LEU:H	1.80	0.46
1:BE:116:LEU:HD13	1:BF:73:VAL:HG11	1.96	0.46
1:CN:131:LEU:HG	1:FN:53:VAL:HG13	1.98	0.46
1:DE:30:ASN:HB2	1:FQ:29:ASN:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:111:ASN:O	1:DG:115:GLN:HG3	2.15	0.46
1:EG:36:TYR:HA	1:EG:48:GLU:HA	1.97	0.46
1:EP:98:ASP:O	1:EP:101:THR:OG1	2.21	0.46
1:ER:7:ILE:HD11	1:ER:122:TYR:HE2	1.80	0.46
1:EW:115:GLN:O	1:EW:119:ASP:HB2	2.15	0.46
1:FP:7:ILE:HD11	1:FP:122:TYR:HE2	1.79	0.46
1:FQ:10:ASP:OD1	1:FQ:108:THR:OG1	2.26	0.46
1:FZ:10:ASP:OD1	1:FZ:108:THR:OG1	2.26	0.46
1:GA:57:LYS:HE3	1:GA:57:LYS:HB3	1.59	0.46
1:AC:36:TYR:HA	1:AC:48:GLU:HA	1.96	0.46
1:AP:116:LEU:HD13	1:AQ:73:VAL:HG11	1.96	0.46
1:BE:57:LYS:HB3	1:BE:57:LYS:HE3	1.72	0.46
1:BQ:116:LEU:HD13	1:BR:73:VAL:HG11	1.96	0.46
1:BY:56:PRO:HG3	1:BY:69:ALA:HB2	1.97	0.46
1:CD:104:ALA:HA	1:CD:107:THR:HG22	1.97	0.46
1:CI:93:ILE:HD11	1:CJ:113:ALA:HB1	1.97	0.46
1:CX:111:ASN:O	1:CX:115:GLN:HG3	2.14	0.46
1:DC:131:LEU:HG	1:EA:53:VAL:HG13	1.95	0.46
1:DL:116:LEU:HD23	1:DL:122:TYR:CE2	2.50	0.46
1:DU:33:LEU:HB2	1:FQ:131:LEU:HD22	1.97	0.46
1:EF:54:LYS:HB2	1:EF:70:ARG:HB3	1.96	0.46
1:EK:115:GLN:O	1:EK:119:ASP:HB2	2.15	0.46
1:EL:7:ILE:HD11	1:EL:122:TYR:HE2	1.80	0.46
1:EO:54:LYS:HB2	1:EO:70:ARG:HB3	1.96	0.46
1:EV:70:ARG:H	1:EV:70:ARG:HG2	1.58	0.46
1:FE:59:SER:H	1:FE:66:PHE:HB3	1.80	0.46
1:FE:116:LEU:HD23	1:FE:122:TYR:CE2	2.50	0.46
1:FF:115:GLN:O	1:FF:119:ASP:HB2	2.15	0.46
1:FL:57:LYS:HE3	1:FL:57:LYS:HB3	1.60	0.46
1:FU:28:ARG:HH12	1:FV:132:ALA:CB	2.28	0.46
1:GE:36:TYR:HA	1:GE:48:GLU:HA	1.97	0.46
1:GI:91:VAL:HG22	1:GR:95:LEU:HD12	1.96	0.46
1:GL:59:SER:H	1:GL:66:PHE:HB3	1.80	0.46
1:AE:36:TYR:HA	1:AE:48:GLU:HA	1.97	0.46
1:AF:68:GLN:HB3	1:AF:97:VAL:O	2.15	0.46
1:AO:116:LEU:HD23	1:AO:122:TYR:CE2	2.51	0.46
1:AQ:104:ALA:HA	1:AQ:107:THR:HG22	1.97	0.46
1:AR:101:THR:HA	1:EJ:79:LYS:HE2	1.97	0.46
1:AX:116:LEU:HD13	1:BG:73:VAL:HG11	1.97	0.46
1:BA:116:LEU:HD23	1:BA:122:TYR:CE2	2.51	0.46
1:BF:7:ILE:HD11	1:BF:122:TYR:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:104:ALA:HA	1:BF:107:THR:HG22	1.97	0.46
1:BH:15:VAL:HG21	1:BI:115:GLN:HE21	1.79	0.46
1:CI:132:ALA:HB2	1:CJ:28:ARG:NH1	2.29	0.46
1:CJ:22:THR:HG21	1:CJ:24:LYS:HE3	1.96	0.46
1:CK:33:LEU:HB2	1:FZ:131:LEU:HD22	1.97	0.46
1:CL:83:ASN:OD1	1:CL:83:ASN:N	2.47	0.46
1:DC:32:GLU:HG2	1:DC:33:LEU:H	1.80	0.46
1:DG:28:ARG:HH12	1:DH:132:ALA:CB	2.28	0.46
1:DP:111:ASN:O	1:DP:115:GLN:HG3	2.16	0.46
1:DT:7:ILE:HD11	1:DT:122:TYR:HE2	1.79	0.46
1:EC:10:ASP:OD1	1:EC:108:THR:OG1	2.23	0.46
1:FH:21:ARG:HE	1:FH:39:GLU:HA	1.79	0.46
1:AC:32:GLU:HG2	1:AC:33:LEU:H	1.80	0.46
1:AG:132:ALA:HB2	1:AH:28:ARG:NH1	2.30	0.46
1:AJ:93:ILE:HD11	1:AK:113:ALA:HB1	1.97	0.46
1:BE:83:ASN:OD1	1:BE:83:ASN:N	2.47	0.46
1:BG:56:PRO:HG3	1:BG:69:ALA:HB2	1.97	0.46
1:BS:56:PRO:HG3	1:BS:69:ALA:HB2	1.97	0.46
1:CC:83:ASN:OD1	1:CC:83:ASN:N	2.47	0.46
1:CJ:30:ASN:HB2	1:GL:29:ASN:HA	1.97	0.46
1:CR:28:ARG:HH12	1:CS:132:ALA:CB	2.28	0.46
1:CR:111:ASN:O	1:CR:115:GLN:HG3	2.16	0.46
1:CT:91:VAL:HG22	1:FK:95:LEU:HD12	1.97	0.46
1:DA:114:ALA:O	1:DA:117:LEU:HD23	2.16	0.46
1:DK:7:ILE:HD12	1:DK:115:GLN:HB3	1.96	0.46
1:DS:15:VAL:HG21	1:DT:115:GLN:HE21	1.80	0.46
1:DU:59:SER:H	1:DU:66:PHE:HB3	1.81	0.46
1:EP:95:LEU:HG	1:EP:97:VAL:HG13	1.97	0.46
1:AN:7:ILE:HD12	1:AN:115:GLN:HB3	1.96	0.46
1:AO:95:LEU:HG	1:AO:97:VAL:HG13	1.97	0.46
1:AX:36:TYR:HA	1:AX:48:GLU:HA	1.98	0.46
1:BQ:111:ASN:O	1:BQ:115:GLN:HG3	2.14	0.46
1:CF:116:LEU:HD13	1:CG:73:VAL:HG11	1.98	0.46
1:CM:104:ALA:HA	1:CM:107:THR:HG22	1.97	0.46
1:CQ:36:TYR:HA	1:CQ:48:GLU:HA	1.98	0.46
1:CT:56:PRO:HG3	1:CT:69:ALA:HB2	1.97	0.46
1:CW:56:PRO:HG3	1:CW:69:ALA:HB2	1.97	0.46
1:DF:33:LEU:HB2	1:ES:131:LEU:HD22	1.97	0.46
1:DL:95:LEU:HG	1:DL:97:VAL:HG13	1.97	0.46
1:DO:115:GLN:HE21	1:DO:115:GLN:HB2	1.54	0.46
1:EE:2:ILE:HD11	1:EE:125:PHE:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EG:95:LEU:HG	1:EG:97:VAL:HG13	1.97	0.46
1:EP:32:GLU:HG2	1:EP:51:PHE:O	2.16	0.46
1:FA:36:TYR:HA	1:FA:48:GLU:HA	1.97	0.46
1:FE:32:GLU:HG2	1:FE:51:PHE:O	2.16	0.46
1:FL:56:PRO:HG3	1:FL:69:ALA:HB2	1.96	0.46
1:GF:83:ASN:HD22	1:GF:85:ASN:H	1.62	0.46
1:GF:98:ASP:O	1:GF:101:THR:OG1	2.21	0.46
1:GL:32:GLU:HG2	1:GL:51:PHE:O	2.16	0.46
1:GO:68:GLN:HA	1:GO:99:PRO:HD3	1.97	0.46
1:GU:32:GLU:HG2	1:GU:51:PHE:O	2.15	0.46
1:GU:68:GLN:HB3	1:GU:97:VAL:O	2.16	0.46
1:GU:83:ASN:HD22	1:GU:85:ASN:H	1.62	0.46
1:GU:95:LEU:HG	1:GU:97:VAL:HG13	1.97	0.46
1:AA:44:GLN:OE1	1:AA:44:GLN:HA	2.14	0.46
1:AL:32:GLU:HG2	1:AL:33:LEU:H	1.81	0.46
1:AN:29:ASN:HA	1:AN:30:ASN:HA	1.57	0.46
1:BA:32:GLU:HG2	1:BA:33:LEU:H	1.81	0.46
1:BB:111:ASN:O	1:BB:115:GLN:HG3	2.15	0.46
1:BJ:68:GLN:HB3	1:BJ:97:VAL:O	2.16	0.46
1:BQ:11:SER:HB3	1:BR:18:GLY:HA3	1.96	0.46
1:BV:95:LEU:HG	1:BV:97:VAL:HG13	1.97	0.46
1:BX:29:ASN:HA	1:BX:30:ASN:HA	1.54	0.46
1:CC:56:PRO:HB3	1:CC:67:THR:O	2.16	0.46
1:CH:59:SER:H	1:CH:66:PHE:HB3	1.80	0.46
1:CH:116:LEU:HD23	1:CH:122:TYR:CE2	2.51	0.46
1:CL:56:PRO:HB3	1:CL:67:THR:O	2.16	0.46
1:CO:44:GLN:OE1	1:CO:44:GLN:HA	2.15	0.46
1:CO:93:ILE:HD11	1:CP:113:ALA:HB1	1.97	0.46
1:DC:36:TYR:HA	1:DC:48:GLU:HA	1.98	0.46
1:DF:56:PRO:HG3	1:DF:69:ALA:HB2	1.97	0.46
1:DG:56:PRO:HG3	1:DG:69:ALA:HB2	1.96	0.46
1:EM:131:LEU:HD23	1:EM:131:LEU:HA	1.82	0.46
1:EO:29:ASN:HA	1:EO:30:ASN:HA	1.66	0.46
1:EY:21:ARG:HE	1:EY:39:GLU:HA	1.79	0.46
1:FB:59:SER:H	1:FB:66:PHE:HB3	1.81	0.46
1:FD:113:ALA:HA	1:FD:116:LEU:HD12	1.97	0.46
1:FL:54:LYS:HB3	1:FL:70:ARG:HB2	1.96	0.46
1:FR:83:ASN:OD1	1:FR:83:ASN:N	2.47	0.46
1:GN:102:THR:HG23	1:GN:105:GLU:OE1	2.16	0.46
1:GV:115:GLN:O	1:GV:119:ASP:HB2	2.15	0.46
1:AA:93:ILE:HD11	1:AB:113:ALA:HB1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:114:ALA:O	1:AA:117:LEU:HD23	2.16	0.46
1:AJ:44:GLN:HA	1:AJ:44:GLN:OE1	2.15	0.46
1:AS:111:ASN:O	1:AS:115:GLN:HG3	2.15	0.46
1:AV:114:ALA:O	1:AV:117:LEU:HD23	2.16	0.46
1:BS:131:LEU:HD23	1:BS:131:LEU:HA	1.83	0.46
1:BZ:44:GLN:OE1	1:BZ:44:GLN:HA	2.15	0.46
1:CO:114:ALA:O	1:CO:117:LEU:HD23	2.16	0.46
1:DL:131:LEU:HD22	1:EP:33:LEU:HB2	1.98	0.46
1:DX:115:GLN:HE21	1:DX:115:GLN:HB2	1.55	0.46
1:DY:115:GLN:O	1:DY:119:ASP:HB2	2.15	0.46
1:EC:44:GLN:HG2	1:EC:86:ARG:HE	1.81	0.46
1:EQ:116:LEU:HD13	1:ER:73:VAL:HG11	1.98	0.46
1:EZ:2:ILE:HD11	1:EZ:125:PHE:HB2	1.98	0.46
1:GF:59:SER:H	1:GF:66:PHE:HB3	1.81	0.46
1:GT:36:TYR:HA	1:GT:48:GLU:HA	1.97	0.46
1:GU:59:SER:H	1:GU:66:PHE:HB3	1.81	0.46
1:AG:93:ILE:HD11	1:AH:113:ALA:HB1	1.98	0.46
1:AZ:7:ILE:HD11	1:AZ:122:TYR:HE2	1.79	0.46
1:BM:59:SER:H	1:BM:66:PHE:HB3	1.80	0.46
1:BT:114:ALA:O	1:BT:117:LEU:HD23	2.16	0.46
1:BV:116:LEU:HD23	1:BV:122:TYR:CE2	2.51	0.46
1:BY:29:ASN:HA	1:EI:30:ASN:HB2	1.98	0.46
1:CB:36:TYR:HA	1:CB:48:GLU:HA	1.98	0.46
1:CV:36:TYR:HA	1:CV:48:GLU:HA	1.97	0.46
1:DA:93:ILE:HD11	1:DB:113:ALA:HB1	1.97	0.46
1:DI:56:PRO:HG3	1:DI:69:ALA:HB2	1.98	0.46
1:EB:116:LEU:HD13	1:EC:73:VAL:HG11	1.98	0.46
1:EC:113:ALA:HA	1:EC:116:LEU:HD12	1.97	0.46
1:ED:29:ASN:HA	1:GT:30:ASN:HB2	1.98	0.46
1:ER:113:ALA:HA	1:ER:116:LEU:HD12	1.97	0.46
1:ES:59:SER:H	1:ES:66:PHE:HB3	1.80	0.46
1:FE:7:ILE:HG23	1:FE:115:GLN:HG2	1.98	0.46
1:GE:29:ASN:HA	1:GE:30:ASN:HA	1.66	0.46
1:GF:68:GLN:HB3	1:GF:97:VAL:O	2.16	0.46
1:GW:7:ILE:HD11	1:GW:122:TYR:HE2	1.81	0.46
1:AC:69:ALA:HB1	1:BS:129:GLN:HE22	1.80	0.46
1:AF:29:ASN:HA	1:AK:30:ASN:HB2	1.98	0.46
1:AP:57:LYS:HB3	1:AP:57:LYS:HE3	1.72	0.46
1:AX:69:ALA:HB1	1:BG:129:GLN:HE22	1.80	0.46
1:BD:32:GLU:HG2	1:BD:51:PHE:O	2.15	0.46
1:BK:114:ALA:O	1:BK:117:LEU:HD23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BR:104:ALA:HA	1:BR:107:THR:HG22	1.97	0.46
1:BX:36:TYR:HA	1:BX:48:GLU:HA	1.98	0.46
1:BZ:93:ILE:HD11	1:CA:113:ALA:HB1	1.97	0.46
1:CA:28:ARG:HD2	1:DF:28:ARG:HE	1.81	0.46
1:CH:36:TYR:HA	1:CH:48:GLU:HA	1.97	0.46
1:DE:131:LEU:HA	1:DE:131:LEU:HD23	1.82	0.46
1:DY:56:PRO:HB3	1:DY:67:THR:O	2.16	0.46
1:EB:114:ALA:O	1:EB:117:LEU:HD23	2.16	0.46
1:ED:59:SER:H	1:ED:66:PHE:HB3	1.80	0.46
1:EQ:114:ALA:O	1:EQ:117:LEU:HD23	2.16	0.46
1:ER:37:ILE:HD12	1:ER:47:LYS:HB3	1.98	0.46
1:ER:44:GLN:HG2	1:ER:86:ARG:HE	1.81	0.46
1:ER:70:ARG:HH11	1:ER:70:ARG:HG3	1.81	0.46
1:FQ:59:SER:H	1:FQ:66:PHE:HB3	1.80	0.46
1:FY:44:GLN:HG2	1:FY:86:ARG:HE	1.81	0.46
1:FY:70:ARG:HH11	1:FY:70:ARG:HG3	1.81	0.46
1:FZ:116:LEU:HD23	1:FZ:122:TYR:CE2	2.50	0.46
1:GF:36:TYR:HA	1:GF:48:GLU:HA	1.97	0.46
1:BB:28:ARG:HH12	1:BC:132:ALA:CB	2.28	0.46
1:BQ:44:GLN:OE1	1:BQ:44:GLN:HA	2.16	0.46
1:CX:44:GLN:OE1	1:CX:44:GLN:HA	2.16	0.46
1:CX:83:ASN:OD1	1:CX:83:ASN:N	2.47	0.46
1:DE:36:TYR:HA	1:DE:48:GLU:HA	1.98	0.46
1:EC:37:ILE:HD12	1:EC:47:LYS:HB3	1.98	0.46
1:EC:70:ARG:HG3	1:EC:70:ARG:HH11	1.81	0.46
1:EC:131:LEU:HD12	1:GT:27:VAL:HG22	1.98	0.46
1:EG:29:ASN:HA	1:FM:30:ASN:HB2	1.97	0.46
1:FD:7:ILE:HD12	1:FD:115:GLN:HB3	1.96	0.46
1:FD:36:TYR:HA	1:FD:48:GLU:HA	1.98	0.46
1:FP:44:GLN:HG2	1:FP:86:ARG:HE	1.81	0.46
1:FP:70:ARG:HG3	1:FP:70:ARG:HH11	1.81	0.46
1:FR:44:GLN:OE1	1:FR:44:GLN:HA	2.16	0.46
1:FY:37:ILE:HD12	1:FY:47:LYS:HB3	1.98	0.46
1:FZ:59:SER:H	1:FZ:66:PHE:HB3	1.80	0.46
1:GA:109:MET:HE2	1:GB:91:VAL:HG23	1.98	0.46
1:AM:93:ILE:HD11	1:AN:113:ALA:HB1	1.98	0.45
1:AM:114:ALA:O	1:AM:117:LEU:HD23	2.16	0.45
1:BB:54:LYS:HB3	1:BB:70:ARG:HB2	1.98	0.45
1:BI:131:LEU:HD23	1:BI:131:LEU:HA	1.81	0.45
1:BJ:59:SER:H	1:BJ:66:PHE:HB3	1.80	0.45
1:BV:59:SER:H	1:BV:66:PHE:HB3	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:29:ASN:HA	1:DN:30:ASN:HB2	1.98	0.45
1:DJ:114:ALA:O	1:DJ:117:LEU:HD23	2.16	0.45
1:DK:29:ASN:HA	1:DK:30:ASN:HA	1.60	0.45
1:EF:131:LEU:HD23	1:EF:131:LEU:HA	1.80	0.45
1:EG:98:ASP:O	1:EG:101:THR:OG1	2.22	0.45
1:ER:29:ASN:HA	1:ER:30:ASN:HA	1.57	0.45
1:FB:70:ARG:H	1:FB:70:ARG:HG2	1.54	0.45
1:FD:44:GLN:HG2	1:FD:86:ARG:HE	1.81	0.45
1:FL:109:MET:HE2	1:FM:91:VAL:HG23	1.98	0.45
1:FN:10:ASP:OD1	1:FN:108:THR:OG1	2.20	0.45
1:GI:116:LEU:HD13	1:GR:73:VAL:HG11	1.98	0.45
1:GK:113:ALA:HA	1:GK:116:LEU:HD12	1.97	0.45
1:AE:30:ASN:HB2	1:FE:29:ASN:HA	1.97	0.45
1:AV:57:LYS:HE3	1:AV:57:LYS:HB3	1.59	0.45
1:BI:36:TYR:HA	1:BI:48:GLU:HA	1.98	0.45
1:BR:7:ILE:HD11	1:BR:122:TYR:HE2	1.81	0.45
1:CE:44:GLN:O	1:CE:86:ARG:NH2	2.48	0.45
1:CN:44:GLN:O	1:CN:86:ARG:NH2	2.48	0.45
1:DB:7:ILE:HD11	1:DB:122:TYR:HE2	1.81	0.45
1:DI:91:VAL:HG22	1:EV:95:LEU:HD12	1.98	0.45
1:DT:124:ASP:HB3	1:DT:130:ALA:HB3	1.98	0.45
1:ED:29:ASN:ND2	1:ED:32:GLU:OE1	2.48	0.45
1:EK:44:GLN:OE1	1:EK:44:GLN:HA	2.16	0.45
1:FD:7:ILE:HD11	1:FD:122:TYR:HE2	1.80	0.45
1:FL:89:ASN:HB3	1:FM:109:MET:HE1	1.97	0.45
1:FM:102:THR:HG23	1:FM:105:GLU:OE1	2.16	0.45
1:FY:7:ILE:HD11	1:FY:122:TYR:HE2	1.80	0.45
1:GI:70:ARG:H	1:GI:70:ARG:HG2	1.58	0.45
1:GV:56:PRO:HB3	1:GV:67:THR:O	2.16	0.45
1:AD:111:ASN:O	1:AD:115:GLN:HG3	2.17	0.45
1:AG:111:ASN:O	1:AG:115:GLN:HG3	2.15	0.45
1:BD:56:PRO:HG3	1:BD:69:ALA:HB2	1.97	0.45
1:CH:29:ASN:HA	1:DT:30:ASN:HB2	1.99	0.45
1:CR:54:LYS:HB3	1:CR:70:ARG:HB2	1.98	0.45
1:CY:22:THR:HG21	1:CY:24:LYS:HE3	1.99	0.45
1:DA:111:ASN:O	1:DA:115:GLN:HG3	2.17	0.45
1:DG:54:LYS:HB3	1:DG:70:ARG:HB2	1.98	0.45
1:DJ:93:ILE:HD11	1:DK:113:ALA:HB1	1.99	0.45
1:EF:29:ASN:HA	1:EF:30:ASN:HA	1.67	0.45
1:EK:56:PRO:HB3	1:EK:67:THR:O	2.16	0.45
1:FV:102:THR:HG23	1:FV:105:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FW:95:LEU:HG	1:FW:97:VAL:HG13	1.98	0.45
1:GB:102:THR:HG23	1:GB:105:GLU:OE1	2.16	0.45
1:GF:95:LEU:HG	1:GF:97:VAL:HG13	1.97	0.45
1:GR:54:LYS:HB3	1:GR:70:ARG:CG	2.46	0.45
1:AJ:111:ASN:O	1:AJ:115:GLN:HG3	2.17	0.45
1:AM:116:LEU:HD13	1:AN:73:VAL:HG11	1.98	0.45
1:AR:131:LEU:HG	1:EJ:53:VAL:HG13	1.98	0.45
1:CH:32:GLU:HG2	1:CH:33:LEU:H	1.81	0.45
1:CZ:129:GLN:HE22	1:DX:69:ALA:HB1	1.80	0.45
1:DE:27:VAL:HG22	1:FP:131:LEU:HD12	1.97	0.45
1:DJ:56:PRO:HB3	1:DJ:67:THR:O	2.16	0.45
1:DJ:116:LEU:HD13	1:DK:73:VAL:HG11	1.98	0.45
1:EP:59:SER:H	1:EP:66:PHE:HB3	1.81	0.45
1:EW:44:GLN:OE1	1:EW:44:GLN:HA	2.16	0.45
1:FF:44:GLN:OE1	1:FF:44:GLN:HA	2.16	0.45
1:FF:56:PRO:HB3	1:FF:67:THR:O	2.16	0.45
1:FS:7:ILE:HD11	1:FS:122:TYR:HE2	1.80	0.45
1:FZ:32:GLU:HG2	1:FZ:51:PHE:O	2.16	0.45
1:GC:83:ASN:HD22	1:GC:85:ASN:H	1.65	0.45
1:GH:102:THR:HG23	1:GH:105:GLU:OE1	2.17	0.45
1:AB:29:ASN:HA	1:AB:30:ASN:HA	1.54	0.45
1:AK:7:ILE:HD11	1:AK:122:TYR:HE2	1.81	0.45
1:AO:21:ARG:HA	1:AO:21:ARG:HD2	1.66	0.45
1:AO:29:ASN:HA	1:BI:30:ASN:HB2	1.98	0.45
1:AS:54:LYS:HB3	1:AS:70:ARG:HB2	1.98	0.45
1:AU:56:PRO:HG3	1:AU:69:ALA:HB2	1.98	0.45
1:AW:29:ASN:HA	1:AW:30:ASN:HA	1.54	0.45
1:BM:29:ASN:HA	1:EO:30:ASN:HB2	1.98	0.45
1:BM:116:LEU:HD23	1:BM:122:TYR:CE2	2.51	0.45
1:BT:93:ILE:HD11	1:BU:113:ALA:HB1	1.98	0.45
1:BV:29:ASN:HA	1:EF:30:ASN:HB2	1.98	0.45
1:BZ:114:ALA:O	1:BZ:117:LEU:HD23	2.16	0.45
1:CH:95:LEU:HG	1:CH:97:VAL:HG13	1.97	0.45
1:CJ:36:TYR:HA	1:CJ:48:GLU:HA	1.98	0.45
1:CN:56:PRO:HG3	1:CN:69:ALA:HB2	1.97	0.45
1:DT:36:TYR:HA	1:DT:48:GLU:HA	1.97	0.45
1:EG:59:SER:H	1:EG:66:PHE:HB3	1.81	0.45
1:EG:68:GLN:HB3	1:EG:97:VAL:O	2.16	0.45
1:EP:68:GLN:HB3	1:EP:97:VAL:O	2.16	0.45
1:FG:29:ASN:HA	1:FG:30:ASN:HA	1.54	0.45
1:FQ:32:GLU:HG2	1:FQ:51:PHE:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FR:115:GLN:O	1:FR:119:ASP:HB2	2.15	0.45
1:GG:132:ALA:HB2	1:GH:28:ARG:NH1	2.30	0.45
1:GN:10:ASP:OD1	1:GN:108:THR:OG1	2.19	0.45
1:GQ:102:THR:HG23	1:GQ:105:GLU:OE1	2.17	0.45
1:GS:44:GLN:OE1	1:GS:44:GLN:HA	2.17	0.45
1:AA:111:ASN:O	1:AA:115:GLN:HG3	2.17	0.45
1:AC:131:LEU:HD23	1:AC:131:LEU:HA	1.83	0.45
1:AD:93:ILE:HD11	1:AE:113:ALA:HB1	1.97	0.45
1:AO:32:GLU:HG2	1:AO:33:LEU:H	1.81	0.45
1:AY:114:ALA:O	1:AY:117:LEU:HD23	2.16	0.45
1:BH:93:ILE:HD11	1:BI:113:ALA:HB1	1.97	0.45
1:BP:56:PRO:HG3	1:BP:69:ALA:HB2	1.98	0.45
1:BQ:56:PRO:HB3	1:BQ:67:THR:O	2.16	0.45
1:BY:95:LEU:HG	1:BY:97:VAL:HG13	1.98	0.45
1:CD:22:THR:HG21	1:CD:24:LYS:HE3	1.99	0.45
1:CF:93:ILE:HD11	1:CG:113:ALA:HB1	1.99	0.45
1:CH:53:VAL:HG13	1:GF:131:LEU:HG	1.97	0.45
1:CJ:27:VAL:HG22	1:GK:131:LEU:HD12	1.97	0.45
1:CK:56:PRO:HG3	1:CK:69:ALA:HB2	1.97	0.45
1:CV:27:VAL:HG22	1:FY:131:LEU:HD12	1.97	0.45
1:CX:56:PRO:HB3	1:CX:67:THR:O	2.16	0.45
1:DA:89:ASN:HB3	1:DB:109:MET:HE1	1.98	0.45
1:DR:56:PRO:HG3	1:DR:69:ALA:HB2	1.97	0.45
1:DU:58:VAL:HA	1:DU:66:PHE:HB3	1.99	0.45
1:EC:29:ASN:HA	1:EC:30:ASN:HA	1.57	0.45
1:EG:32:GLU:HG2	1:EG:51:PHE:O	2.16	0.45
1:EI:48:GLU:O	1:EI:76:LYS:HE2	2.17	0.45
1:FK:54:LYS:HB3	1:FK:70:ARG:CG	2.46	0.45
1:FK:70:ARG:H	1:FK:70:ARG:HG2	1.59	0.45
1:FP:36:TYR:HA	1:FP:48:GLU:HA	1.98	0.45
1:FT:29:ASN:ND2	1:FT:32:GLU:OE1	2.44	0.45
1:GB:97:VAL:HG12	1:GB:109:MET:HE1	1.99	0.45
1:GD:44:GLN:HA	1:GD:44:GLN:OE1	2.17	0.45
1:GJ:114:ALA:O	1:GJ:117:LEU:HD23	2.16	0.45
1:AC:83:ASN:HD22	1:AC:85:ASN:H	1.65	0.45
1:AL:29:ASN:ND2	1:AL:32:GLU:OE1	2.50	0.45
1:AL:36:TYR:HA	1:AL:48:GLU:HA	1.97	0.45
1:BK:93:ILE:HD11	1:BL:113:ALA:HB1	1.98	0.45
1:BV:32:GLU:HG2	1:BV:33:LEU:H	1.81	0.45
1:BW:93:ILE:HD11	1:BX:113:ALA:HB1	1.97	0.45
1:BY:68:GLN:HB3	1:BY:97:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BZ:57:LYS:HB3	1:BZ:57:LYS:HE3	1.59	0.45
1:CC:44:GLN:OE1	1:CC:44:GLN:HA	2.16	0.45
1:CD:7:ILE:HD11	1:CD:122:TYR:HE2	1.80	0.45
1:CG:54:LYS:HE3	1:CG:54:LYS:HB2	1.83	0.45
1:CL:44:GLN:OE1	1:CL:44:GLN:HA	2.16	0.45
1:CY:104:ALA:HA	1:CY:107:THR:HG22	1.97	0.45
1:CZ:56:PRO:HG3	1:CZ:69:ALA:HB2	1.97	0.45
1:DP:25:GLU:HG3	1:DP:33:LEU:HD21	1.97	0.45
1:EE:44:GLN:OE1	1:EE:44:GLN:HA	2.17	0.45
1:EI:102:THR:HG23	1:EI:105:GLU:OE1	2.17	0.45
1:EU:102:THR:HG23	1:EU:105:GLU:OE1	2.17	0.45
1:FK:95:LEU:HG	1:FK:97:VAL:HG13	1.98	0.45
1:FN:83:ASN:HD22	1:FN:85:ASN:H	1.65	0.45
1:FO:114:ALA:O	1:FO:117:LEU:HD23	2.16	0.45
1:FX:114:ALA:O	1:FX:117:LEU:HD23	2.16	0.45
1:GA:56:PRO:HG3	1:GA:69:ALA:HB2	1.97	0.45
1:GR:95:LEU:HG	1:GR:97:VAL:HG13	1.99	0.45
1:GV:44:GLN:OE1	1:GV:44:GLN:HA	2.16	0.45
1:AP:44:GLN:OE1	1:AP:44:GLN:HA	2.16	0.45
1:AY:116:LEU:HD13	1:AZ:73:VAL:HG11	1.98	0.45
1:BA:21:ARG:HA	1:BA:21:ARG:HD2	1.66	0.45
1:BM:32:GLU:HG2	1:BM:33:LEU:H	1.81	0.45
1:BN:25:GLU:HG3	1:BN:33:LEU:HD21	1.97	0.45
1:CF:56:PRO:HB3	1:CF:67:THR:O	2.17	0.45
1:CK:68:GLN:HB3	1:CK:97:VAL:O	2.17	0.45
1:CW:68:GLN:HB3	1:CW:97:VAL:O	2.17	0.45
1:DL:21:ARG:HA	1:DL:21:ARG:HD2	1.65	0.45
1:DP:54:LYS:HB3	1:DP:70:ARG:HB2	1.98	0.45
1:DY:44:GLN:OE1	1:DY:44:GLN:HA	2.16	0.45
1:EO:131:LEU:HD23	1:EO:131:LEU:HA	1.80	0.45
1:FD:37:ILE:HD12	1:FD:47:LYS:HB3	1.98	0.45
1:FJ:102:THR:HG23	1:FJ:105:GLU:OE1	2.17	0.45
1:FY:36:TYR:HA	1:FY:48:GLU:HA	1.98	0.45
1:GG:25:GLU:HG3	1:GG:33:LEU:HD21	1.99	0.45
1:GI:95:LEU:HD12	1:GR:91:VAL:HG22	1.99	0.45
1:GJ:116:LEU:HD13	1:GK:73:VAL:HG11	1.98	0.45
1:GW:29:ASN:HA	1:GW:30:ASN:HA	1.54	0.45
1:AV:89:ASN:HB3	1:AW:109:MET:HE1	1.99	0.45
1:AX:83:ASN:HD22	1:AX:85:ASN:H	1.65	0.45
1:BN:54:LYS:HB3	1:BN:70:ARG:HB2	1.98	0.45
1:CE:56:PRO:HG3	1:CE:69:ALA:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CO:111:ASN:O	1:CO:115:GLN:HG3	2.17	0.45
1:CY:7:ILE:HD11	1:CY:122:TYR:HE2	1.80	0.45
1:DE:66:PHE:N	1:DE:66:PHE:CD1	2.85	0.45
1:DF:68:GLN:HB3	1:DF:97:VAL:O	2.17	0.45
1:DS:111:ASN:O	1:DS:115:GLN:HG3	2.17	0.45
1:EN:44:GLN:OE1	1:EN:44:GLN:HA	2.17	0.45
1:EP:58:VAL:HA	1:EP:66:PHE:HB3	1.99	0.45
1:EV:54:LYS:HB3	1:EV:70:ARG:CG	2.47	0.45
1:FC:114:ALA:O	1:FC:117:LEU:HD23	2.16	0.45
1:FD:70:ARG:HH11	1:FD:70:ARG:HG3	1.81	0.45
1:GK:37:ILE:HD12	1:GK:47:LYS:HB3	1.99	0.45
1:GM:11:SER:HB3	1:GN:18:GLY:HA3	1.99	0.45
1:GO:53:VAL:HG13	1:GX:131:LEU:HG	1.98	0.45
1:AG:57:LYS:HE3	1:AG:57:LYS:HB3	1.61	0.45
1:BA:36:TYR:HA	1:BA:48:GLU:HA	1.97	0.45
1:BE:44:GLN:OE1	1:BE:44:GLN:HA	2.16	0.45
1:BZ:132:ALA:HB2	1:CA:28:ARG:HH12	1.82	0.45
1:CI:111:ASN:O	1:CI:115:GLN:HG3	2.17	0.45
1:CJ:124:ASP:HB3	1:CJ:130:ALA:HB3	1.99	0.45
1:DO:36:TYR:HA	1:DO:48:GLU:HA	1.98	0.45
1:EG:58:VAL:HA	1:EG:66:PHE:HB3	1.99	0.45
1:ES:7:ILE:HG23	1:ES:115:GLN:HG2	1.98	0.45
1:EV:115:GLN:HE21	1:EV:115:GLN:HB2	1.49	0.45
1:EW:56:PRO:HB3	1:EW:67:THR:O	2.17	0.45
1:EX:29:ASN:HA	1:EX:30:ASN:HA	1.55	0.45
1:FF:57:LYS:HE3	1:FF:57:LYS:HB3	1.72	0.45
1:FO:56:PRO:HB3	1:FO:67:THR:O	2.17	0.45
1:FX:56:PRO:HB3	1:FX:67:THR:O	2.17	0.45
1:AY:132:ALA:HB3	1:BD:25:GLU:HG2	2.00	0.44
1:BE:56:PRO:HB3	1:BE:67:THR:O	2.16	0.44
1:BX:30:ASN:HB2	1:DL:29:ASN:HA	1.98	0.44
1:BZ:111:ASN:O	1:BZ:115:GLN:HG3	2.17	0.44
1:CA:36:TYR:HA	1:CA:48:GLU:HA	1.99	0.44
1:CK:36:TYR:HA	1:CK:48:GLU:HA	1.99	0.44
1:CP:29:ASN:HA	1:CP:30:ASN:HA	1.54	0.44
1:CX:109:MET:HE2	1:CY:91:VAL:HG23	2.00	0.44
1:DC:95:LEU:HG	1:DC:97:VAL:HG13	1.99	0.44
1:DM:114:ALA:O	1:DM:117:LEU:HD23	2.16	0.44
1:DN:36:TYR:HA	1:DN:48:GLU:HA	1.99	0.44
1:DU:56:PRO:HG3	1:DU:69:ALA:HB2	1.99	0.44
1:DU:68:GLN:HB3	1:DU:97:VAL:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DX:83:ASN:HD22	1:DX:85:ASN:H	1.64	0.44
1:EV:28:ARG:HB2	1:FY:29:ASN:ND2	2.32	0.44
1:FC:56:PRO:HB3	1:FC:67:THR:O	2.18	0.44
1:FZ:7:ILE:HG23	1:FZ:115:GLN:HG2	1.98	0.44
1:GK:44:GLN:HG2	1:GK:86:ARG:HE	1.81	0.44
1:GK:70:ARG:HH11	1:GK:70:ARG:HG3	1.81	0.44
1:GR:70:ARG:H	1:GR:70:ARG:HG2	1.58	0.44
1:AD:28:ARG:NH1	1:AE:132:ALA:HB3	2.32	0.44
1:AE:124:ASP:HB3	1:AE:130:ALA:HB3	1.98	0.44
1:AP:93:ILE:HD11	1:AQ:113:ALA:HB1	1.99	0.44
1:BO:66:PHE:CD2	1:BO:66:PHE:N	2.86	0.44
1:BT:116:LEU:HD13	1:BU:73:VAL:HG11	1.98	0.44
1:CF:54:LYS:HB3	1:CF:70:ARG:HB2	1.99	0.44
1:CG:37:ILE:HD12	1:CG:47:LYS:HB3	1.99	0.44
1:CK:95:LEU:HG	1:CK:97:VAL:HG13	1.98	0.44
1:CM:7:ILE:HD11	1:CM:122:TYR:HE2	1.81	0.44
1:DV:114:ALA:O	1:DV:117:LEU:HD23	2.16	0.44
1:DW:36:TYR:HA	1:DW:48:GLU:HA	1.99	0.44
1:ET:25:GLU:HG3	1:ET:33:LEU:HD21	1.99	0.44
1:FC:116:LEU:HD13	1:FD:73:VAL:HG11	1.98	0.44
1:FR:56:PRO:HB3	1:FR:67:THR:O	2.17	0.44
1:GL:116:LEU:HD23	1:GL:122:TYR:CE2	2.52	0.44
1:GX:68:GLN:HB3	1:GX:97:VAL:O	2.17	0.44
1:AI:25:GLU:HG2	1:AM:132:ALA:HB3	1.99	0.44
1:AN:37:ILE:HD12	1:AN:47:LYS:HB3	2.00	0.44
1:BA:53:VAL:HG13	1:BJ:131:LEU:HG	2.00	0.44
1:BE:93:ILE:HD11	1:BF:113:ALA:HB1	1.99	0.44
1:BI:37:ILE:HD12	1:BI:47:LYS:HB3	2.00	0.44
1:BN:93:ILE:HD11	1:BO:113:ALA:HB1	1.99	0.44
1:CJ:66:PHE:N	1:CJ:66:PHE:CD1	2.85	0.44
1:CP:7:ILE:HD11	1:CP:122:TYR:HE2	1.81	0.44
1:CZ:68:GLN:HB3	1:CZ:97:VAL:O	2.18	0.44
1:DM:111:ASN:O	1:DM:115:GLN:HG3	2.17	0.44
1:DP:93:ILE:HD11	1:DQ:113:ALA:HB1	1.99	0.44
1:DQ:66:PHE:N	1:DQ:66:PHE:CD2	2.86	0.44
1:DT:37:ILE:HD12	1:DT:47:LYS:HB3	2.00	0.44
1:DV:111:ASN:O	1:DV:115:GLN:HG3	2.17	0.44
1:AG:25:GLU:HG3	1:AG:33:LEU:HD21	1.99	0.44
1:BK:116:LEU:HD13	1:BL:73:VAL:HG11	1.98	0.44
1:BX:124:ASP:HB3	1:BX:130:ALA:HB3	1.99	0.44
1:CJ:37:ILE:HD12	1:CJ:47:LYS:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CU:28:ARG:NH1	1:CV:132:ALA:HB3	2.32	0.44
1:DU:36:TYR:HA	1:DU:48:GLU:HA	2.00	0.44
1:EH:56:PRO:HB3	1:EH:67:THR:O	2.17	0.44
1:EH:57:LYS:HB3	1:EH:57:LYS:HE3	1.57	0.44
1:EI:29:ASN:HA	1:EI:30:ASN:HA	1.67	0.44
1:EW:57:LYS:HB3	1:EW:57:LYS:HE3	1.72	0.44
1:FE:21:ARG:HD2	1:FE:21:ARG:HA	1.66	0.44
1:FO:116:LEU:HD13	1:FP:73:VAL:HG11	1.98	0.44
1:FS:22:THR:HG21	1:FS:24:LYS:HE3	2.00	0.44
1:FX:116:LEU:HD13	1:FY:73:VAL:HG11	1.98	0.44
1:GB:36:TYR:HA	1:GB:48:GLU:HA	1.99	0.44
1:GM:115:GLN:O	1:GM:119:ASP:HB2	2.18	0.44
1:GQ:21:ARG:HG3	1:GQ:39:GLU:HG2	2.00	0.44
1:AC:129:GLN:HE22	1:BS:69:ALA:HB1	1.83	0.44
1:AT:66:PHE:N	1:AT:66:PHE:CD2	2.86	0.44
1:AY:93:ILE:HD11	1:AZ:113:ALA:HB1	1.98	0.44
1:AZ:37:ILE:HD12	1:AZ:47:LYS:HB3	1.99	0.44
1:BA:29:ASN:HA	1:FA:30:ASN:HB2	1.98	0.44
1:BC:66:PHE:N	1:BC:66:PHE:CD2	2.86	0.44
1:BQ:57:LYS:HB3	1:BQ:57:LYS:HE3	1.73	0.44
1:BR:22:THR:HG21	1:BR:24:LYS:HE3	2.00	0.44
1:BY:98:ASP:O	1:BY:101:THR:OG1	2.24	0.44
1:CK:28:ARG:HE	1:DN:28:ARG:CD	2.31	0.44
1:CM:22:THR:HG21	1:CM:24:LYS:HE3	2.00	0.44
1:DF:95:LEU:HG	1:DF:97:VAL:HG13	1.98	0.44
1:DM:89:ASN:HB3	1:DN:109:MET:HE1	1.98	0.44
1:DR:113:ALA:HA	1:DR:116:LEU:HD12	2.00	0.44
1:EB:100:GLU:HG2	1:GT:44:GLN:OE1	2.17	0.44
1:EO:44:GLN:HG3	1:EO:86:ARG:NH2	2.33	0.44
1:FJ:10:ASP:OD2	1:FJ:108:THR:OG1	2.19	0.44
1:FP:37:ILE:HD12	1:FP:47:LYS:HB3	1.99	0.44
1:FW:8:ALA:O	1:FW:11:SER:OG	2.28	0.44
1:FW:54:LYS:HB3	1:FW:70:ARG:CG	2.47	0.44
1:GG:15:VAL:HG21	1:GH:115:GLN:HE21	1.83	0.44
1:GI:54:LYS:HB3	1:GI:70:ARG:CG	2.47	0.44
1:GP:15:VAL:HG21	1:GQ:115:GLN:HE21	1.83	0.44
1:AX:95:LEU:HG	1:AX:97:VAL:HG13	1.99	0.44
1:BH:111:ASN:O	1:BH:115:GLN:HG3	2.17	0.44
1:BW:111:ASN:O	1:BW:115:GLN:HG3	2.17	0.44
1:BW:132:ALA:HB2	1:BX:28:ARG:NH1	2.30	0.44
1:BX:37:ILE:HD12	1:BX:47:LYS:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CF:114:ALA:O	1:CF:117:LEU:HD23	2.16	0.44
1:CW:95:LEU:HG	1:CW:97:VAL:HG13	1.98	0.44
1:EI:97:VAL:HG12	1:EI:109:MET:HE1	1.99	0.44
1:GS:91:VAL:HG23	1:GT:109:MET:HE2	2.00	0.44
1:GW:2:ILE:H	1:GW:2:ILE:HD12	1.83	0.44
1:AH:44:GLN:OE1	1:EW:100:GLU:HG2	2.17	0.44
1:AS:93:ILE:HD11	1:AT:113:ALA:HB1	1.99	0.44
1:AX:105:GLU:H	1:AX:105:GLU:HG3	1.63	0.44
1:BB:93:ILE:HD11	1:BC:113:ALA:HB1	1.99	0.44
1:BG:68:GLN:HB3	1:BG:97:VAL:O	2.18	0.44
1:BJ:95:LEU:HG	1:BJ:97:VAL:HG13	2.00	0.44
1:BQ:56:PRO:HG3	1:BQ:69:ALA:HB2	2.00	0.44
1:BR:29:ASN:HA	1:BR:30:ASN:HA	1.55	0.44
1:BS:44:GLN:O	1:BS:86:ARG:NH2	2.50	0.44
1:BX:66:PHE:N	1:BX:66:PHE:CD1	2.85	0.44
1:BY:54:LYS:HB3	1:BY:70:ARG:CG	2.37	0.44
1:CT:95:LEU:HD12	1:FK:91:VAL:HG22	1.99	0.44
1:CT:131:LEU:HD23	1:CT:131:LEU:HA	1.84	0.44
1:DA:11:SER:HB3	1:DB:18:GLY:HA3	2.00	0.44
1:DH:21:ARG:HG3	1:DH:39:GLU:HG2	2.00	0.44
1:DR:25:GLU:HG2	1:EB:132:ALA:HB3	2.00	0.44
1:DR:39:GLU:HG3	1:DR:41:LEU:HG	2.00	0.44
1:DU:131:LEU:HD23	1:DU:131:LEU:HA	1.87	0.44
1:DW:29:ASN:HA	1:DW:30:ASN:HA	1.64	0.44
1:EM:124:ASP:N	1:EM:124:ASP:OD1	2.51	0.44
1:EQ:100:GLU:HG2	1:GE:44:GLN:OE1	2.17	0.44
1:ER:54:LYS:HE3	1:ER:54:LYS:HB2	1.83	0.44
1:FL:115:GLN:O	1:FL:119:ASP:HB2	2.18	0.44
1:FT:131:LEU:HA	1:FT:131:LEU:HD23	1.82	0.44
1:FW:70:ARG:H	1:FW:70:ARG:HG2	1.58	0.44
1:GB:7:ILE:HD11	1:GB:122:TYR:CE2	2.52	0.44
1:GB:29:ASN:HA	1:GB:30:ASN:HA	1.64	0.44
1:GD:91:VAL:HG23	1:GE:109:MET:HE2	2.00	0.44
1:AD:15:VAL:HG21	1:AE:115:GLN:HE21	1.83	0.44
1:AF:131:LEU:HG	1:BM:53:VAL:HG13	2.00	0.44
1:AI:10:ASP:OD1	1:AI:108:THR:OG1	2.26	0.44
1:AI:95:LEU:HD12	1:BP:91:VAL:HG22	1.99	0.44
1:AP:56:PRO:HB3	1:AP:67:THR:O	2.17	0.44
1:AU:39:GLU:HG3	1:AU:41:LEU:HG	2.00	0.44
1:AY:56:PRO:HB3	1:AY:67:THR:O	2.18	0.44
1:BC:21:ARG:HG3	1:BC:39:GLU:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:39:GLU:HG3	1:BP:41:LEU:HG	2.00	0.44
1:BT:56:PRO:HB3	1:BT:67:THR:O	2.18	0.44
1:BT:100:GLU:HG2	1:EF:44:GLN:OE1	2.18	0.44
1:CX:56:PRO:HG3	1:CX:69:ALA:HB2	2.00	0.44
1:DH:44:GLN:OE1	1:FR:100:GLU:HG2	2.17	0.44
1:DK:37:ILE:HD12	1:DK:47:LYS:HB3	2.00	0.44
1:DR:95:LEU:HD12	1:FW:91:VAL:HG22	1.99	0.44
1:EL:22:THR:HG21	1:EL:24:LYS:HE3	2.00	0.44
1:EL:29:ASN:HA	1:EL:30:ASN:HA	1.54	0.44
1:ET:57:LYS:HB3	1:ET:57:LYS:HE3	1.59	0.44
1:EW:56:PRO:HG3	1:EW:69:ALA:HB2	1.99	0.44
1:EX:2:ILE:H	1:EX:2:ILE:HD12	1.83	0.44
1:FG:22:THR:HG21	1:FG:24:LYS:HE3	2.00	0.44
1:FP:33:LEU:HB3	1:FP:51:PHE:HB2	2.00	0.44
1:FU:15:VAL:HG21	1:FV:115:GLN:HE21	1.83	0.44
1:GD:116:LEU:HD23	1:GD:116:LEU:HA	1.89	0.44
1:GM:54:LYS:HB3	1:GM:70:ARG:HB2	2.00	0.44
1:GO:131:LEU:HD23	1:GO:131:LEU:HA	1.81	0.44
1:GS:131:LEU:HD23	1:GS:131:LEU:HA	1.90	0.44
1:GX:32:GLU:HG2	1:GX:51:PHE:O	2.18	0.44
1:AQ:47:LYS:HD2	1:AQ:47:LYS:HA	1.86	0.44
1:AY:100:GLU:HG2	1:FA:44:GLN:OE1	2.18	0.44
1:BF:2:ILE:H	1:BF:2:ILE:HD12	1.83	0.44
1:BL:37:ILE:HD12	1:BL:47:LYS:HB3	1.99	0.44
1:CK:129:GLN:NE2	1:FZ:71:SER:OG	2.45	0.44
1:CO:89:ASN:HB3	1:CP:109:MET:HE1	2.00	0.44
1:CQ:69:ALA:HB1	1:FH:129:GLN:HE22	1.83	0.44
1:CZ:131:LEU:HA	1:CZ:131:LEU:HD23	1.82	0.44
1:DT:29:ASN:HA	1:DT:30:ASN:HA	1.67	0.44
1:ET:15:VAL:HG21	1:EU:115:GLN:HE21	1.83	0.44
1:EX:102:THR:HG23	1:EX:105:GLU:OE2	2.18	0.44
1:FE:70:ARG:H	1:FE:70:ARG:HG2	1.62	0.44
1:FU:25:GLU:HG3	1:FU:33:LEU:HD21	2.00	0.44
1:GA:11:SER:HB3	1:GB:18:GLY:HA3	1.99	0.44
1:GA:115:GLN:O	1:GA:119:ASP:HB2	2.18	0.44
1:GI:10:ASP:OD1	1:GI:108:THR:OG1	2.27	0.44
1:GP:25:GLU:HG3	1:GP:33:LEU:HD21	2.00	0.44
1:AF:36:TYR:HA	1:AF:48:GLU:HA	2.00	0.43
1:AM:56:PRO:HB3	1:AM:67:THR:O	2.18	0.43
1:AR:33:LEU:HB2	1:EJ:131:LEU:HD22	2.00	0.43
1:AU:28:ARG:HB2	1:FD:29:ASN:ND2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:33:LEU:HB2	1:AW:131:LEU:HD22	2.00	0.43
1:AZ:2:ILE:H	1:AZ:2:ILE:HD12	1.83	0.43
1:BD:39:GLU:HG3	1:BD:41:LEU:HG	2.00	0.43
1:BL:44:GLN:OE1	1:CR:100:GLU:HG2	2.18	0.43
1:BV:21:ARG:HA	1:BV:21:ARG:HD2	1.66	0.43
1:CA:58:VAL:HG13	1:CA:66:PHE:CE1	2.53	0.43
1:CB:69:ALA:HB1	1:EY:129:GLN:HE22	1.83	0.43
1:CN:129:GLN:NE2	1:FN:69:ALA:HB1	2.33	0.43
1:CO:11:SER:HB3	1:CP:18:GLY:HA3	2.00	0.43
1:DO:95:LEU:HG	1:DO:97:VAL:HG13	1.99	0.43
1:DZ:2:ILE:H	1:DZ:2:ILE:HD12	1.83	0.43
1:EA:95:LEU:HG	1:EA:97:VAL:HG13	2.00	0.43
1:EK:117:LEU:HB2	1:EL:110:LEU:HD22	2.00	0.43
1:ER:36:TYR:HA	1:ER:48:GLU:HA	1.98	0.43
1:EY:95:LEU:HG	1:EY:97:VAL:HG13	2.00	0.43
1:FD:33:LEU:HB3	1:FD:51:PHE:HB2	2.00	0.43
1:FG:102:THR:HG23	1:FG:105:GLU:OE2	2.18	0.43
1:FH:124:ASP:OD1	1:FH:124:ASP:N	2.51	0.43
1:FI:15:VAL:HG21	1:FJ:115:GLN:HE21	1.83	0.43
1:FY:33:LEU:HB3	1:FY:51:PHE:HB2	2.00	0.43
1:AC:95:LEU:HG	1:AC:97:VAL:HG13	1.99	0.43
1:AC:131:LEU:HD22	1:BS:33:LEU:HB2	2.00	0.43
1:AG:131:LEU:HD23	1:AG:131:LEU:HA	1.90	0.43
1:AR:129:GLN:NE2	1:EJ:69:ALA:HB1	2.33	0.43
1:BK:54:LYS:HB3	1:BK:70:ARG:HB2	1.99	0.43
1:BM:21:ARG:HA	1:BM:21:ARG:HD2	1.65	0.43
1:BU:37:ILE:HD12	1:BU:47:LYS:HB3	1.99	0.43
1:BU:44:GLN:OE1	1:DG:100:GLU:HG2	2.18	0.43
1:CL:93:ILE:HD11	1:CM:113:ALA:HB1	1.99	0.43
1:CP:58:VAL:HG13	1:CP:66:PHE:CE1	2.54	0.43
1:CR:93:ILE:HD11	1:CS:113:ALA:HB1	1.99	0.43
1:CU:111:ASN:O	1:CU:115:GLN:HG3	2.17	0.43
1:CW:36:TYR:HA	1:CW:48:GLU:HA	2.00	0.43
1:CW:58:VAL:HA	1:CW:66:PHE:HB3	1.99	0.43
1:CX:93:ILE:HD11	1:CY:113:ALA:HB1	1.99	0.43
1:DD:111:ASN:O	1:DD:115:GLN:HG3	2.17	0.43
1:DF:36:TYR:HA	1:DF:48:GLU:HA	1.99	0.43
1:DI:131:LEU:HD23	1:DI:131:LEU:HA	1.84	0.43
1:DU:28:ARG:HE	1:DW:28:ARG:CD	2.31	0.43
1:DV:89:ASN:HB3	1:DW:109:MET:HE1	1.99	0.43
1:DV:131:LEU:HD23	1:DV:131:LEU:HA	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ER:33:LEU:HB3	1:ER:51:PHE:HB2	2.00	0.43
1:EX:22:THR:HG21	1:EX:24:LYS:HE3	2.00	0.43
1:EX:37:ILE:HD12	1:EX:47:LYS:HB3	2.01	0.43
1:FD:2:ILE:H	1:FD:2:ILE:HD12	1.84	0.43
1:FG:2:ILE:H	1:FG:2:ILE:HD12	1.83	0.43
1:FG:37:ILE:HD12	1:FG:47:LYS:HB3	2.01	0.43
1:FH:95:LEU:HG	1:FH:97:VAL:HG13	2.00	0.43
1:FI:25:GLU:HG3	1:FI:33:LEU:HD21	2.00	0.43
1:FK:115:GLN:HE21	1:FK:115:GLN:HB2	1.53	0.43
1:GD:59:SER:N	1:GD:65:GLY:O	2.50	0.43
1:GJ:56:PRO:HB3	1:GJ:67:THR:O	2.17	0.43
1:GN:7:ILE:HD11	1:GN:122:TYR:CE2	2.52	0.43
1:AA:72:THR:HG23	1:AA:94:GLN:HB2	2.00	0.43
1:AJ:56:PRO:HB3	1:AJ:67:THR:O	2.19	0.43
1:BI:29:ASN:HA	1:BI:30:ASN:HA	1.68	0.43
1:CH:28:ARG:HE	1:DT:28:ARG:CD	2.31	0.43
1:CK:58:VAL:HA	1:CK:66:PHE:HB3	2.01	0.43
1:CM:29:ASN:HA	1:CM:30:ASN:HA	1.55	0.43
1:CO:56:PRO:HB3	1:CO:67:THR:O	2.18	0.43
1:DM:131:LEU:HD23	1:DM:131:LEU:HA	1.87	0.43
1:DR:131:LEU:HD23	1:DR:131:LEU:HA	1.85	0.43
1:DW:58:VAL:HG13	1:DW:66:PHE:CE1	2.53	0.43
1:EB:25:GLU:HG3	1:EB:33:LEU:HD21	1.99	0.43
1:EC:33:LEU:HB3	1:EC:51:PHE:HB2	2.00	0.43
1:ED:116:LEU:HD23	1:ED:122:TYR:CE2	2.52	0.43
1:EF:66:PHE:CD2	1:EF:66:PHE:N	2.86	0.43
1:EH:109:MET:HE2	1:EI:91:VAL:HG23	2.00	0.43
1:EO:66:PHE:CD2	1:EO:66:PHE:N	2.86	0.43
1:EY:124:ASP:OD1	1:EY:124:ASP:N	2.51	0.43
1:EZ:44:GLN:OE1	1:EZ:44:GLN:HA	2.17	0.43
1:FH:68:GLN:HB3	1:FH:97:VAL:O	2.19	0.43
1:FL:56:PRO:HB3	1:FL:67:THR:O	2.18	0.43
1:FQ:70:ARG:H	1:FQ:70:ARG:HG2	1.62	0.43
1:FT:32:GLU:HG2	1:FT:51:PHE:O	2.19	0.43
1:GN:59:SER:HB3	1:GN:67:THR:HG23	2.01	0.43
1:AA:56:PRO:HB3	1:AA:67:THR:O	2.19	0.43
1:AF:58:VAL:HA	1:AF:66:PHE:HB3	1.99	0.43
1:AH:66:PHE:N	1:AH:66:PHE:CD2	2.86	0.43
1:AQ:2:ILE:H	1:AQ:2:ILE:HD12	1.83	0.43
1:BQ:93:ILE:HD11	1:BR:113:ALA:HB1	1.99	0.43
1:BT:132:ALA:HB3	1:DI:25:GLU:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BZ:11:SER:HB3	1:CA:18:GLY:HA3	2.00	0.43
1:CC:93:ILE:HD11	1:CD:113:ALA:HB1	1.99	0.43
1:CC:100:GLU:HG2	1:DQ:44:GLN:OE1	2.19	0.43
1:CK:131:LEU:HD23	1:CK:131:LEU:HA	1.86	0.43
1:CT:68:GLN:HB3	1:CT:97:VAL:O	2.19	0.43
1:CV:66:PHE:N	1:CV:66:PHE:CD2	2.86	0.43
1:DG:93:ILE:HD11	1:DH:113:ALA:HB1	1.99	0.43
1:DN:58:VAL:HG13	1:DN:66:PHE:CE1	2.53	0.43
1:DU:129:GLN:NE2	1:FQ:71:SER:OG	2.45	0.43
1:DX:95:LEU:HG	1:DX:97:VAL:HG13	2.00	0.43
1:EA:70:ARG:H	1:EA:70:ARG:HG2	1.61	0.43
1:EB:56:PRO:HB3	1:EB:67:THR:O	2.18	0.43
1:EH:11:SER:HB3	1:EI:18:GLY:HA3	2.00	0.43
1:FL:11:SER:HB3	1:FM:18:GLY:HA3	2.00	0.43
1:FM:58:VAL:HG13	1:FM:66:PHE:CE1	2.53	0.43
1:FM:59:SER:HB3	1:FM:67:THR:HG23	2.01	0.43
1:FR:56:PRO:HG3	1:FR:69:ALA:HB2	1.99	0.43
1:FV:66:PHE:N	1:FV:66:PHE:CD2	2.86	0.43
1:FZ:70:ARG:H	1:FZ:70:ARG:HG2	1.62	0.43
1:GE:37:ILE:HD12	1:GE:47:LYS:HB3	2.00	0.43
1:GI:95:LEU:HG	1:GI:97:VAL:HG13	2.01	0.43
1:GK:29:ASN:HA	1:GK:30:ASN:HA	1.60	0.43
1:GK:66:PHE:N	1:GK:66:PHE:CD2	2.87	0.43
1:GL:70:ARG:H	1:GL:70:ARG:HG2	1.61	0.43
1:GL:131:LEU:HD22	1:GU:33:LEU:HB2	1.99	0.43
1:AI:68:GLN:HB3	1:AI:97:VAL:O	2.19	0.43
1:AL:69:ALA:HB1	1:EM:129:GLN:HE22	1.83	0.43
1:AU:91:VAL:HG22	1:BD:95:LEU:HD12	1.99	0.43
1:AX:129:GLN:HE22	1:BG:69:ALA:HB1	1.82	0.43
1:AZ:44:GLN:OE1	1:BB:100:GLU:HG2	2.18	0.43
1:BH:131:LEU:HD23	1:BH:131:LEU:HA	1.90	0.43
1:BO:44:GLN:OE1	1:CL:100:GLU:HG2	2.19	0.43
1:BY:36:TYR:HA	1:BY:48:GLU:HA	1.99	0.43
1:CE:129:GLN:NE2	1:GC:69:ALA:HB1	2.33	0.43
1:CL:27:VAL:HG12	1:CL:29:ASN:HD22	1.83	0.43
1:CU:44:GLN:NE2	1:CW:66:PHE:CE2	2.87	0.43
1:DA:56:PRO:HB3	1:DA:67:THR:O	2.18	0.43
1:DU:70:ARG:NE	1:DU:96:SER:OG	2.51	0.43
1:EA:32:GLU:HG2	1:EA:51:PHE:O	2.19	0.43
1:EC:36:TYR:HA	1:EC:48:GLU:HA	1.99	0.43
1:EC:54:LYS:HE3	1:EC:54:LYS:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EM:32:GLU:HG2	1:EM:51:PHE:O	2.19	0.43
1:EP:70:ARG:H	1:EP:70:ARG:HG2	1.55	0.43
1:EQ:59:SER:N	1:EQ:65:GLY:O	2.49	0.43
1:EU:10:ASP:OD1	1:EU:108:THR:OG1	2.19	0.43
1:EV:105:GLU:H	1:EV:105:GLU:HG2	1.59	0.43
1:EY:68:GLN:HB3	1:EY:97:VAL:O	2.19	0.43
1:FM:36:TYR:HA	1:FM:48:GLU:HA	2.00	0.43
1:FZ:54:LYS:HB3	1:FZ:70:ARG:CG	2.48	0.43
1:GA:54:LYS:HB3	1:GA:70:ARG:HB2	2.00	0.43
1:GB:58:VAL:HG13	1:GB:66:PHE:CE1	2.53	0.43
1:GB:59:SER:HB3	1:GB:67:THR:HG23	2.01	0.43
1:GQ:7:ILE:HD13	1:GQ:7:ILE:HA	1.87	0.43
1:GS:59:SER:N	1:GS:65:GLY:O	2.50	0.43
1:GT:66:PHE:N	1:GT:66:PHE:CD2	2.86	0.43
1:GX:70:ARG:H	1:GX:70:ARG:HG2	1.61	0.43
1:AL:95:LEU:HG	1:AL:97:VAL:HG13	2.00	0.43
1:AM:100:GLU:HG2	1:BI:44:GLN:OE1	2.18	0.43
1:AR:68:GLN:HB3	1:AR:97:VAL:O	2.18	0.43
1:AW:36:TYR:HA	1:AW:48:GLU:HA	2.00	0.43
1:BJ:36:TYR:HA	1:BJ:48:GLU:HA	1.99	0.43
1:CG:2:ILE:H	1:CG:2:ILE:HD12	1.83	0.43
1:DB:59:SER:HB3	1:DB:67:THR:HG23	2.01	0.43
1:DD:44:GLN:NE2	1:DF:66:PHE:CE2	2.87	0.43
1:ER:2:ILE:H	1:ER:2:ILE:HD12	1.83	0.43
1:FF:56:PRO:HG3	1:FF:69:ALA:HB2	2.01	0.43
1:GL:54:LYS:HB3	1:GL:70:ARG:CG	2.48	0.43
1:GO:116:LEU:HD13	1:GX:73:VAL:HG11	2.00	0.43
1:GT:37:ILE:HD12	1:GT:47:LYS:HB3	2.00	0.43
1:GT:131:LEU:HD23	1:GT:131:LEU:HA	1.82	0.43
1:AB:58:VAL:HG13	1:AB:66:PHE:CE1	2.53	0.43
1:AQ:37:ILE:HD12	1:AQ:47:LYS:HB3	2.00	0.43
1:AV:11:SER:HB3	1:AW:18:GLY:HA3	2.00	0.43
1:AV:111:ASN:O	1:AV:115:GLN:HG3	2.17	0.43
1:AW:58:VAL:HG13	1:AW:66:PHE:CE1	2.53	0.43
1:AX:68:GLN:HB3	1:AX:97:VAL:O	2.19	0.43
1:BD:68:GLN:HB3	1:BD:97:VAL:O	2.19	0.43
1:BG:124:ASP:OD2	1:BG:124:ASP:N	2.52	0.43
1:BI:66:PHE:CD2	1:BI:66:PHE:N	2.86	0.43
1:BK:56:PRO:HB3	1:BK:67:THR:O	2.19	0.43
1:BO:29:ASN:HA	1:BO:30:ASN:HA	1.52	0.43
1:BR:37:ILE:HD12	1:BR:47:LYS:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BS:68:GLN:HB3	1:BS:97:VAL:O	2.18	0.43
1:CA:48:GLU:O	1:CA:76:LYS:HE2	2.18	0.43
1:CB:95:LEU:HG	1:CB:97:VAL:HG13	1.99	0.43
1:CB:131:LEU:HD23	1:CB:131:LEU:HA	1.81	0.43
1:CE:124:ASP:OD2	1:CE:124:ASP:N	2.52	0.43
1:CH:131:LEU:HD23	1:CH:131:LEU:HA	1.88	0.43
1:CU:116:LEU:HD23	1:CU:116:LEU:HA	1.83	0.43
1:DB:58:VAL:HG13	1:DB:66:PHE:CE1	2.53	0.43
1:DO:68:GLN:HB3	1:DO:97:VAL:O	2.18	0.43
1:DV:33:LEU:HB2	1:DW:131:LEU:HD22	2.01	0.43
1:DY:117:LEU:HB2	1:DZ:110:LEU:HD22	2.00	0.43
1:EB:59:SER:N	1:EB:65:GLY:O	2.50	0.43
1:FA:2:ILE:H	1:FA:2:ILE:HD12	1.84	0.43
1:FB:58:VAL:HA	1:FB:66:PHE:HB3	1.99	0.43
1:FK:39:GLU:HG3	1:FK:41:LEU:HG	2.00	0.43
1:FQ:54:LYS:HB3	1:FQ:70:ARG:CG	2.48	0.43
1:FT:124:ASP:N	1:FT:124:ASP:OD1	2.51	0.43
1:FW:39:GLU:HG3	1:FW:41:LEU:HG	2.00	0.43
1:GA:56:PRO:HB3	1:GA:67:THR:O	2.18	0.43
1:GE:66:PHE:CD2	1:GE:66:PHE:N	2.86	0.43
1:GF:58:VAL:HA	1:GF:66:PHE:HB3	1.99	0.43
1:GK:2:ILE:H	1:GK:2:ILE:HD12	1.84	0.43
1:GN:36:TYR:HA	1:GN:48:GLU:HA	2.00	0.43
1:GN:58:VAL:HG13	1:GN:66:PHE:CE1	2.53	0.43
1:GO:69:ALA:HB1	1:GX:129:GLN:NE2	2.34	0.43
1:GW:37:ILE:HD12	1:GW:47:LYS:HB3	2.01	0.43
1:AB:36:TYR:HA	1:AB:48:GLU:HA	2.00	0.43
1:AC:28:ARG:HE	1:AQ:28:ARG:HD3	1.84	0.43
1:AI:39:GLU:HG3	1:AI:41:LEU:HG	2.00	0.43
1:AI:131:LEU:HD23	1:AI:131:LEU:HA	1.87	0.43
1:AN:2:ILE:H	1:AN:2:ILE:HD12	1.83	0.43
1:AO:28:ARG:HE	1:BI:28:ARG:HD2	1.84	0.43
1:AR:124:ASP:OD2	1:AR:124:ASP:N	2.52	0.43
1:AV:56:PRO:HB3	1:AV:67:THR:O	2.19	0.43
1:AV:132:ALA:HB2	1:AW:28:ARG:HH12	1.84	0.43
1:AX:131:LEU:HD22	1:BG:33:LEU:HB2	2.01	0.43
1:BL:2:ILE:HD12	1:BL:2:ILE:H	1.83	0.43
1:BR:47:LYS:HD2	1:BR:47:LYS:HA	1.86	0.43
1:BU:2:ILE:H	1:BU:2:ILE:HD12	1.83	0.43
1:BV:131:LEU:HD23	1:BV:131:LEU:HA	1.86	0.43
1:CE:33:LEU:HB2	1:GC:131:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:2:ILE:H	1:CM:2:ILE:HD12	1.83	0.43
1:CN:68:GLN:HB3	1:CN:97:VAL:O	2.19	0.43
1:CO:132:ALA:HB2	1:CP:28:ARG:HH12	1.84	0.43
1:CQ:95:LEU:HG	1:CQ:97:VAL:HG13	1.99	0.43
1:CX:27:VAL:HG12	1:CX:29:ASN:HD22	1.84	0.43
1:CZ:69:ALA:HB1	1:DX:129:GLN:HE22	1.82	0.43
1:DC:68:GLN:HB3	1:DC:97:VAL:O	2.18	0.43
1:DF:116:LEU:HD13	1:ES:73:VAL:HG11	2.01	0.43
1:DK:2:ILE:H	1:DK:2:ILE:HD12	1.83	0.43
1:DM:33:LEU:HB2	1:DN:131:LEU:HD22	2.01	0.43
1:DO:8:ALA:O	1:DO:11:SER:OG	2.32	0.43
1:DR:54:LYS:HB3	1:DR:70:ARG:CG	2.37	0.43
1:DR:68:GLN:HB3	1:DR:97:VAL:O	2.19	0.43
1:DT:66:PHE:N	1:DT:66:PHE:CD2	2.86	0.43
1:DU:29:ASN:HA	1:DW:30:ASN:HB2	2.00	0.43
1:EI:36:TYR:HA	1:EI:48:GLU:HA	2.00	0.43
1:EL:47:LYS:HD2	1:EL:47:LYS:HA	1.86	0.43
1:EQ:56:PRO:HB3	1:EQ:67:THR:O	2.18	0.43
1:EU:66:PHE:CD2	1:EU:66:PHE:N	2.86	0.43
1:GR:39:GLU:HG3	1:GR:41:LEU:HG	2.00	0.43
1:GW:7:ILE:HD13	1:GW:7:ILE:HA	1.87	0.43
1:GX:131:LEU:HD23	1:GX:131:LEU:HA	1.81	0.43
1:AA:57:LYS:HB3	1:AA:57:LYS:HE3	1.59	0.43
1:AH:21:ARG:HG3	1:AH:39:GLU:HG2	2.00	0.43
1:AH:97:VAL:HG11	1:AH:106:VAL:HG22	2.01	0.43
1:AK:58:VAL:HG13	1:AK:66:PHE:CE1	2.54	0.43
1:AL:28:ARG:HE	1:BF:28:ARG:HD3	1.84	0.43
1:BA:28:ARG:HE	1:FA:28:ARG:HD2	1.84	0.43
1:BB:57:LYS:HE3	1:BB:57:LYS:HB3	1.61	0.43
1:BE:27:VAL:HG12	1:BE:29:ASN:HD22	1.83	0.43
1:BK:132:ALA:HB3	1:CT:25:GLU:HG2	2.00	0.43
1:BL:66:PHE:N	1:BL:66:PHE:CD2	2.87	0.43
1:BY:28:ARG:HE	1:EI:28:ARG:CD	2.31	0.43
1:BZ:89:ASN:HB3	1:CA:109:MET:HE1	2.00	0.43
1:CD:29:ASN:HA	1:CD:30:ASN:HA	1.55	0.43
1:CE:68:GLN:HB3	1:CE:97:VAL:O	2.19	0.43
1:CG:29:ASN:HA	1:CG:30:ASN:HA	1.60	0.43
1:CG:44:GLN:OE1	1:GG:100:GLU:HG2	2.19	0.43
1:CP:36:TYR:HA	1:CP:48:GLU:HA	2.01	0.43
1:CQ:131:LEU:HD23	1:CQ:131:LEU:HA	1.82	0.43
1:CW:116:LEU:HD13	1:ED:73:VAL:HG11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CY:2:ILE:HD12	1:CY:2:ILE:H	1.83	0.43
1:CZ:33:LEU:HB2	1:DX:131:LEU:HD22	2.01	0.43
1:DN:116:LEU:HD23	1:DN:122:TYR:CE2	2.54	0.43
1:DO:28:ARG:HE	1:DZ:28:ARG:HD3	1.84	0.43
1:DQ:97:VAL:HG11	1:DQ:106:VAL:HG22	2.01	0.43
1:DX:28:ARG:HE	1:GW:28:ARG:HD3	1.84	0.43
1:DZ:37:ILE:HD12	1:DZ:47:LYS:HB3	2.01	0.43
1:EA:68:GLN:HB3	1:EA:97:VAL:O	2.19	0.43
1:ED:28:ARG:HE	1:GT:28:ARG:CD	2.31	0.43
1:EH:59:SER:N	1:EH:65:GLY:O	2.47	0.43
1:EI:58:VAL:HG13	1:EI:66:PHE:CE1	2.53	0.43
1:EL:37:ILE:HD12	1:EL:47:LYS:HB3	2.01	0.43
1:EM:68:GLN:HB3	1:EM:97:VAL:O	2.19	0.43
1:EV:79:LYS:HD3	1:EV:81:LEU:HD23	2.01	0.43
1:FJ:21:ARG:HG3	1:FJ:39:GLU:HG2	2.00	0.43
1:FK:79:LYS:HD3	1:FK:81:LEU:HD23	2.01	0.43
1:FU:57:LYS:HE3	1:FU:57:LYS:HB3	1.60	0.43
1:FZ:29:ASN:ND2	1:FZ:32:GLU:OE1	2.52	0.43
1:GH:7:ILE:HD13	1:GH:7:ILE:HA	1.87	0.43
1:GM:15:VAL:HG21	1:GN:115:GLN:HE21	1.84	0.43
1:GO:83:ASN:HD22	1:GO:85:ASN:H	1.64	0.43
1:GU:58:VAL:HA	1:GU:66:PHE:HB3	1.99	0.43
1:GV:56:PRO:HG3	1:GV:69:ALA:HB2	1.99	0.43
1:GV:117:LEU:HB2	1:GW:110:LEU:HD22	2.01	0.43
1:AA:33:LEU:HB2	1:AB:131:LEU:HD22	2.01	0.43
1:AE:37:ILE:HD12	1:AE:47:LYS:HB3	2.00	0.43
1:AL:68:GLN:HB3	1:AL:97:VAL:O	2.18	0.43
1:AP:100:GLU:HG2	1:BC:44:GLN:OE1	2.18	0.43
1:BE:56:PRO:HG3	1:BE:69:ALA:HB2	2.00	0.43
1:BF:37:ILE:HD12	1:BF:47:LYS:HB3	2.01	0.43
1:BH:44:GLN:NE2	1:BJ:66:PHE:HE2	2.17	0.43
1:BH:44:GLN:OE1	1:BH:44:GLN:HA	2.19	0.43
1:BW:44:GLN:HA	1:BW:44:GLN:OE1	2.19	0.43
1:BW:131:LEU:HD23	1:BW:131:LEU:HA	1.89	0.43
1:BZ:56:PRO:HB3	1:BZ:67:THR:O	2.19	0.43
1:CA:29:ASN:HA	1:CA:30:ASN:HA	1.60	0.43
1:CC:56:PRO:HG3	1:CC:69:ALA:HB2	2.00	0.43
1:CF:29:ASN:OD1	1:DT:29:ASN:HB2	2.19	0.43
1:CG:66:PHE:CD2	1:CG:66:PHE:N	2.87	0.43
1:CL:44:GLN:NE2	1:CN:66:PHE:HE2	2.17	0.43
1:CS:44:GLN:OE1	1:CX:100:GLU:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CU:15:VAL:HG21	1:CV:115:GLN:HE21	1.83	0.43
1:DO:69:ALA:HB1	1:FT:129:GLN:HE22	1.83	0.43
1:DS:44:GLN:OE1	1:DS:44:GLN:HA	2.19	0.43
1:DW:116:LEU:HD23	1:DW:122:TYR:CE2	2.54	0.43
1:DY:57:LYS:HB3	1:DY:57:LYS:HE3	1.72	0.43
1:ED:54:LYS:HB3	1:ED:70:ARG:CG	2.48	0.43
1:EG:28:ARG:HE	1:FM:28:ARG:CD	2.31	0.43
1:EH:83:ASN:OD1	1:EH:83:ASN:N	2.52	0.43
1:FD:66:PHE:N	1:FD:66:PHE:CD2	2.87	0.43
1:FJ:66:PHE:N	1:FJ:66:PHE:CD2	2.86	0.43
1:FL:59:SER:N	1:FL:65:GLY:O	2.47	0.43
1:FV:21:ARG:HG3	1:FV:39:GLU:HG2	2.00	0.43
1:GA:59:SER:N	1:GA:65:GLY:O	2.47	0.43
1:GE:131:LEU:HD23	1:GE:131:LEU:HA	1.81	0.43
1:GI:53:VAL:HG13	1:GR:131:LEU:HG	2.01	0.43
1:GM:132:ALA:HB2	1:GN:28:ARG:HH12	1.83	0.43
1:AF:28:ARG:HE	1:AK:28:ARG:CD	2.31	0.42
1:AV:83:ASN:OD1	1:AV:83:ASN:N	2.52	0.42
1:AW:59:SER:HB3	1:AW:67:THR:HG23	2.01	0.42
1:AY:29:ASN:CG	1:FA:29:ASN:HB2	2.40	0.42
1:AZ:66:PHE:N	1:AZ:66:PHE:CD2	2.87	0.42
1:BI:2:ILE:HD12	1:BI:2:ILE:H	1.84	0.42
1:BU:66:PHE:N	1:BU:66:PHE:CD2	2.87	0.42
1:BY:58:VAL:HA	1:BY:66:PHE:HB3	2.01	0.42
1:BY:116:LEU:HD13	1:FE:73:VAL:HG11	2.01	0.42
1:CL:56:PRO:HG3	1:CL:69:ALA:HB2	2.00	0.42
1:CY:37:ILE:HD12	1:CY:47:LYS:HB3	2.01	0.42
1:CZ:124:ASP:OD2	1:CZ:124:ASP:N	2.52	0.42
1:DH:37:ILE:HB	1:DH:47:LYS:HB2	2.01	0.42
1:DI:39:GLU:HG3	1:DI:41:LEU:HG	2.00	0.42
1:DW:33:LEU:HD23	1:DW:34:ASN:N	2.33	0.42
1:EL:102:THR:HG23	1:EL:105:GLU:OE2	2.18	0.42
1:EN:2:ILE:HD11	1:EN:125:PHE:HB2	2.01	0.42
1:EY:32:GLU:HG2	1:EY:51:PHE:O	2.19	0.42
1:FH:32:GLU:HG2	1:FH:51:PHE:O	2.19	0.42
1:FM:97:VAL:HG12	1:FM:109:MET:HE1	2.01	0.42
1:FS:2:ILE:HD12	1:FS:2:ILE:H	1.83	0.42
1:FT:95:LEU:HG	1:FT:97:VAL:HG13	2.00	0.42
1:FW:79:LYS:HD3	1:FW:81:LEU:HD23	2.01	0.42
1:GL:131:LEU:HD23	1:GL:131:LEU:HA	1.87	0.42
1:GQ:36:TYR:HA	1:GQ:48:GLU:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:83:ASN:OD1	1:AA:83:ASN:N	2.52	0.42
1:AB:59:SER:HB3	1:AB:67:THR:HG23	2.01	0.42
1:AG:100:GLU:HG2	1:AN:44:GLN:OE1	2.18	0.42
1:AI:95:LEU:HG	1:AI:97:VAL:HG13	2.01	0.42
1:AK:59:SER:HB3	1:AK:67:THR:HG23	2.01	0.42
1:AR:95:LEU:HG	1:AR:97:VAL:HG13	2.01	0.42
1:BE:44:GLN:NE2	1:BG:66:PHE:HE2	2.18	0.42
1:BJ:58:VAL:HA	1:BJ:66:PHE:HB3	2.01	0.42
1:BO:97:VAL:HG11	1:BO:106:VAL:HG22	2.01	0.42
1:BP:113:ALA:HA	1:BP:116:LEU:HD12	2.01	0.42
1:BV:58:VAL:HA	1:BV:66:PHE:HB3	2.01	0.42
1:BW:44:GLN:NE2	1:BY:66:PHE:CE2	2.87	0.42
1:CA:28:ARG:CD	1:DF:28:ARG:HE	2.32	0.42
1:CD:2:ILE:H	1:CD:2:ILE:HD12	1.83	0.42
1:CI:44:GLN:OE1	1:CI:44:GLN:HA	2.19	0.42
1:CT:21:ARG:HD2	1:CT:21:ARG:HA	1.65	0.42
1:CT:39:GLU:HG3	1:CT:41:LEU:HG	2.00	0.42
1:CU:44:GLN:OE1	1:CU:44:GLN:HA	2.19	0.42
1:DA:33:LEU:HB2	1:DB:131:LEU:HD22	2.01	0.42
1:DD:116:LEU:HD23	1:DD:116:LEU:HA	1.83	0.42
1:DI:21:ARG:HD2	1:DI:21:ARG:HA	1.65	0.42
1:DK:66:PHE:N	1:DK:66:PHE:CD2	2.87	0.42
1:DL:32:GLU:HG2	1:DL:33:LEU:H	1.84	0.42
1:DN:48:GLU:O	1:DN:76:LYS:HE2	2.18	0.42
1:DR:95:LEU:HG	1:DR:97:VAL:HG13	2.01	0.42
1:DX:68:GLN:HB3	1:DX:97:VAL:O	2.19	0.42
1:EC:2:ILE:HD12	1:EC:2:ILE:H	1.84	0.42
1:EM:70:ARG:H	1:EM:70:ARG:HG2	1.61	0.42
1:EN:116:LEU:HD23	1:EN:116:LEU:HA	1.88	0.42
1:ES:54:LYS:HB3	1:ES:70:ARG:CG	2.48	0.42
1:FR:117:LEU:HB2	1:FS:110:LEU:HD22	2.00	0.42
1:FS:37:ILE:HD12	1:FS:47:LYS:HB3	2.00	0.42
1:FS:102:THR:HG23	1:FS:105:GLU:OE2	2.18	0.42
1:GB:33:LEU:HD23	1:GB:34:ASN:N	2.34	0.42
1:GM:56:PRO:HB3	1:GM:67:THR:O	2.18	0.42
1:GQ:37:ILE:HB	1:GQ:47:LYS:HB2	2.01	0.42
1:GW:102:THR:HG23	1:GW:105:GLU:OE2	2.18	0.42
1:GX:95:LEU:HG	1:GX:97:VAL:HG13	2.01	0.42
1:AB:116:LEU:HD23	1:AB:122:TYR:CE2	2.54	0.42
1:AD:44:GLN:NE2	1:AF:66:PHE:CE2	2.87	0.42
1:AE:29:ASN:HA	1:AE:30:ASN:HA	1.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:83:ASN:OD1	1:AJ:83:ASN:N	2.53	0.42
1:AN:66:PHE:N	1:AN:66:PHE:CD2	2.87	0.42
1:AT:44:GLN:OE1	1:BE:100:GLU:HG2	2.19	0.42
1:AZ:116:LEU:HD23	1:AZ:122:TYR:CE2	2.54	0.42
1:BA:29:ASN:HB2	1:BA:30:ASN:H	1.66	0.42
1:BG:95:LEU:HG	1:BG:97:VAL:HG13	2.02	0.42
1:BH:44:GLN:NE2	1:BJ:66:PHE:CE2	2.87	0.42
1:BN:44:GLN:OE1	1:BN:44:GLN:HA	2.20	0.42
1:BW:44:GLN:NE2	1:BY:66:PHE:HE2	2.17	0.42
1:BW:116:LEU:HA	1:BW:116:LEU:HD23	1.83	0.42
1:CB:28:ARG:HE	1:EL:28:ARG:HD3	1.84	0.42
1:CB:68:GLN:HB3	1:CB:97:VAL:O	2.18	0.42
1:CG:116:LEU:HD23	1:CG:122:TYR:CE2	2.54	0.42
1:CI:44:GLN:NE2	1:CK:66:PHE:CE2	2.87	0.42
1:CS:21:ARG:HG3	1:CS:39:GLU:HG2	2.01	0.42
1:CS:37:ILE:HB	1:CS:47:LYS:HB2	2.02	0.42
1:CT:113:ALA:HA	1:CT:116:LEU:HD12	2.00	0.42
1:DC:69:ALA:HB1	1:EA:129:GLN:HE22	1.83	0.42
1:DC:131:LEU:HD23	1:DC:131:LEU:HA	1.82	0.42
1:DD:44:GLN:NE2	1:DF:66:PHE:HE2	2.17	0.42
1:DH:66:PHE:CD2	1:DH:66:PHE:N	2.86	0.42
1:DK:33:LEU:HB3	1:DK:51:PHE:HB2	2.01	0.42
1:DM:56:PRO:HB3	1:DM:67:THR:O	2.19	0.42
1:DP:100:GLU:HG2	1:EC:44:GLN:OE1	2.19	0.42
1:DV:57:LYS:HB3	1:DV:57:LYS:HE3	1.59	0.42
1:DW:59:SER:HB3	1:DW:67:THR:HG23	2.01	0.42
1:DX:8:ALA:O	1:DX:11:SER:OG	2.32	0.42
1:DZ:102:THR:HG23	1:DZ:105:GLU:OE2	2.18	0.42
1:EG:70:ARG:H	1:EG:70:ARG:HG2	1.55	0.42
1:EH:89:ASN:HB3	1:EI:109:MET:HE1	2.00	0.42
1:EI:59:SER:HB3	1:EI:67:THR:HG23	2.01	0.42
1:EP:28:ARG:HE	1:GB:28:ARG:CD	2.31	0.42
1:EP:29:ASN:HA	1:GB:30:ASN:HB2	2.00	0.42
1:FA:37:ILE:HD12	1:FA:47:LYS:HB3	2.00	0.42
1:FE:32:GLU:HG2	1:FE:33:LEU:H	1.84	0.42
1:FF:117:LEU:HB2	1:FG:110:LEU:HD22	2.00	0.42
1:FM:30:ASN:N	1:FM:30:ASN:OD1	2.53	0.42
1:FN:28:ARG:HE	1:FS:28:ARG:HD3	1.84	0.42
1:FQ:58:VAL:HA	1:FQ:66:PHE:HB3	2.02	0.42
1:FZ:58:VAL:HA	1:FZ:66:PHE:HB3	2.02	0.42
1:GL:32:GLU:HG2	1:GL:33:LEU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GN:33:LEU:HD23	1:GN:34:ASN:N	2.34	0.42
1:AH:37:ILE:HB	1:AH:47:LYS:HB2	2.01	0.42
1:AL:131:LEU:HD22	1:EM:33:LEU:HB2	2.02	0.42
1:AQ:29:ASN:HA	1:AQ:30:ASN:HA	1.54	0.42
1:AT:97:VAL:HG11	1:AT:106:VAL:HG22	2.01	0.42
1:AU:113:ALA:HA	1:AU:116:LEU:HD12	2.01	0.42
1:AY:54:LYS:HB3	1:AY:70:ARG:HB2	2.02	0.42
1:BF:44:GLN:O	1:BF:86:ARG:NH1	2.52	0.42
1:BM:58:VAL:HA	1:BM:66:PHE:HB3	2.02	0.42
1:BQ:44:GLN:NE2	1:BS:66:PHE:HE2	2.17	0.42
1:CS:66:PHE:CD2	1:CS:66:PHE:N	2.86	0.42
1:DN:59:SER:HB3	1:DN:67:THR:HG23	2.01	0.42
1:DO:68:GLN:HB3	1:DO:97:VAL:C	2.40	0.42
1:DP:44:GLN:OE1	1:DP:44:GLN:HA	2.20	0.42
1:DV:56:PRO:HB3	1:DV:67:THR:O	2.19	0.42
1:DZ:7:ILE:HD13	1:DZ:7:ILE:HA	1.88	0.42
1:DZ:22:THR:HG21	1:DZ:24:LYS:HE3	2.00	0.42
1:EH:115:GLN:O	1:EH:119:ASP:HB2	2.18	0.42
1:EH:117:LEU:O	1:EI:110:LEU:HB3	2.20	0.42
1:EK:56:PRO:HG3	1:EK:69:ALA:HB2	2.01	0.42
1:EV:10:ASP:OD1	1:EV:108:THR:OG1	2.28	0.42
1:FO:44:GLN:NE2	1:FQ:66:PHE:HE2	2.18	0.42
1:FY:44:GLN:O	1:FY:86:ARG:NH2	2.53	0.42
1:GD:24:LYS:NZ	1:GD:38:ASP:OD2	2.50	0.42
1:GG:44:GLN:OE1	1:GG:44:GLN:HA	2.20	0.42
1:GP:44:GLN:OE1	1:GP:44:GLN:HA	2.20	0.42
1:GW:22:THR:HG21	1:GW:24:LYS:HE3	2.00	0.42
1:AB:30:ASN:HB2	1:FB:29:ASN:HA	2.01	0.42
1:AC:68:GLN:HB3	1:AC:97:VAL:O	2.19	0.42
1:AV:72:THR:HG23	1:AV:94:GLN:HB2	2.00	0.42
1:BC:97:VAL:HG11	1:BC:106:VAL:HG22	2.01	0.42
1:BF:22:THR:HG21	1:BF:24:LYS:HE3	2.01	0.42
1:BK:25:GLU:HG3	1:BK:33:LEU:HD21	2.02	0.42
1:BO:7:ILE:HD13	1:BO:7:ILE:HA	1.87	0.42
1:BR:2:ILE:H	1:BR:2:ILE:HD12	1.83	0.42
1:BT:25:GLU:HG3	1:BT:33:LEU:HD21	2.02	0.42
1:BY:129:GLN:NE2	1:FE:71:SER:OG	2.45	0.42
1:BZ:33:LEU:HB2	1:CA:131:LEU:HD22	2.01	0.42
1:CD:28:ARG:HD3	1:GO:28:ARG:HE	1.84	0.42
1:CJ:29:ASN:HA	1:CJ:30:ASN:HA	1.54	0.42
1:CQ:68:GLN:HB3	1:CQ:97:VAL:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CT:131:LEU:HG	1:FK:53:VAL:HG13	2.01	0.42
1:CW:33:LEU:HB2	1:ED:131:LEU:HD22	2.02	0.42
1:CX:24:LYS:HB2	1:CX:36:TYR:CE2	2.55	0.42
1:DB:36:TYR:HA	1:DB:48:GLU:HA	2.01	0.42
1:DD:44:GLN:HA	1:DD:44:GLN:OE1	2.19	0.42
1:DS:44:GLN:NE2	1:DU:66:PHE:CE2	2.87	0.42
1:EI:30:ASN:N	1:EI:30:ASN:OD1	2.53	0.42
1:EQ:29:ASN:OD1	1:GE:29:ASN:HB2	2.20	0.42
1:FA:66:PHE:N	1:FA:66:PHE:CD2	2.86	0.42
1:FR:27:VAL:HG12	1:FR:29:ASN:HD22	1.85	0.42
1:GC:95:LEU:HG	1:GC:97:VAL:HG13	2.01	0.42
1:GH:37:ILE:HB	1:GH:47:LYS:HB2	2.02	0.42
1:GH:66:PHE:N	1:GH:66:PHE:CD2	2.86	0.42
1:GM:58:VAL:HG22	1:GM:66:PHE:HE2	1.85	0.42
1:GM:83:ASN:OD1	1:GM:83:ASN:N	2.52	0.42
1:GQ:66:PHE:N	1:GQ:66:PHE:CD2	2.86	0.42
1:GV:57:LYS:HB3	1:GV:57:LYS:HE3	1.72	0.42
1:GX:21:ARG:HD2	1:GX:21:ARG:HA	1.78	0.42
1:AE:2:ILE:HD12	1:AE:2:ILE:H	1.85	0.42
1:AH:56:PRO:HB3	1:AH:99:PRO:HG3	2.02	0.42
1:AI:79:LYS:HD3	1:AI:81:LEU:HD23	2.02	0.42
1:AK:30:ASN:N	1:AK:30:ASN:OD1	2.53	0.42
1:AT:7:ILE:HD13	1:AT:7:ILE:HA	1.87	0.42
1:AW:116:LEU:HD23	1:AW:122:TYR:CE2	2.54	0.42
1:BK:29:ASN:OD1	1:EO:29:ASN:HB2	2.19	0.42
1:BQ:132:ALA:CB	1:BR:28:ARG:HH12	2.31	0.42
1:BS:105:GLU:H	1:BS:105:GLU:HG3	1.67	0.42
1:BU:116:LEU:HD23	1:BU:122:TYR:CE2	2.54	0.42
1:CA:59:SER:HB3	1:CA:67:THR:HG23	2.01	0.42
1:CB:68:GLN:HB3	1:CB:97:VAL:C	2.40	0.42
1:CD:37:ILE:HD12	1:CD:47:LYS:HB3	2.01	0.42
1:CH:58:VAL:HA	1:CH:66:PHE:HB3	2.01	0.42
1:CJ:2:ILE:H	1:CJ:2:ILE:HD12	1.85	0.42
1:CM:28:ARG:HD3	1:DC:28:ARG:HE	1.84	0.42
1:CP:59:SER:HB3	1:CP:67:THR:HG23	2.01	0.42
1:CQ:131:LEU:HD22	1:FH:33:LEU:HB2	2.02	0.42
1:CR:44:GLN:OE1	1:CR:44:GLN:HA	2.20	0.42
1:CV:37:ILE:HD12	1:CV:47:LYS:HB3	2.00	0.42
1:CY:28:ARG:HD3	1:GC:28:ARG:HE	1.84	0.42
1:CZ:95:LEU:HG	1:CZ:97:VAL:HG13	2.02	0.42
1:DA:132:ALA:HB2	1:DB:28:ARG:HH12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:54:LYS:HB3	1:DJ:70:ARG:HB2	2.02	0.42
1:DM:83:ASN:OD1	1:DM:83:ASN:N	2.52	0.42
1:EC:66:PHE:CD2	1:EC:66:PHE:N	2.87	0.42
1:EK:24:LYS:HB2	1:EK:36:TYR:CE2	2.55	0.42
1:EK:100:GLU:HG2	1:FJ:44:GLN:OE1	2.20	0.42
1:EQ:44:GLN:NE2	1:ES:66:PHE:HE2	2.18	0.42
1:ER:66:PHE:CD2	1:ER:66:PHE:N	2.87	0.42
1:EW:117:LEU:HB2	1:EX:110:LEU:HD22	2.01	0.42
1:FA:29:ASN:HA	1:FA:30:ASN:HA	1.67	0.42
1:FF:79:LYS:HE2	1:FG:101:THR:HA	2.02	0.42
1:FI:44:GLN:OE1	1:FI:44:GLN:HA	2.20	0.42
1:FU:54:LYS:HB3	1:FU:70:ARG:HB2	2.02	0.42
1:FV:37:ILE:HB	1:FV:47:LYS:HB2	2.02	0.42
1:FX:44:GLN:NE2	1:FZ:66:PHE:HE2	2.18	0.42
1:GB:2:ILE:H	1:GB:2:ILE:HD12	1.84	0.42
1:GE:2:ILE:H	1:GE:2:ILE:HD12	1.84	0.42
1:GO:131:LEU:HG	1:GX:53:VAL:HG13	2.00	0.42
1:AA:132:ALA:HB2	1:AB:28:ARG:HH12	1.84	0.42
1:AE:66:PHE:CD2	1:AE:66:PHE:N	2.86	0.42
1:AF:124:ASP:N	1:AF:124:ASP:OD2	2.52	0.42
1:AG:44:GLN:HA	1:AG:44:GLN:OE1	2.20	0.42
1:AJ:57:LYS:HB3	1:AJ:57:LYS:HE3	1.59	0.42
1:AK:116:LEU:HD23	1:AK:122:TYR:CE2	2.54	0.42
1:AM:29:ASN:CG	1:BI:29:ASN:HB2	2.40	0.42
1:AP:56:PRO:HG3	1:AP:69:ALA:HB2	2.01	0.42
1:AQ:44:GLN:O	1:AQ:86:ARG:NH1	2.52	0.42
1:AQ:66:PHE:N	1:AQ:66:PHE:CD1	2.88	0.42
1:AV:59:SER:N	1:AV:65:GLY:O	2.48	0.42
1:BC:56:PRO:HB3	1:BC:99:PRO:HG3	2.01	0.42
1:BF:66:PHE:N	1:BF:66:PHE:CD1	2.88	0.42
1:BG:8:ALA:O	1:BG:11:SER:OG	2.28	0.42
1:BL:33:LEU:HB3	1:BL:51:PHE:HB2	2.01	0.42
1:BO:56:PRO:HB3	1:BO:99:PRO:HG3	2.02	0.42
1:BV:28:ARG:HE	1:EF:28:ARG:HD2	1.84	0.42
1:BX:131:LEU:HD23	1:BX:131:LEU:HA	1.81	0.42
1:BY:124:ASP:OD1	1:BY:124:ASP:N	2.53	0.42
1:CC:44:GLN:NE2	1:CE:66:PHE:HE2	2.18	0.42
1:CM:37:ILE:HD12	1:CM:47:LYS:HB3	2.01	0.42
1:CN:95:LEU:HG	1:CN:97:VAL:HG13	2.01	0.42
1:CT:95:LEU:HG	1:CT:97:VAL:HG13	2.01	0.42
1:CX:44:GLN:NE2	1:CZ:66:PHE:HE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CY:29:ASN:HA	1:CY:30:ASN:HA	1.55	0.42
1:DI:68:GLN:HB3	1:DI:97:VAL:O	2.20	0.42
1:DJ:44:GLN:NE2	1:DL:66:PHE:HE2	2.17	0.42
1:DK:44:GLN:OE1	1:FU:100:GLU:HG2	2.19	0.42
1:DQ:56:PRO:HB3	1:DQ:99:PRO:HG3	2.02	0.42
1:DT:2:ILE:H	1:DT:2:ILE:HD12	1.85	0.42
1:DV:11:SER:HB3	1:DW:18:GLY:HA3	2.00	0.42
1:DV:72:THR:HG23	1:DV:94:GLN:HB2	2.00	0.42
1:DV:83:ASN:OD1	1:DV:83:ASN:N	2.53	0.42
1:EA:131:LEU:HD23	1:EA:131:LEU:HA	1.82	0.42
1:EB:44:GLN:NE2	1:ED:66:PHE:HE2	2.18	0.42
1:EG:124:ASP:N	1:EG:124:ASP:OD2	2.52	0.42
1:EL:2:ILE:HD12	1:EL:2:ILE:H	1.83	0.42
1:EO:37:ILE:HD12	1:EO:47:LYS:HB3	2.00	0.42
1:EV:95:LEU:HG	1:EV:97:VAL:HG13	2.01	0.42
1:EW:79:LYS:HE2	1:EX:101:THR:HA	2.02	0.42
1:FG:66:PHE:N	1:FG:66:PHE:CD1	2.88	0.42
1:FU:44:GLN:OE1	1:FU:44:GLN:HA	2.20	0.42
1:GN:30:ASN:HB2	1:GU:29:ASN:HA	2.01	0.42
1:GT:2:ILE:H	1:GT:2:ILE:HD12	1.84	0.42
1:GW:10:ASP:OD1	1:GW:108:THR:OG1	2.25	0.42
1:AM:54:LYS:HB3	1:AM:70:ARG:HB2	2.02	0.42
1:AN:115:GLN:HE21	1:AN:115:GLN:HB2	1.61	0.42
1:AQ:22:THR:HG21	1:AQ:24:LYS:HE3	2.01	0.42
1:AT:21:ARG:HG3	1:AT:39:GLU:HG2	2.01	0.42
1:AU:117:LEU:O	1:BD:110:LEU:HB3	2.20	0.42
1:BL:116:LEU:HD23	1:BL:122:TYR:CE2	2.54	0.42
1:CB:8:ALA:O	1:CB:11:SER:OG	2.32	0.42
1:CF:44:GLN:NE2	1:CH:66:PHE:HE2	2.18	0.42
1:CK:105:GLU:H	1:CK:105:GLU:HG3	1.63	0.42
1:CO:33:LEU:HB2	1:CP:131:LEU:HD22	2.01	0.42
1:DA:83:ASN:OD1	1:DA:83:ASN:N	2.53	0.42
1:DB:116:LEU:HD23	1:DB:122:TYR:CE2	2.55	0.42
1:DC:8:ALA:O	1:DC:11:SER:OG	2.32	0.42
1:DC:68:GLN:HB3	1:DC:97:VAL:C	2.40	0.42
1:DE:29:ASN:HA	1:DE:30:ASN:HA	1.54	0.42
1:DE:37:ILE:HD12	1:DE:47:LYS:HB3	2.00	0.42
1:DG:44:GLN:HA	1:DG:44:GLN:OE1	2.20	0.42
1:DU:98:ASP:O	1:DU:101:THR:OG1	2.24	0.42
1:DW:30:ASN:OD1	1:DW:30:ASN:N	2.53	0.42
1:DX:68:GLN:HB3	1:DX:97:VAL:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ER:44:GLN:O	1:ER:86:ARG:NH2	2.53	0.42
1:ET:44:GLN:HA	1:ET:44:GLN:OE1	2.20	0.42
1:ET:56:PRO:HB3	1:ET:67:THR:O	2.20	0.42
1:EU:56:PRO:HB3	1:EU:99:PRO:HG3	2.02	0.42
1:EU:97:VAL:HG11	1:EU:106:VAL:HG22	2.02	0.42
1:EX:44:GLN:O	1:EX:86:ARG:NH1	2.53	0.42
1:EX:66:PHE:N	1:EX:66:PHE:CD1	2.88	0.42
1:FB:8:ALA:O	1:FB:11:SER:OG	2.31	0.42
1:FD:7:ILE:HD13	1:FD:7:ILE:HA	1.90	0.42
1:FP:44:GLN:O	1:FP:86:ARG:NH2	2.53	0.42
1:FP:66:PHE:N	1:FP:66:PHE:CD2	2.87	0.42
1:FV:70:ARG:NH1	1:FV:96:SER:OG	2.53	0.42
1:FW:131:LEU:HD23	1:FW:131:LEU:HA	1.87	0.42
1:GA:15:VAL:HG21	1:GB:115:GLN:HE21	1.84	0.42
1:GA:83:ASN:N	1:GA:83:ASN:OD1	2.52	0.42
1:GB:30:ASN:N	1:GB:30:ASN:OD1	2.53	0.42
1:AK:36:TYR:HA	1:AK:48:GLU:HA	2.01	0.42
1:AM:44:GLN:NE2	1:AO:66:PHE:HE2	2.18	0.42
1:AO:33:LEU:HB2	1:EG:131:LEU:HD22	2.01	0.42
1:BA:58:VAL:HA	1:BA:66:PHE:HB3	2.01	0.42
1:BJ:32:GLU:HG2	1:BJ:51:PHE:O	2.20	0.42
1:BR:28:ARG:HD3	1:CQ:28:ARG:HE	1.84	0.42
1:BZ:83:ASN:OD1	1:BZ:83:ASN:N	2.52	0.42
1:CH:33:LEU:HB2	1:GF:131:LEU:HD22	2.01	0.42
1:CK:124:ASP:OD1	1:CK:124:ASP:N	2.53	0.42
1:CN:33:LEU:HB2	1:FN:131:LEU:HD22	2.01	0.42
1:CO:83:ASN:OD1	1:CO:83:ASN:N	2.53	0.42
1:CP:2:ILE:H	1:CP:2:ILE:HD12	1.85	0.42
1:CQ:8:ALA:O	1:CQ:11:SER:OG	2.32	0.42
1:CQ:68:GLN:HB3	1:CQ:97:VAL:C	2.40	0.42
1:DK:36:TYR:HA	1:DK:48:GLU:HA	2.02	0.42
1:DM:11:SER:HB3	1:DN:18:GLY:HA3	2.00	0.42
1:DY:56:PRO:HG3	1:DY:69:ALA:HB2	2.01	0.42
1:EF:37:ILE:HD12	1:EF:47:LYS:HB3	2.00	0.42
1:EP:124:ASP:N	1:EP:124:ASP:OD2	2.53	0.42
1:FB:124:ASP:OD2	1:FB:124:ASP:N	2.52	0.42
1:FE:58:VAL:HA	1:FE:66:PHE:HB3	2.02	0.42
1:FI:56:PRO:HB3	1:FI:67:THR:O	2.20	0.42
1:FS:29:ASN:HA	1:FS:30:ASN:HA	1.54	0.42
1:GN:2:ILE:H	1:GN:2:ILE:HD12	1.85	0.42
1:GO:117:LEU:O	1:GX:110:LEU:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GP:56:PRO:HB3	1:GP:67:THR:O	2.20	0.42
1:AU:68:GLN:HB3	1:AU:97:VAL:O	2.20	0.42
1:BH:116:LEU:HD23	1:BH:116:LEU:HA	1.83	0.42
1:BP:95:LEU:HG	1:BP:97:VAL:HG13	2.02	0.42
1:BP:131:LEU:HD23	1:BP:131:LEU:HA	1.87	0.42
1:CB:131:LEU:HD22	1:EY:33:LEU:HB2	2.02	0.42
1:CE:95:LEU:HG	1:CE:97:VAL:HG13	2.01	0.42
1:CH:124:ASP:N	1:CH:124:ASP:OD2	2.53	0.42
1:CS:97:VAL:HG11	1:CS:106:VAL:HG22	2.01	0.42
1:CW:124:ASP:N	1:CW:124:ASP:OD1	2.53	0.42
1:DF:58:VAL:HA	1:DF:66:PHE:HB3	2.01	0.42
1:DL:33:LEU:HB2	1:EP:131:LEU:HD22	2.01	0.42
1:EE:56:PRO:HB3	1:EE:67:THR:O	2.20	0.42
1:EK:59:SER:N	1:EK:65:GLY:O	2.49	0.42
1:FD:44:GLN:O	1:FD:86:ARG:NH2	2.53	0.42
1:FJ:37:ILE:HB	1:FJ:47:LYS:HB2	2.01	0.42
1:FL:15:VAL:HG21	1:FM:115:GLN:HE21	1.84	0.42
1:FL:83:ASN:OD1	1:FL:83:ASN:N	2.52	0.42
1:FM:2:ILE:H	1:FM:2:ILE:HD12	1.85	0.42
1:FQ:29:ASN:ND2	1:FQ:32:GLU:OE1	2.53	0.42
1:FT:68:GLN:HB3	1:FT:97:VAL:O	2.19	0.42
1:FY:66:PHE:N	1:FY:66:PHE:CD2	2.87	0.42
1:GA:58:VAL:HG22	1:GA:66:PHE:HE2	1.85	0.42
1:GA:89:ASN:HB3	1:GB:109:MET:HE1	2.01	0.42
1:GH:21:ARG:HG3	1:GH:39:GLU:HG2	2.02	0.42
1:GI:39:GLU:HG3	1:GI:41:LEU:HG	2.01	0.42
1:GL:58:VAL:HA	1:GL:66:PHE:HB3	2.02	0.42
1:GO:95:LEU:HG	1:GO:97:VAL:HG13	2.02	0.42
1:GP:111:ASN:O	1:GP:115:GLN:HG3	2.20	0.42
1:AA:11:SER:HB3	1:AB:18:GLY:HA3	2.00	0.41
1:AB:2:ILE:HD12	1:AB:2:ILE:H	1.84	0.41
1:AI:110:LEU:HB3	1:BP:117:LEU:O	2.20	0.41
1:AJ:89:ASN:HB3	1:AK:109:MET:HE1	2.01	0.41
1:AO:58:VAL:HA	1:AO:66:PHE:HB3	2.01	0.41
1:AX:68:GLN:HB3	1:AX:97:VAL:C	2.40	0.41
1:AX:132:ALA:O	1:BE:25:GLU:HG2	2.20	0.41
1:BD:95:LEU:HG	1:BD:97:VAL:HG13	2.01	0.41
1:BE:109:MET:HE2	1:BF:91:VAL:HG23	2.01	0.41
1:BG:29:ASN:HB2	1:BG:30:ASN:H	1.66	0.41
1:CA:2:ILE:H	1:CA:2:ILE:HD12	1.85	0.41
1:CK:32:GLU:HG2	1:CK:51:PHE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:66:PHE:N	1:CM:66:PHE:CD1	2.88	0.41
1:CN:117:LEU:O	1:FN:110:LEU:HB3	2.20	0.41
1:CT:110:LEU:HB3	1:FK:117:LEU:O	2.20	0.41
1:CU:44:GLN:NE2	1:CW:66:PHE:HE2	2.18	0.41
1:CU:131:LEU:HD23	1:CU:131:LEU:HA	1.89	0.41
1:CW:131:LEU:HA	1:CW:131:LEU:HD23	1.86	0.41
1:DF:131:LEU:HA	1:DF:131:LEU:HD23	1.87	0.41
1:DH:37:ILE:HD12	1:DH:47:LYS:HB3	2.02	0.41
1:DN:29:ASN:HA	1:DN:30:ASN:HA	1.67	0.41
1:DR:131:LEU:HG	1:FW:53:VAL:HG13	2.01	0.41
1:DY:100:GLU:HG2	1:GQ:44:GLN:OE1	2.20	0.41
1:EC:44:GLN:O	1:EC:86:ARG:NH2	2.53	0.41
1:EE:116:LEU:HD23	1:EE:116:LEU:HA	1.89	0.41
1:EK:132:ALA:CB	1:EL:28:ARG:HH12	2.31	0.41
1:EM:95:LEU:HG	1:EM:97:VAL:HG13	2.00	0.41
1:EN:56:PRO:HB3	1:EN:67:THR:O	2.20	0.41
1:ET:54:LYS:HB3	1:ET:70:ARG:HB2	2.02	0.41
1:FI:54:LYS:HB3	1:FI:70:ARG:HB2	2.02	0.41
1:FL:117:LEU:O	1:FM:110:LEU:HB3	2.20	0.41
1:FP:2:ILE:HD12	1:FP:2:ILE:H	1.84	0.41
1:FR:24:LYS:HB2	1:FR:36:TYR:CE2	2.55	0.41
1:GA:117:LEU:O	1:GB:110:LEU:HB3	2.20	0.41
1:GG:111:ASN:O	1:GG:115:GLN:HG3	2.20	0.41
1:GH:36:TYR:HA	1:GH:48:GLU:HA	2.02	0.41
1:GH:97:VAL:HG11	1:GH:106:VAL:HG22	2.02	0.41
1:GI:131:LEU:HG	1:GR:53:VAL:HG13	2.02	0.41
1:GJ:44:GLN:NE2	1:GL:66:PHE:HE2	2.18	0.41
1:GK:44:GLN:O	1:GK:86:ARG:NH2	2.53	0.41
1:GM:117:LEU:O	1:GN:110:LEU:HB3	2.20	0.41
1:AD:44:GLN:OE1	1:AD:44:GLN:HA	2.19	0.41
1:AJ:11:SER:HB3	1:AK:18:GLY:HA3	2.00	0.41
1:AU:33:LEU:HB2	1:BD:131:LEU:HD22	2.02	0.41
1:BC:7:ILE:HD13	1:BC:7:ILE:HA	1.87	0.41
1:BJ:56:PRO:HB3	1:BJ:67:THR:O	2.20	0.41
1:BO:37:ILE:HB	1:BO:47:LYS:HB2	2.02	0.41
1:BP:28:ARG:HB2	1:ER:29:ASN:ND2	2.32	0.41
1:BP:68:GLN:HB3	1:BP:97:VAL:O	2.20	0.41
1:BR:66:PHE:N	1:BR:66:PHE:CD1	2.88	0.41
1:BT:29:ASN:CG	1:EF:29:ASN:HB2	2.40	0.41
1:BX:2:ILE:H	1:BX:2:ILE:HD12	1.85	0.41
1:CA:116:LEU:HD23	1:CA:122:TYR:CE2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:22:THR:HG22	1:CL:24:LYS:HD2	2.02	0.41
1:CP:30:ASN:HB2	1:CW:29:ASN:HA	2.02	0.41
1:CY:66:PHE:N	1:CY:66:PHE:CD1	2.88	0.41
1:DB:2:ILE:H	1:DB:2:ILE:HD12	1.85	0.41
1:DQ:37:ILE:HB	1:DQ:47:LYS:HB2	2.02	0.41
1:DU:32:GLU:HG2	1:DU:51:PHE:O	2.20	0.41
1:DU:95:LEU:HG	1:DU:97:VAL:HG13	2.02	0.41
1:DW:2:ILE:H	1:DW:2:ILE:HD12	1.85	0.41
1:EA:124:ASP:N	1:EA:124:ASP:OD1	2.51	0.41
1:EJ:95:LEU:HG	1:EJ:97:VAL:HG13	2.01	0.41
1:EK:79:LYS:HE2	1:EL:101:THR:HA	2.02	0.41
1:EN:131:LEU:HD23	1:EN:131:LEU:HA	1.90	0.41
1:EV:39:GLU:HG3	1:EV:41:LEU:HG	2.01	0.41
1:FA:131:LEU:HA	1:FA:131:LEU:HD23	1.82	0.41
1:FE:95:LEU:HG	1:FE:97:VAL:HG13	2.02	0.41
1:FF:100:GLU:HG2	1:FV:44:GLN:OE1	2.20	0.41
1:FJ:70:ARG:NH1	1:FJ:96:SER:OG	2.53	0.41
1:FR:79:LYS:HE2	1:FS:101:THR:HA	2.02	0.41
1:FV:29:ASN:HA	1:FV:30:ASN:HA	1.64	0.41
1:FY:7:ILE:HD13	1:FY:7:ILE:HA	1.90	0.41
1:GH:56:PRO:HB3	1:GH:99:PRO:HG3	2.02	0.41
1:AA:85:ASN:OD1	1:AA:85:ASN:N	2.54	0.41
1:AH:37:ILE:HD12	1:AH:47:LYS:HB3	2.02	0.41
1:AJ:85:ASN:OD1	1:AJ:85:ASN:N	2.54	0.41
1:AK:2:ILE:H	1:AK:2:ILE:HD12	1.85	0.41
1:AP:24:LYS:HB2	1:AP:36:TYR:CE2	2.55	0.41
1:AP:44:GLN:NE2	1:AR:66:PHE:HE2	2.19	0.41
1:AT:37:ILE:HB	1:AT:47:LYS:HB2	2.02	0.41
1:AT:56:PRO:HB3	1:AT:99:PRO:HG3	2.02	0.41
1:AW:2:ILE:H	1:AW:2:ILE:HD12	1.84	0.41
1:BC:36:TYR:HA	1:BC:48:GLU:HA	2.02	0.41
1:BQ:59:SER:N	1:BQ:65:GLY:O	2.49	0.41
1:BZ:85:ASN:N	1:BZ:85:ASN:OD1	2.54	0.41
1:CO:85:ASN:OD1	1:CO:85:ASN:N	2.54	0.41
1:CS:37:ILE:HD12	1:CS:47:LYS:HB3	2.03	0.41
1:CT:33:LEU:HB2	1:FK:131:LEU:HD22	2.03	0.41
1:CX:132:ALA:CB	1:CY:28:ARG:HH12	2.31	0.41
1:DB:30:ASN:HB2	1:GF:29:ASN:HA	2.01	0.41
1:DN:2:ILE:H	1:DN:2:ILE:HD12	1.85	0.41
1:DN:30:ASN:OD1	1:DN:30:ASN:N	2.53	0.41
1:DR:110:LEU:HB3	1:FW:117:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DY:24:LYS:HB2	1:DY:36:TYR:CE2	2.55	0.41
1:EL:66:PHE:N	1:EL:66:PHE:CD1	2.88	0.41
1:ES:28:ARG:HE	1:GE:28:ARG:CD	2.32	0.41
1:FG:44:GLN:O	1:FG:86:ARG:NH1	2.53	0.41
1:FQ:21:ARG:HA	1:FQ:21:ARG:HD2	1.66	0.41
1:FQ:32:GLU:HG2	1:FQ:33:LEU:H	1.84	0.41
1:FY:2:ILE:H	1:FY:2:ILE:HD12	1.84	0.41
1:FZ:32:GLU:HG2	1:FZ:33:LEU:H	1.85	0.41
1:FZ:95:LEU:HG	1:FZ:97:VAL:HG13	2.02	0.41
1:GH:39:GLU:OE1	1:GH:47:LYS:HG2	2.21	0.41
1:GS:56:PRO:HB3	1:GS:67:THR:O	2.20	0.41
1:GU:124:ASP:N	1:GU:124:ASP:OD1	2.51	0.41
1:GW:44:GLN:O	1:GW:86:ARG:NH1	2.53	0.41
1:AI:113:ALA:HA	1:AI:116:LEU:HD12	2.03	0.41
1:AS:44:GLN:OE1	1:AS:44:GLN:HA	2.20	0.41
1:AX:28:ARG:HE	1:EX:28:ARG:HD3	1.84	0.41
1:BF:29:ASN:HA	1:BF:30:ASN:HA	1.54	0.41
1:BH:24:LYS:HB2	1:BH:36:TYR:CE2	2.56	0.41
1:BS:124:ASP:N	1:BS:124:ASP:OD2	2.52	0.41
1:BV:33:LEU:HB2	1:FB:131:LEU:HD22	2.01	0.41
1:BW:24:LYS:HB2	1:BW:36:TYR:CE2	2.56	0.41
1:CD:66:PHE:N	1:CD:66:PHE:CD1	2.88	0.41
1:CG:36:TYR:HA	1:CG:48:GLU:HA	2.03	0.41
1:DH:97:VAL:HG11	1:DH:106:VAL:HG22	2.01	0.41
1:DI:33:LEU:HB2	1:EV:131:LEU:HD22	2.03	0.41
1:DI:131:LEU:HG	1:EV:53:VAL:HG13	2.02	0.41
1:DK:116:LEU:HD23	1:DK:122:TYR:CE2	2.54	0.41
1:DO:131:LEU:HD22	1:FT:33:LEU:HB2	2.02	0.41
1:DU:124:ASP:OD2	1:DU:124:ASP:N	2.53	0.41
1:EE:131:LEU:HD23	1:EE:131:LEU:HA	1.90	0.41
1:EF:2:ILE:HD12	1:EF:2:ILE:H	1.85	0.41
1:EM:43:PHE:HE2	1:FJ:56:PRO:HG2	1.86	0.41
1:FF:24:LYS:HB2	1:FF:36:TYR:CE2	2.55	0.41
1:FJ:56:PRO:HB3	1:FJ:99:PRO:HG3	2.03	0.41
1:FN:95:LEU:HG	1:FN:97:VAL:HG13	2.02	0.41
1:FQ:95:LEU:HG	1:FQ:97:VAL:HG13	2.02	0.41
1:FV:36:TYR:HA	1:FV:48:GLU:HA	2.01	0.41
1:GD:56:PRO:HB3	1:GD:67:THR:O	2.20	0.41
1:GH:56:PRO:HG2	1:GX:43:PHE:HE2	1.85	0.41
1:GL:95:LEU:HG	1:GL:97:VAL:HG13	2.01	0.41
1:GQ:70:ARG:NH1	1:GQ:96:SER:OG	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GT:29:ASN:HA	1:GT:30:ASN:HA	1.68	0.41
1:GX:124:ASP:N	1:GX:124:ASP:OD1	2.52	0.41
1:AC:68:GLN:HB3	1:AC:97:VAL:C	2.40	0.41
1:AE:28:ARG:CD	1:FE:28:ARG:HE	2.34	0.41
1:AJ:33:LEU:HB2	1:AK:131:LEU:HD22	2.02	0.41
1:AN:7:ILE:HD13	1:AN:7:ILE:HA	1.90	0.41
1:AN:36:TYR:HA	1:AN:48:GLU:HA	2.03	0.41
1:AN:116:LEU:HD23	1:AN:122:TYR:CE2	2.54	0.41
1:AX:64:GLY:HA2	1:BG:83:ASN:ND2	2.35	0.41
1:BA:33:LEU:HB2	1:BJ:131:LEU:HD22	2.03	0.41
1:BC:37:ILE:HB	1:BC:47:LYS:HB2	2.01	0.41
1:BJ:124:ASP:N	1:BJ:124:ASP:OD1	2.54	0.41
1:BO:21:ARG:HG3	1:BO:39:GLU:HG2	2.01	0.41
1:CD:7:ILE:HD13	1:CD:7:ILE:HA	1.86	0.41
1:CF:25:GLU:HG3	1:CF:33:LEU:HD21	2.02	0.41
1:CW:32:GLU:HG2	1:CW:51:PHE:O	2.20	0.41
1:DD:131:LEU:HD23	1:DD:131:LEU:HA	1.89	0.41
1:DF:124:ASP:OD1	1:DF:124:ASP:N	2.53	0.41
1:DG:57:LYS:HB3	1:DG:57:LYS:HE3	1.61	0.41
1:DP:57:LYS:HE3	1:DP:57:LYS:HB3	1.61	0.41
1:DR:116:LEU:O	1:DR:117:LEU:HD23	2.21	0.41
1:DS:25:GLU:HG2	1:FQ:132:ALA:O	2.21	0.41
1:DY:70:ARG:NE	1:DY:94:GLN:OE1	2.54	0.41
1:DZ:44:GLN:O	1:DZ:86:ARG:NH1	2.53	0.41
1:ED:29:ASN:HB2	1:ED:30:ASN:H	1.66	0.41
1:EJ:28:ARG:HE	1:FG:28:ARG:HD3	1.84	0.41
1:EJ:105:GLU:H	1:EJ:105:GLU:HG3	1.64	0.41
1:ES:58:VAL:HA	1:ES:66:PHE:HB3	2.02	0.41
1:FF:70:ARG:NE	1:FF:94:GLN:OE1	2.54	0.41
1:FS:44:GLN:O	1:FS:86:ARG:NH1	2.53	0.41
1:GG:56:PRO:HB3	1:GG:67:THR:O	2.21	0.41
1:GH:44:GLN:OE1	1:GV:100:GLU:HG2	2.20	0.41
1:GS:2:ILE:HD11	1:GS:125:PHE:HB2	2.02	0.41
1:GS:24:LYS:NZ	1:GS:38:ASP:OD1	2.51	0.41
1:GU:29:ASN:HB2	1:GU:30:ASN:H	1.64	0.41
1:AC:117:LEU:O	1:BS:110:LEU:HB3	2.21	0.41
1:AF:56:PRO:HB3	1:AF:67:THR:O	2.20	0.41
1:AI:33:LEU:HB2	1:BP:131:LEU:HD22	2.02	0.41
1:AJ:72:THR:HG23	1:AJ:94:GLN:HB2	2.03	0.41
1:AL:68:GLN:HB3	1:AL:97:VAL:C	2.40	0.41
1:AO:28:ARG:HE	1:BI:28:ARG:CD	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:131:LEU:HD22	1:BD:33:LEU:HB2	2.03	0.41
1:BB:44:GLN:OE1	1:BB:44:GLN:HA	2.20	0.41
1:BK:44:GLN:NE2	1:BM:66:PHE:HE2	2.18	0.41
1:BM:124:ASP:OD2	1:BM:124:ASP:N	2.53	0.41
1:BP:79:LYS:HD3	1:BP:81:LEU:HD23	2.02	0.41
1:BT:44:GLN:NE2	1:BV:66:PHE:HE2	2.18	0.41
1:BU:115:GLN:HE21	1:BU:115:GLN:HB2	1.61	0.41
1:BV:124:ASP:OD2	1:BV:124:ASP:N	2.53	0.41
1:CO:58:VAL:HG22	1:CO:66:PHE:CE1	2.56	0.41
1:CO:116:LEU:HD23	1:CO:116:LEU:HA	1.94	0.41
1:CP:116:LEU:HD23	1:CP:122:TYR:CE2	2.55	0.41
1:CW:83:ASN:ND2	1:CW:85:ASN:H	2.18	0.41
1:CZ:83:ASN:ND2	1:DX:64:GLY:HA2	2.35	0.41
1:CZ:110:LEU:HB3	1:DX:117:LEU:O	2.21	0.41
1:DI:117:LEU:O	1:EV:110:LEU:HB3	2.21	0.41
1:DK:115:GLN:HE21	1:DK:115:GLN:HB2	1.61	0.41
1:DL:32:GLU:HG2	1:DL:51:PHE:O	2.20	0.41
1:DU:116:LEU:HD13	1:FQ:73:VAL:HG11	2.01	0.41
1:ED:58:VAL:HA	1:ED:66:PHE:HB3	2.02	0.41
1:FG:7:ILE:HD13	1:FG:7:ILE:HA	1.88	0.41
1:FG:36:TYR:HA	1:FG:48:GLU:HA	2.02	0.41
1:FU:56:PRO:HB3	1:FU:67:THR:O	2.21	0.41
1:FU:111:ASN:O	1:FU:115:GLN:HG3	2.20	0.41
1:FV:56:PRO:HB3	1:FV:99:PRO:HG3	2.03	0.41
1:GD:2:ILE:HD11	1:GD:125:PHE:HB2	2.02	0.41
1:GM:72:THR:HG23	1:GM:94:GLN:HB2	2.03	0.41
1:GQ:56:PRO:HB3	1:GQ:99:PRO:HG3	2.03	0.41
1:GV:44:GLN:NE2	1:GX:66:PHE:HE2	2.19	0.41
1:AD:24:LYS:HB2	1:AD:36:TYR:CE2	2.56	0.41
1:AF:32:GLU:HG2	1:AF:51:PHE:O	2.21	0.41
1:AS:56:PRO:HB3	1:AS:67:THR:O	2.21	0.41
1:AU:95:LEU:HG	1:AU:97:VAL:HG13	2.02	0.41
1:AZ:7:ILE:HD13	1:AZ:7:ILE:HA	1.90	0.41
1:BB:25:GLU:HG3	1:BB:33:LEU:HD21	2.03	0.41
1:BD:79:LYS:HD3	1:BD:81:LEU:HD23	2.02	0.41
1:BD:113:ALA:HA	1:BD:116:LEU:HD12	2.03	0.41
1:BE:22:THR:HG22	1:BE:24:LYS:HD2	2.02	0.41
1:BF:7:ILE:HD13	1:BF:7:ILE:HA	1.86	0.41
1:BS:95:LEU:HG	1:BS:97:VAL:HG13	2.01	0.41
1:BT:54:LYS:HB3	1:BT:70:ARG:HB2	2.02	0.41
1:BU:54:LYS:HB2	1:BU:54:LYS:HE3	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BV:28:ARG:HE	1:EF:28:ARG:CD	2.34	0.41
1:BY:32:GLU:HG2	1:BY:51:PHE:O	2.20	0.41
1:BZ:116:LEU:HD23	1:BZ:116:LEU:HA	1.94	0.41
1:CK:116:LEU:HD13	1:FZ:73:VAL:HG11	2.01	0.41
1:CM:7:ILE:HD13	1:CM:7:ILE:HA	1.86	0.41
1:CV:29:ASN:HA	1:CV:30:ASN:HA	1.54	0.41
1:DA:129:GLN:NE2	1:DB:55:VAL:HA	2.36	0.41
1:DA:131:LEU:HD23	1:DA:131:LEU:HA	1.87	0.41
1:DF:32:GLU:HG2	1:DF:51:PHE:O	2.20	0.41
1:DH:56:PRO:HB3	1:DH:99:PRO:HG3	2.02	0.41
1:DQ:21:ARG:HG3	1:DQ:39:GLU:HG2	2.02	0.41
1:DS:116:LEU:HD23	1:DS:116:LEU:HA	1.83	0.41
1:DY:44:GLN:NE2	1:EA:66:PHE:HE2	2.19	0.41
1:DY:79:LYS:HE2	1:DZ:101:THR:HA	2.02	0.41
1:DY:132:ALA:CB	1:DZ:28:ARG:HH12	2.31	0.41
1:EI:2:ILE:HD12	1:EI:2:ILE:H	1.85	0.41
1:EL:44:GLN:O	1:EL:86:ARG:NH1	2.53	0.41
1:EO:2:ILE:H	1:EO:2:ILE:HD12	1.85	0.41
1:EU:37:ILE:HB	1:EU:47:LYS:HB2	2.02	0.41
1:EW:27:VAL:HG12	1:EW:29:ASN:HD22	1.85	0.41
1:EX:36:TYR:HA	1:EX:48:GLU:HA	2.02	0.41
1:FA:33:LEU:HD23	1:FA:34:ASN:N	2.36	0.41
1:FC:44:GLN:NE2	1:FE:66:PHE:HE2	2.18	0.41
1:FG:21:ARG:HG3	1:FG:39:GLU:HG2	2.03	0.41
1:GF:32:GLU:HG2	1:GF:52:SER:HB3	2.03	0.41
1:GI:79:LYS:HD3	1:GI:81:LEU:HD23	2.02	0.41
1:GJ:36:TYR:HA	1:GJ:48:GLU:HA	2.03	0.41
1:GM:57:LYS:HB3	1:GM:57:LYS:HE3	1.59	0.41
1:GV:79:LYS:HE2	1:GW:101:THR:HA	2.02	0.41
1:AC:64:GLY:HA2	1:BS:83:ASN:ND2	2.35	0.41
1:AY:29:ASN:OD1	1:FA:29:ASN:HB2	2.20	0.41
1:AY:44:GLN:NE2	1:BA:66:PHE:HE2	2.18	0.41
1:AY:116:LEU:HD23	1:AY:116:LEU:HA	1.95	0.41
1:BR:7:ILE:HD13	1:BR:7:ILE:HA	1.86	0.41
1:CL:25:GLU:HG2	1:FN:132:ALA:O	2.20	0.41
1:CN:83:ASN:ND2	1:FN:64:GLY:HA2	2.36	0.41
1:CP:28:ARG:HD2	1:CW:28:ARG:HE	1.86	0.41
1:CS:56:PRO:HB3	1:CS:99:PRO:HG3	2.02	0.41
1:DA:22:THR:HG22	1:DA:24:LYS:HD2	2.03	0.41
1:DD:24:LYS:HB2	1:DD:36:TYR:CE2	2.56	0.41
1:DF:115:GLN:HE21	1:DF:115:GLN:HB2	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DN:21:ARG:HG3	1:DN:39:GLU:HG2	2.03	0.41
1:DW:21:ARG:HG3	1:DW:39:GLU:HG2	2.03	0.41
1:EH:129:GLN:NE2	1:EI:55:VAL:HA	2.36	0.41
1:EL:7:ILE:HD13	1:EL:7:ILE:HA	1.88	0.41
1:FB:32:GLU:HG2	1:FB:52:SER:HB3	2.02	0.41
1:GD:131:LEU:HD23	1:GD:131:LEU:HA	1.90	0.41
1:GH:33:LEU:HB3	1:GH:51:PHE:HB2	2.03	0.41
1:GI:131:LEU:HA	1:GI:131:LEU:HD23	1.84	0.41
1:GL:29:ASN:ND2	1:GL:32:GLU:OE1	2.53	0.41
1:GP:54:LYS:HB3	1:GP:70:ARG:HB2	2.02	0.41
1:GV:27:VAL:HG12	1:GV:29:ASN:HD22	1.85	0.41
1:GW:36:TYR:HA	1:GW:48:GLU:HA	2.02	0.41
1:AA:89:ASN:HB3	1:AB:109:MET:HE1	2.02	0.41
1:AD:44:GLN:NE2	1:AF:66:PHE:HE2	2.18	0.41
1:AH:30:ASN:HB2	1:EY:29:ASN:HA	2.03	0.41
1:AO:131:LEU:HD22	1:EG:33:LEU:HB2	2.03	0.41
1:AQ:7:ILE:HD13	1:AQ:7:ILE:HA	1.87	0.41
1:AR:32:GLU:HG2	1:AR:51:PHE:O	2.21	0.41
1:AU:79:LYS:HD3	1:AU:81:LEU:HD23	2.02	0.41
1:AU:110:LEU:HB3	1:BD:117:LEU:O	2.21	0.41
1:AV:85:ASN:OD1	1:AV:85:ASN:N	2.54	0.41
1:AV:129:GLN:NE2	1:AW:55:VAL:HA	2.36	0.41
1:AW:30:ASN:HB2	1:BJ:29:ASN:HA	2.01	0.41
1:AX:117:LEU:O	1:BG:110:LEU:HB3	2.21	0.41
1:AZ:36:TYR:HA	1:AZ:48:GLU:HA	2.03	0.41
1:BA:124:ASP:OD2	1:BA:124:ASP:N	2.53	0.41
1:BB:56:PRO:HB3	1:BB:67:THR:O	2.21	0.41
1:BG:32:GLU:HG2	1:BG:51:PHE:O	2.21	0.41
1:BH:39:GLU:OE2	1:BH:47:LYS:HD3	2.21	0.41
1:BK:29:ASN:CG	1:EO:29:ASN:HB2	2.41	0.41
1:BS:8:ALA:O	1:BS:11:SER:OG	2.28	0.41
1:BS:43:PHE:HE2	1:EU:56:PRO:HG2	1.86	0.41
1:BT:131:LEU:HD23	1:BT:131:LEU:HA	1.89	0.41
1:BW:39:GLU:OE2	1:BW:47:LYS:HD3	2.21	0.41
1:BY:15:VAL:HG11	1:FE:115:GLN:NE2	2.36	0.41
1:CC:24:LYS:HB2	1:CC:36:TYR:CE2	2.55	0.41
1:CE:83:ASN:ND2	1:GC:64:GLY:HA2	2.35	0.41
1:CG:33:LEU:HB3	1:CG:51:PHE:HB2	2.01	0.41
1:CI:25:GLU:HG2	1:FZ:132:ALA:O	2.21	0.41
1:CI:44:GLN:NE2	1:CK:66:PHE:HE2	2.17	0.41
1:CL:109:MET:HE2	1:CM:91:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:7:ILE:HD12	1:CM:115:GLN:HB3	2.03	0.41
1:CN:56:PRO:HB3	1:CN:67:THR:O	2.21	0.41
1:CT:116:LEU:O	1:CT:117:LEU:HD23	2.21	0.41
1:CU:24:LYS:HB2	1:CU:36:TYR:CE2	2.56	0.41
1:CU:39:GLU:OE2	1:CU:47:LYS:HD3	2.21	0.41
1:CV:131:LEU:HA	1:CV:131:LEU:HD23	1.83	0.41
1:CZ:32:GLU:HG2	1:CZ:51:PHE:O	2.21	0.41
1:DA:72:THR:HG23	1:DA:94:GLN:HB2	2.03	0.41
1:DB:66:PHE:N	1:DB:66:PHE:CD1	2.89	0.41
1:DD:25:GLU:HG2	1:ES:132:ALA:O	2.21	0.41
1:DD:39:GLU:OE2	1:DD:47:LYS:HD3	2.21	0.41
1:DL:56:PRO:HG3	1:DL:69:ALA:HB2	2.03	0.41
1:DP:56:PRO:HB3	1:DP:67:THR:O	2.20	0.41
1:DV:116:LEU:HD23	1:DV:116:LEU:HA	1.94	0.41
1:DZ:10:ASP:OD2	1:DZ:108:THR:OG1	2.26	0.41
1:EA:43:PHE:HE2	1:GQ:56:PRO:HG2	1.86	0.41
1:EE:39:GLU:OE1	1:EE:47:LYS:HD3	2.21	0.41
1:EG:83:ASN:ND2	1:EG:85:ASN:H	2.19	0.41
1:EJ:131:LEU:HA	1:EJ:131:LEU:HD23	1.82	0.41
1:EK:44:GLN:NE2	1:EM:66:PHE:HE2	2.19	0.41
1:EK:70:ARG:NE	1:EK:94:GLN:OE1	2.54	0.41
1:EL:21:ARG:HG3	1:EL:39:GLU:HG2	2.03	0.41
1:EN:39:GLU:OE1	1:EN:47:LYS:HD3	2.21	0.41
1:EN:117:LEU:HB2	1:EO:110:LEU:HD22	2.03	0.41
1:EO:102:THR:HG23	1:EO:105:GLU:OE2	2.21	0.41
1:ET:111:ASN:O	1:ET:115:GLN:HG3	2.20	0.41
1:EW:24:LYS:HB2	1:EW:36:TYR:CE2	2.55	0.41
1:FE:124:ASP:OD2	1:FE:124:ASP:N	2.54	0.41
1:FF:44:GLN:NE2	1:FH:66:PHE:HE2	2.19	0.41
1:FL:129:GLN:NE2	1:FM:55:VAL:HA	2.36	0.41
1:FM:33:LEU:HD23	1:FM:34:ASN:N	2.36	0.41
1:FR:44:GLN:NE2	1:FT:66:PHE:HE2	2.19	0.41
1:FR:132:ALA:CB	1:FS:28:ARG:HH12	2.31	0.41
1:FX:76:LYS:HD3	1:FX:88:VAL:HG11	2.03	0.41
1:FZ:21:ARG:HA	1:FZ:21:ARG:HD2	1.66	0.41
1:GD:11:SER:HB3	1:GE:18:GLY:HA3	2.02	0.41
1:GE:102:THR:HG23	1:GE:105:GLU:OE2	2.20	0.41
1:GF:83:ASN:ND2	1:GF:85:ASN:H	2.19	0.41
1:GF:115:GLN:HE21	1:GF:115:GLN:HB2	1.64	0.41
1:GG:54:LYS:HB3	1:GG:70:ARG:HB2	2.02	0.41
1:GG:115:GLN:O	1:GG:119:ASP:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GH:30:ASN:HB2	1:GX:29:ASN:HA	2.03	0.41
1:GM:129:GLN:NE2	1:GN:55:VAL:HA	2.36	0.41
1:GP:115:GLN:O	1:GP:119:ASP:HB2	2.21	0.41
1:GQ:37:ILE:HD12	1:GQ:47:LYS:HB3	2.03	0.41
1:GR:8:ALA:O	1:GR:11:SER:OG	2.27	0.41
1:GS:11:SER:HB3	1:GT:18:GLY:HA3	2.02	0.41
1:GS:44:GLN:NE2	1:GU:66:PHE:CE2	2.89	0.41
1:GU:115:GLN:HE21	1:GU:115:GLN:HB2	1.64	0.41
1:GV:132:ALA:CB	1:GW:28:ARG:HH12	2.31	0.41
1:AC:132:ALA:O	1:BQ:25:GLU:HG2	2.21	0.41
1:AG:56:PRO:HB3	1:AG:67:THR:O	2.21	0.41
1:AM:25:GLU:HG3	1:AM:33:LEU:HD21	2.02	0.41
1:AR:83:ASN:ND2	1:EJ:64:GLY:HA2	2.36	0.41
1:AR:117:LEU:O	1:EJ:110:LEU:HB3	2.21	0.41
1:AT:56:PRO:HG2	1:BG:43:PHE:HE2	1.86	0.41
1:AV:39:GLU:OE1	1:AV:47:LYS:HD3	2.21	0.41
1:AX:131:LEU:HA	1:AX:131:LEU:HD23	1.82	0.41
1:BA:9:ILE:HD12	1:BJ:47:LYS:NZ	2.37	0.41
1:BA:28:ARG:HE	1:FA:28:ARG:CD	2.34	0.41
1:BG:56:PRO:HB3	1:BG:67:THR:O	2.21	0.41
1:BQ:100:GLU:HG2	1:EU:44:GLN:OE1	2.21	0.41
1:BS:32:GLU:HG2	1:BS:51:PHE:O	2.21	0.41
1:BW:66:PHE:CZ	1:EI:86:ARG:HD2	2.56	0.41
1:BZ:129:GLN:NE2	1:CA:56:PRO:HD3	2.33	0.41
1:CD:7:ILE:HD12	1:CD:115:GLN:HB3	2.03	0.41
1:CN:124:ASP:N	1:CN:124:ASP:OD2	2.52	0.41
1:CO:129:GLN:NE2	1:CP:55:VAL:HA	2.36	0.41
1:CV:2:ILE:HD12	1:CV:2:ILE:H	1.84	0.41
1:DA:57:LYS:HB3	1:DA:57:LYS:HE3	1.60	0.41
1:DC:64:GLY:HA2	1:EA:83:ASN:ND2	2.35	0.41
1:DI:95:LEU:HG	1:DI:97:VAL:HG13	2.02	0.41
1:DI:113:ALA:HA	1:DI:116:LEU:HD12	2.02	0.41
1:DK:7:ILE:HD13	1:DK:7:ILE:HA	1.91	0.41
1:DL:29:ASN:ND2	1:DL:32:GLU:OE1	2.53	0.41
1:DL:58:VAL:HA	1:DL:66:PHE:HB3	2.03	0.41
1:DO:56:PRO:HG3	1:DO:69:ALA:HB2	2.03	0.41
1:DV:39:GLU:OE1	1:DV:47:LYS:HD3	2.21	0.41
1:DX:56:PRO:HG3	1:DX:69:ALA:HB2	2.03	0.41
1:ED:44:GLN:O	1:ED:86:ARG:NH2	2.54	0.41
1:EG:37:ILE:HD12	1:EG:47:LYS:HB2	2.03	0.41
1:EI:21:ARG:HG3	1:EI:39:GLU:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EN:11:SER:HB3	1:EO:18:GLY:HA3	2.02	0.41
1:EO:7:ILE:HD11	1:EO:122:TYR:HE2	1.86	0.41
1:EP:83:ASN:ND2	1:EP:85:ASN:H	2.19	0.41
1:EQ:36:TYR:HA	1:EQ:48:GLU:HA	2.03	0.41
1:ER:2:ILE:HG13	1:ER:122:TYR:HD1	1.86	0.41
1:EW:44:GLN:NE2	1:EY:66:PHE:HE2	2.19	0.41
1:EX:7:ILE:HD13	1:EX:7:ILE:HA	1.88	0.41
1:FC:76:LYS:HD3	1:FC:88:VAL:HG11	2.03	0.41
1:FJ:36:TYR:HA	1:FJ:48:GLU:HA	2.01	0.41
1:FL:22:THR:HG22	1:FL:24:LYS:HD2	2.03	0.41
1:FL:39:GLU:OE2	1:FL:47:LYS:HD3	2.21	0.41
1:FL:72:THR:HG23	1:FL:94:GLN:HB2	2.02	0.41
1:FM:21:ARG:HG3	1:FM:39:GLU:HG2	2.03	0.41
1:FV:37:ILE:HD12	1:FV:47:LYS:HB3	2.03	0.41
1:GD:44:GLN:NE2	1:GF:66:PHE:CE2	2.89	0.41
1:GI:110:LEU:HB3	1:GR:117:LEU:O	2.21	0.41
1:GL:110:LEU:HB3	1:GU:117:LEU:O	2.21	0.41
1:GN:66:PHE:N	1:GN:66:PHE:CD1	2.89	0.41
1:GU:83:ASN:ND2	1:GU:85:ASN:H	2.19	0.41
1:GV:24:LYS:HB2	1:GV:36:TYR:CE2	2.56	0.41
1:AA:129:GLN:NE2	1:AB:55:VAL:HA	2.36	0.40
1:AB:28:ARG:CD	1:FB:28:ARG:HE	2.34	0.40
1:AD:39:GLU:OE2	1:AD:47:LYS:HD3	2.21	0.40
1:AL:64:GLY:HA2	1:EM:83:ASN:ND2	2.35	0.40
1:AL:132:ALA:O	1:EK:25:GLU:HG2	2.21	0.40
1:AR:29:ASN:HB2	1:AR:30:ASN:H	1.69	0.40
1:AR:43:PHE:HE2	1:BC:56:PRO:HG2	1.87	0.40
1:AW:21:ARG:HG3	1:AW:39:GLU:HG2	2.03	0.40
1:BA:73:VAL:HG11	1:BJ:116:LEU:HD13	2.03	0.40
1:BL:36:TYR:HA	1:BL:48:GLU:HA	2.03	0.40
1:BM:131:LEU:HA	1:BM:131:LEU:HD23	1.89	0.40
1:BP:21:ARG:HA	1:BP:21:ARG:HD2	1.65	0.40
1:BR:7:ILE:HD12	1:BR:115:GLN:HB3	2.04	0.40
1:BU:36:TYR:HA	1:BU:48:GLU:HA	2.03	0.40
1:CD:36:TYR:HA	1:CD:48:GLU:HA	2.03	0.40
1:CE:56:PRO:HB3	1:CE:67:THR:O	2.22	0.40
1:CH:116:LEU:HD13	1:GF:73:VAL:HG11	2.04	0.40
1:CI:116:LEU:HD23	1:CI:116:LEU:HA	1.83	0.40
1:CM:36:TYR:HA	1:CM:48:GLU:HA	2.03	0.40
1:CP:28:ARG:CD	1:CW:28:ARG:HE	2.34	0.40
1:CU:56:PRO:HB3	1:CU:67:THR:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DI:79:LYS:HE2	1:EV:105:GLU:OE1	2.21	0.40
1:DR:33:LEU:HB2	1:FW:131:LEU:HD22	2.02	0.40
1:EB:36:TYR:HA	1:EB:48:GLU:HA	2.03	0.40
1:EE:44:GLN:NE2	1:EG:66:PHE:CE2	2.89	0.40
1:EF:7:ILE:HD11	1:EF:122:TYR:HE2	1.86	0.40
1:EF:33:LEU:HD23	1:EF:34:ASN:N	2.36	0.40
1:EH:22:THR:HG22	1:EH:24:LYS:HD2	2.03	0.40
1:EH:72:THR:HG23	1:EH:94:GLN:HB2	2.02	0.40
1:EN:44:GLN:NE2	1:EP:66:PHE:CE2	2.89	0.40
1:EQ:29:ASN:CG	1:GE:29:ASN:HB2	2.41	0.40
1:FE:29:ASN:ND2	1:FE:32:GLU:OE1	2.53	0.40
1:FI:111:ASN:O	1:FI:115:GLN:HG3	2.20	0.40
1:FX:25:GLU:HG3	1:FX:33:LEU:HD21	2.03	0.40
1:GA:129:GLN:NE2	1:GB:55:VAL:HA	2.36	0.40
1:GB:21:ARG:HG3	1:GB:39:GLU:HG2	2.03	0.40
1:GT:102:THR:HG23	1:GT:105:GLU:OE2	2.21	0.40
1:AG:15:VAL:HG21	1:AH:115:GLN:HE21	1.86	0.40
1:AH:2:ILE:HD12	1:AH:2:ILE:H	1.86	0.40
1:AJ:129:GLN:NE2	1:AK:55:VAL:HA	2.36	0.40
1:AK:33:LEU:HD23	1:AK:34:ASN:N	2.36	0.40
1:AO:56:PRO:HG3	1:AO:69:ALA:HB2	2.03	0.40
1:AT:30:ASN:HB2	1:BG:29:ASN:HA	2.04	0.40
1:AX:56:PRO:HG3	1:AX:69:ALA:HB2	2.03	0.40
1:BL:54:LYS:HB2	1:BL:54:LYS:HE3	1.83	0.40
1:BM:113:ALA:HA	1:BM:116:LEU:HD12	2.02	0.40
1:BN:15:VAL:HG21	1:BO:115:GLN:HE21	1.86	0.40
1:BP:70:ARG:H	1:BP:70:ARG:HG2	1.71	0.40
1:BZ:129:GLN:NE2	1:CA:55:VAL:HA	2.36	0.40
1:CF:29:ASN:CG	1:DT:29:ASN:HB2	2.41	0.40
1:CH:115:GLN:NE2	1:GF:15:VAL:HG11	2.37	0.40
1:DE:124:ASP:HB3	1:DE:130:ALA:HB3	2.03	0.40
1:DJ:132:ALA:HB2	1:DK:28:ARG:NH1	2.35	0.40
1:DM:116:LEU:HD23	1:DM:116:LEU:HA	1.94	0.40
1:DN:33:LEU:HD23	1:DN:34:ASN:N	2.36	0.40
1:DP:15:VAL:HG21	1:DQ:115:GLN:HE21	1.86	0.40
1:EJ:124:ASP:OD2	1:EJ:124:ASP:N	2.54	0.40
1:EK:111:ASN:O	1:EK:115:GLN:HG3	2.21	0.40
1:EN:66:PHE:CZ	1:GB:86:ARG:HD2	2.56	0.40
1:EQ:76:LYS:HD3	1:EQ:88:VAL:HG11	2.03	0.40
1:EQ:132:ALA:HB2	1:ER:28:ARG:NH1	2.35	0.40
1:EZ:11:SER:HB3	1:FA:18:GLY:HA3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FD:10:ASP:OD1	1:FD:108:THR:OG1	2.23	0.40
1:FD:44:GLN:CG	1:FD:86:ARG:HE	2.34	0.40
1:FO:70:ARG:HB3	1:FO:70:ARG:HH11	1.87	0.40
1:FP:7:ILE:HD13	1:FP:7:ILE:HA	1.91	0.40
1:FP:44:GLN:CG	1:FP:86:ARG:HE	2.34	0.40
1:GC:124:ASP:OD1	1:GC:124:ASP:N	2.55	0.40
1:GH:37:ILE:HD12	1:GH:47:LYS:HB3	2.04	0.40
1:GX:56:PRO:HB3	1:GX:67:THR:O	2.22	0.40
1:AB:66:PHE:CD1	1:AB:66:PHE:N	2.89	0.40
1:AE:131:LEU:HD23	1:AE:131:LEU:HA	1.79	0.40
1:AF:131:LEU:HD22	1:BM:33:LEU:HB2	2.02	0.40
1:AO:9:ILE:HD12	1:EG:47:LYS:NZ	2.37	0.40
1:AO:124:ASP:OD2	1:AO:124:ASP:N	2.53	0.40
1:AO:131:LEU:HD23	1:AO:131:LEU:HA	1.88	0.40
1:AR:56:PRO:HB3	1:AR:67:THR:O	2.22	0.40
1:AT:36:TYR:HA	1:AT:48:GLU:HA	2.04	0.40
1:BA:115:GLN:NE2	1:BJ:15:VAL:HG11	2.36	0.40
1:BA:131:LEU:HD22	1:BJ:33:LEU:HB2	2.03	0.40
1:BA:132:ALA:O	1:BH:25:GLU:HG2	2.21	0.40
1:BH:56:PRO:HB3	1:BH:67:THR:O	2.21	0.40
1:BH:59:SER:N	1:BH:65:GLY:O	2.50	0.40
1:BM:28:ARG:HE	1:EO:28:ARG:CD	2.31	0.40
1:BO:56:PRO:HG2	1:CN:43:PHE:HE2	1.86	0.40
1:BT:29:ASN:OD1	1:EF:29:ASN:HB2	2.21	0.40
1:BW:56:PRO:HB3	1:BW:67:THR:O	2.21	0.40
1:CA:33:LEU:HD23	1:CA:34:ASN:N	2.37	0.40
1:CA:66:PHE:N	1:CA:66:PHE:CD1	2.89	0.40
1:CC:25:GLU:HG2	1:GC:132:ALA:O	2.21	0.40
1:CO:129:GLN:NE2	1:CP:56:PRO:HD3	2.33	0.40
1:DE:2:ILE:HD12	1:DE:2:ILE:H	1.85	0.40
1:DH:36:TYR:HA	1:DH:48:GLU:HA	2.03	0.40
1:DM:39:GLU:OE1	1:DM:47:LYS:HD3	2.22	0.40
1:DM:72:THR:HG23	1:DM:94:GLN:HB2	2.03	0.40
1:DM:129:GLN:NE2	1:DN:55:VAL:HA	2.36	0.40
1:DQ:2:ILE:HD12	1:DQ:2:ILE:H	1.86	0.40
1:DR:131:LEU:HD22	1:FW:33:LEU:HB2	2.03	0.40
1:DS:39:GLU:OE2	1:DS:47:LYS:HD3	2.21	0.40
1:DU:105:GLU:H	1:DU:105:GLU:HG3	1.65	0.40
1:DV:59:SER:N	1:DV:65:GLY:O	2.48	0.40
1:DZ:66:PHE:CD1	1:DZ:66:PHE:N	2.88	0.40
1:EE:66:PHE:CZ	1:FM:86:ARG:HD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EU:2:ILE:H	1:EU:2:ILE:HD12	1.86	0.40
1:EZ:58:VAL:HG22	1:EZ:66:PHE:CE1	2.57	0.40
1:FE:29:ASN:HB2	1:FE:30:ASN:H	1.69	0.40
1:FF:131:LEU:HD23	1:FF:131:LEU:HA	1.89	0.40
1:FG:47:LYS:HD2	1:FG:47:LYS:HA	1.86	0.40
1:FJ:37:ILE:HD12	1:FJ:47:LYS:HB3	2.03	0.40
1:FO:25:GLU:HG3	1:FO:33:LEU:HD21	2.04	0.40
1:FR:111:ASN:O	1:FR:115:GLN:HG3	2.21	0.40
1:FV:2:ILE:HD12	1:FV:2:ILE:H	1.86	0.40
1:FX:70:ARG:HB3	1:FX:70:ARG:HH11	1.87	0.40
1:FY:44:GLN:CG	1:FY:86:ARG:HE	2.34	0.40
1:GA:39:GLU:OE2	1:GA:47:LYS:HD3	2.21	0.40
1:GC:68:GLN:HG2	1:GC:98:ASP:HA	2.03	0.40
1:GO:64:GLY:HA2	1:GX:83:ASN:ND2	2.36	0.40
1:GO:124:ASP:OD2	1:GO:124:ASP:N	2.54	0.40
1:AF:15:VAL:HG11	1:BM:115:GLN:NE2	2.37	0.40
1:AH:56:PRO:HG2	1:EY:43:PHE:HE2	1.85	0.40
1:AI:131:LEU:HD22	1:BP:33:LEU:HB2	2.02	0.40
1:AK:66:PHE:CD1	1:AK:66:PHE:N	2.89	0.40
1:AO:110:LEU:HB3	1:EG:117:LEU:O	2.22	0.40
1:AZ:52:SER:HB3	1:AZ:72:THR:HB	2.04	0.40
1:BB:24:LYS:HB2	1:BB:36:TYR:CE2	2.57	0.40
1:BF:7:ILE:HD12	1:BF:115:GLN:HB3	2.03	0.40
1:BN:56:PRO:HB3	1:BN:67:THR:O	2.21	0.40
1:BO:2:ILE:HD12	1:BO:2:ILE:H	1.86	0.40
1:BR:36:TYR:HA	1:BR:48:GLU:HA	2.03	0.40
1:BV:115:GLN:NE2	1:FB:15:VAL:HG11	2.37	0.40
1:BW:25:GLU:HG2	1:FE:132:ALA:O	2.21	0.40
1:CE:98:ASP:O	1:CE:101:THR:OG1	2.28	0.40
1:CI:39:GLU:OE2	1:CI:47:LYS:HD3	2.21	0.40
1:CN:32:GLU:HG2	1:CN:51:PHE:O	2.21	0.40
1:CP:66:PHE:N	1:CP:66:PHE:CD1	2.89	0.40
1:DA:58:VAL:HG22	1:DA:66:PHE:CE1	2.55	0.40
1:DB:33:LEU:HD23	1:DB:34:ASN:N	2.37	0.40
1:DE:56:PRO:HB3	1:DE:99:PRO:HG3	2.03	0.40
1:DH:30:ASN:HB2	1:FT:29:ASN:HA	2.03	0.40
1:DL:110:LEU:HB3	1:EP:117:LEU:O	2.22	0.40
1:DL:131:LEU:HD23	1:DL:131:LEU:HA	1.88	0.40
1:DQ:29:ASN:HA	1:DQ:30:ASN:HA	1.64	0.40
1:EB:76:LYS:HD3	1:EB:88:VAL:HG11	2.04	0.40
1:EC:44:GLN:CG	1:EC:86:ARG:HE	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EE:11:SER:HB3	1:EF:18:GLY:HA3	2.03	0.40
1:EI:7:ILE:HD13	1:EI:7:ILE:HA	1.94	0.40
1:ER:44:GLN:CG	1:ER:86:ARG:HE	2.34	0.40
1:ES:10:ASP:OD1	1:ES:108:THR:OG1	2.26	0.40
1:EU:36:TYR:HA	1:EU:48:GLU:HA	2.02	0.40
1:EW:58:VAL:HG22	1:EW:66:PHE:CE1	2.57	0.40
1:EW:131:LEU:HD23	1:EW:131:LEU:HA	1.89	0.40
1:FZ:24:LYS:HB2	1:FZ:36:TYR:CE1	2.57	0.40
1:GI:56:PRO:HG2	1:GI:99:PRO:HB3	2.03	0.40
1:GL:115:GLN:NE2	1:GU:15:VAL:HG11	2.37	0.40
1:GM:22:THR:HG22	1:GM:24:LYS:HD2	2.04	0.40
1:GM:131:LEU:HD23	1:GM:131:LEU:HA	1.87	0.40
1:GR:131:LEU:HA	1:GR:131:LEU:HD23	1.84	0.40
1:GW:66:PHE:CD1	1:GW:66:PHE:N	2.88	0.40
1:AA:25:GLU:HG2	1:BS:132:ALA:O	2.21	0.40
1:AB:33:LEU:HD23	1:AB:34:ASN:N	2.37	0.40
1:AD:56:PRO:HB3	1:AD:67:THR:O	2.21	0.40
1:AQ:7:ILE:HD12	1:AQ:115:GLN:HB3	2.03	0.40
1:AS:15:VAL:HG21	1:AT:115:GLN:HE21	1.86	0.40
1:BB:15:VAL:HG21	1:BC:115:GLN:HE21	1.86	0.40
1:BU:7:ILE:HD13	1:BU:7:ILE:HA	1.90	0.40
1:BV:110:LEU:HB3	1:FB:117:LEU:O	2.22	0.40
1:BX:28:ARG:CD	1:DL:28:ARG:HE	2.34	0.40
1:CK:8:ALA:O	1:CK:11:SER:OG	2.32	0.40
1:CO:39:GLU:OE1	1:CO:47:LYS:HD3	2.21	0.40
1:CP:33:LEU:HD23	1:CP:34:ASN:N	2.37	0.40
1:CR:56:PRO:HB3	1:CR:67:THR:O	2.21	0.40
1:CS:30:ASN:HB2	1:CZ:29:ASN:HA	2.03	0.40
1:CY:7:ILE:HD12	1:CY:115:GLN:HB3	2.03	0.40
1:DA:85:ASN:OD1	1:DA:85:ASN:N	2.54	0.40
1:DC:117:LEU:O	1:EA:110:LEU:HB3	2.22	0.40
1:DC:131:LEU:HD22	1:EA:33:LEU:HB2	2.02	0.40
1:DD:56:PRO:HB3	1:DD:67:THR:O	2.22	0.40
1:DG:24:LYS:HB2	1:DG:36:TYR:CE2	2.57	0.40
1:DL:124:ASP:OD2	1:DL:124:ASP:N	2.53	0.40
1:DO:131:LEU:HD23	1:DO:131:LEU:HA	1.81	0.40
1:DV:129:GLN:NE2	1:DW:55:VAL:HA	2.36	0.40
1:EE:117:LEU:HB2	1:EF:110:LEU:HD22	2.04	0.40
1:EH:85:ASN:OD1	1:EH:85:ASN:N	2.55	0.40
1:ET:59:SER:N	1:ET:65:GLY:O	2.49	0.40
1:EV:56:PRO:HG2	1:EV:99:PRO:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EZ:39:GLU:OE1	1:EZ:47:LYS:HD3	2.21	0.40
1:FB:37:ILE:HD12	1:FB:47:LYS:HB2	2.03	0.40
1:FC:70:ARG:HB3	1:FC:70:ARG:HH11	1.87	0.40
1:FH:43:PHE:HE2	1:FV:56:PRO:HG2	1.86	0.40
1:FI:115:GLN:O	1:FI:119:ASP:HB2	2.21	0.40
1:FL:85:ASN:N	1:FL:85:ASN:OD1	2.55	0.40
1:FP:54:LYS:HE3	1:FP:54:LYS:HB2	1.83	0.40
1:FQ:24:LYS:HB2	1:FQ:36:TYR:CE1	2.57	0.40
1:FQ:44:GLN:O	1:FQ:86:ARG:NH2	2.54	0.40
1:FT:21:ARG:HD2	1:FT:21:ARG:HA	1.94	0.40
1:FW:21:ARG:HD2	1:FW:21:ARG:HA	1.60	0.40
1:FX:131:LEU:HA	1:FX:131:LEU:HD23	1.89	0.40
1:GA:85:ASN:N	1:GA:85:ASN:OD1	2.55	0.40
1:GE:7:ILE:HD13	1:GE:7:ILE:HA	1.88	0.40
1:GI:73:VAL:HG11	1:GR:116:LEU:HD13	2.03	0.40
1:GI:105:GLU:OE1	1:GR:79:LYS:HE2	2.22	0.40
1:GJ:25:GLU:HG3	1:GJ:33:LEU:HD21	2.03	0.40
1:GJ:131:LEU:HD23	1:GJ:131:LEU:HA	1.89	0.40
1:GM:85:ASN:OD1	1:GM:85:ASN:N	2.55	0.40
1:GN:97:VAL:HG12	1:GN:109:MET:HE1	2.04	0.40
1:GS:39:GLU:OE1	1:GS:47:LYS:HD3	2.21	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AA	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	AB	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	AC	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	AD	130/132 (98%)	118 (91%)	11 (8%)	1 (1%)	16	44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AE	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	AF	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	AG	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	AH	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	AI	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	AJ	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	AK	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	AL	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	AM	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	AN	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	AO	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	AP	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	AQ	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	AR	130/132 (98%)	110 (85%)	19 (15%)	1 (1%)	16	44
1	AS	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	AT	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	AU	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	AV	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	AW	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	AX	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	AY	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	AZ	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	BA	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	BB	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	BC	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	BD	130/132 (98%)	113 (87%)	16 (12%)	1 (1%)	16	44
1	BE	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	BF	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	BG	130/132 (98%)	110 (85%)	19 (15%)	1 (1%)	16	44
1	BH	130/132 (98%)	118 (91%)	11 (8%)	1 (1%)	16	44
1	BI	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BJ	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	BK	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	BL	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	BM	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	BN	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	BO	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	BP	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	BQ	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	BR	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	BS	130/132 (98%)	110 (85%)	19 (15%)	1 (1%)	16	44
1	BT	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	BU	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	BV	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	BW	130/132 (98%)	118 (91%)	11 (8%)	1 (1%)	16	44
1	BX	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	BY	130/132 (98%)	113 (87%)	16 (12%)	1 (1%)	16	44
1	BZ	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	CA	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	CB	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	CC	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	CD	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	CE	130/132 (98%)	110 (85%)	19 (15%)	1 (1%)	16	44
1	CF	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	CG	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	CH	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	CI	130/132 (98%)	118 (91%)	11 (8%)	1 (1%)	16	44
1	CJ	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	CK	130/132 (98%)	113 (87%)	16 (12%)	1 (1%)	16	44
1	CL	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	CM	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	CN	130/132 (98%)	110 (85%)	19 (15%)	1 (1%)	16	44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	CO	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	CP	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	CQ	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	CR	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	CS	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	CT	130/132 (98%)	114 (88%)	15 (12%)	1 (1%)	16	44
1	CU	130/132 (98%)	118 (91%)	11 (8%)	1 (1%)	16	44
1	CV	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	CW	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	CX	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	CY	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	CZ	130/132 (98%)	110 (85%)	19 (15%)	1 (1%)	16	44
1	DA	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	DB	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	DC	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	DD	130/132 (98%)	118 (91%)	11 (8%)	1 (1%)	16	44
1	DE	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	DF	130/132 (98%)	113 (87%)	16 (12%)	1 (1%)	16	44
1	DG	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	DH	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	DI	130/132 (98%)	114 (88%)	15 (12%)	1 (1%)	16	44
1	DJ	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	DK	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	DL	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	DM	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	DN	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	DO	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	DP	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	DQ	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	DR	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	DS	130/132 (98%)	118 (91%)	11 (8%)	1 (1%)	16	44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	DT	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	DU	130/132 (98%)	114 (88%)	15 (12%)	1 (1%)	16	44
1	DV	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	DW	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	DX	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	DY	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	DZ	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	EA	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	EB	130/132 (98%)	118 (91%)	11 (8%)	1 (1%)	16	44
1	EC	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	ED	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	EE	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	EF	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	EG	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	EH	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	EI	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	EJ	130/132 (98%)	113 (87%)	16 (12%)	1 (1%)	16	44
1	EK	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	EL	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	EM	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	EN	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	EO	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	EP	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	EQ	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	ER	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	ES	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	ET	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	EU	130/132 (98%)	116 (89%)	11 (8%)	3 (2%)	5	19
1	EV	130/132 (98%)	113 (87%)	16 (12%)	1 (1%)	16	44
1	EW	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	EX	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	EY	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	EZ	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	FA	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	FB	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	FC	130/132 (98%)	118 (91%)	11 (8%)	1 (1%)	16	44
1	FD	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	FE	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	FF	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	FG	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	FH	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	FI	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	FJ	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	FK	130/132 (98%)	113 (87%)	16 (12%)	1 (1%)	16	44
1	FL	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	FM	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	FN	130/132 (98%)	115 (88%)	14 (11%)	1 (1%)	16	44
1	FO	130/132 (98%)	120 (92%)	9 (7%)	1 (1%)	16	44
1	FP	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	FQ	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	FR	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	FS	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	FT	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	FU	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	FV	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	FW	130/132 (98%)	113 (87%)	16 (12%)	1 (1%)	16	44
1	FX	130/132 (98%)	118 (91%)	11 (8%)	1 (1%)	16	44
1	FY	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	FZ	130/132 (98%)	111 (85%)	18 (14%)	1 (1%)	16	44
1	GA	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	GB	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	GC	130/132 (98%)	114 (88%)	15 (12%)	1 (1%)	16	44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	GD	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	GE	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	GF	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	GG	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	GH	130/132 (98%)	118 (91%)	9 (7%)	3 (2%)	5	19
1	GI	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	GJ	130/132 (98%)	120 (92%)	9 (7%)	1 (1%)	16	44
1	GK	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	GL	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	GM	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	GN	130/132 (98%)	119 (92%)	8 (6%)	3 (2%)	5	19
1	GO	130/132 (98%)	115 (88%)	14 (11%)	1 (1%)	16	44
1	GP	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	16	44
1	GQ	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	GR	130/132 (98%)	113 (87%)	16 (12%)	1 (1%)	16	44
1	GS	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	GT	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	GU	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
1	GV	130/132 (98%)	117 (90%)	12 (9%)	1 (1%)	16	44
1	GW	130/132 (98%)	117 (90%)	10 (8%)	3 (2%)	5	19
1	GX	130/132 (98%)	112 (86%)	17 (13%)	1 (1%)	16	44
All	All	23400/23760 (98%)	20904 (89%)	2196 (9%)	300 (1%)	13	32

All (300) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AC	29	ASN
1	AF	29	ASN
1	AI	29	ASN
1	AL	29	ASN
1	AO	29	ASN
1	AR	29	ASN
1	AU	29	ASN
1	AX	29	ASN
1	BA	29	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	BD	29	ASN
1	BG	29	ASN
1	BJ	29	ASN
1	BM	29	ASN
1	BP	29	ASN
1	BS	29	ASN
1	BV	29	ASN
1	BY	29	ASN
1	CB	29	ASN
1	CE	29	ASN
1	CH	29	ASN
1	CK	29	ASN
1	CN	29	ASN
1	CQ	29	ASN
1	CT	29	ASN
1	CW	29	ASN
1	CZ	29	ASN
1	DC	29	ASN
1	DF	29	ASN
1	DI	29	ASN
1	DL	29	ASN
1	DO	29	ASN
1	DR	29	ASN
1	DU	29	ASN
1	DX	29	ASN
1	EA	29	ASN
1	ED	29	ASN
1	EG	29	ASN
1	EJ	29	ASN
1	EM	29	ASN
1	EP	29	ASN
1	ES	29	ASN
1	EV	29	ASN
1	EY	29	ASN
1	FB	29	ASN
1	FE	29	ASN
1	FH	29	ASN
1	FK	29	ASN
1	FN	29	ASN
1	FQ	29	ASN
1	FT	29	ASN
1	FW	29	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	FZ	29	ASN
1	GC	29	ASN
1	GF	29	ASN
1	GI	29	ASN
1	GL	29	ASN
1	GO	29	ASN
1	GR	29	ASN
1	GU	29	ASN
1	GX	29	ASN
1	AB	3	ALA
1	AE	3	ALA
1	AH	3	ALA
1	AK	3	ALA
1	AN	3	ALA
1	AQ	3	ALA
1	AT	3	ALA
1	AW	3	ALA
1	AZ	3	ALA
1	BC	3	ALA
1	BF	3	ALA
1	BI	3	ALA
1	BL	3	ALA
1	BO	3	ALA
1	BR	3	ALA
1	BU	3	ALA
1	BX	3	ALA
1	CA	3	ALA
1	CD	3	ALA
1	CG	3	ALA
1	CJ	3	ALA
1	CM	3	ALA
1	CP	3	ALA
1	CS	3	ALA
1	CV	3	ALA
1	CY	3	ALA
1	DB	3	ALA
1	DE	3	ALA
1	DH	3	ALA
1	DK	3	ALA
1	DN	3	ALA
1	DQ	3	ALA
1	DT	3	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	DW	3	ALA
1	DZ	3	ALA
1	EC	3	ALA
1	EF	3	ALA
1	EI	3	ALA
1	EL	3	ALA
1	EO	3	ALA
1	ER	3	ALA
1	EU	3	ALA
1	EX	3	ALA
1	FA	3	ALA
1	FD	3	ALA
1	FG	3	ALA
1	FJ	3	ALA
1	FM	3	ALA
1	FP	3	ALA
1	FS	3	ALA
1	FV	3	ALA
1	FY	3	ALA
1	GB	3	ALA
1	GE	3	ALA
1	GH	3	ALA
1	GK	3	ALA
1	GN	3	ALA
1	GQ	3	ALA
1	GT	3	ALA
1	GW	3	ALA
1	AB	23	VAL
1	AH	23	VAL
1	AK	23	VAL
1	AQ	23	VAL
1	AT	23	VAL
1	AW	23	VAL
1	BC	23	VAL
1	BF	23	VAL
1	BO	23	VAL
1	BR	23	VAL
1	CA	23	VAL
1	CD	23	VAL
1	CM	23	VAL
1	CP	23	VAL
1	CS	23	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CY	23	VAL
1	DB	23	VAL
1	DH	23	VAL
1	DN	23	VAL
1	DQ	23	VAL
1	DW	23	VAL
1	DZ	23	VAL
1	EC	23	VAL
1	EI	23	VAL
1	EL	23	VAL
1	EO	23	VAL
1	ER	23	VAL
1	EU	23	VAL
1	EX	23	VAL
1	FD	23	VAL
1	FG	23	VAL
1	FJ	23	VAL
1	FM	23	VAL
1	FP	23	VAL
1	FS	23	VAL
1	FV	23	VAL
1	FY	23	VAL
1	GB	23	VAL
1	GE	23	VAL
1	GH	23	VAL
1	GK	23	VAL
1	GN	23	VAL
1	GQ	23	VAL
1	GT	23	VAL
1	GW	23	VAL
1	AA	3	ALA
1	AB	29	ASN
1	AD	3	ALA
1	AE	23	VAL
1	AG	3	ALA
1	AJ	3	ALA
1	AM	3	ALA
1	AN	23	VAL
1	AP	3	ALA
1	AS	3	ALA
1	AV	3	ALA
1	AY	3	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AZ	23	VAL
1	BB	3	ALA
1	BE	3	ALA
1	BH	3	ALA
1	BI	23	VAL
1	BK	3	ALA
1	BL	23	VAL
1	BN	3	ALA
1	BQ	3	ALA
1	BR	29	ASN
1	BT	3	ALA
1	BU	23	VAL
1	BW	3	ALA
1	BX	23	VAL
1	BZ	3	ALA
1	CC	3	ALA
1	CD	29	ASN
1	CF	3	ALA
1	CG	23	VAL
1	CI	3	ALA
1	CJ	23	VAL
1	CL	3	ALA
1	CM	29	ASN
1	CO	3	ALA
1	CR	3	ALA
1	CU	3	ALA
1	CV	23	VAL
1	CX	3	ALA
1	CY	29	ASN
1	DA	3	ALA
1	DB	29	ASN
1	DD	3	ALA
1	DE	23	VAL
1	DG	3	ALA
1	DJ	3	ALA
1	DK	23	VAL
1	DM	3	ALA
1	DP	3	ALA
1	DS	3	ALA
1	DT	23	VAL
1	DV	3	ALA
1	DY	3	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	DZ	29	ASN
1	EB	3	ALA
1	EE	3	ALA
1	EF	23	VAL
1	EH	3	ALA
1	EK	3	ALA
1	EL	29	ASN
1	EN	3	ALA
1	EQ	3	ALA
1	ET	3	ALA
1	EW	3	ALA
1	EZ	3	ALA
1	FA	23	VAL
1	FC	3	ALA
1	FF	3	ALA
1	FG	29	ASN
1	FI	3	ALA
1	FL	3	ALA
1	FO	3	ALA
1	FR	3	ALA
1	FS	29	ASN
1	FU	3	ALA
1	FX	3	ALA
1	GA	3	ALA
1	GD	3	ALA
1	GG	3	ALA
1	GJ	3	ALA
1	GM	3	ALA
1	GP	3	ALA
1	GS	3	ALA
1	GV	3	ALA
1	AE	29	ASN
1	AN	29	ASN
1	AQ	29	ASN
1	AW	29	ASN
1	AZ	29	ASN
1	BF	29	ASN
1	BL	29	ASN
1	BU	29	ASN
1	BX	29	ASN
1	CA	29	ASN
1	CG	29	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CJ	29	ASN
1	CP	29	ASN
1	CV	29	ASN
1	DE	29	ASN
1	DK	29	ASN
1	EC	29	ASN
1	ER	29	ASN
1	EX	29	ASN
1	FD	29	ASN
1	FP	29	ASN
1	FY	29	ASN
1	GK	29	ASN
1	GN	29	ASN
1	GW	29	ASN
1	AH	29	ASN
1	AK	29	ASN
1	AT	29	ASN
1	BC	29	ASN
1	BI	29	ASN
1	BO	29	ASN
1	CS	29	ASN
1	DH	29	ASN
1	DN	29	ASN
1	DQ	29	ASN
1	DT	29	ASN
1	DW	29	ASN
1	EF	29	ASN
1	EI	29	ASN
1	EO	29	ASN
1	EU	29	ASN
1	FA	29	ASN
1	FJ	29	ASN
1	FM	29	ASN
1	FV	29	ASN
1	GB	29	ASN
1	GE	29	ASN
1	GH	29	ASN
1	GQ	29	ASN
1	GT	29	ASN

### 5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AA	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	AB	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	AC	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	AD	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	AE	107/107 (100%)	99 (92%)	8 (8%)	11	33
1	AF	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	AG	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	AH	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	AI	107/107 (100%)	92 (86%)	15 (14%)	3	9
1	AJ	107/107 (100%)	94 (88%)	13 (12%)	4	13
1	AK	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	AL	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	AM	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	AN	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	AO	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	AP	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	AQ	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	AR	107/107 (100%)	100 (94%)	7 (6%)	14	40
1	AS	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	AT	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	AU	107/107 (100%)	94 (88%)	13 (12%)	4	13
1	AV	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	AW	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	AX	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	AY	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	AZ	107/107 (100%)	98 (92%)	9 (8%)	9	28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	BA	107/107 (100%)	94 (88%)	13 (12%)	4	13
1	BB	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	BC	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	BD	107/107 (100%)	92 (86%)	15 (14%)	3	9
1	BE	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	BF	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	BG	107/107 (100%)	100 (94%)	7 (6%)	14	40
1	BH	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	BI	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	BJ	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	BK	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	BL	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	BM	107/107 (100%)	94 (88%)	13 (12%)	4	13
1	BN	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	BO	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	BP	107/107 (100%)	94 (88%)	13 (12%)	4	13
1	BQ	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	BR	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	BS	107/107 (100%)	100 (94%)	7 (6%)	14	40
1	BT	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	BU	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	BV	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	BW	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	BX	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	BY	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	BZ	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	CA	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	CB	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	CC	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	CD	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	CE	107/107 (100%)	100 (94%)	7 (6%)	14	40

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	CF	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	CG	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	CH	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	CI	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	CJ	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	CK	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	CL	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	CM	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	CN	107/107 (100%)	100 (94%)	7 (6%)	14	40
1	CO	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	CP	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	CQ	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	CR	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	CS	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	CT	107/107 (100%)	92 (86%)	15 (14%)	3	9
1	CU	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	CV	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	CW	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	CX	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	CY	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	CZ	107/107 (100%)	100 (94%)	7 (6%)	14	40
1	DA	107/107 (100%)	94 (88%)	13 (12%)	4	13
1	DB	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	DC	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	DD	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	DE	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	DF	107/107 (100%)	94 (88%)	13 (12%)	4	13
1	DG	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	DH	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	DI	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	DJ	107/107 (100%)	98 (92%)	9 (8%)	9	28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	DK	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	DL	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	DM	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	DN	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	DO	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	DP	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	DQ	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	DR	107/107 (100%)	92 (86%)	15 (14%)	3	9
1	DS	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	DT	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	DU	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	DV	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	DW	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	DX	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	DY	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	DZ	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	EA	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EB	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	EC	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	ED	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	EE	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EF	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EG	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	EH	107/107 (100%)	94 (88%)	13 (12%)	4	13
1	EI	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EJ	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EK	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EL	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	EM	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EN	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EO	107/107 (100%)	95 (89%)	12 (11%)	5	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	EP	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EQ	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	ER	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	ES	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	ET	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	EU	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EV	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	EW	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	EX	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	EY	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	EZ	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	FA	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	FB	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	FC	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	FD	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	FE	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	FF	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	FG	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	FH	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	FI	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	FJ	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	FK	107/107 (100%)	92 (86%)	15 (14%)	3	9
1	FL	107/107 (100%)	94 (88%)	13 (12%)	4	13
1	FM	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	FN	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	FO	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	FP	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	FQ	107/107 (100%)	92 (86%)	15 (14%)	3	9
1	FR	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	FS	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	FT	107/107 (100%)	96 (90%)	11 (10%)	6	19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	FU	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	FV	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	FW	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	FX	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	FY	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	FZ	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	GA	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	GB	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	GC	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	GD	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	GE	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	GF	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	GG	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	GH	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	GI	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	GJ	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	GK	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	GL	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	GM	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	GN	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	GO	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	GP	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	GQ	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	GR	107/107 (100%)	93 (87%)	14 (13%)	3	11
1	GS	107/107 (100%)	96 (90%)	11 (10%)	6	19
1	GT	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	GU	107/107 (100%)	95 (89%)	12 (11%)	5	16
1	GV	107/107 (100%)	98 (92%)	9 (8%)	9	28
1	GW	107/107 (100%)	97 (91%)	10 (9%)	7	23
1	GX	107/107 (100%)	97 (91%)	10 (9%)	7	23
All	All	19260/19260 (100%)	17289 (90%)	1971 (10%)	8	19

All (1971) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	5	SER
1	AA	12	THR
1	AA	14	SER
1	AA	24	LYS
1	AA	38	ASP
1	AA	52	SER
1	AA	57	LYS
1	AA	60	VAL
1	AA	61	SER
1	AA	63	PRO
1	AA	85	ASN
1	AA	95	LEU
1	AA	119	ASP
1	AA	121	ASP
1	AB	14	SER
1	AB	30	ASN
1	AB	34	ASN
1	AB	53	VAL
1	AB	79	LYS
1	AB	81	LEU
1	AB	86	ARG
1	AB	96	SER
1	AB	98	ASP
1	AB	102	THR
1	AC	5	SER
1	AC	12	THR
1	AC	19	THR
1	AC	39	GLU
1	AC	42	SER
1	AC	49	VAL
1	AC	83	ASN
1	AC	85	ASN
1	AC	98	ASP
1	AC	102	THR
1	AD	10	ASP
1	AD	12	THR
1	AD	14	SER
1	AD	52	SER
1	AD	60	VAL
1	AD	61	SER
1	AD	77	SER
1	AD	118	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AD	121	ASP
1	AE	14	SER
1	AE	53	VAL
1	AE	72	THR
1	AE	76	LYS
1	AE	79	LYS
1	AE	86	ARG
1	AE	98	ASP
1	AE	102	THR
1	AF	5	SER
1	AF	12	THR
1	AF	39	GLU
1	AF	42	SER
1	AF	49	VAL
1	AF	71	SER
1	AF	72	THR
1	AF	83	ASN
1	AF	85	ASN
1	AF	98	ASP
1	AF	129	GLN
1	AG	12	THR
1	AG	14	SER
1	AG	28	ARG
1	AG	30	ASN
1	AG	52	SER
1	AG	57	LYS
1	AG	60	VAL
1	AG	77	SER
1	AG	79	LYS
1	AG	94	GLN
1	AG	98	ASP
1	AG	121	ASP
1	AH	14	SER
1	AH	53	VAL
1	AH	54	LYS
1	AH	58	VAL
1	AH	79	LYS
1	AH	83	ASN
1	AH	86	ARG
1	AH	88	VAL
1	AH	98	ASP
1	AH	102	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AH	129	GLN
1	AI	5	SER
1	AI	12	THR
1	AI	19	THR
1	AI	21	ARG
1	AI	28	ARG
1	AI	32	GLU
1	AI	42	SER
1	AI	49	VAL
1	AI	52	SER
1	AI	66	PHE
1	AI	70	ARG
1	AI	72	THR
1	AI	85	ASN
1	AI	96	SER
1	AI	102	THR
1	AJ	5	SER
1	AJ	12	THR
1	AJ	14	SER
1	AJ	24	LYS
1	AJ	38	ASP
1	AJ	52	SER
1	AJ	57	LYS
1	AJ	60	VAL
1	AJ	61	SER
1	AJ	85	ASN
1	AJ	95	LEU
1	AJ	119	ASP
1	AJ	121	ASP
1	AK	14	SER
1	AK	29	ASN
1	AK	34	ASN
1	AK	53	VAL
1	AK	76	LYS
1	AK	79	LYS
1	AK	81	LEU
1	AK	86	ARG
1	AK	96	SER
1	AK	98	ASP
1	AK	102	THR
1	AL	5	SER
1	AL	12	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AL	19	THR
1	AL	39	GLU
1	AL	42	SER
1	AL	49	VAL
1	AL	72	THR
1	AL	83	ASN
1	AL	85	ASN
1	AL	98	ASP
1	AL	102	THR
1	AM	5	SER
1	AM	10	ASP
1	AM	14	SER
1	AM	52	SER
1	AM	60	VAL
1	AM	61	SER
1	AM	95	LEU
1	AM	119	ASP
1	AM	121	ASP
1	AN	14	SER
1	AN	30	ASN
1	AN	53	VAL
1	AN	79	LYS
1	AN	81	LEU
1	AN	86	ARG
1	AN	98	ASP
1	AN	102	THR
1	AN	115	GLN
1	AO	5	SER
1	AO	11	SER
1	AO	12	THR
1	AO	19	THR
1	AO	21	ARG
1	AO	39	GLU
1	AO	42	SER
1	AO	49	VAL
1	AO	52	SER
1	AO	60	VAL
1	AO	85	ASN
1	AO	102	THR
1	AP	5	SER
1	AP	12	THR
1	AP	14	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AP	52	SER
1	AP	54	LYS
1	AP	57	LYS
1	AP	60	VAL
1	AP	77	SER
1	AP	119	ASP
1	AP	121	ASP
1	AQ	14	SER
1	AQ	34	ASN
1	AQ	53	VAL
1	AQ	54	LYS
1	AQ	76	LYS
1	AQ	79	LYS
1	AQ	86	ARG
1	AQ	88	VAL
1	AQ	98	ASP
1	AQ	102	THR
1	AR	5	SER
1	AR	12	THR
1	AR	39	GLU
1	AR	42	SER
1	AR	49	VAL
1	AR	85	ASN
1	AR	102	THR
1	AS	12	THR
1	AS	14	SER
1	AS	30	ASN
1	AS	52	SER
1	AS	57	LYS
1	AS	60	VAL
1	AS	77	SER
1	AS	79	LYS
1	AS	94	GLN
1	AS	98	ASP
1	AS	121	ASP
1	AT	14	SER
1	AT	53	VAL
1	AT	54	LYS
1	AT	58	VAL
1	AT	79	LYS
1	AT	83	ASN
1	AT	86	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AT	88	VAL
1	AT	98	ASP
1	AT	102	THR
1	AT	129	GLN
1	AU	5	SER
1	AU	12	THR
1	AU	19	THR
1	AU	21	ARG
1	AU	42	SER
1	AU	49	VAL
1	AU	52	SER
1	AU	66	PHE
1	AU	70	ARG
1	AU	72	THR
1	AU	85	ASN
1	AU	96	SER
1	AU	102	THR
1	AV	5	SER
1	AV	12	THR
1	AV	14	SER
1	AV	24	LYS
1	AV	38	ASP
1	AV	52	SER
1	AV	57	LYS
1	AV	60	VAL
1	AV	61	SER
1	AV	63	PRO
1	AV	85	ASN
1	AV	95	LEU
1	AV	119	ASP
1	AV	121	ASP
1	AW	14	SER
1	AW	30	ASN
1	AW	34	ASN
1	AW	53	VAL
1	AW	79	LYS
1	AW	81	LEU
1	AW	86	ARG
1	AW	96	SER
1	AW	98	ASP
1	AW	102	THR
1	AX	5	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AX	12	THR
1	AX	19	THR
1	AX	39	GLU
1	AX	42	SER
1	AX	49	VAL
1	AX	83	ASN
1	AX	85	ASN
1	AX	98	ASP
1	AX	102	THR
1	AY	5	SER
1	AY	10	ASP
1	AY	14	SER
1	AY	52	SER
1	AY	60	VAL
1	AY	61	SER
1	AY	95	LEU
1	AY	119	ASP
1	AY	121	ASP
1	AZ	14	SER
1	AZ	30	ASN
1	AZ	53	VAL
1	AZ	79	LYS
1	AZ	81	LEU
1	AZ	86	ARG
1	AZ	98	ASP
1	AZ	102	THR
1	AZ	115	GLN
1	BA	5	SER
1	BA	11	SER
1	BA	12	THR
1	BA	19	THR
1	BA	21	ARG
1	BA	39	GLU
1	BA	42	SER
1	BA	49	VAL
1	BA	52	SER
1	BA	60	VAL
1	BA	72	THR
1	BA	85	ASN
1	BA	102	THR
1	BB	12	THR
1	BB	14	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	BB	28	ARG
1	BB	52	SER
1	BB	57	LYS
1	BB	60	VAL
1	BB	77	SER
1	BB	79	LYS
1	BB	94	GLN
1	BB	98	ASP
1	BB	121	ASP
1	BC	14	SER
1	BC	29	ASN
1	BC	53	VAL
1	BC	54	LYS
1	BC	58	VAL
1	BC	79	LYS
1	BC	83	ASN
1	BC	86	ARG
1	BC	88	VAL
1	BC	98	ASP
1	BC	102	THR
1	BD	5	SER
1	BD	12	THR
1	BD	19	THR
1	BD	21	ARG
1	BD	28	ARG
1	BD	32	GLU
1	BD	42	SER
1	BD	49	VAL
1	BD	52	SER
1	BD	66	PHE
1	BD	70	ARG
1	BD	72	THR
1	BD	85	ASN
1	BD	96	SER
1	BD	102	THR
1	BE	5	SER
1	BE	12	THR
1	BE	14	SER
1	BE	52	SER
1	BE	54	LYS
1	BE	57	LYS
1	BE	60	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	BE	77	SER
1	BE	119	ASP
1	BE	121	ASP
1	BF	14	SER
1	BF	34	ASN
1	BF	53	VAL
1	BF	54	LYS
1	BF	76	LYS
1	BF	79	LYS
1	BF	86	ARG
1	BF	88	VAL
1	BF	98	ASP
1	BF	102	THR
1	BG	5	SER
1	BG	12	THR
1	BG	39	GLU
1	BG	42	SER
1	BG	49	VAL
1	BG	85	ASN
1	BG	102	THR
1	BH	10	ASP
1	BH	12	THR
1	BH	14	SER
1	BH	52	SER
1	BH	60	VAL
1	BH	61	SER
1	BH	77	SER
1	BH	118	PHE
1	BH	121	ASP
1	BI	14	SER
1	BI	28	ARG
1	BI	29	ASN
1	BI	53	VAL
1	BI	72	THR
1	BI	76	LYS
1	BI	79	LYS
1	BI	86	ARG
1	BI	98	ASP
1	BI	102	THR
1	BI	120	SER
1	BJ	5	SER
1	BJ	12	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	BJ	19	THR
1	BJ	39	GLU
1	BJ	42	SER
1	BJ	49	VAL
1	BJ	72	THR
1	BJ	83	ASN
1	BJ	85	ASN
1	BJ	96	SER
1	BJ	129	GLN
1	BK	5	SER
1	BK	10	ASP
1	BK	14	SER
1	BK	52	SER
1	BK	60	VAL
1	BK	61	SER
1	BK	95	LEU
1	BK	119	ASP
1	BK	121	ASP
1	BL	14	SER
1	BL	30	ASN
1	BL	53	VAL
1	BL	79	LYS
1	BL	81	LEU
1	BL	86	ARG
1	BL	98	ASP
1	BL	102	THR
1	BL	115	GLN
1	BM	5	SER
1	BM	11	SER
1	BM	12	THR
1	BM	19	THR
1	BM	21	ARG
1	BM	39	GLU
1	BM	42	SER
1	BM	49	VAL
1	BM	52	SER
1	BM	60	VAL
1	BM	72	THR
1	BM	85	ASN
1	BM	102	THR
1	BN	12	THR
1	BN	14	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	BN	30	ASN
1	BN	52	SER
1	BN	57	LYS
1	BN	60	VAL
1	BN	77	SER
1	BN	79	LYS
1	BN	94	GLN
1	BN	98	ASP
1	BN	121	ASP
1	BO	14	SER
1	BO	53	VAL
1	BO	54	LYS
1	BO	58	VAL
1	BO	79	LYS
1	BO	83	ASN
1	BO	86	ARG
1	BO	88	VAL
1	BO	98	ASP
1	BO	102	THR
1	BO	129	GLN
1	BP	5	SER
1	BP	12	THR
1	BP	19	THR
1	BP	21	ARG
1	BP	42	SER
1	BP	49	VAL
1	BP	52	SER
1	BP	66	PHE
1	BP	70	ARG
1	BP	72	THR
1	BP	85	ASN
1	BP	96	SER
1	BP	102	THR
1	BQ	5	SER
1	BQ	12	THR
1	BQ	14	SER
1	BQ	52	SER
1	BQ	54	LYS
1	BQ	57	LYS
1	BQ	60	VAL
1	BQ	77	SER
1	BQ	119	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	BQ	121	ASP
1	BR	14	SER
1	BR	25	GLU
1	BR	34	ASN
1	BR	53	VAL
1	BR	54	LYS
1	BR	76	LYS
1	BR	79	LYS
1	BR	86	ARG
1	BR	88	VAL
1	BR	98	ASP
1	BR	102	THR
1	BS	5	SER
1	BS	12	THR
1	BS	39	GLU
1	BS	42	SER
1	BS	49	VAL
1	BS	85	ASN
1	BS	102	THR
1	BT	5	SER
1	BT	10	ASP
1	BT	14	SER
1	BT	52	SER
1	BT	60	VAL
1	BT	61	SER
1	BT	95	LEU
1	BT	119	ASP
1	BT	121	ASP
1	BU	14	SER
1	BU	30	ASN
1	BU	53	VAL
1	BU	79	LYS
1	BU	81	LEU
1	BU	86	ARG
1	BU	98	ASP
1	BU	102	THR
1	BU	115	GLN
1	BV	5	SER
1	BV	11	SER
1	BV	12	THR
1	BV	19	THR
1	BV	21	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	BV	39	GLU
1	BV	42	SER
1	BV	49	VAL
1	BV	52	SER
1	BV	60	VAL
1	BV	85	ASN
1	BV	102	THR
1	BW	10	ASP
1	BW	12	THR
1	BW	14	SER
1	BW	52	SER
1	BW	60	VAL
1	BW	61	SER
1	BW	77	SER
1	BW	118	PHE
1	BW	121	ASP
1	BX	14	SER
1	BX	53	VAL
1	BX	72	THR
1	BX	76	LYS
1	BX	79	LYS
1	BX	86	ARG
1	BX	98	ASP
1	BX	102	THR
1	BX	120	SER
1	BY	5	SER
1	BY	12	THR
1	BY	19	THR
1	BY	39	GLU
1	BY	42	SER
1	BY	49	VAL
1	BY	71	SER
1	BY	72	THR
1	BY	83	ASN
1	BY	85	ASN
1	BY	96	SER
1	BY	98	ASP
1	BZ	5	SER
1	BZ	12	THR
1	BZ	14	SER
1	BZ	24	LYS
1	BZ	38	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	BZ	52	SER
1	BZ	57	LYS
1	BZ	60	VAL
1	BZ	61	SER
1	BZ	63	PRO
1	BZ	85	ASN
1	BZ	95	LEU
1	BZ	119	ASP
1	BZ	121	ASP
1	CA	14	SER
1	CA	30	ASN
1	CA	34	ASN
1	CA	53	VAL
1	CA	79	LYS
1	CA	81	LEU
1	CA	86	ARG
1	CA	96	SER
1	CA	98	ASP
1	CA	102	THR
1	CB	5	SER
1	CB	12	THR
1	CB	19	THR
1	CB	39	GLU
1	CB	42	SER
1	CB	49	VAL
1	CB	83	ASN
1	CB	85	ASN
1	CB	98	ASP
1	CB	102	THR
1	CC	5	SER
1	CC	12	THR
1	CC	14	SER
1	CC	52	SER
1	CC	54	LYS
1	CC	57	LYS
1	CC	60	VAL
1	CC	77	SER
1	CC	119	ASP
1	CC	121	ASP
1	CD	14	SER
1	CD	25	GLU
1	CD	34	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CD	53	VAL
1	CD	54	LYS
1	CD	76	LYS
1	CD	79	LYS
1	CD	86	ARG
1	CD	88	VAL
1	CD	98	ASP
1	CD	102	THR
1	CE	5	SER
1	CE	12	THR
1	CE	39	GLU
1	CE	42	SER
1	CE	49	VAL
1	CE	85	ASN
1	CE	102	THR
1	CF	5	SER
1	CF	10	ASP
1	CF	14	SER
1	CF	52	SER
1	CF	60	VAL
1	CF	61	SER
1	CF	95	LEU
1	CF	119	ASP
1	CF	121	ASP
1	CG	14	SER
1	CG	30	ASN
1	CG	53	VAL
1	CG	79	LYS
1	CG	81	LEU
1	CG	86	ARG
1	CG	98	ASP
1	CG	102	THR
1	CG	115	GLN
1	CH	5	SER
1	CH	11	SER
1	CH	12	THR
1	CH	19	THR
1	CH	21	ARG
1	CH	39	GLU
1	CH	42	SER
1	CH	49	VAL
1	CH	52	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CH	60	VAL
1	CH	85	ASN
1	CH	102	THR
1	CI	10	ASP
1	CI	12	THR
1	CI	14	SER
1	CI	52	SER
1	CI	60	VAL
1	CI	61	SER
1	CI	77	SER
1	CI	118	PHE
1	CI	121	ASP
1	CJ	14	SER
1	CJ	53	VAL
1	CJ	72	THR
1	CJ	76	LYS
1	CJ	79	LYS
1	CJ	86	ARG
1	CJ	98	ASP
1	CJ	102	THR
1	CJ	120	SER
1	CK	5	SER
1	CK	12	THR
1	CK	19	THR
1	CK	39	GLU
1	CK	42	SER
1	CK	49	VAL
1	CK	71	SER
1	CK	72	THR
1	CK	83	ASN
1	CK	85	ASN
1	CK	96	SER
1	CK	98	ASP
1	CL	5	SER
1	CL	12	THR
1	CL	14	SER
1	CL	52	SER
1	CL	54	LYS
1	CL	57	LYS
1	CL	60	VAL
1	CL	77	SER
1	CL	119	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CL	121	ASP
1	CM	14	SER
1	CM	25	GLU
1	CM	34	ASN
1	CM	53	VAL
1	CM	54	LYS
1	CM	76	LYS
1	CM	79	LYS
1	CM	86	ARG
1	CM	88	VAL
1	CM	98	ASP
1	CM	102	THR
1	CN	5	SER
1	CN	12	THR
1	CN	39	GLU
1	CN	42	SER
1	CN	49	VAL
1	CN	85	ASN
1	CN	102	THR
1	CO	5	SER
1	CO	12	THR
1	CO	14	SER
1	CO	38	ASP
1	CO	52	SER
1	CO	57	LYS
1	CO	60	VAL
1	CO	61	SER
1	CO	85	ASN
1	CO	95	LEU
1	CO	119	ASP
1	CO	121	ASP
1	CP	14	SER
1	CP	30	ASN
1	CP	34	ASN
1	CP	53	VAL
1	CP	76	LYS
1	CP	79	LYS
1	CP	81	LEU
1	CP	86	ARG
1	CP	96	SER
1	CP	98	ASP
1	CP	102	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CQ	5	SER
1	CQ	12	THR
1	CQ	19	THR
1	CQ	39	GLU
1	CQ	42	SER
1	CQ	49	VAL
1	CQ	72	THR
1	CQ	83	ASN
1	CQ	85	ASN
1	CQ	98	ASP
1	CQ	102	THR
1	CR	12	THR
1	CR	14	SER
1	CR	28	ARG
1	CR	52	SER
1	CR	57	LYS
1	CR	60	VAL
1	CR	77	SER
1	CR	79	LYS
1	CR	94	GLN
1	CR	98	ASP
1	CR	121	ASP
1	CS	14	SER
1	CS	53	VAL
1	CS	54	LYS
1	CS	58	VAL
1	CS	79	LYS
1	CS	83	ASN
1	CS	86	ARG
1	CS	88	VAL
1	CS	98	ASP
1	CS	102	THR
1	CT	5	SER
1	CT	12	THR
1	CT	19	THR
1	CT	21	ARG
1	CT	28	ARG
1	CT	32	GLU
1	CT	42	SER
1	CT	49	VAL
1	CT	52	SER
1	CT	66	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CT	72	THR
1	CT	85	ASN
1	CT	96	SER
1	CT	102	THR
1	CT	118	PHE
1	CU	10	ASP
1	CU	12	THR
1	CU	14	SER
1	CU	52	SER
1	CU	60	VAL
1	CU	61	SER
1	CU	77	SER
1	CU	118	PHE
1	CU	121	ASP
1	CV	14	SER
1	CV	53	VAL
1	CV	72	THR
1	CV	76	LYS
1	CV	79	LYS
1	CV	86	ARG
1	CV	98	ASP
1	CV	102	THR
1	CV	120	SER
1	CW	5	SER
1	CW	12	THR
1	CW	39	GLU
1	CW	42	SER
1	CW	49	VAL
1	CW	71	SER
1	CW	72	THR
1	CW	83	ASN
1	CW	85	ASN
1	CW	96	SER
1	CW	98	ASP
1	CX	5	SER
1	CX	12	THR
1	CX	14	SER
1	CX	52	SER
1	CX	54	LYS
1	CX	57	LYS
1	CX	60	VAL
1	CX	77	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CX	119	ASP
1	CX	121	ASP
1	CY	14	SER
1	CY	25	GLU
1	CY	34	ASN
1	CY	53	VAL
1	CY	54	LYS
1	CY	76	LYS
1	CY	79	LYS
1	CY	86	ARG
1	CY	88	VAL
1	CY	98	ASP
1	CY	102	THR
1	CZ	5	SER
1	CZ	12	THR
1	CZ	39	GLU
1	CZ	42	SER
1	CZ	49	VAL
1	CZ	85	ASN
1	CZ	102	THR
1	DA	5	SER
1	DA	12	THR
1	DA	14	SER
1	DA	38	ASP
1	DA	52	SER
1	DA	57	LYS
1	DA	60	VAL
1	DA	61	SER
1	DA	63	PRO
1	DA	85	ASN
1	DA	95	LEU
1	DA	119	ASP
1	DA	121	ASP
1	DB	14	SER
1	DB	34	ASN
1	DB	53	VAL
1	DB	76	LYS
1	DB	79	LYS
1	DB	81	LEU
1	DB	86	ARG
1	DB	96	SER
1	DB	98	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	DB	102	THR
1	DC	5	SER
1	DC	12	THR
1	DC	19	THR
1	DC	39	GLU
1	DC	42	SER
1	DC	49	VAL
1	DC	72	THR
1	DC	83	ASN
1	DC	85	ASN
1	DC	98	ASP
1	DC	102	THR
1	DC	115	GLN
1	DD	10	ASP
1	DD	12	THR
1	DD	14	SER
1	DD	31	SER
1	DD	52	SER
1	DD	60	VAL
1	DD	61	SER
1	DD	77	SER
1	DD	118	PHE
1	DD	121	ASP
1	DE	14	SER
1	DE	53	VAL
1	DE	72	THR
1	DE	76	LYS
1	DE	79	LYS
1	DE	86	ARG
1	DE	98	ASP
1	DE	102	THR
1	DE	120	SER
1	DF	5	SER
1	DF	12	THR
1	DF	19	THR
1	DF	39	GLU
1	DF	42	SER
1	DF	49	VAL
1	DF	71	SER
1	DF	72	THR
1	DF	83	ASN
1	DF	85	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	DF	96	SER
1	DF	98	ASP
1	DF	115	GLN
1	DG	12	THR
1	DG	14	SER
1	DG	28	ARG
1	DG	52	SER
1	DG	57	LYS
1	DG	60	VAL
1	DG	77	SER
1	DG	79	LYS
1	DG	94	GLN
1	DG	98	ASP
1	DG	121	ASP
1	DH	14	SER
1	DH	53	VAL
1	DH	54	LYS
1	DH	58	VAL
1	DH	79	LYS
1	DH	83	ASN
1	DH	86	ARG
1	DH	88	VAL
1	DH	98	ASP
1	DH	102	THR
1	DI	5	SER
1	DI	12	THR
1	DI	19	THR
1	DI	21	ARG
1	DI	28	ARG
1	DI	32	GLU
1	DI	42	SER
1	DI	49	VAL
1	DI	52	SER
1	DI	66	PHE
1	DI	72	THR
1	DI	85	ASN
1	DI	96	SER
1	DI	102	THR
1	DJ	5	SER
1	DJ	10	ASP
1	DJ	14	SER
1	DJ	52	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	DJ	60	VAL
1	DJ	61	SER
1	DJ	95	LEU
1	DJ	119	ASP
1	DJ	121	ASP
1	DK	14	SER
1	DK	30	ASN
1	DK	53	VAL
1	DK	79	LYS
1	DK	81	LEU
1	DK	86	ARG
1	DK	98	ASP
1	DK	102	THR
1	DK	115	GLN
1	DL	5	SER
1	DL	11	SER
1	DL	12	THR
1	DL	19	THR
1	DL	21	ARG
1	DL	39	GLU
1	DL	42	SER
1	DL	49	VAL
1	DL	52	SER
1	DL	60	VAL
1	DL	85	ASN
1	DL	102	THR
1	DM	5	SER
1	DM	12	THR
1	DM	14	SER
1	DM	24	LYS
1	DM	38	ASP
1	DM	52	SER
1	DM	57	LYS
1	DM	60	VAL
1	DM	61	SER
1	DM	63	PRO
1	DM	85	ASN
1	DM	95	LEU
1	DM	119	ASP
1	DM	121	ASP
1	DN	14	SER
1	DN	29	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	DN	34	ASN
1	DN	53	VAL
1	DN	79	LYS
1	DN	81	LEU
1	DN	86	ARG
1	DN	96	SER
1	DN	98	ASP
1	DN	102	THR
1	DO	5	SER
1	DO	12	THR
1	DO	19	THR
1	DO	39	GLU
1	DO	42	SER
1	DO	49	VAL
1	DO	83	ASN
1	DO	85	ASN
1	DO	98	ASP
1	DO	102	THR
1	DO	115	GLN
1	DP	12	THR
1	DP	14	SER
1	DP	28	ARG
1	DP	30	ASN
1	DP	52	SER
1	DP	57	LYS
1	DP	60	VAL
1	DP	77	SER
1	DP	79	LYS
1	DP	94	GLN
1	DP	98	ASP
1	DP	121	ASP
1	DQ	14	SER
1	DQ	29	ASN
1	DQ	53	VAL
1	DQ	54	LYS
1	DQ	58	VAL
1	DQ	79	LYS
1	DQ	83	ASN
1	DQ	86	ARG
1	DQ	88	VAL
1	DQ	98	ASP
1	DQ	102	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	DQ	129	GLN
1	DR	5	SER
1	DR	12	THR
1	DR	19	THR
1	DR	21	ARG
1	DR	28	ARG
1	DR	32	GLU
1	DR	42	SER
1	DR	49	VAL
1	DR	52	SER
1	DR	66	PHE
1	DR	72	THR
1	DR	85	ASN
1	DR	96	SER
1	DR	102	THR
1	DR	118	PHE
1	DS	10	ASP
1	DS	12	THR
1	DS	14	SER
1	DS	52	SER
1	DS	60	VAL
1	DS	61	SER
1	DS	77	SER
1	DS	118	PHE
1	DS	121	ASP
1	DT	14	SER
1	DT	29	ASN
1	DT	30	ASN
1	DT	53	VAL
1	DT	72	THR
1	DT	76	LYS
1	DT	79	LYS
1	DT	86	ARG
1	DT	98	ASP
1	DT	102	THR
1	DU	5	SER
1	DU	12	THR
1	DU	39	GLU
1	DU	42	SER
1	DU	49	VAL
1	DU	72	THR
1	DU	83	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	DU	85	ASN
1	DU	96	SER
1	DV	5	SER
1	DV	12	THR
1	DV	14	SER
1	DV	24	LYS
1	DV	38	ASP
1	DV	52	SER
1	DV	57	LYS
1	DV	60	VAL
1	DV	61	SER
1	DV	63	PRO
1	DV	85	ASN
1	DV	95	LEU
1	DV	119	ASP
1	DV	121	ASP
1	DW	14	SER
1	DW	29	ASN
1	DW	34	ASN
1	DW	53	VAL
1	DW	79	LYS
1	DW	81	LEU
1	DW	86	ARG
1	DW	96	SER
1	DW	98	ASP
1	DW	102	THR
1	DX	5	SER
1	DX	12	THR
1	DX	19	THR
1	DX	39	GLU
1	DX	42	SER
1	DX	49	VAL
1	DX	83	ASN
1	DX	85	ASN
1	DX	98	ASP
1	DX	102	THR
1	DX	115	GLN
1	DY	5	SER
1	DY	12	THR
1	DY	14	SER
1	DY	39	GLU
1	DY	52	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	DY	54	LYS
1	DY	57	LYS
1	DY	60	VAL
1	DY	77	SER
1	DY	119	ASP
1	DY	124	ASP
1	DZ	14	SER
1	DZ	34	ASN
1	DZ	53	VAL
1	DZ	54	LYS
1	DZ	76	LYS
1	DZ	79	LYS
1	DZ	86	ARG
1	DZ	98	ASP
1	DZ	102	THR
1	DZ	116	LEU
1	EA	5	SER
1	EA	12	THR
1	EA	21	ARG
1	EA	39	GLU
1	EA	42	SER
1	EA	49	VAL
1	EA	59	SER
1	EA	85	ASN
1	EA	94	GLN
1	EA	102	THR
1	EA	123	SER
1	EB	5	SER
1	EB	10	ASP
1	EB	14	SER
1	EB	24	LYS
1	EB	52	SER
1	EB	60	VAL
1	EB	61	SER
1	EB	95	LEU
1	EB	124	ASP
1	EC	14	SER
1	EC	30	ASN
1	EC	34	ASN
1	EC	53	VAL
1	EC	76	LYS
1	EC	79	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	EC	81	LEU
1	EC	86	ARG
1	EC	98	ASP
1	EC	102	THR
1	EC	107	THR
1	EC	116	LEU
1	ED	5	SER
1	ED	11	SER
1	ED	12	THR
1	ED	19	THR
1	ED	21	ARG
1	ED	39	GLU
1	ED	42	SER
1	ED	49	VAL
1	ED	52	SER
1	ED	60	VAL
1	ED	72	THR
1	ED	85	ASN
1	ED	96	SER
1	ED	102	THR
1	EE	10	ASP
1	EE	12	THR
1	EE	14	SER
1	EE	52	SER
1	EE	60	VAL
1	EE	61	SER
1	EE	77	SER
1	EE	79	LYS
1	EE	118	PHE
1	EE	119	ASP
1	EE	124	ASP
1	EF	14	SER
1	EF	28	ARG
1	EF	29	ASN
1	EF	53	VAL
1	EF	72	THR
1	EF	76	LYS
1	EF	79	LYS
1	EF	86	ARG
1	EF	98	ASP
1	EF	102	THR
1	EF	116	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	EG	5	SER
1	EG	12	THR
1	EG	19	THR
1	EG	39	GLU
1	EG	42	SER
1	EG	49	VAL
1	EG	72	THR
1	EG	83	ASN
1	EG	85	ASN
1	EG	98	ASP
1	EG	115	GLN
1	EG	123	SER
1	EH	5	SER
1	EH	12	THR
1	EH	14	SER
1	EH	52	SER
1	EH	57	LYS
1	EH	60	VAL
1	EH	61	SER
1	EH	63	PRO
1	EH	79	LYS
1	EH	95	LEU
1	EH	117	LEU
1	EH	119	ASP
1	EH	124	ASP
1	EI	14	SER
1	EI	29	ASN
1	EI	34	ASN
1	EI	53	VAL
1	EI	79	LYS
1	EI	81	LEU
1	EI	86	ARG
1	EI	96	SER
1	EI	98	ASP
1	EI	102	THR
1	EI	116	LEU
1	EJ	5	SER
1	EJ	12	THR
1	EJ	19	THR
1	EJ	39	GLU
1	EJ	42	SER
1	EJ	49	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	EJ	83	ASN
1	EJ	85	ASN
1	EJ	96	SER
1	EJ	98	ASP
1	EJ	102	THR
1	EK	5	SER
1	EK	12	THR
1	EK	14	SER
1	EK	39	GLU
1	EK	52	SER
1	EK	54	LYS
1	EK	57	LYS
1	EK	60	VAL
1	EK	77	SER
1	EK	119	ASP
1	EK	124	ASP
1	EL	14	SER
1	EL	34	ASN
1	EL	53	VAL
1	EL	54	LYS
1	EL	76	LYS
1	EL	79	LYS
1	EL	86	ARG
1	EL	98	ASP
1	EL	102	THR
1	EL	116	LEU
1	EM	5	SER
1	EM	12	THR
1	EM	21	ARG
1	EM	39	GLU
1	EM	42	SER
1	EM	49	VAL
1	EM	59	SER
1	EM	85	ASN
1	EM	94	GLN
1	EM	102	THR
1	EM	123	SER
1	EN	10	ASP
1	EN	12	THR
1	EN	14	SER
1	EN	52	SER
1	EN	60	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	EN	61	SER
1	EN	77	SER
1	EN	79	LYS
1	EN	118	PHE
1	EN	119	ASP
1	EN	124	ASP
1	EO	14	SER
1	EO	29	ASN
1	EO	30	ASN
1	EO	53	VAL
1	EO	72	THR
1	EO	76	LYS
1	EO	79	LYS
1	EO	86	ARG
1	EO	98	ASP
1	EO	102	THR
1	EO	116	LEU
1	EO	120	SER
1	EP	5	SER
1	EP	12	THR
1	EP	19	THR
1	EP	39	GLU
1	EP	42	SER
1	EP	49	VAL
1	EP	72	THR
1	EP	83	ASN
1	EP	85	ASN
1	EP	98	ASP
1	EP	123	SER
1	EQ	5	SER
1	EQ	10	ASP
1	EQ	14	SER
1	EQ	24	LYS
1	EQ	28	ARG
1	EQ	52	SER
1	EQ	60	VAL
1	EQ	61	SER
1	EQ	95	LEU
1	EQ	124	ASP
1	ER	14	SER
1	ER	30	ASN
1	ER	34	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	ER	53	VAL
1	ER	76	LYS
1	ER	79	LYS
1	ER	81	LEU
1	ER	86	ARG
1	ER	98	ASP
1	ER	102	THR
1	ER	107	THR
1	ER	116	LEU
1	ES	5	SER
1	ES	11	SER
1	ES	12	THR
1	ES	19	THR
1	ES	21	ARG
1	ES	39	GLU
1	ES	42	SER
1	ES	49	VAL
1	ES	52	SER
1	ES	60	VAL
1	ES	72	THR
1	ES	85	ASN
1	ES	96	SER
1	ES	102	THR
1	ET	12	THR
1	ET	14	SER
1	ET	30	ASN
1	ET	52	SER
1	ET	57	LYS
1	ET	60	VAL
1	ET	77	SER
1	ET	98	ASP
1	ET	118	PHE
1	ET	124	ASP
1	EU	14	SER
1	EU	29	ASN
1	EU	53	VAL
1	EU	54	LYS
1	EU	58	VAL
1	EU	79	LYS
1	EU	83	ASN
1	EU	86	ARG
1	EU	98	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	EU	102	THR
1	EU	116	LEU
1	EV	5	SER
1	EV	12	THR
1	EV	19	THR
1	EV	21	ARG
1	EV	42	SER
1	EV	49	VAL
1	EV	52	SER
1	EV	66	PHE
1	EV	72	THR
1	EV	85	ASN
1	EV	102	THR
1	EV	115	GLN
1	EW	5	SER
1	EW	12	THR
1	EW	14	SER
1	EW	39	GLU
1	EW	52	SER
1	EW	54	LYS
1	EW	57	LYS
1	EW	60	VAL
1	EW	77	SER
1	EW	119	ASP
1	EW	124	ASP
1	EX	14	SER
1	EX	34	ASN
1	EX	53	VAL
1	EX	54	LYS
1	EX	76	LYS
1	EX	79	LYS
1	EX	86	ARG
1	EX	98	ASP
1	EX	102	THR
1	EX	116	LEU
1	EY	5	SER
1	EY	12	THR
1	EY	21	ARG
1	EY	39	GLU
1	EY	42	SER
1	EY	49	VAL
1	EY	59	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	EY	83	ASN
1	EY	85	ASN
1	EY	94	GLN
1	EY	102	THR
1	EY	123	SER
1	EZ	10	ASP
1	EZ	12	THR
1	EZ	14	SER
1	EZ	52	SER
1	EZ	54	LYS
1	EZ	60	VAL
1	EZ	61	SER
1	EZ	77	SER
1	EZ	79	LYS
1	EZ	118	PHE
1	EZ	119	ASP
1	EZ	124	ASP
1	FA	14	SER
1	FA	29	ASN
1	FA	53	VAL
1	FA	72	THR
1	FA	76	LYS
1	FA	79	LYS
1	FA	86	ARG
1	FA	98	ASP
1	FA	102	THR
1	FA	116	LEU
1	FB	5	SER
1	FB	12	THR
1	FB	19	THR
1	FB	39	GLU
1	FB	42	SER
1	FB	49	VAL
1	FB	72	THR
1	FB	83	ASN
1	FB	85	ASN
1	FB	98	ASP
1	FB	115	GLN
1	FB	123	SER
1	FC	5	SER
1	FC	10	ASP
1	FC	14	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	FC	24	LYS
1	FC	52	SER
1	FC	60	VAL
1	FC	61	SER
1	FC	95	LEU
1	FC	124	ASP
1	FD	14	SER
1	FD	30	ASN
1	FD	34	ASN
1	FD	53	VAL
1	FD	76	LYS
1	FD	79	LYS
1	FD	81	LEU
1	FD	86	ARG
1	FD	98	ASP
1	FD	102	THR
1	FD	107	THR
1	FD	116	LEU
1	FE	5	SER
1	FE	11	SER
1	FE	12	THR
1	FE	19	THR
1	FE	21	ARG
1	FE	39	GLU
1	FE	42	SER
1	FE	49	VAL
1	FE	52	SER
1	FE	60	VAL
1	FE	72	THR
1	FE	85	ASN
1	FE	96	SER
1	FE	102	THR
1	FF	5	SER
1	FF	12	THR
1	FF	14	SER
1	FF	39	GLU
1	FF	52	SER
1	FF	54	LYS
1	FF	57	LYS
1	FF	60	VAL
1	FF	77	SER
1	FF	119	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	FF	124	ASP
1	FG	14	SER
1	FG	34	ASN
1	FG	53	VAL
1	FG	54	LYS
1	FG	76	LYS
1	FG	79	LYS
1	FG	86	ARG
1	FG	98	ASP
1	FG	102	THR
1	FG	116	LEU
1	FH	5	SER
1	FH	12	THR
1	FH	21	ARG
1	FH	39	GLU
1	FH	42	SER
1	FH	49	VAL
1	FH	59	SER
1	FH	83	ASN
1	FH	85	ASN
1	FH	94	GLN
1	FH	102	THR
1	FH	123	SER
1	FI	12	THR
1	FI	14	SER
1	FI	28	ARG
1	FI	30	ASN
1	FI	52	SER
1	FI	57	LYS
1	FI	60	VAL
1	FI	77	SER
1	FI	98	ASP
1	FI	118	PHE
1	FI	124	ASP
1	FJ	14	SER
1	FJ	29	ASN
1	FJ	53	VAL
1	FJ	54	LYS
1	FJ	58	VAL
1	FJ	79	LYS
1	FJ	83	ASN
1	FJ	86	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	FJ	98	ASP
1	FJ	102	THR
1	FJ	116	LEU
1	FK	5	SER
1	FK	12	THR
1	FK	19	THR
1	FK	21	ARG
1	FK	28	ARG
1	FK	42	SER
1	FK	49	VAL
1	FK	52	SER
1	FK	66	PHE
1	FK	70	ARG
1	FK	72	THR
1	FK	85	ASN
1	FK	96	SER
1	FK	102	THR
1	FK	115	GLN
1	FL	5	SER
1	FL	12	THR
1	FL	14	SER
1	FL	52	SER
1	FL	57	LYS
1	FL	60	VAL
1	FL	61	SER
1	FL	63	PRO
1	FL	79	LYS
1	FL	95	LEU
1	FL	117	LEU
1	FL	119	ASP
1	FL	124	ASP
1	FM	14	SER
1	FM	29	ASN
1	FM	34	ASN
1	FM	53	VAL
1	FM	79	LYS
1	FM	81	LEU
1	FM	86	ARG
1	FM	96	SER
1	FM	98	ASP
1	FM	102	THR
1	FM	116	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	FN	5	SER
1	FN	12	THR
1	FN	19	THR
1	FN	39	GLU
1	FN	42	SER
1	FN	49	VAL
1	FN	83	ASN
1	FN	85	ASN
1	FN	96	SER
1	FN	98	ASP
1	FN	102	THR
1	FO	5	SER
1	FO	10	ASP
1	FO	14	SER
1	FO	24	LYS
1	FO	52	SER
1	FO	60	VAL
1	FO	61	SER
1	FO	95	LEU
1	FO	124	ASP
1	FP	14	SER
1	FP	30	ASN
1	FP	34	ASN
1	FP	53	VAL
1	FP	76	LYS
1	FP	79	LYS
1	FP	81	LEU
1	FP	86	ARG
1	FP	98	ASP
1	FP	102	THR
1	FP	107	THR
1	FP	116	LEU
1	FQ	5	SER
1	FQ	11	SER
1	FQ	12	THR
1	FQ	19	THR
1	FQ	21	ARG
1	FQ	39	GLU
1	FQ	42	SER
1	FQ	49	VAL
1	FQ	52	SER
1	FQ	60	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	FQ	72	THR
1	FQ	85	ASN
1	FQ	96	SER
1	FQ	102	THR
1	FQ	116	LEU
1	FR	5	SER
1	FR	12	THR
1	FR	14	SER
1	FR	39	GLU
1	FR	52	SER
1	FR	54	LYS
1	FR	57	LYS
1	FR	60	VAL
1	FR	77	SER
1	FR	119	ASP
1	FR	124	ASP
1	FS	14	SER
1	FS	34	ASN
1	FS	53	VAL
1	FS	54	LYS
1	FS	76	LYS
1	FS	79	LYS
1	FS	86	ARG
1	FS	98	ASP
1	FS	102	THR
1	FS	116	LEU
1	FT	5	SER
1	FT	12	THR
1	FT	21	ARG
1	FT	39	GLU
1	FT	42	SER
1	FT	49	VAL
1	FT	59	SER
1	FT	83	ASN
1	FT	85	ASN
1	FT	102	THR
1	FT	123	SER
1	FU	12	THR
1	FU	14	SER
1	FU	28	ARG
1	FU	52	SER
1	FU	57	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	FU	60	VAL
1	FU	77	SER
1	FU	98	ASP
1	FU	118	PHE
1	FU	124	ASP
1	FV	14	SER
1	FV	29	ASN
1	FV	53	VAL
1	FV	54	LYS
1	FV	58	VAL
1	FV	79	LYS
1	FV	83	ASN
1	FV	86	ARG
1	FV	98	ASP
1	FV	102	THR
1	FV	116	LEU
1	FW	5	SER
1	FW	12	THR
1	FW	19	THR
1	FW	21	ARG
1	FW	28	ARG
1	FW	42	SER
1	FW	49	VAL
1	FW	52	SER
1	FW	66	PHE
1	FW	72	THR
1	FW	85	ASN
1	FW	96	SER
1	FW	102	THR
1	FW	115	GLN
1	FX	5	SER
1	FX	10	ASP
1	FX	14	SER
1	FX	24	LYS
1	FX	52	SER
1	FX	60	VAL
1	FX	61	SER
1	FX	95	LEU
1	FX	124	ASP
1	FY	14	SER
1	FY	30	ASN
1	FY	34	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	FY	53	VAL
1	FY	76	LYS
1	FY	79	LYS
1	FY	81	LEU
1	FY	86	ARG
1	FY	98	ASP
1	FY	102	THR
1	FY	107	THR
1	FY	116	LEU
1	FZ	5	SER
1	FZ	11	SER
1	FZ	12	THR
1	FZ	19	THR
1	FZ	21	ARG
1	FZ	39	GLU
1	FZ	42	SER
1	FZ	49	VAL
1	FZ	52	SER
1	FZ	60	VAL
1	FZ	72	THR
1	FZ	85	ASN
1	FZ	96	SER
1	FZ	102	THR
1	GA	5	SER
1	GA	12	THR
1	GA	14	SER
1	GA	52	SER
1	GA	57	LYS
1	GA	60	VAL
1	GA	61	SER
1	GA	79	LYS
1	GA	95	LEU
1	GA	117	LEU
1	GA	119	ASP
1	GA	124	ASP
1	GB	14	SER
1	GB	29	ASN
1	GB	34	ASN
1	GB	53	VAL
1	GB	79	LYS
1	GB	81	LEU
1	GB	86	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	GB	96	SER
1	GB	98	ASP
1	GB	102	THR
1	GB	116	LEU
1	GC	5	SER
1	GC	12	THR
1	GC	19	THR
1	GC	39	GLU
1	GC	42	SER
1	GC	49	VAL
1	GC	83	ASN
1	GC	85	ASN
1	GC	96	SER
1	GC	98	ASP
1	GC	102	THR
1	GD	10	ASP
1	GD	12	THR
1	GD	14	SER
1	GD	52	SER
1	GD	60	VAL
1	GD	61	SER
1	GD	77	SER
1	GD	79	LYS
1	GD	118	PHE
1	GD	119	ASP
1	GD	124	ASP
1	GE	14	SER
1	GE	29	ASN
1	GE	53	VAL
1	GE	72	THR
1	GE	76	LYS
1	GE	79	LYS
1	GE	86	ARG
1	GE	98	ASP
1	GE	102	THR
1	GE	116	LEU
1	GF	5	SER
1	GF	12	THR
1	GF	19	THR
1	GF	39	GLU
1	GF	42	SER
1	GF	49	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	GF	72	THR
1	GF	83	ASN
1	GF	85	ASN
1	GF	98	ASP
1	GF	115	GLN
1	GF	123	SER
1	GG	12	THR
1	GG	14	SER
1	GG	28	ARG
1	GG	31	SER
1	GG	52	SER
1	GG	57	LYS
1	GG	60	VAL
1	GG	77	SER
1	GG	98	ASP
1	GG	118	PHE
1	GG	124	ASP
1	GH	14	SER
1	GH	53	VAL
1	GH	54	LYS
1	GH	79	LYS
1	GH	83	ASN
1	GH	86	ARG
1	GH	98	ASP
1	GH	102	THR
1	GH	116	LEU
1	GI	5	SER
1	GI	12	THR
1	GI	19	THR
1	GI	21	ARG
1	GI	28	ARG
1	GI	42	SER
1	GI	49	VAL
1	GI	52	SER
1	GI	66	PHE
1	GI	72	THR
1	GI	85	ASN
1	GI	96	SER
1	GI	102	THR
1	GI	118	PHE
1	GJ	5	SER
1	GJ	10	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	GJ	14	SER
1	GJ	24	LYS
1	GJ	52	SER
1	GJ	60	VAL
1	GJ	61	SER
1	GJ	95	LEU
1	GJ	124	ASP
1	GK	14	SER
1	GK	30	ASN
1	GK	53	VAL
1	GK	76	LYS
1	GK	79	LYS
1	GK	81	LEU
1	GK	86	ARG
1	GK	98	ASP
1	GK	102	THR
1	GK	107	THR
1	GK	116	LEU
1	GL	5	SER
1	GL	11	SER
1	GL	12	THR
1	GL	19	THR
1	GL	21	ARG
1	GL	39	GLU
1	GL	42	SER
1	GL	49	VAL
1	GL	52	SER
1	GL	60	VAL
1	GL	72	THR
1	GL	85	ASN
1	GL	96	SER
1	GL	102	THR
1	GM	5	SER
1	GM	12	THR
1	GM	14	SER
1	GM	52	SER
1	GM	57	LYS
1	GM	60	VAL
1	GM	61	SER
1	GM	79	LYS
1	GM	95	LEU
1	GM	117	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	GM	119	ASP
1	GM	124	ASP
1	GN	14	SER
1	GN	34	ASN
1	GN	53	VAL
1	GN	79	LYS
1	GN	81	LEU
1	GN	86	ARG
1	GN	96	SER
1	GN	98	ASP
1	GN	102	THR
1	GN	116	LEU
1	GO	5	SER
1	GO	12	THR
1	GO	19	THR
1	GO	39	GLU
1	GO	42	SER
1	GO	49	VAL
1	GO	66	PHE
1	GO	83	ASN
1	GO	85	ASN
1	GO	96	SER
1	GO	98	ASP
1	GO	102	THR
1	GP	12	THR
1	GP	14	SER
1	GP	28	ARG
1	GP	52	SER
1	GP	57	LYS
1	GP	60	VAL
1	GP	77	SER
1	GP	98	ASP
1	GP	118	PHE
1	GP	124	ASP
1	GQ	14	SER
1	GQ	29	ASN
1	GQ	53	VAL
1	GQ	54	LYS
1	GQ	58	VAL
1	GQ	79	LYS
1	GQ	83	ASN
1	GQ	86	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	GQ	98	ASP
1	GQ	102	THR
1	GQ	116	LEU
1	GR	5	SER
1	GR	12	THR
1	GR	19	THR
1	GR	21	ARG
1	GR	28	ARG
1	GR	42	SER
1	GR	49	VAL
1	GR	52	SER
1	GR	66	PHE
1	GR	70	ARG
1	GR	72	THR
1	GR	85	ASN
1	GR	102	THR
1	GR	115	GLN
1	GS	10	ASP
1	GS	12	THR
1	GS	14	SER
1	GS	52	SER
1	GS	60	VAL
1	GS	61	SER
1	GS	77	SER
1	GS	79	LYS
1	GS	118	PHE
1	GS	119	ASP
1	GS	124	ASP
1	GT	14	SER
1	GT	29	ASN
1	GT	30	ASN
1	GT	53	VAL
1	GT	72	THR
1	GT	76	LYS
1	GT	79	LYS
1	GT	86	ARG
1	GT	98	ASP
1	GT	102	THR
1	GT	116	LEU
1	GT	120	SER
1	GU	5	SER
1	GU	12	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	GU	19	THR
1	GU	39	GLU
1	GU	42	SER
1	GU	49	VAL
1	GU	72	THR
1	GU	83	ASN
1	GU	85	ASN
1	GU	98	ASP
1	GU	115	GLN
1	GU	123	SER
1	GV	5	SER
1	GV	12	THR
1	GV	14	SER
1	GV	52	SER
1	GV	57	LYS
1	GV	60	VAL
1	GV	77	SER
1	GV	119	ASP
1	GV	124	ASP
1	GW	14	SER
1	GW	34	ASN
1	GW	53	VAL
1	GW	54	LYS
1	GW	76	LYS
1	GW	79	LYS
1	GW	86	ARG
1	GW	98	ASP
1	GW	102	THR
1	GW	116	LEU
1	GX	5	SER
1	GX	12	THR
1	GX	21	ARG
1	GX	39	GLU
1	GX	42	SER
1	GX	49	VAL
1	GX	59	SER
1	GX	85	ASN
1	GX	102	THR
1	GX	123	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (104) such sidechains are listed below:



Mol	Chain	Res	Type
1	AA	129	GLN
1	AB	111	ASN
1	AB	115	GLN
1	AC	115	GLN
1	AF	115	GLN
1	AI	115	GLN
1	AI	129	GLN
1	AJ	129	GLN
1	AL	83	ASN
1	AL	85	ASN
1	AL	115	GLN
1	AM	129	GLN
1	AN	29	ASN
1	AN	30	ASN
1	AN	115	GLN
1	AO	83	ASN
1	AQ	44	GLN
1	AU	115	GLN
1	AU	129	GLN
1	AV	129	GLN
1	AW	111	ASN
1	AW	115	GLN
1	AX	115	GLN
1	AY	129	GLN
1	AZ	29	ASN
1	AZ	115	GLN
1	BA	83	ASN
1	BC	29	ASN
1	BD	115	GLN
1	BD	129	GLN
1	BF	44	GLN
1	BJ	115	GLN
1	BJ	129	GLN
1	BL	29	ASN
1	BL	115	GLN
1	BP	115	GLN
1	BP	129	GLN
1	BU	29	ASN
1	BU	115	GLN
1	BV	129	GLN
1	BY	115	GLN
1	BZ	129	GLN
1	CA	29	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	111	ASN
1	CA	115	GLN
1	CB	115	GLN
1	CG	29	ASN
1	CG	115	GLN
1	CH	83	ASN
1	CK	115	GLN
1	CO	129	GLN
1	CQ	115	GLN
1	CT	115	GLN
1	CW	115	GLN
1	DA	129	GLN
1	DC	83	ASN
1	DC	85	ASN
1	DI	115	GLN
1	DK	29	ASN
1	DK	115	GLN
1	DL	83	ASN
1	DM	129	GLN
1	DN	111	ASN
1	DN	115	GLN
1	DO	83	ASN
1	DO	85	ASN
1	DQ	29	ASN
1	DR	115	GLN
1	DU	115	GLN
1	DV	129	GLN
1	DW	111	ASN
1	DW	115	GLN
1	DZ	44	GLN
1	EH	129	GLN
1	EL	44	GLN
1	EP	115	GLN
1	ES	83	ASN
1	EU	29	ASN
1	EV	129	GLN
1	EX	44	GLN
1	FG	44	GLN
1	FJ	29	ASN
1	FK	129	GLN
1	FL	129	GLN
1	FP	29	ASN

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Mol	Chain	Res	Type
1	FP	30	ASN
1	FS	44	GLN
1	FT	83	ASN
1	FT	85	ASN
1	FT	115	GLN
1	FV	29	ASN
1	FW	129	GLN
1	FY	29	ASN
1	FY	30	ASN
1	GA	129	GLN
1	GI	115	GLN
1	GK	29	ASN
1	GL	83	ASN
1	GL	129	GLN
1	GM	129	GLN
1	GQ	29	ASN
1	GT	29	ASN
1	GU	129	GLN
1	GW	44	GLN

### 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

There are no chain breaks in this entry.

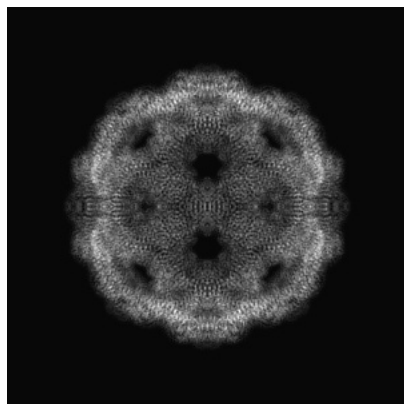
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-52004. These allow visual inspection of the internal detail of the map and identification of artifacts.

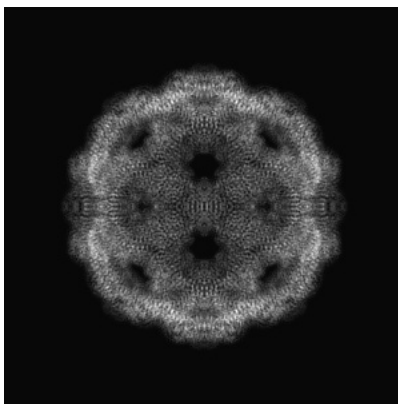
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

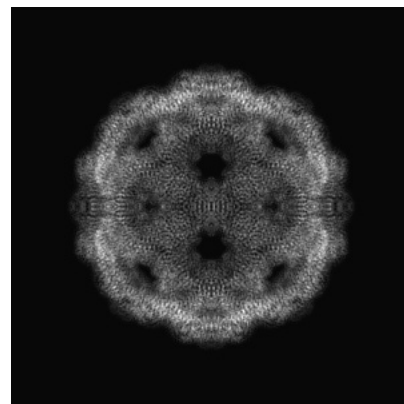
#### 6.1.1 Primary map



X

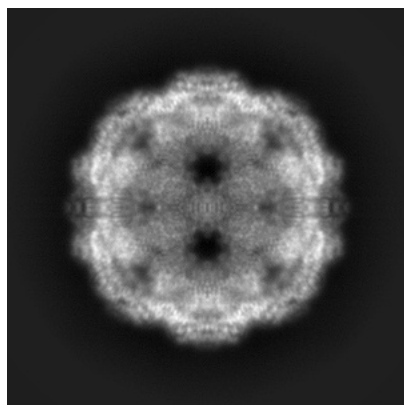


Y

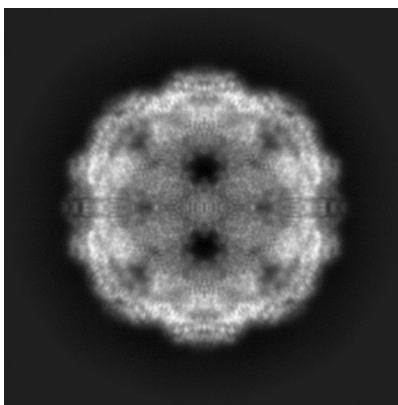


Z

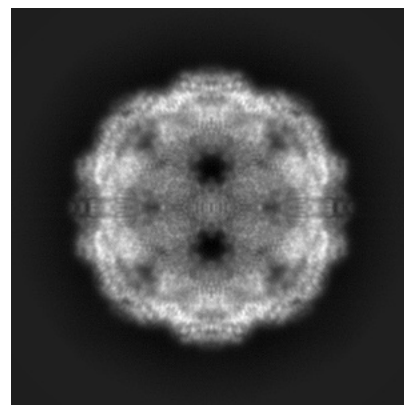
#### 6.1.2 Raw map



X



Y

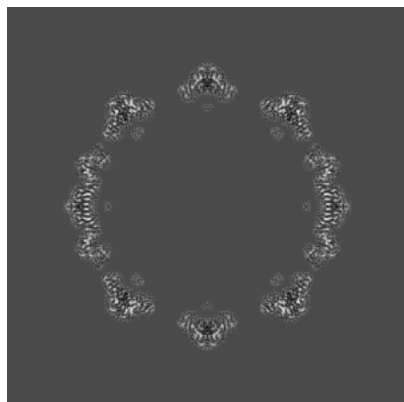


Z

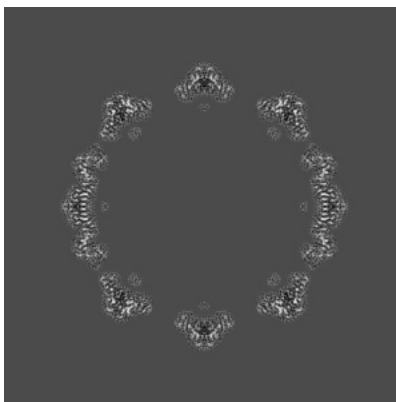
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

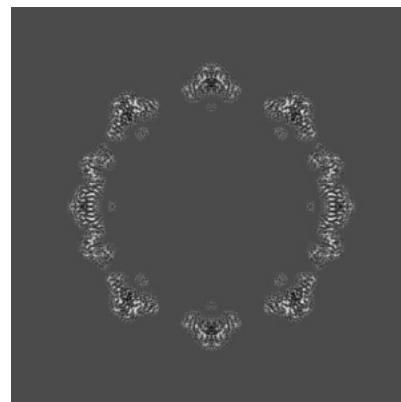
### 6.2.1 Primary map



X Index: 256

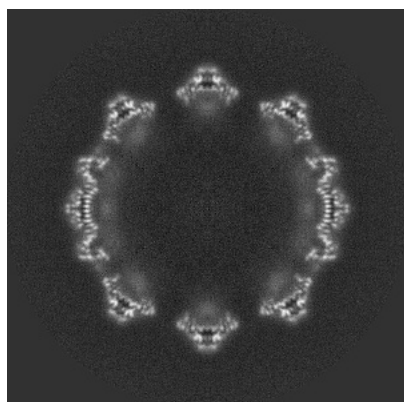


Y Index: 256

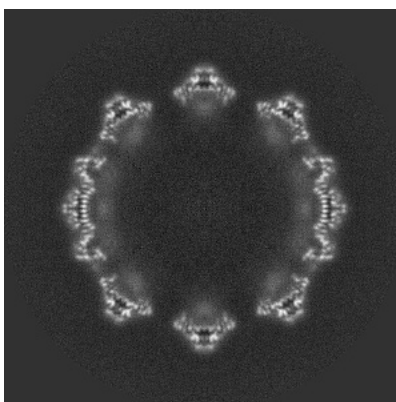


Z Index: 256

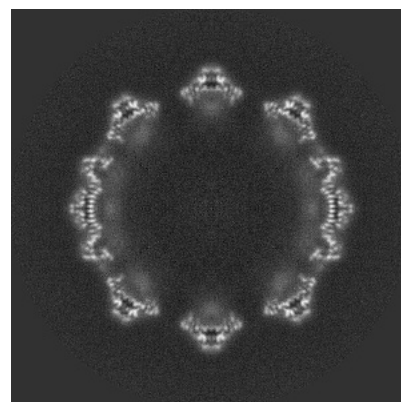
### 6.2.2 Raw map



X Index: 256



Y Index: 256

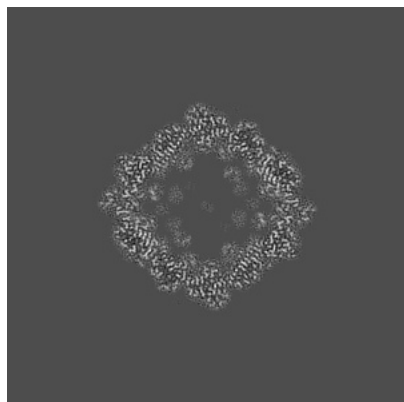


Z Index: 256

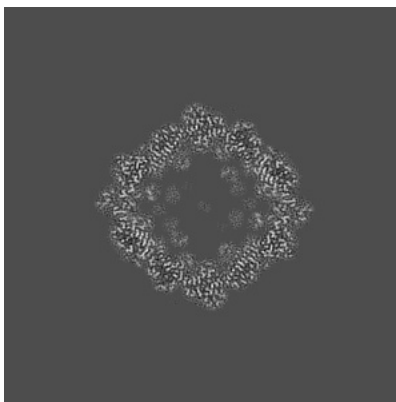
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

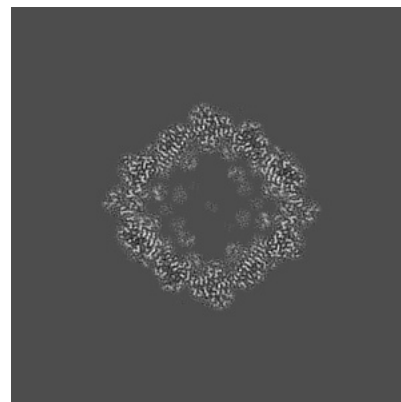
### 6.3.1 Primary map



X Index: 381

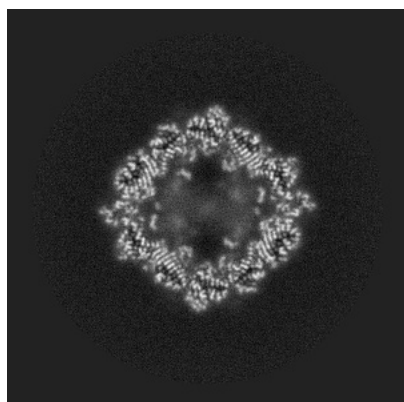


Y Index: 381

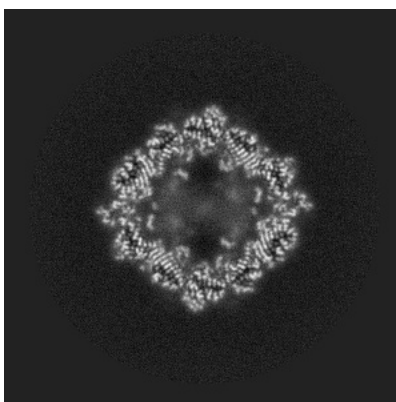


Z Index: 381

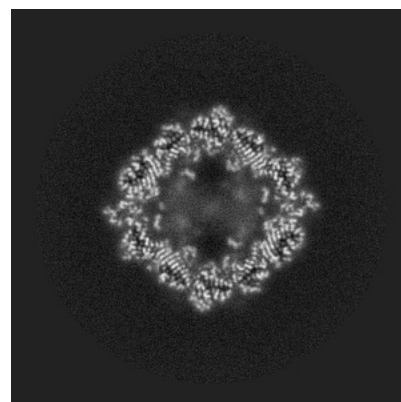
### 6.3.2 Raw map



X Index: 130



Y Index: 130

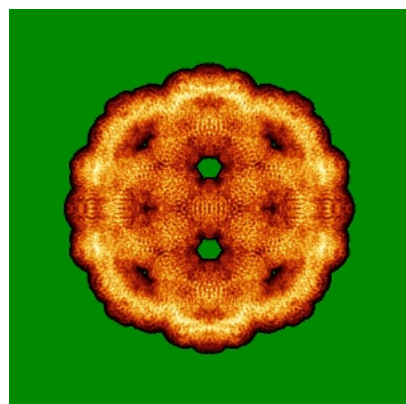


Z Index: 130

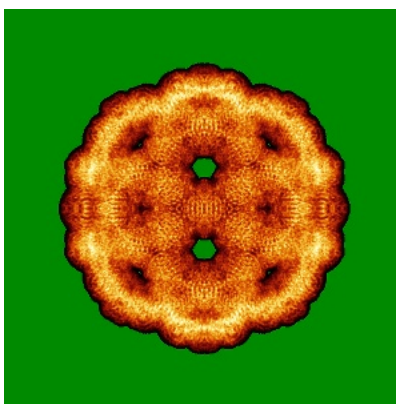
The images above show the largest variance slices of the map in three orthogonal directions.

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

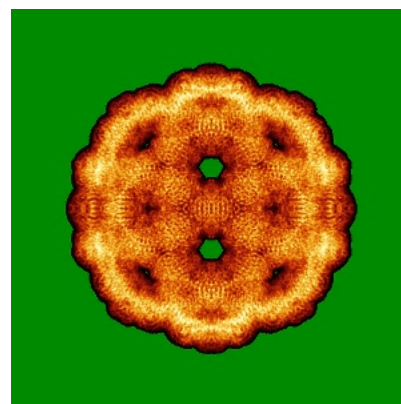
### 6.4.1 Primary map



X

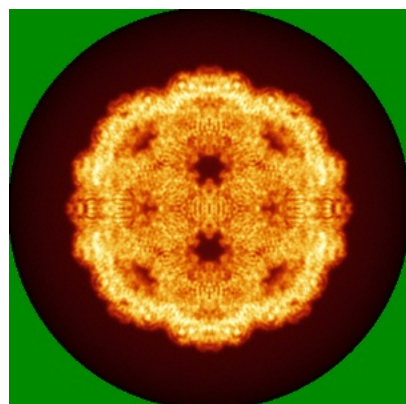


Y

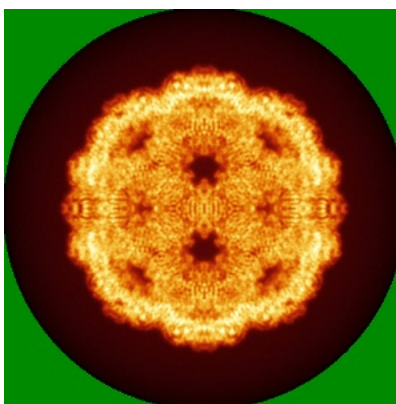


Z

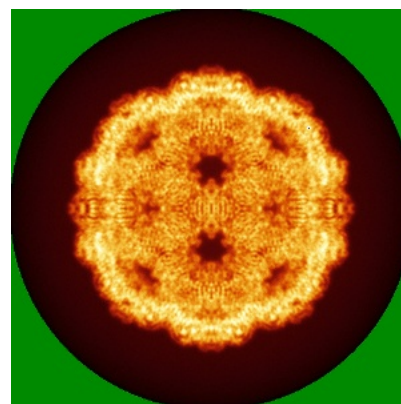
### 6.4.2 Raw map



X



Y



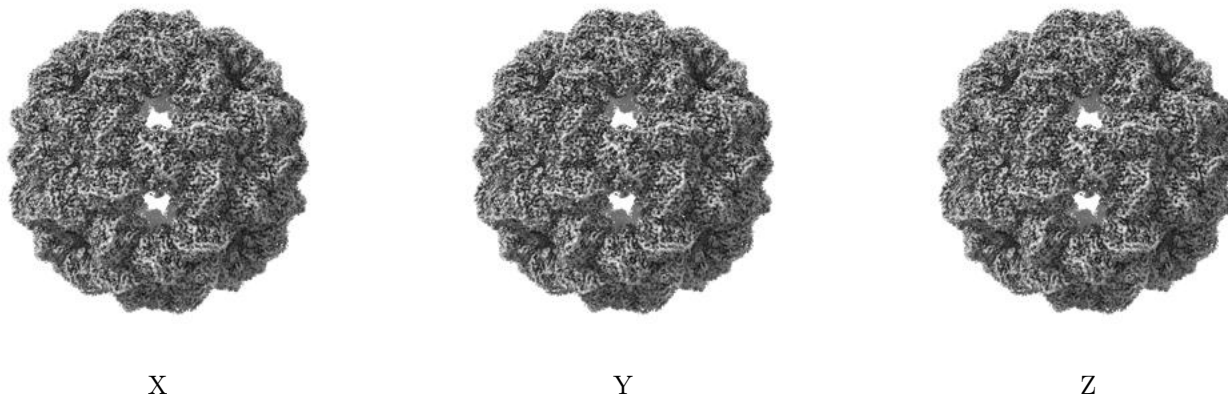
Z

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.



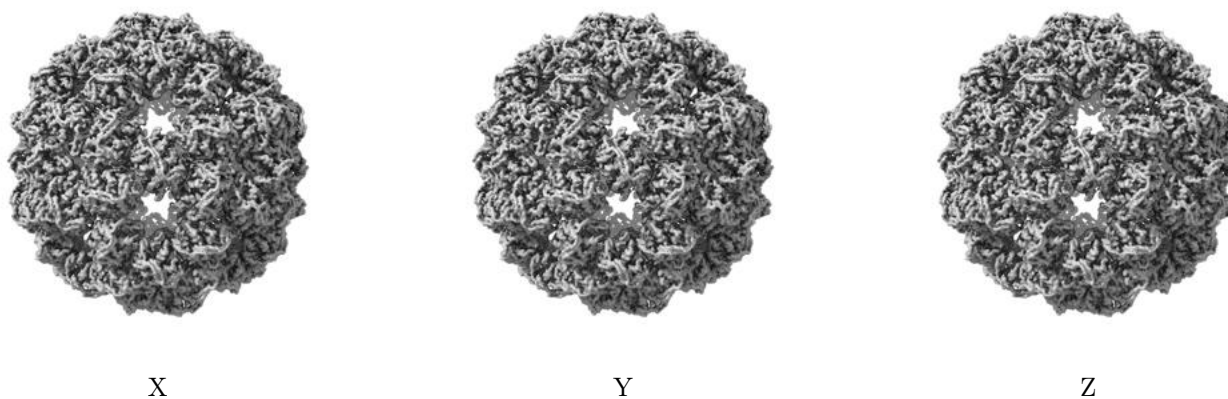
## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0107. 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.

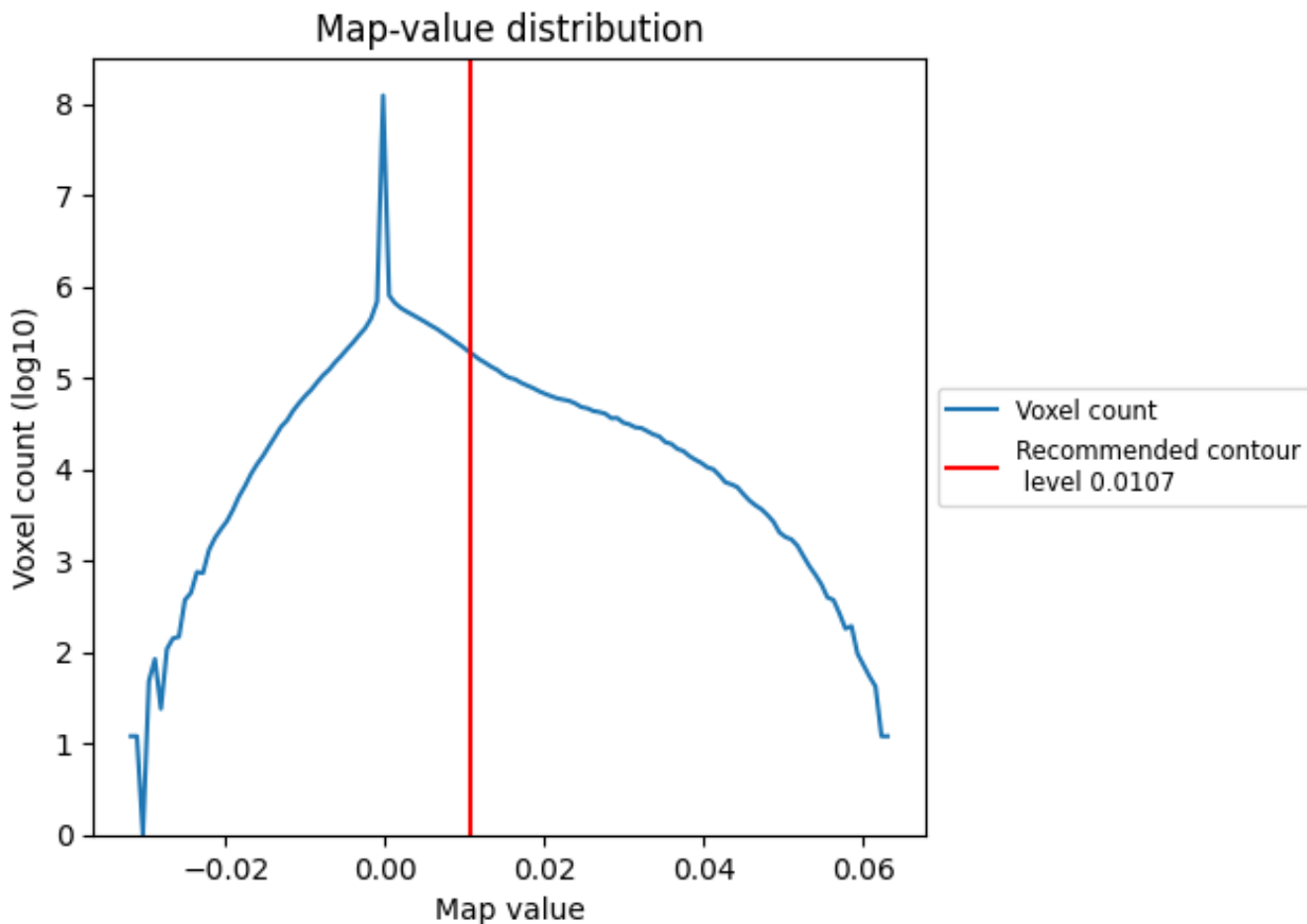
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

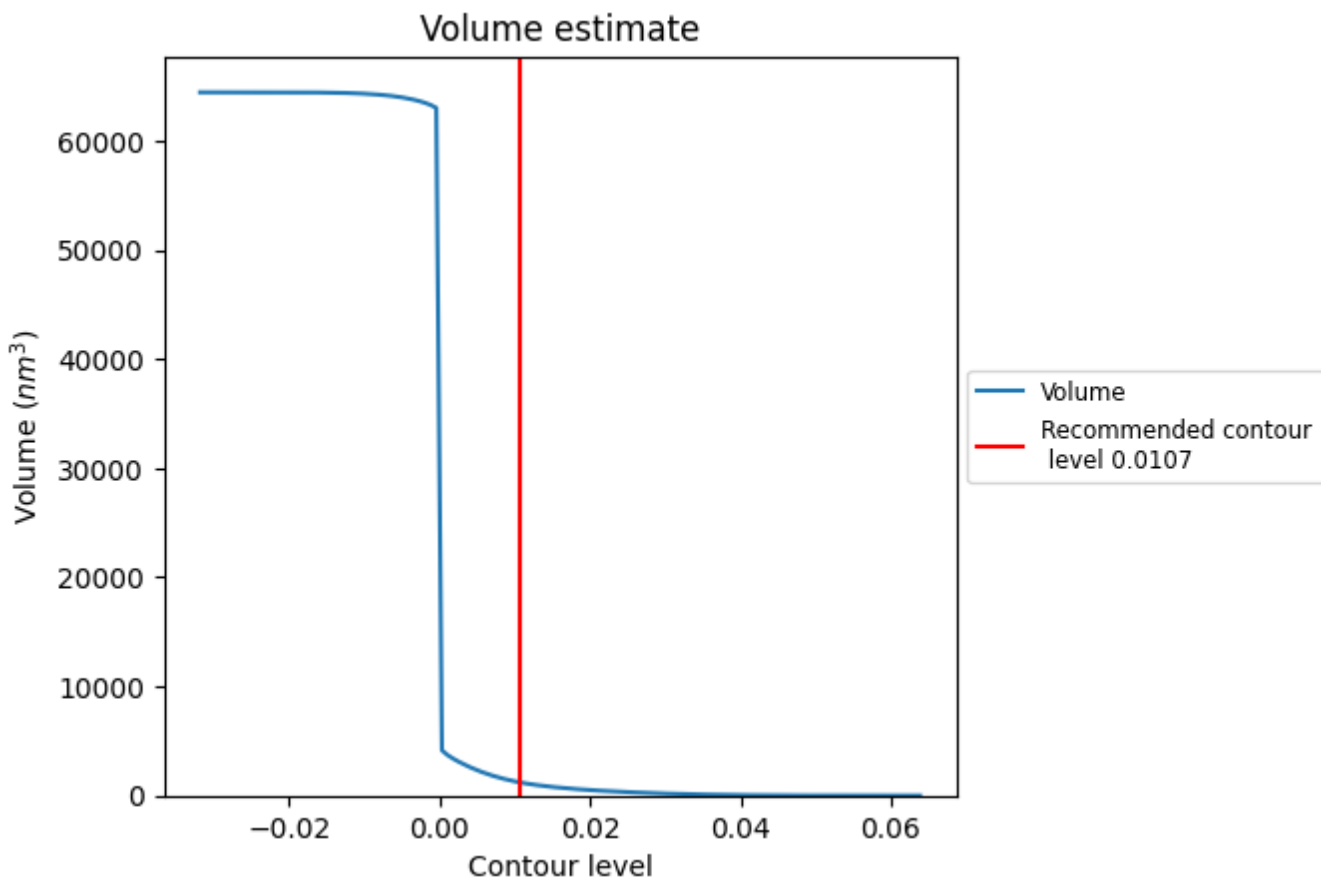
This section contains the results of statistical analysis of the map.

### 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.

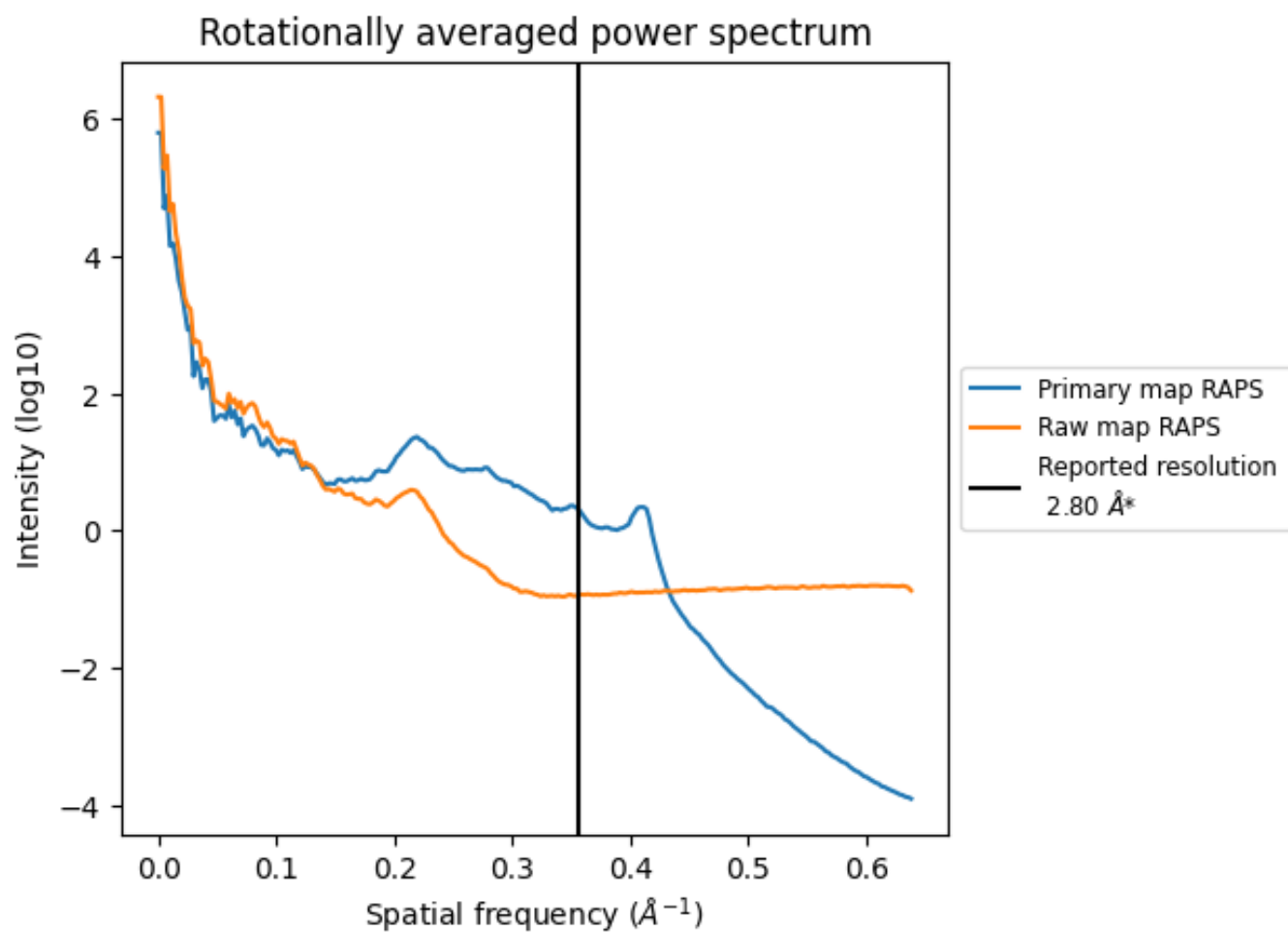
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1204  $\text{nm}^3$ ; this corresponds to an approximate mass of 1088 kDa.

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

### 7.3 Rotationally averaged power spectrum [i](#)

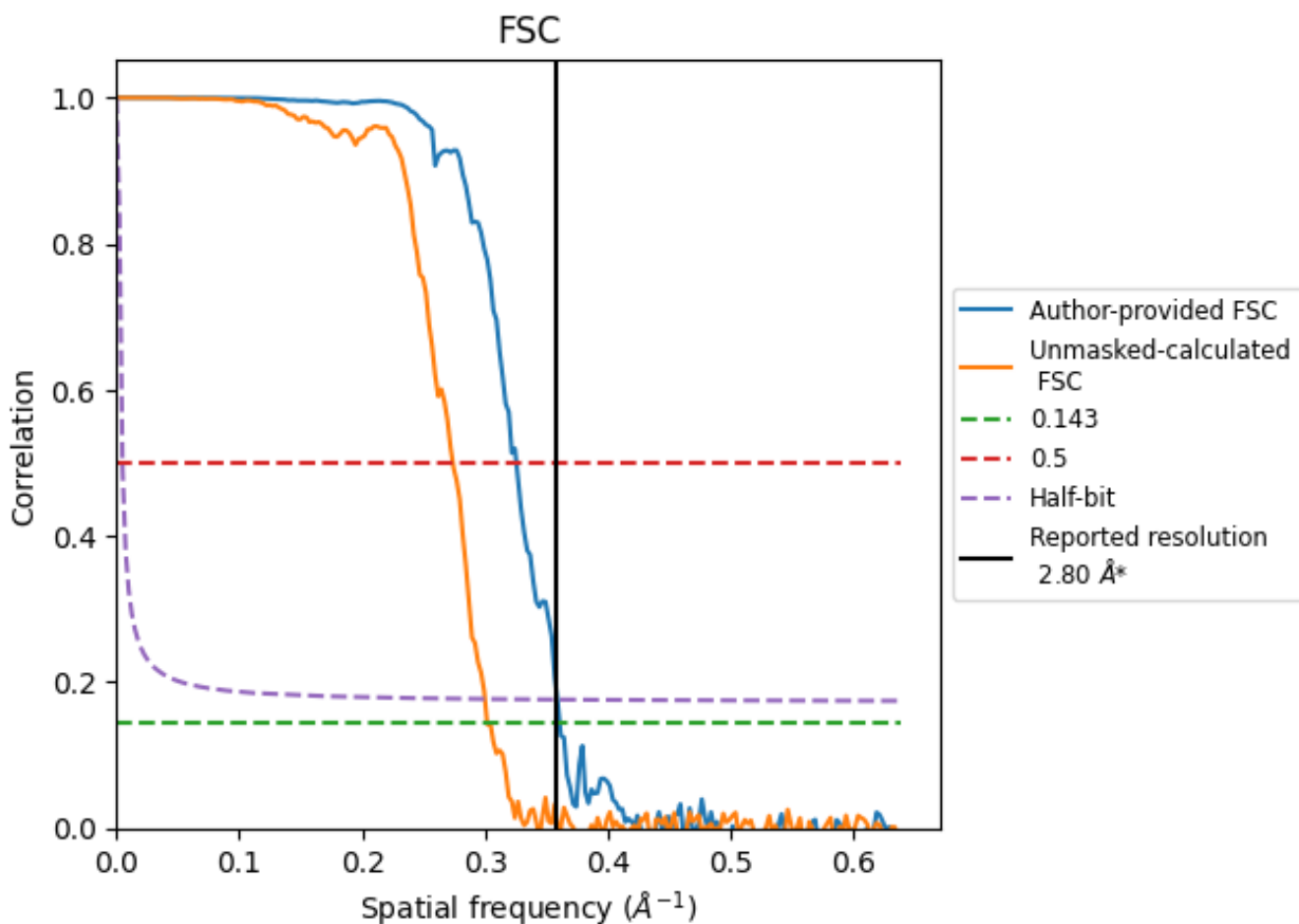


\*Reported resolution corresponds to spatial frequency of 0.357 Å<sup>-1</sup>

## 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 0.357 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

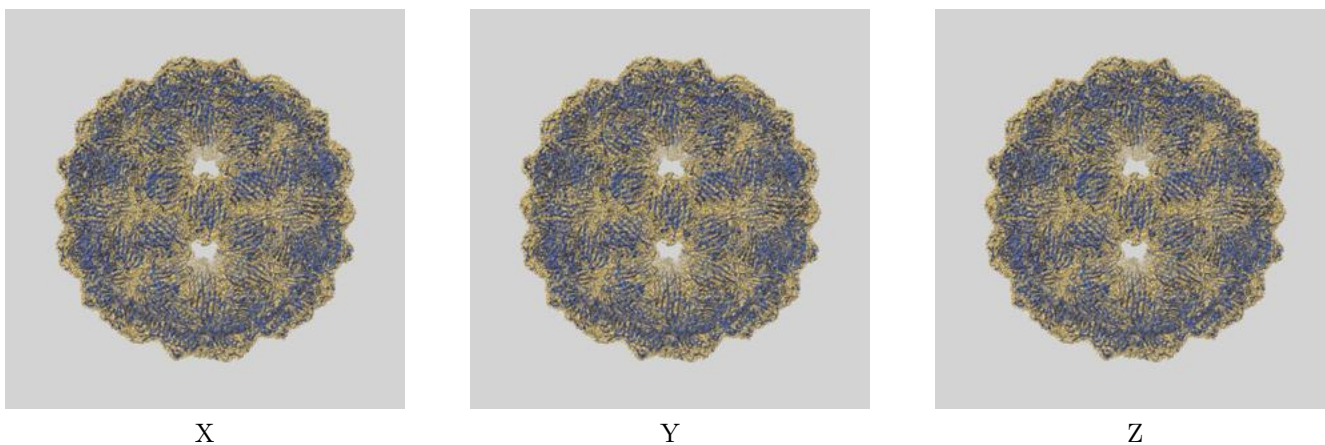
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.80	-	-
Author-provided FSC curve	2.77	3.07	2.79
Unmasked-calculated*	3.31	3.65	3.33

\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.31 differs from the reported value 2.8 by more than 10 %

## 9 Map-model fit [i](#)

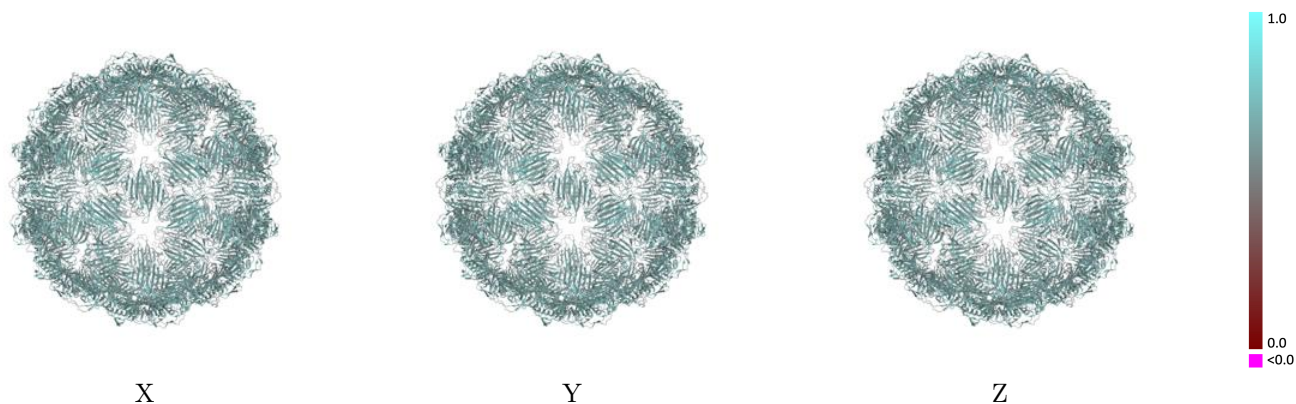
This section contains information regarding the fit between EMDB map EMD-52004 and PDB model 9HAR. Per-residue inclusion information can be found in section 3 on page 19.

### 9.1 Map-model overlay [i](#)



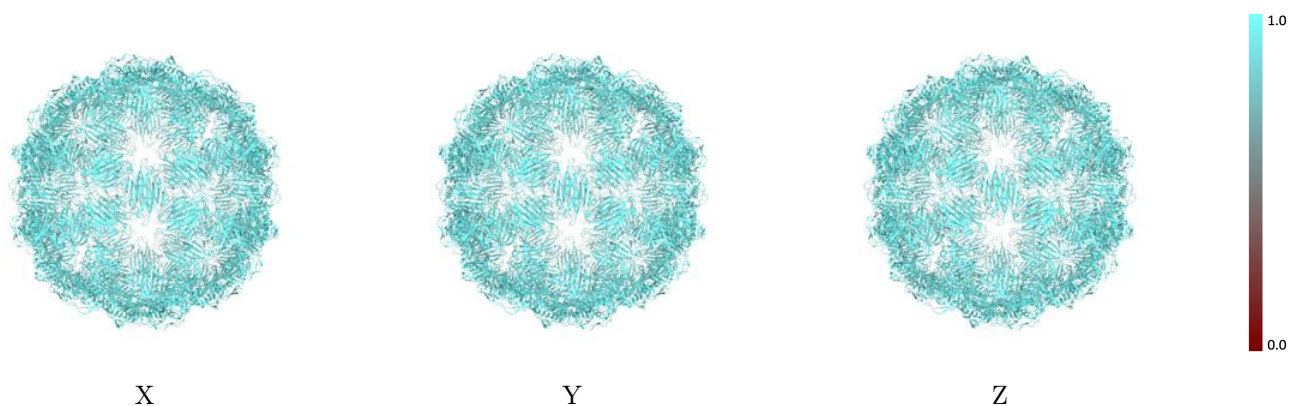
The images above show the 3D surface view of the map at the recommended contour level 0.0107 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 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.

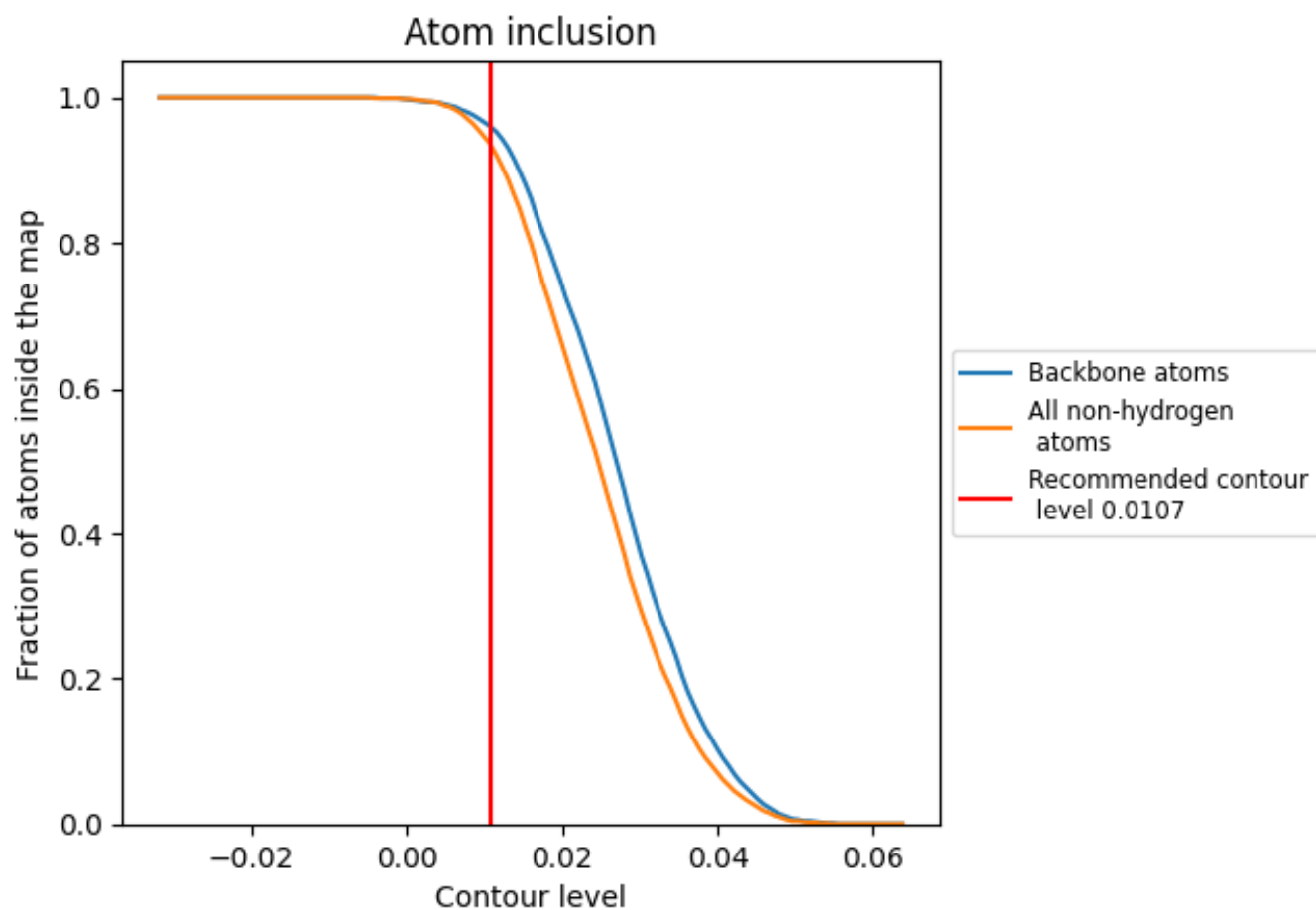
## 9.3 Atom inclusion mapped to coordinate model [i](#)



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 (0.0107).









































































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 96% of all backbone atoms, 94% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary





















































































The table lists the average atom inclusion at the recommended contour level (0.0107) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9370	 0.6090
AA	 0.9360	 0.6200
AB	 0.9520	 0.6200
AC	 0.9200	 0.5850
AD	 0.9380	 0.6210
AE	 0.9480	 0.6200
AF	 0.9170	 0.5860
AG	 0.9370	 0.6170
AH	 0.9550	 0.6170
AI	 0.9170	 0.5810
AJ	 0.9370	 0.6200
AK	 0.9500	 0.6180
AL	 0.9210	 0.5840
AM	 0.9420	 0.6180
AN	 0.9510	 0.6160
AO	 0.9230	 0.5830
AP	 0.9340	 0.6220
AQ	 0.9540	 0.6220
AR	 0.9180	 0.5870
AS	 0.9350	 0.6170
AT	 0.9520	 0.6190
AU	 0.9160	 0.5890
AV	 0.9360	 0.6200
AW	 0.9520	 0.6180
AX	 0.9200	 0.5870
AY	 0.9420	 0.6210
AZ	 0.9480	 0.6200
BA	 0.9210	 0.5850
BB	 0.9360	 0.6200
BC	 0.9500	 0.6200
BD	 0.9170	 0.5870
BE	 0.9320	 0.6190
BF	 0.9530	 0.6210
BG	 0.9200	 0.5840
BH	 0.9360	 0.6180























































































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Chain	Atom inclusion	Q-score
BI	 0.9470	 0.6170
BJ	 0.9200	 0.5840
BK	 0.9420	 0.6190
BL	 0.9490	 0.6170
BM	 0.9230	 0.5870
BN	 0.9350	 0.6180
BO	 0.9520	 0.6210
BP	 0.9160	 0.5830
BQ	 0.9340	 0.6220
BR	 0.9540	 0.6200
BS	 0.9200	 0.5850
BT	 0.9420	 0.6210
BU	 0.9480	 0.6180
BV	 0.9220	 0.5850
BW	 0.9380	 0.6220
BX	 0.9480	 0.6200
BY	 0.9190	 0.5840
BZ	 0.9360	 0.6180
CA	 0.9500	 0.6180
CB	 0.9200	 0.5840
CC	 0.9340	 0.6210
CD	 0.9550	 0.6190
CE	 0.9200	 0.5820
CF	 0.9400	 0.6230
CG	 0.9490	 0.6210
CH	 0.9210	 0.5870
CI	 0.9380	 0.6220
CJ	 0.9480	 0.6190
CK	 0.9190	 0.5840
CL	 0.9320	 0.6200
CM	 0.9540	 0.6210
CN	 0.9200	 0.5850
CO	 0.9350	 0.6190
CP	 0.9520	 0.6190
CQ	 0.9200	 0.5840
CR	 0.9350	 0.6200
CS	 0.9520	 0.6210
CT	 0.9170	 0.5880
CU	 0.9360	 0.6190
CV	 0.9480	 0.6220
CW	 0.9210	 0.5800
CX	 0.9320	 0.6220





















































































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Chain	Atom inclusion	Q-score
CY	 0.9550	 0.6210
CZ	 0.9200	 0.5860
DA	 0.9350	 0.6220
DB	 0.9520	 0.6210
DC	 0.9200	 0.5900
DD	 0.9340	 0.6190
DE	 0.9490	 0.6220
DF	 0.9200	 0.5820
DG	 0.9350	 0.6200
DH	 0.9530	 0.6190
DI	 0.9180	 0.5900
DJ	 0.9390	 0.6170
DK	 0.9500	 0.6170
DL	 0.9230	 0.5830
DM	 0.9360	 0.6210
DN	 0.9500	 0.6190
DO	 0.9200	 0.5850
DP	 0.9370	 0.6170
DQ	 0.9510	 0.6180
DR	 0.9170	 0.5830
DS	 0.9380	 0.6210
DT	 0.9470	 0.6220
DU	 0.9190	 0.5870
DV	 0.9360	 0.6210
DW	 0.9510	 0.6200
DX	 0.9200	 0.5860
DY	 0.9430	 0.6270
DZ	 0.9570	 0.6230
EA	 0.9190	 0.5860
EB	 0.9450	 0.6220
EC	 0.9540	 0.6180
ED	 0.9190	 0.5820
EE	 0.9400	 0.6260
EF	 0.9520	 0.6210
EG	 0.9190	 0.5820
EH	 0.9420	 0.6230
EI	 0.9520	 0.6180
EJ	 0.9210	 0.5910
EK	 0.9430	 0.6240
EL	 0.9570	 0.6190
EM	 0.9190	 0.5850
EN	 0.9400	 0.6250









































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Chain	Atom inclusion	Q-score
EO	 0.9500	 0.6200
EP	 0.9190	 0.5810
EQ	 0.9450	 0.6220
ER	 0.9550	 0.6180
ES	 0.9210	 0.5850
ET	 0.9390	 0.6220
EU	 0.9520	 0.6190
EV	 0.9170	 0.5890
EW	 0.9390	 0.6220
EX	 0.9570	 0.6220
EY	 0.9200	 0.5840
EZ	 0.9370	 0.6210
FA	 0.9520	 0.6180
FB	 0.9170	 0.5870
FC	 0.9420	 0.6240
FD	 0.9550	 0.6210
FE	 0.9190	 0.5870
FF	 0.9430	 0.6260
FG	 0.9570	 0.6210
FH	 0.9190	 0.5850
FI	 0.9400	 0.6230
FJ	 0.9540	 0.6200
FK	 0.9180	 0.5890
FL	 0.9410	 0.6200
FM	 0.9520	 0.6190
FN	 0.9210	 0.5880
FO	 0.9420	 0.6230
FP	 0.9570	 0.6190
FQ	 0.9210	 0.5910
FR	 0.9390	 0.6260
FS	 0.9570	 0.6240
FT	 0.9210	 0.5860
FU	 0.9380	 0.6220
FV	 0.9520	 0.6190
FW	 0.9180	 0.5840
FX	 0.9410	 0.6230
FY	 0.9570	 0.6190
FZ	 0.9190	 0.5880
GA	 0.9390	 0.6220
GB	 0.9520	 0.6210
GC	 0.9220	 0.5870
GD	 0.9380	 0.6230

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Chain	Atom inclusion	Q-score
GE	 0.9510	 0.6210
GF	 0.9170	 0.5870
GG	 0.9380	 0.6230
GH	 0.9550	 0.6200
GI	 0.9170	 0.5910
GJ	 0.9420	 0.6240
GK	 0.9520	 0.6220
GL	 0.9200	 0.5860
GM	 0.9400	 0.6230
GN	 0.9550	 0.6200
GO	 0.9210	 0.5880
GP	 0.9380	 0.6230
GQ	 0.9520	 0.6210
GR	 0.9180	 0.5900
GS	 0.9380	 0.6210
GT	 0.9510	 0.6180
GU	 0.9200	 0.5830
GV	 0.9390	 0.6240
GW	 0.9590	 0.6240
GX	 0.9200	 0.5850