



Full wwPDB EM Validation Report ⓘ

Mar 11, 2024 – 06:30 PM EDT

PDB ID : 8UOX
EMDB ID : EMD-42439
Title : Cryo-EM structure of a Counterclockwise locked form of the Salmonella enterica Typhimurium flagellar C-ring, with C34 symmetry applied
Authors : Johnson, S.; Deme, J.C.; Lea, S.M.
Deposited on : 2023-10-20
Resolution : 4.60 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev70
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

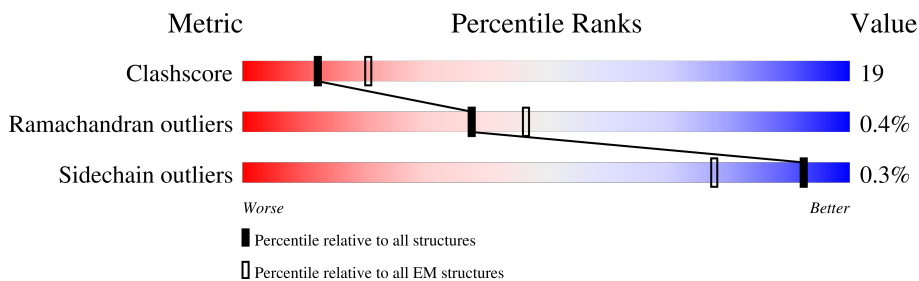
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.60 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	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A1	560	92%
1	A2	560	92%
1	A3	560	92%
1	A4	560	92%
1	A5	560	92%
1	A6	560	92%
1	A7	560	92%
1	A8	560	92%

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Mol	Chain	Length	Quality of chain
1	A9	560	 92%
1	AA	560	 92%
1	AB	560	 92%
1	AC	560	 92%
1	AD	560	 92%
1	AE	560	 92%
1	AF	560	 92%
1	AG	560	 92%
1	AH	560	 92%
1	AI	560	 92%
1	AJ	560	 92%
1	AK	560	 92%
1	AL	560	 92%
1	AM	560	 92%
1	AN	560	 92%
1	AO	560	 92%
1	AP	560	 92%
1	AQ	560	 92%
1	AR	560	 92%
1	AS	560	 92%
1	AT	560	 92%
1	AU	560	 92%
1	AV	560	 92%
1	AW	560	 92%
1	AX	560	 92%

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Mol	Chain	Length	Quality of chain
1	AY	560	
2	B1	331	
2	B2	331	
2	B3	331	
2	B4	331	
2	B5	331	
2	B6	331	
2	B7	331	
2	B8	331	
2	B9	331	
2	BA	331	
2	BB	331	
2	BC	331	
2	BD	331	
2	BE	331	
2	BF	331	
2	BG	331	
2	BH	331	
2	BI	331	
2	BJ	331	
2	BK	331	
2	BL	331	
2	BM	331	
2	BN	331	
2	BO	331	

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Mol	Chain	Length	Quality of chain
2	BP	331	47% 61% 39%
2	BQ	331	47% 63% 37%
2	BR	331	46% 60% 40%
2	BS	331	46% 60% 40%
2	BT	331	47% 61% 39%
2	BU	331	47% 61% 38%
2	BV	331	48% 62% 38%
2	BW	331	47% 62% 37%
2	BX	331	47% 63% 37%
2	BY	331	47% 60% 40%
3	C1	334	14% 54% 33% 13%
3	C2	334	15% 51% 35% 13%
3	C3	334	15% 52% 34% 13%
3	C4	334	15% 51% 36% 13%
3	C5	334	14% 54% 33% 13%
3	C6	334	14% 51% 36% 13%
3	C7	334	15% 52% 35% 13%
3	C8	334	14% 54% 33% 13%
3	C9	334	15% 52% 34% 13%
3	CA	334	15% 53% 34% 13%
3	CB	334	15% 51% 35% 13%
3	CC	334	15% 53% 34% 13%
3	CD	334	14% 50% 37% 13%
3	CE	334	14% 52% 34% 13%
3	CF	334	15% 51% 36% 13%

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Mol	Chain	Length	Quality of chain
3	CG	334	15% 53% 34% 13%
3	CH	334	15% 52% 35% 13%
3	CI	334	14% 53% 34% 13%
3	CJ	334	15% 52% 34% 13%
3	CK	334	15% 54% 33% 13%
3	CL	334	15% 54% 33% 13%
3	CM	334	14% 52% 35% 13%
3	CN	334	14% 53% 34% 13%
3	CO	334	15% 55% 32% 13%
3	CP	334	15% 53% 34% 13%
3	CQ	334	15% 49% 37% 13%
3	CR	334	15% 54% 33% 13%
3	CS	334	15% 51% 36% 13%
3	CT	334	15% 54% 33% 13%
3	CU	334	14% 51% 36% 13%
3	CV	334	14% 51% 35% 13%
3	CW	334	15% 54% 33% 13%
3	CX	334	15% 52% 34% 13%
3	CY	334	15% 51% 36% 13%
4	D1	137	12% 34% 25% 41%
4	D2	137	12% 36% 23% 41%
4	D3	137	12% 36% 23% 41%
4	D4	137	12% 34% 26% 41%
4	D5	137	12% 34% 26% 41%
4	D6	137	11% 31% 28% 41%

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Mol	Chain	Length	Quality of chain
4	D7	137	11% 35% 24% 41%
4	D8	137	12% 34% 25% 41%
4	D9	137	12% 33% 26% 41%
4	DA	137	12% 35% 24% 41%
4	DB	137	12% 36% 23% 41%
4	DC	137	12% 32% 27% 41%
4	DD	137	12% 33% 26% 41%
4	DE	137	12% 31% 28% 41%
4	DF	137	12% 34% 25% 41%
4	DG	137	12% 35% 24% 41%
4	DH	137	12% 36% 23% 41%
4	DI	137	12% 34% 26% 41%
4	DJ	137	12% 34% 26% 41%
4	DK	137	12% 34% 25% 41%
4	DL	137	12% 35% 24% 41%
4	DM	137	11% 34% 25% 41%
4	DN	137	11% 36% 23% 41%
4	DO	137	12% 37% 22% 41%
4	DP	137	12% 32% 27% 41%
4	DQ	137	12% 34% 25% 41%
4	DR	137	12% 32% 27% 41%
4	DS	137	12% 34% 25% 41%
4	DT	137	11% 32% 27% 41%
4	DU	137	12% 34% 25% 41%
4	DV	137	12% 34% 25% 41%

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Mol	Chain	Length	Quality of chain
4	DW	137	12% 34% 26% 41%
4	DX	137	12% 34% 25% 41%
4	DY	137	12% 31% 28% 41%
4	E1	137	14% 30% 28% 41%
4	E2	137	12% 33% 25% 41%
4	E3	137	14% 34% 23% 41%
4	E4	137	13% 34% 24% 41%
4	E5	137	13% 36% 21% 41%
4	E6	137	13% 29% 29% 41%
4	E7	137	13% 34% 24% 41%
4	E8	137	14% 34% 23% 41%
4	E9	137	14% 31% 28% 41%
4	EA	137	13% 34% 24% 41%
4	EB	137	13% 31% 26% 41%
4	EC	137	14% 34% 24% 41%
4	ED	137	14% 32% 26% 41%
4	EE	137	12% 33% 25% 41%
4	EF	137	15% 31% 27% 41%
4	EG	137	13% 28% 30% 41%
4	EH	137	13% 30% 28% 41%
4	EI	137	14% 32% 25% 41%
4	EJ	137	12% 34% 23% 41%
4	EK	137	14% 33% 25% 41%
4	EL	137	12% 33% 26% 41%
4	EM	137	13% 31% 26% 41%

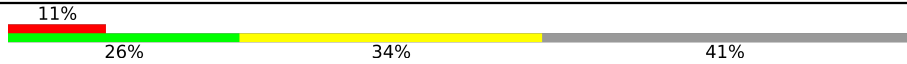

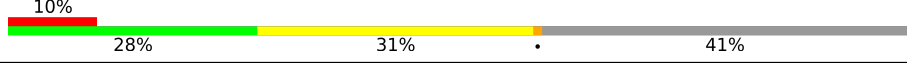
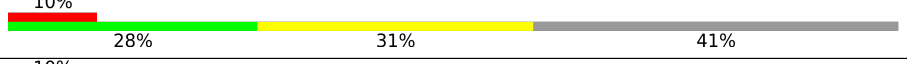
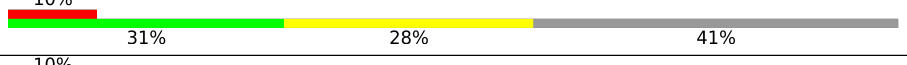
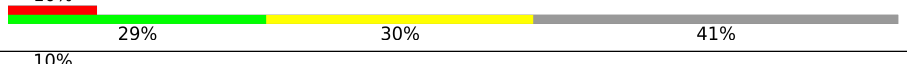
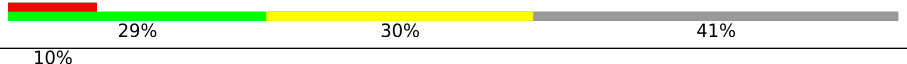
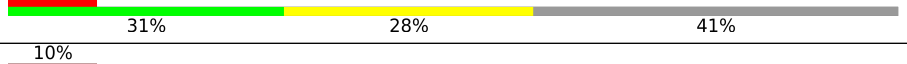
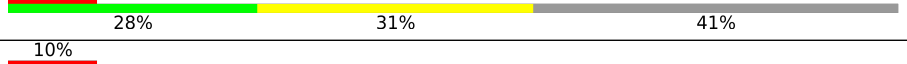
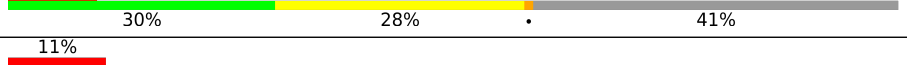

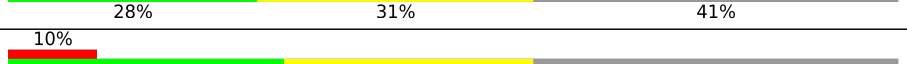
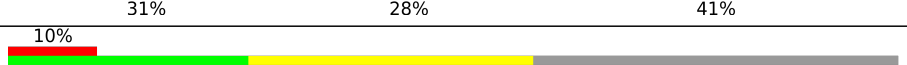
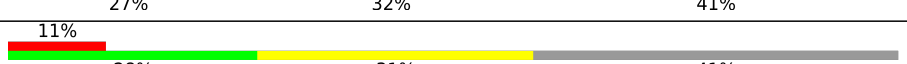
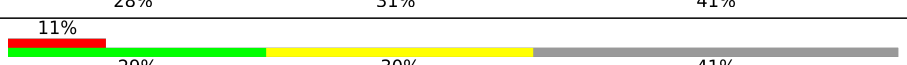
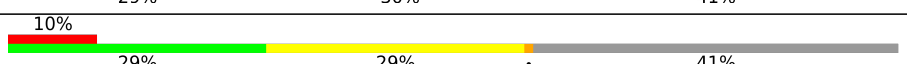
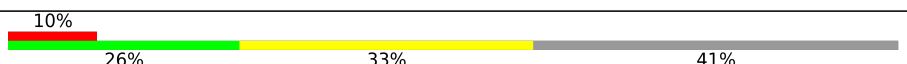
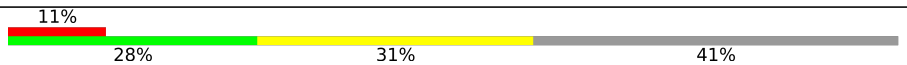
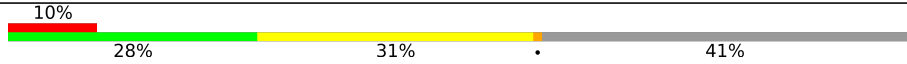


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Mol	Chain	Length	Quality of chain
4	EN	137	13% 30% 27% 41%
4	EO	137	13% 34% 23% 41%
4	EP	137	14% 31% 27% 41%
4	EQ	137	15% 32% 26% 41%
4	ER	137	14% 30% 28% 41%
4	ES	137	12% 31% 27% 41%
4	ET	137	13% 34% 23% 41%
4	EU	137	14% 32% 26% 41%
4	EV	137	11% 34% 23% 41%
4	EW	137	14% 36% 22% 41%
4	EX	137	14% 30% 28% 41%
4	EY	137	14% 32% 26% 41%
4	F1	137	10% 29% 30% 41%
4	F2	137	11% 28% 31% 41%
4	F3	137	11% 30% 29% 41%
4	F4	137	10% 29% 30% 41%
4	F5	137	10% 30% 29% 41%
4	F6	137	11% 29% 30% 41%
4	F7	137	11% 33% 26% 41%
4	F8	137	11% 27% 32% 41%
4	F9	137	11% 31% 28% 41%
4	FA	137	10% 29% 30% 41%
4	FB	137	11% 30% 29% 41%
4	FC	137	11% 30% 29% 41%
4	FD	137	10% 31% 28% 41%

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Mol	Chain	Length	Quality of chain
4	FE	137	
4	FF	137	
4	FG	137	
4	FH	137	
4	FI	137	
4	FJ	137	
4	FK	137	
4	FL	137	
4	FM	137	
4	FN	137	
4	FO	137	
4	FP	137	
4	FQ	137	
4	FR	137	
4	FS	137	
4	FT	137	
4	FU	137	
4	FV	137	
4	FW	137	
4	FX	137	
4	FY	137	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 244834 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 Flagellar M-ring protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A1	47	393	233	81	76	3	0	0
1	A2	47	393	233	81	76	3	0	0
1	A3	47	393	233	81	76	3	0	0
1	A4	47	393	233	81	76	3	0	0
1	A5	47	393	233	81	76	3	0	0
1	A6	47	393	233	81	76	3	0	0
1	A7	47	393	233	81	76	3	0	0
1	A8	47	393	233	81	76	3	0	0
1	A9	47	393	233	81	76	3	0	0
1	AA	47	393	233	81	76	3	0	0
1	AB	47	393	233	81	76	3	0	0
1	AC	47	393	233	81	76	3	0	0
1	AD	47	393	233	81	76	3	0	0
1	AE	47	393	233	81	76	3	0	0
1	AF	47	393	233	81	76	3	0	0
1	AG	47	393	233	81	76	3	0	0
1	AH	47	393	233	81	76	3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AI	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AJ	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AK	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AL	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AM	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AN	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AO	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AP	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AQ	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AR	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AS	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AT	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AU	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AV	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AW	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AX	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AY	47	Total	C	N	O	S	0	0
			393	233	81	76	3		

- Molecule 2 is a protein called Flagellar motor switch protein FliG.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B1	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B2	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	B3	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B4	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B5	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B6	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B7	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B8	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B9	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BA	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BB	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BC	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BD	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BE	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BF	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BG	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BH	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BI	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BJ	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BK	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BL	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BM	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BN	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	BO	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BP	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BQ	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BR	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BS	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BT	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BU	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BV	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BW	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BX	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BY	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		

- Molecule 3 is a protein called Flagellar motor switch protein FlIM.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C1	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C2	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C3	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C4	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C5	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C6	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C7	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C8	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C9	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CA	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CB	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CC	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CD	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CE	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CF	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CG	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CH	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CI	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CJ	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CK	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CL	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CM	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CN	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CO	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CP	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CQ	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CR	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CS	290	Total 2348	C 1497	N 424	O 422	S 5	0	0
3	CT	290	Total 2348	C 1497	N 424	O 422	S 5	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	CU	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CV	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CW	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CX	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CY	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		

- Molecule 4 is a protein called Flagellar motor switch protein FliN.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D1	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E1	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F1	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D2	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E2	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F2	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D3	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E3	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F3	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D4	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E4	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F4	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D5	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E5	81	Total	C	N	O	S	0	0
			625	398	108	116	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	F5	81	627	397	111	116	3	0	0
4	D6	81	625	398	108	116	3	0	0
4	E6	81	625	398	108	116	3	0	0
4	F6	81	627	397	111	116	3	0	0
4	D7	81	625	398	108	116	3	0	0
4	E7	81	625	398	108	116	3	0	0
4	F7	81	627	397	111	116	3	0	0
4	D8	81	625	398	108	116	3	0	0
4	E8	81	625	398	108	116	3	0	0
4	F8	81	627	397	111	116	3	0	0
4	D9	81	625	398	108	116	3	0	0
4	E9	81	625	398	108	116	3	0	0
4	F9	81	627	397	111	116	3	0	0
4	DA	81	625	398	108	116	3	0	0
4	EA	81	625	398	108	116	3	0	0
4	FA	81	627	397	111	116	3	0	0
4	DB	81	625	398	108	116	3	0	0
4	EB	81	625	398	108	116	3	0	0
4	FB	81	627	397	111	116	3	0	0
4	DC	81	625	398	108	116	3	0	0
4	EC	81	625	398	108	116	3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	FC	81	627	397	111	116	3	0	0
4	DD	81	625	398	108	116	3	0	0
4	ED	81	625	398	108	116	3	0	0
4	FD	81	627	397	111	116	3	0	0
4	DE	81	625	398	108	116	3	0	0
4	EE	81	625	398	108	116	3	0	0
4	FE	81	627	397	111	116	3	0	0
4	DF	81	625	398	108	116	3	0	0
4	EF	81	625	398	108	116	3	0	0
4	FF	81	627	397	111	116	3	0	0
4	DG	81	625	398	108	116	3	0	0
4	EG	81	625	398	108	116	3	0	0
4	FG	81	627	397	111	116	3	0	0
4	DH	81	625	398	108	116	3	0	0
4	EH	81	625	398	108	116	3	0	0
4	FH	81	627	397	111	116	3	0	0
4	DI	81	625	398	108	116	3	0	0
4	EI	81	625	398	108	116	3	0	0
4	FI	81	627	397	111	116	3	0	0
4	DJ	81	625	398	108	116	3	0	0
4	EJ	81	625	398	108	116	3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	FJ	81	627	397	111	116	3	0	0
4	DK	81	625	398	108	116	3	0	0
4	EK	81	625	398	108	116	3	0	0
4	FK	81	627	397	111	116	3	0	0
4	DL	81	625	398	108	116	3	0	0
4	EL	81	625	398	108	116	3	0	0
4	FL	81	627	397	111	116	3	0	0
4	DM	81	625	398	108	116	3	0	0
4	EM	81	625	398	108	116	3	0	0
4	FM	81	627	397	111	116	3	0	0
4	DN	81	625	398	108	116	3	0	0
4	EN	81	625	398	108	116	3	0	0
4	FN	81	627	397	111	116	3	0	0
4	DO	81	625	398	108	116	3	0	0
4	EO	81	625	398	108	116	3	0	0
4	FO	81	627	397	111	116	3	0	0
4	DP	81	625	398	108	116	3	0	0
4	EP	81	625	398	108	116	3	0	0
4	FP	81	627	397	111	116	3	0	0
4	DQ	81	625	398	108	116	3	0	0
4	EQ	81	625	398	108	116	3	0	0

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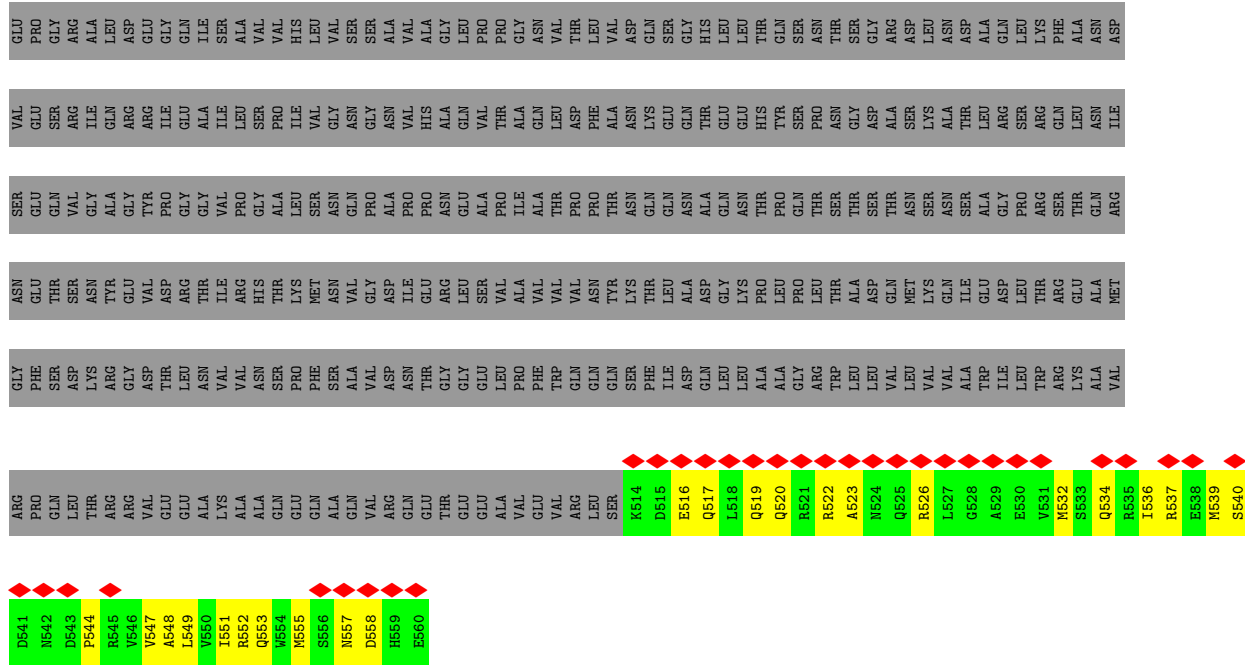
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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	FQ	81	627	397	111	116	3	0	0
4	DR	81	625	398	108	116	3	0	0
4	ER	81	625	398	108	116	3	0	0
4	FR	81	627	397	111	116	3	0	0
4	DS	81	625	398	108	116	3	0	0
4	ES	81	625	398	108	116	3	0	0
4	FS	81	627	397	111	116	3	0	0
4	DT	81	625	398	108	116	3	0	0
4	ET	81	625	398	108	116	3	0	0
4	FT	81	627	397	111	116	3	0	0
4	DU	81	625	398	108	116	3	0	0
4	EU	81	625	398	108	116	3	0	0
4	FU	81	627	397	111	116	3	0	0
4	DV	81	625	398	108	116	3	0	0
4	EV	81	625	398	108	116	3	0	0
4	FV	81	627	397	111	116	3	0	0
4	DW	81	625	398	108	116	3	0	0
4	EW	81	625	398	108	116	3	0	0
4	FW	81	627	397	111	116	3	0	0
4	DX	81	625	398	108	116	3	0	0
4	EX	81	625	398	108	116	3	0	0

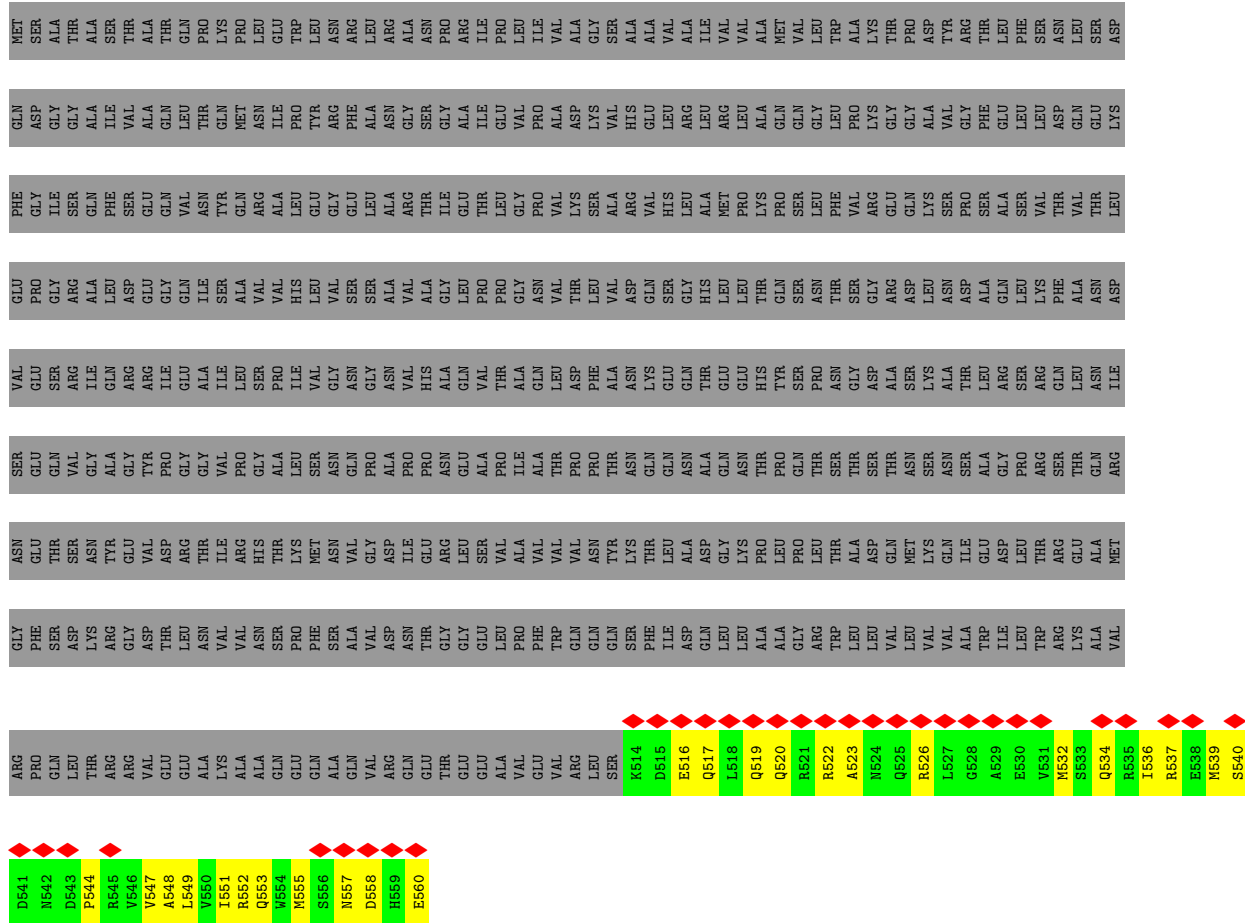
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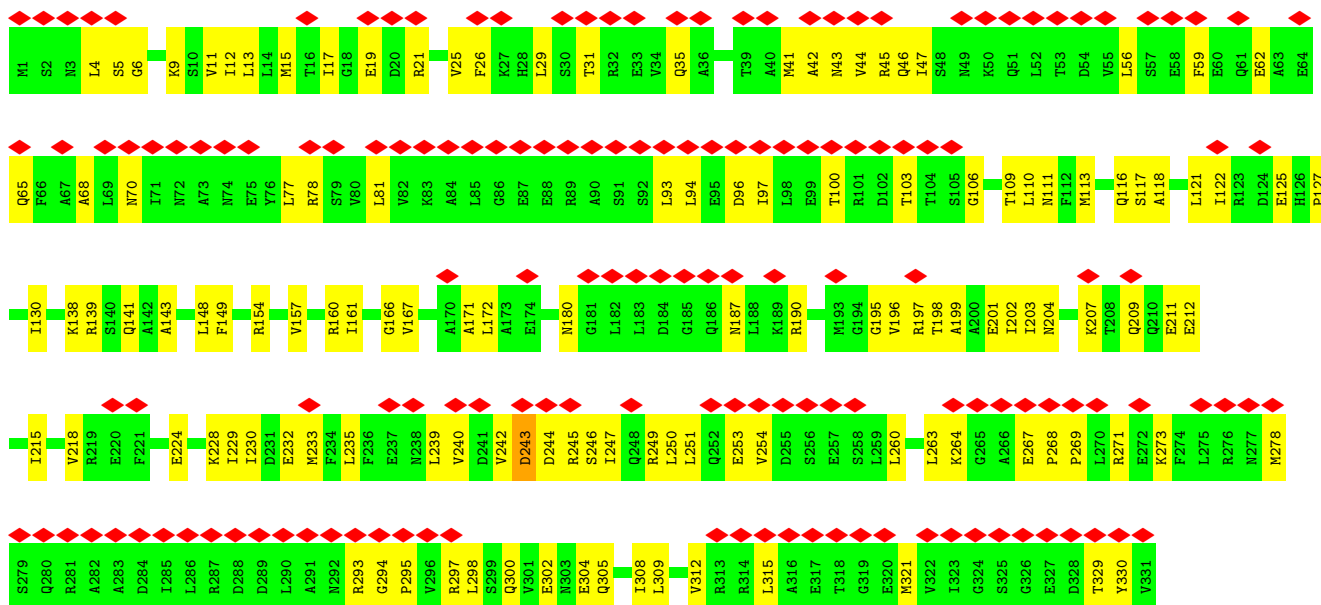
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Mol	Chain	Residues	Atoms					AltConf	Trace
4	FX	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DY	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EY	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FY	81	Total	C	N	O	S	0	0
			627	397	111	116	3		



• Molecule 1: Flagellar M-ring protein

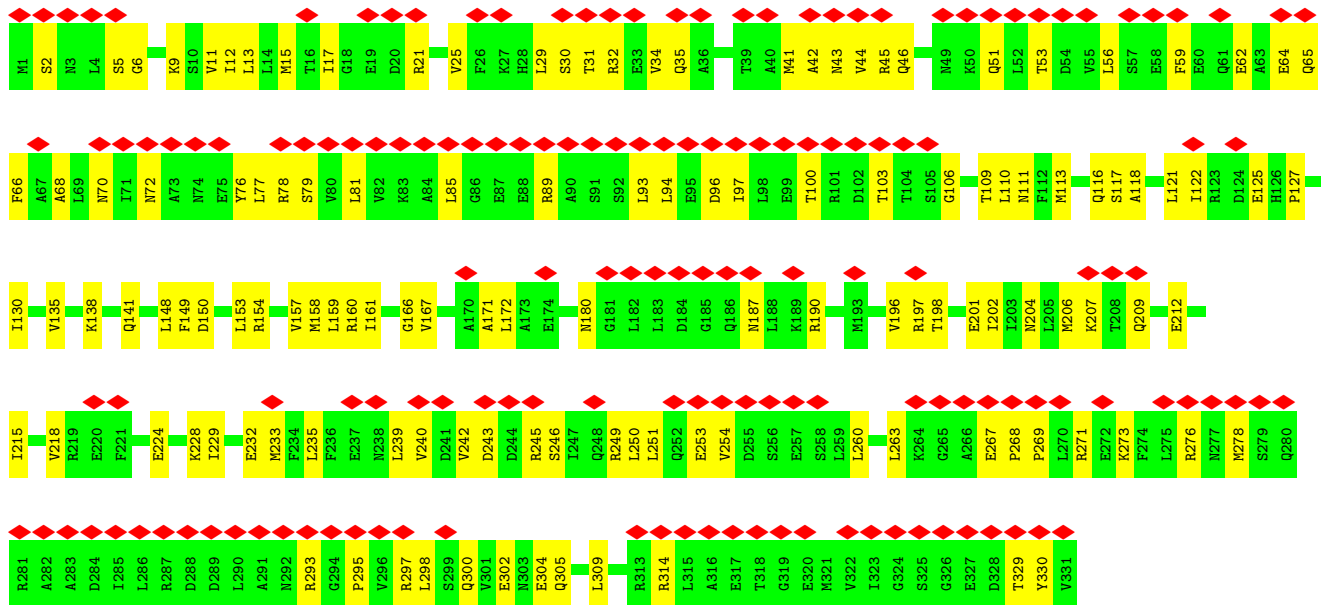




• Molecule 2: Flagellar motor switch protein FlhG



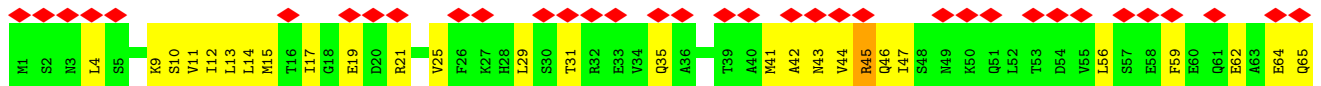
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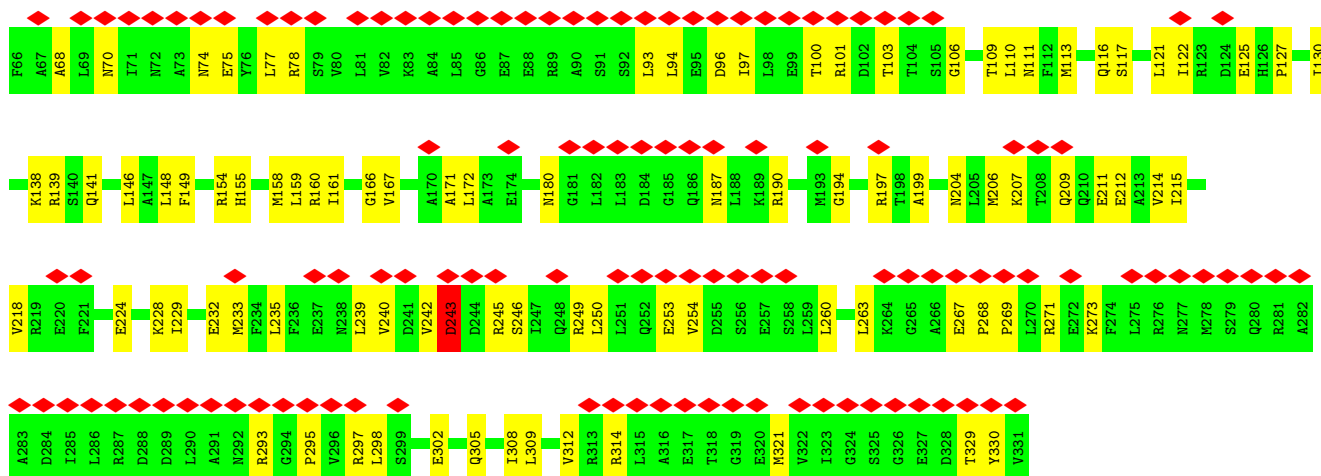


• Molecule 2: Flagellar motor switch protein FlhG

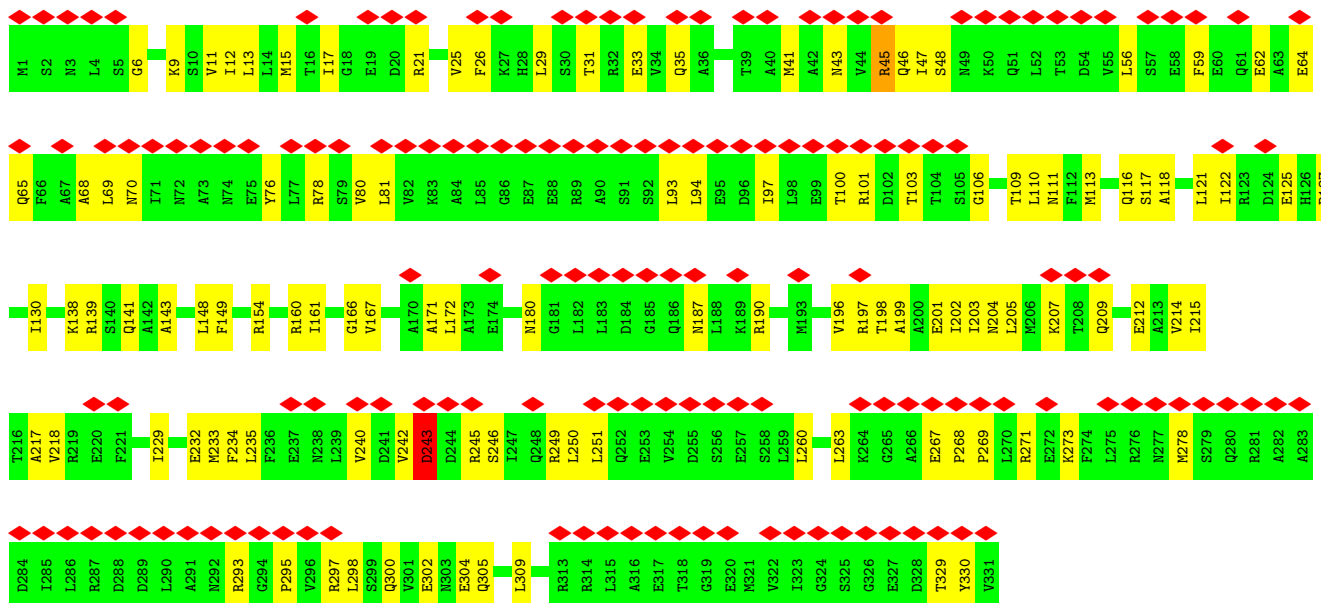


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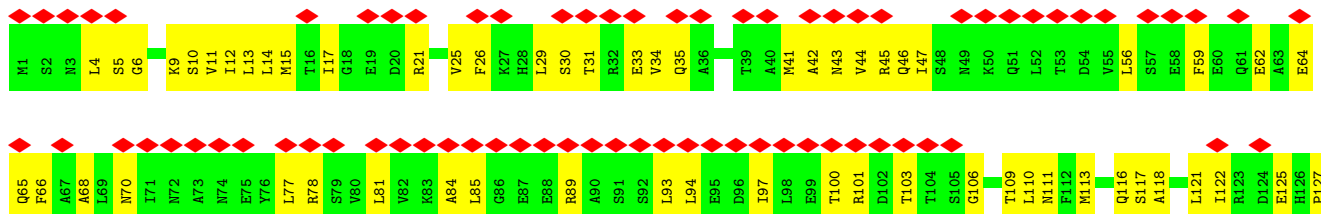




• Molecule 2: Flagellar motor switch protein FlIG

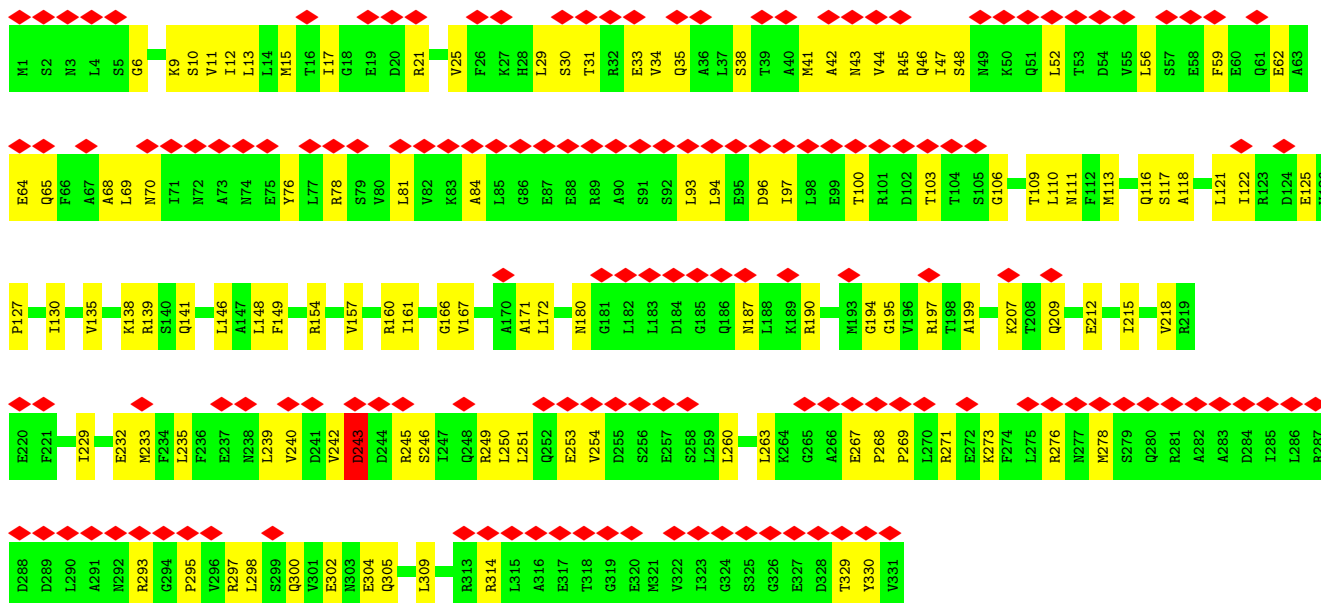


• Molecule 2: Flagellar motor switch protein FlIG

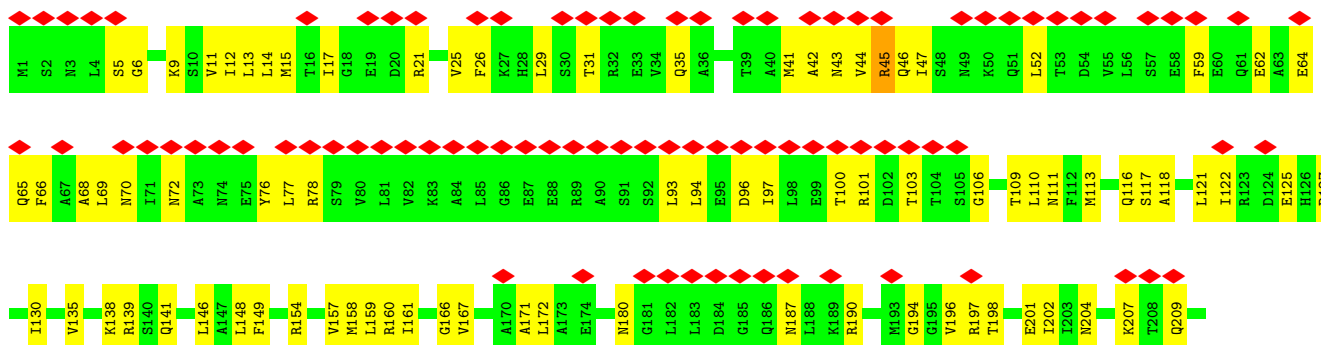


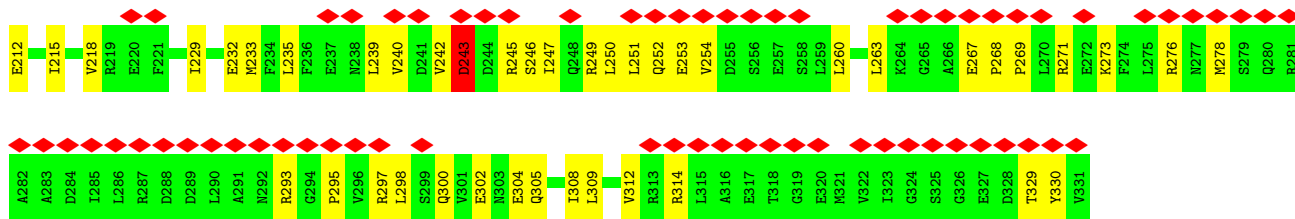


• Molecule 2: Flagellar motor switch protein FliG

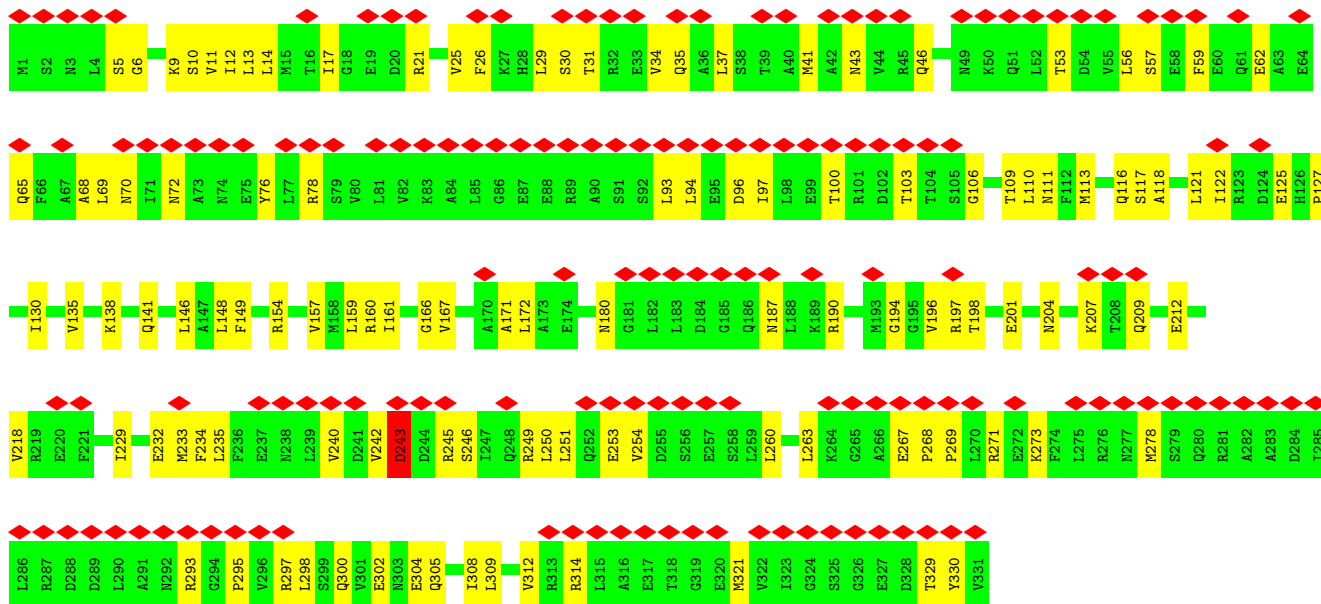


• Molecule 2: Flagellar motor switch protein FliG

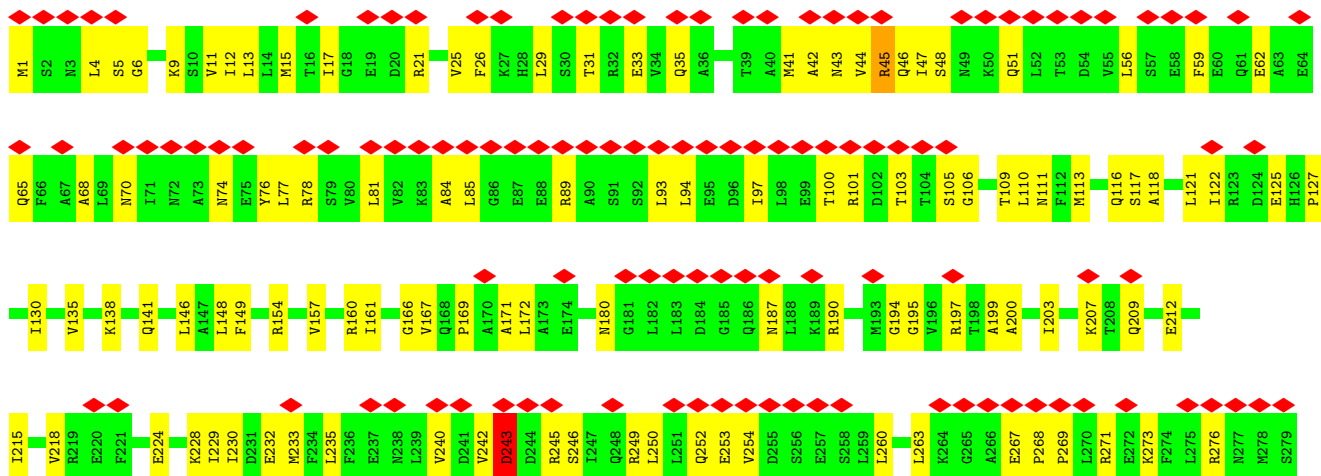




• Molecule 2: Flagellar motor switch protein FliG

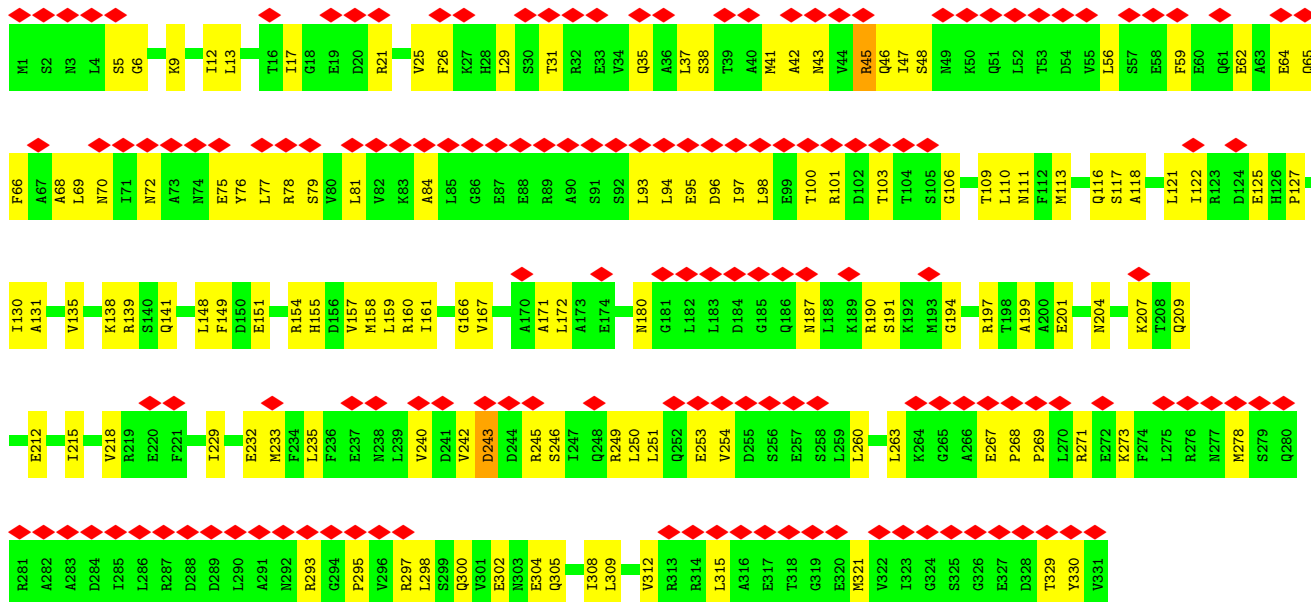


• Molecule 2: Flagellar motor switch protein FliG

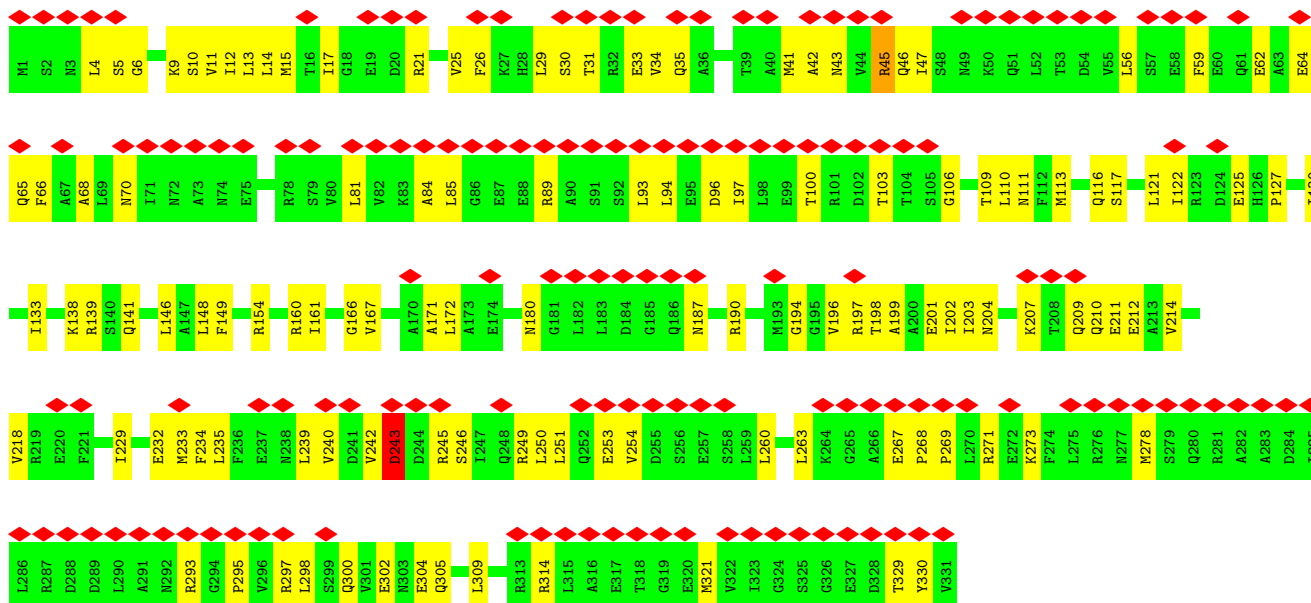




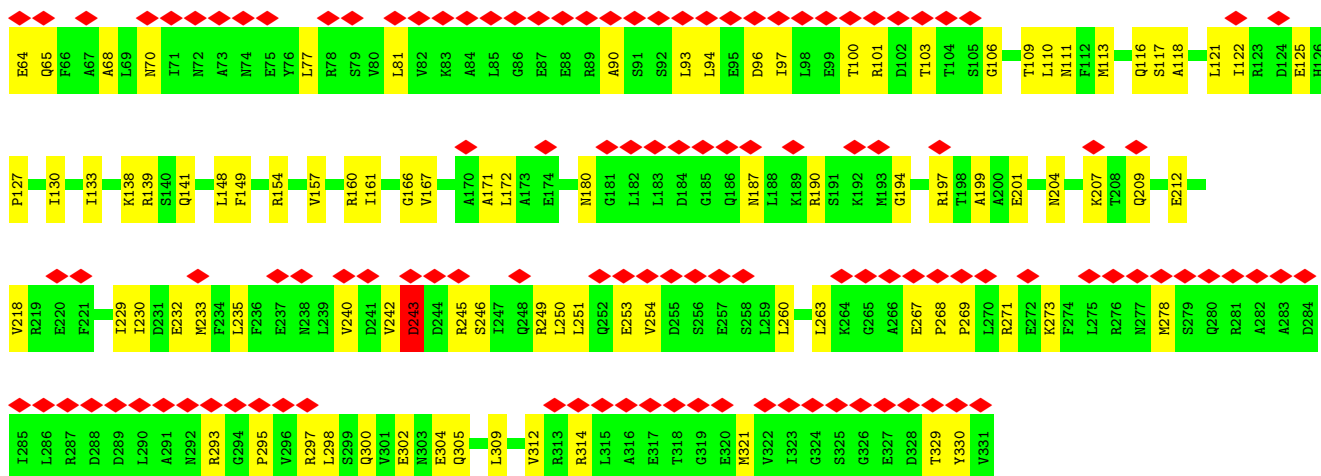
• Molecule 2: Flagellar motor switch protein FliG



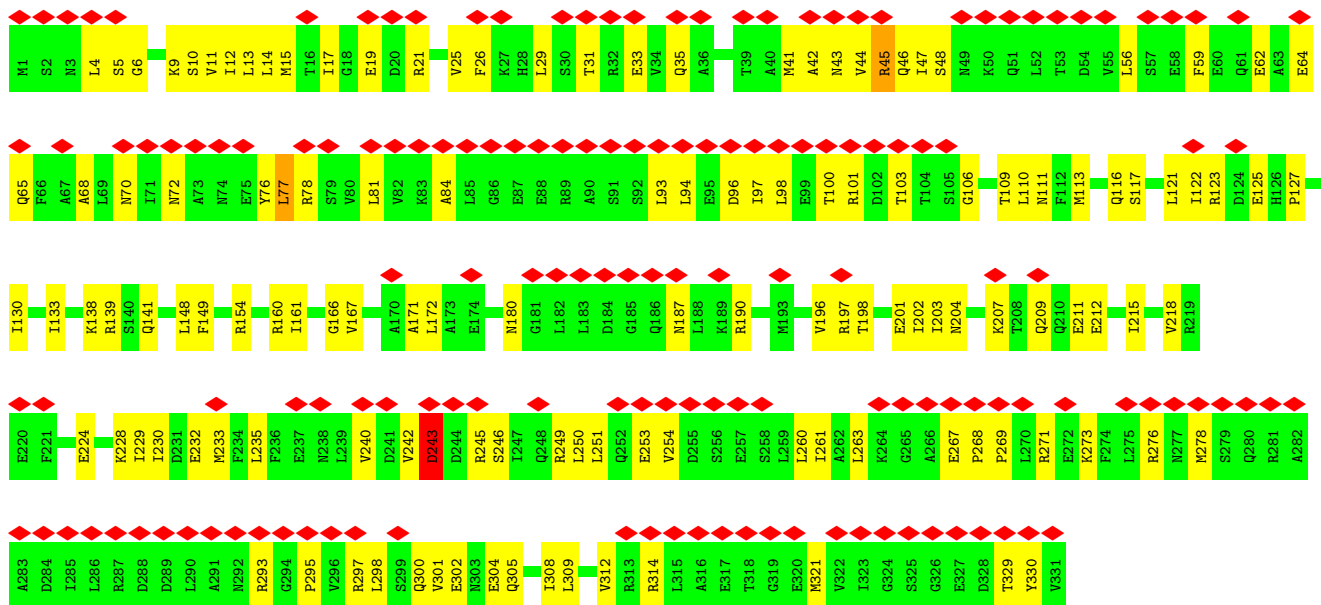
• Molecule 2: Flagellar motor switch protein FliG



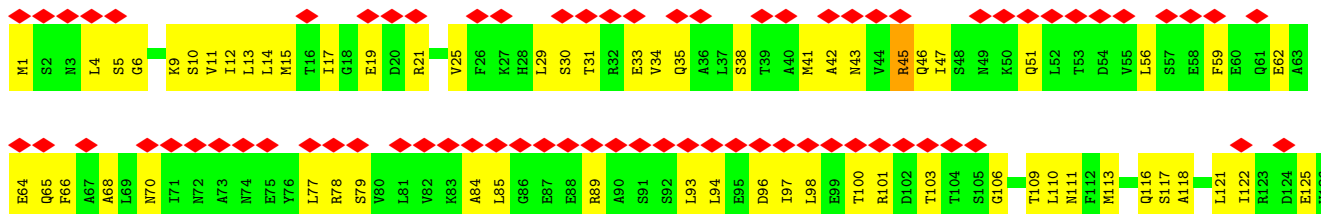
• Molecule 2: Flagellar motor switch protein FliG

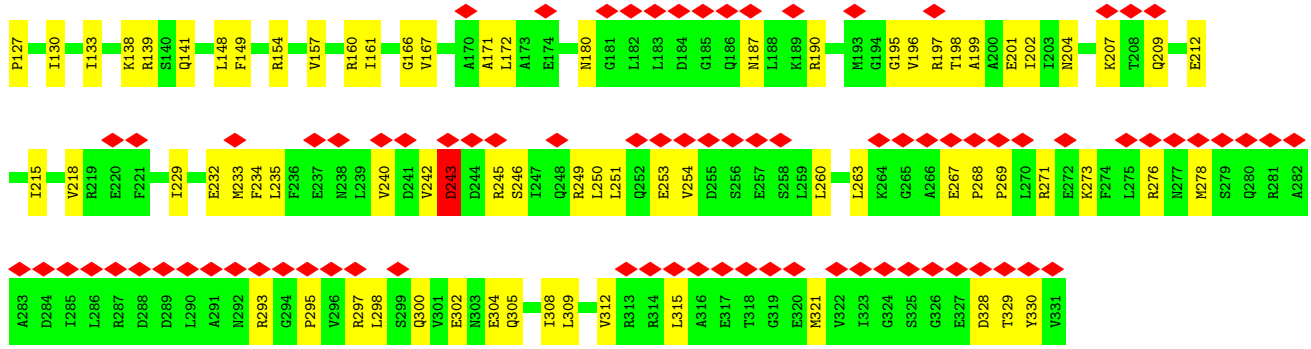


• Molecule 2: Flagellar motor switch protein FlIG

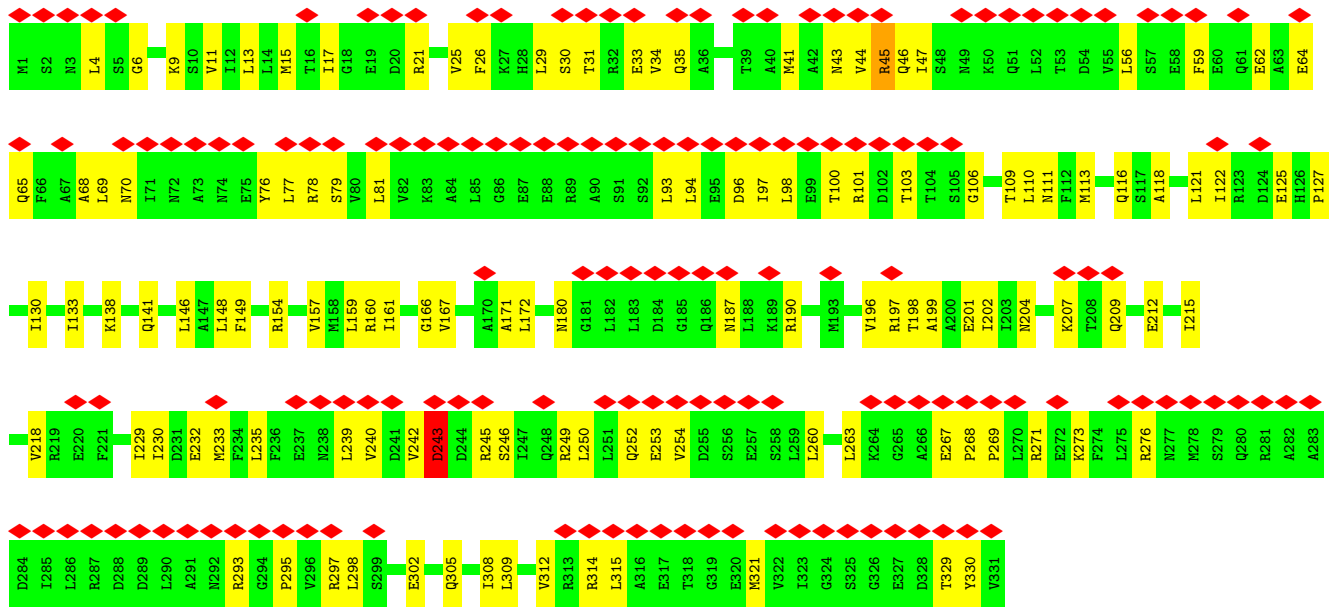


• Molecule 2: Flagellar motor switch protein FlIG

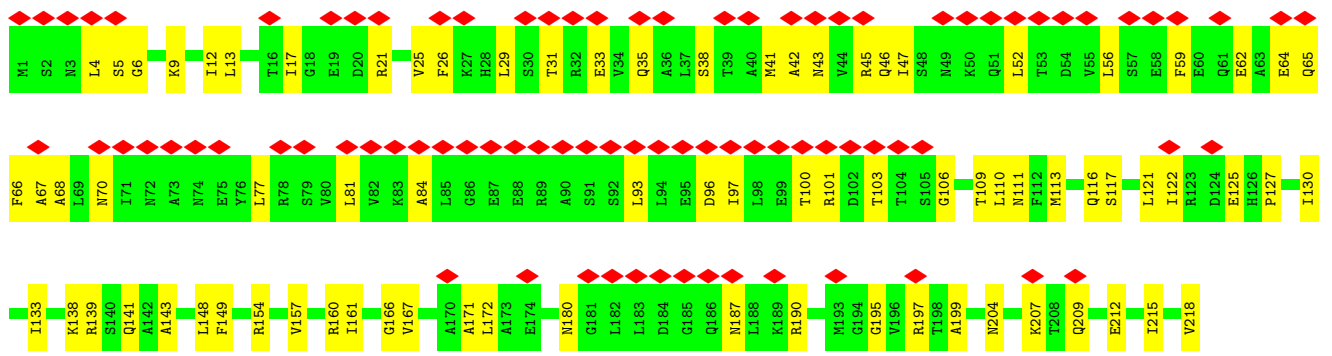


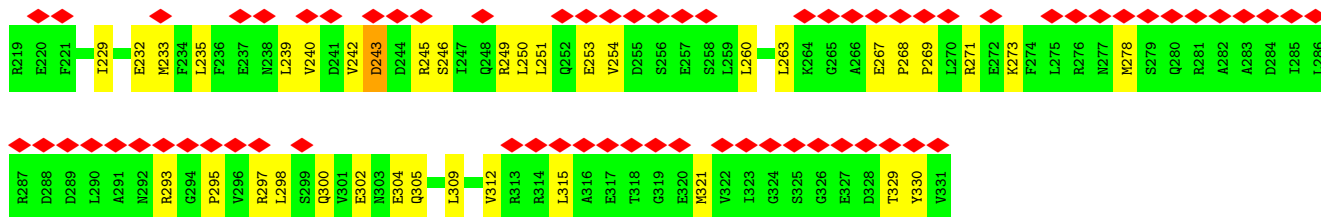


• Molecule 2: Flagellar motor switch protein FliG

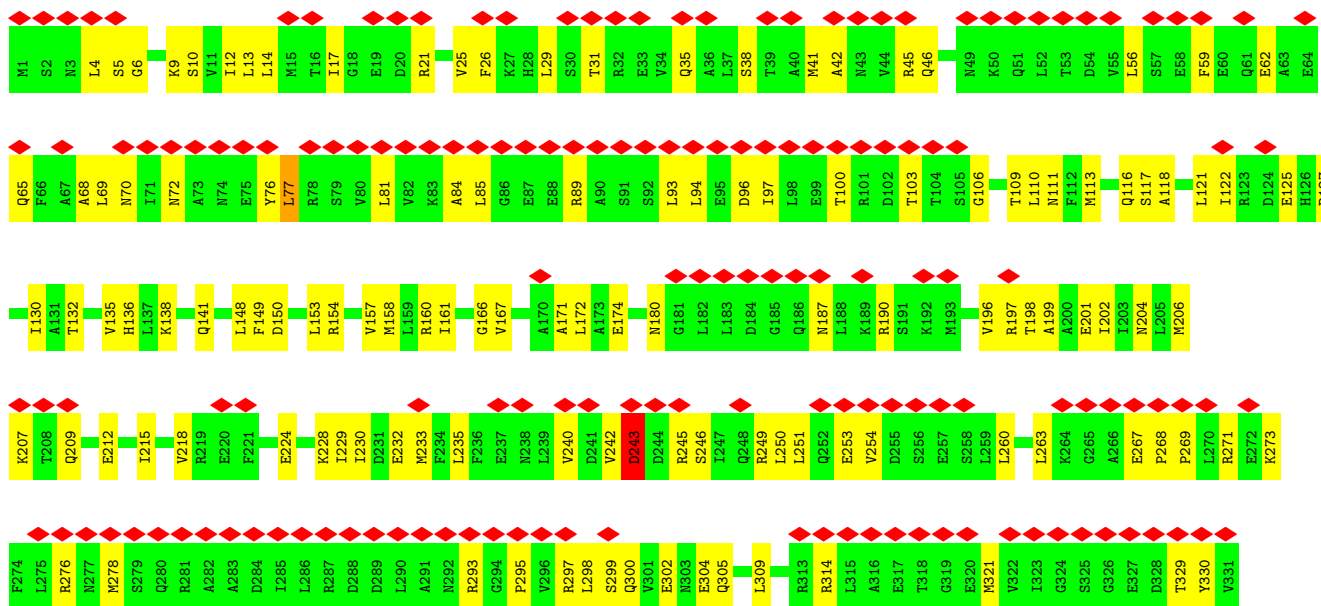


• Molecule 2: Flagellar motor switch protein FliG

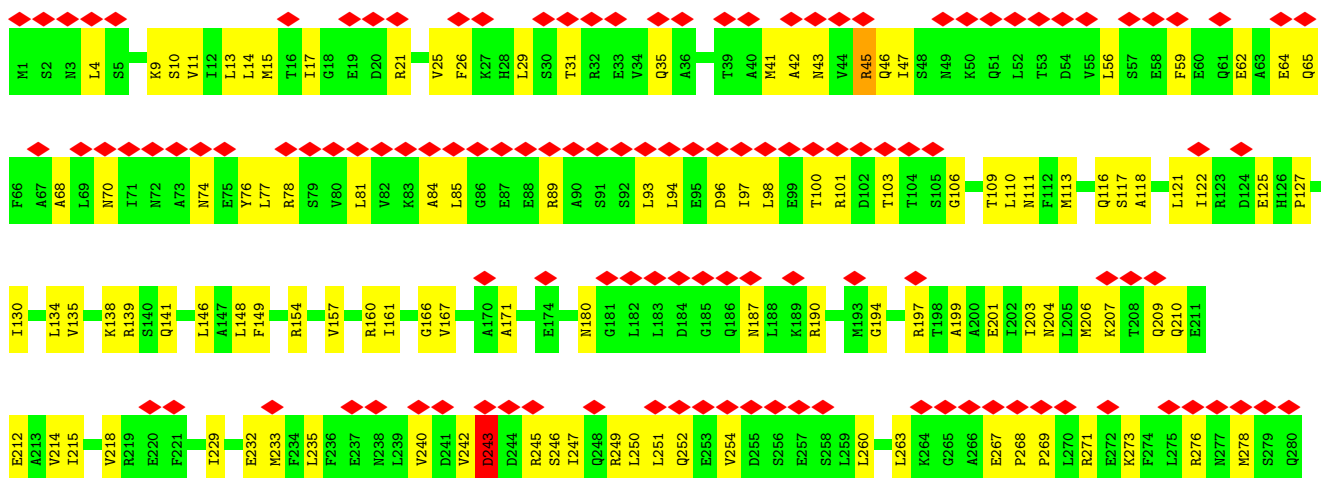


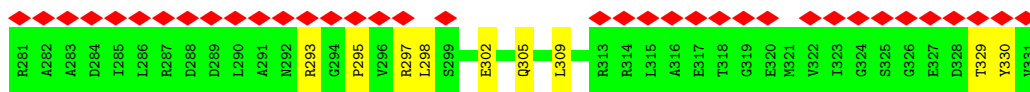


• Molecule 2: Flagellar motor switch protein FliG

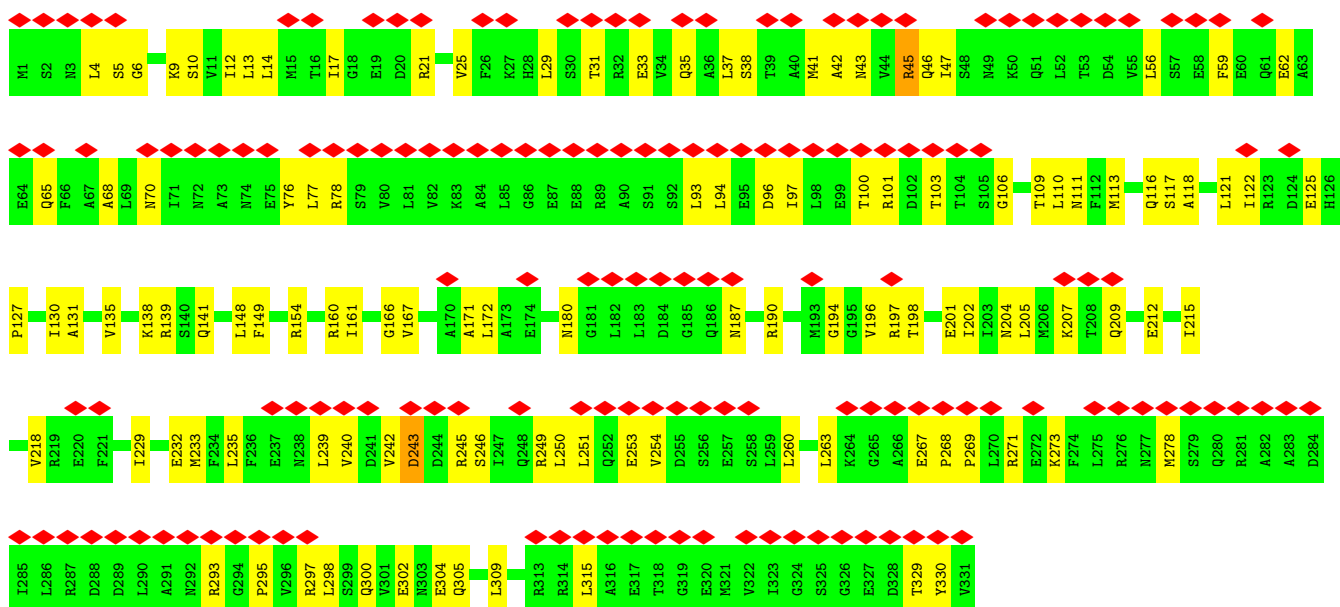


• Molecule 2: Flagellar motor switch protein FliG

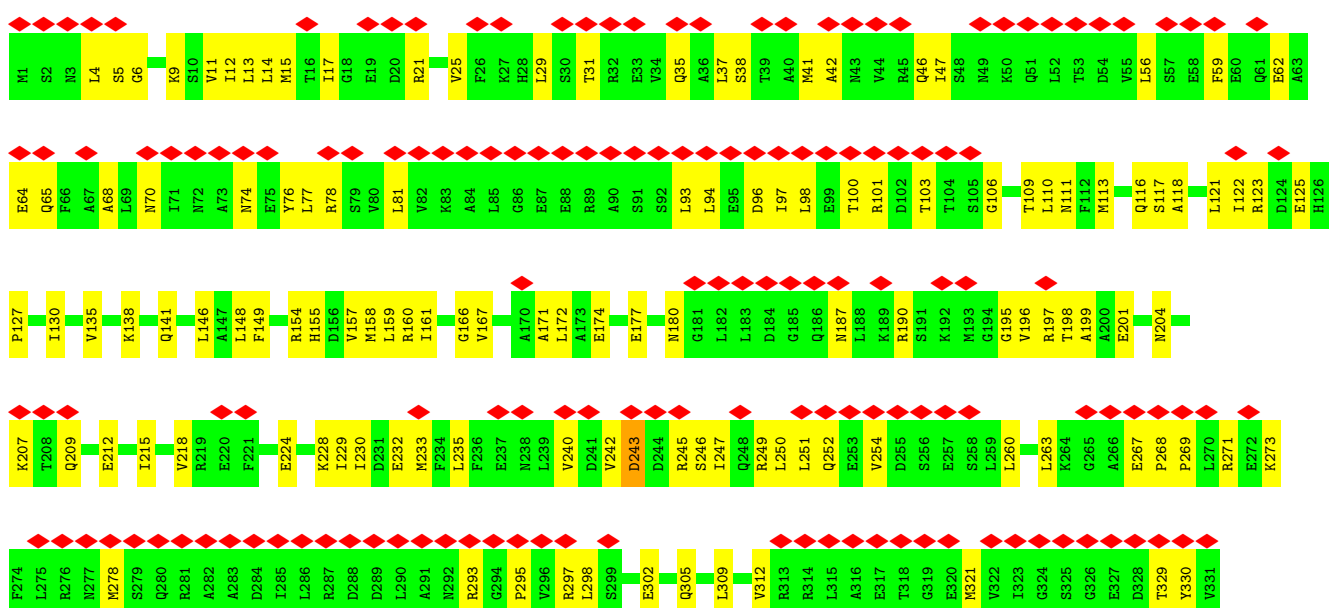




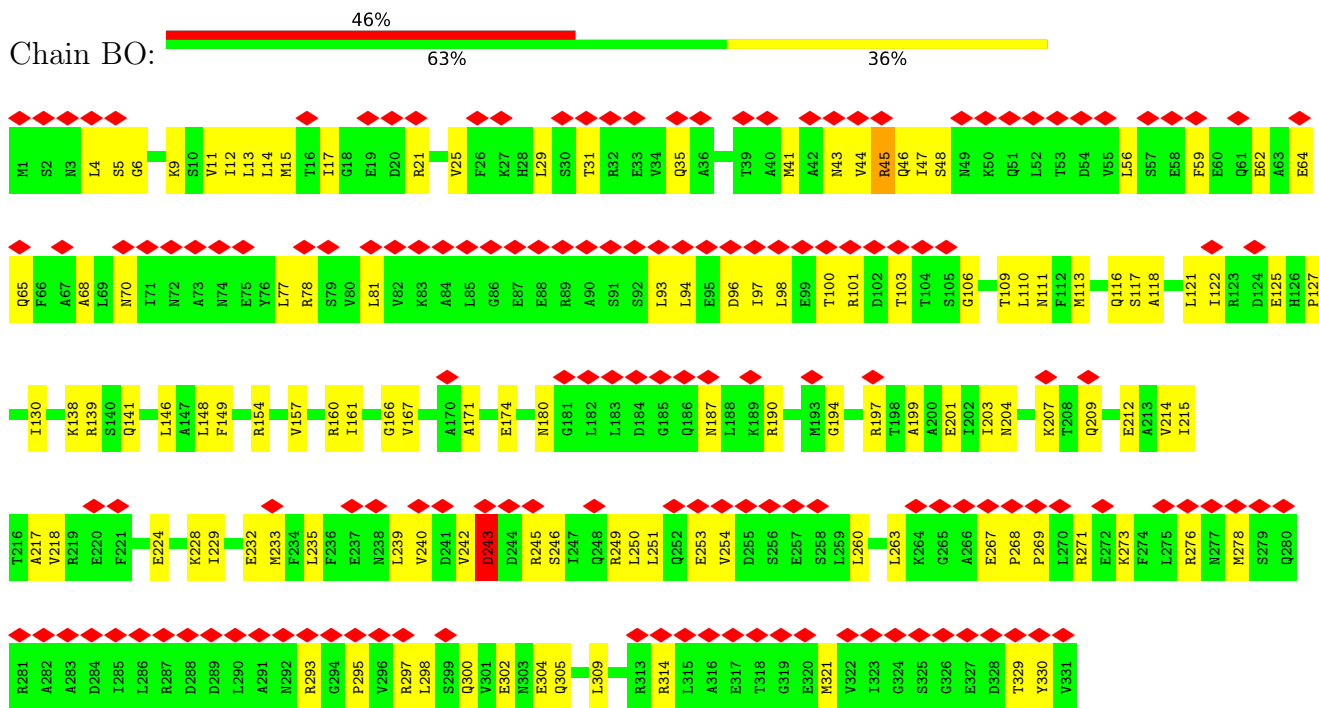
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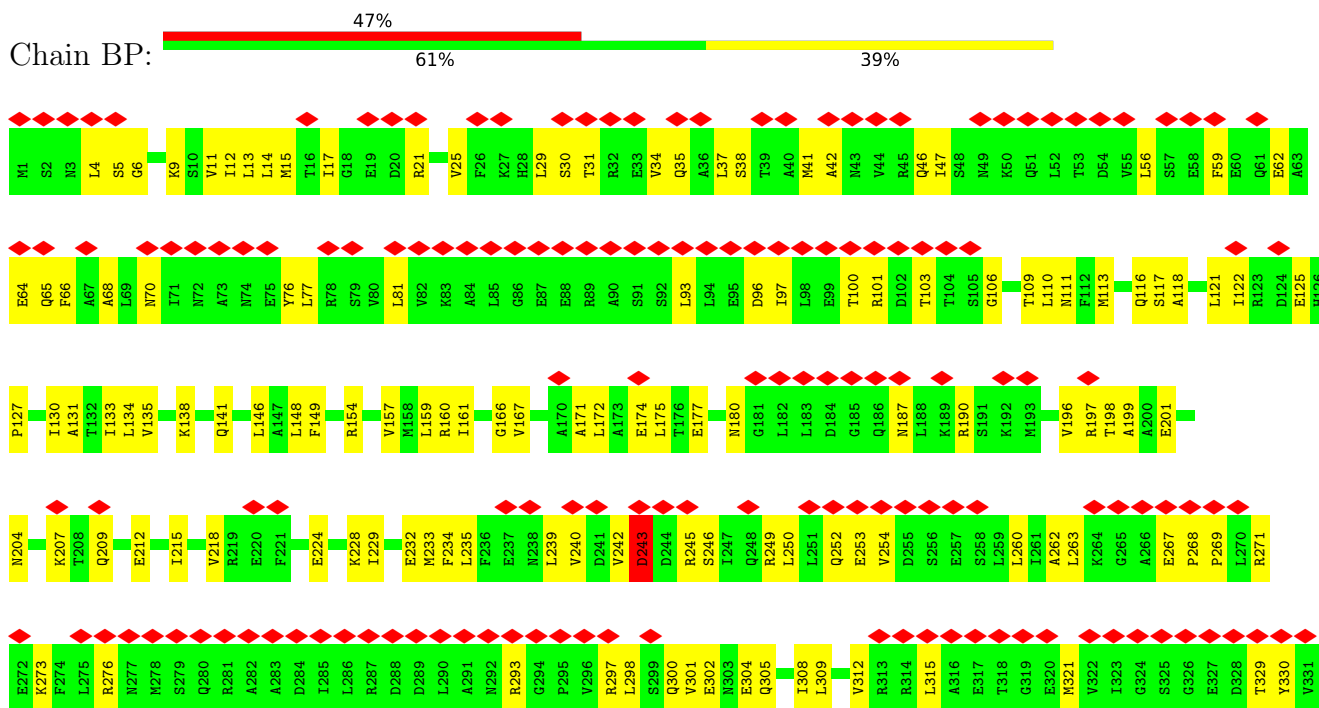
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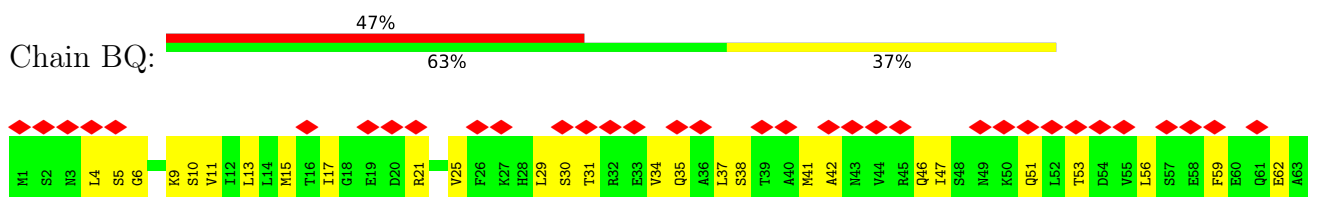
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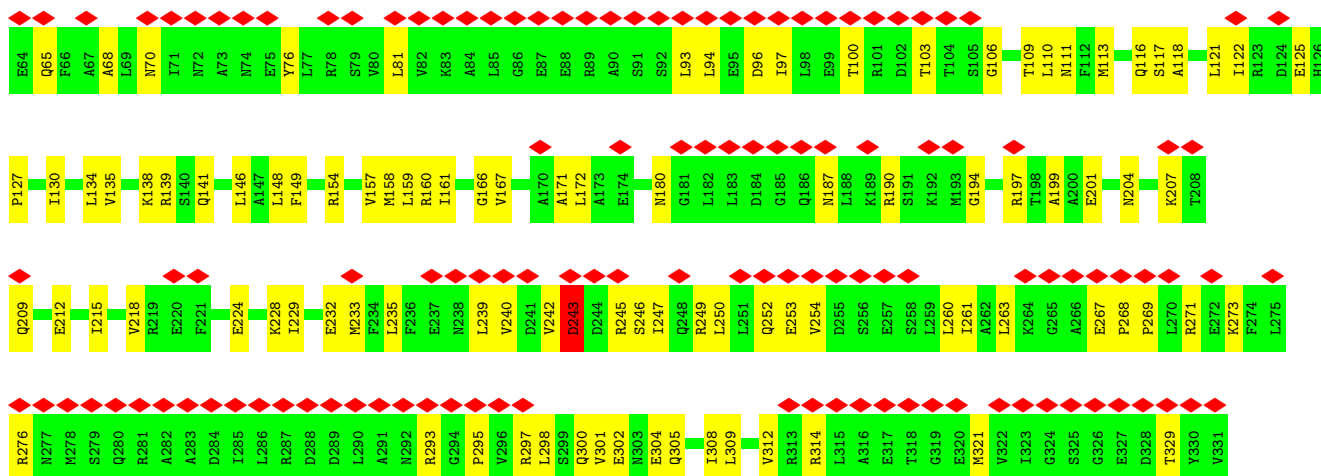


• Molecule 2: Flagellar motor switch protein FliG

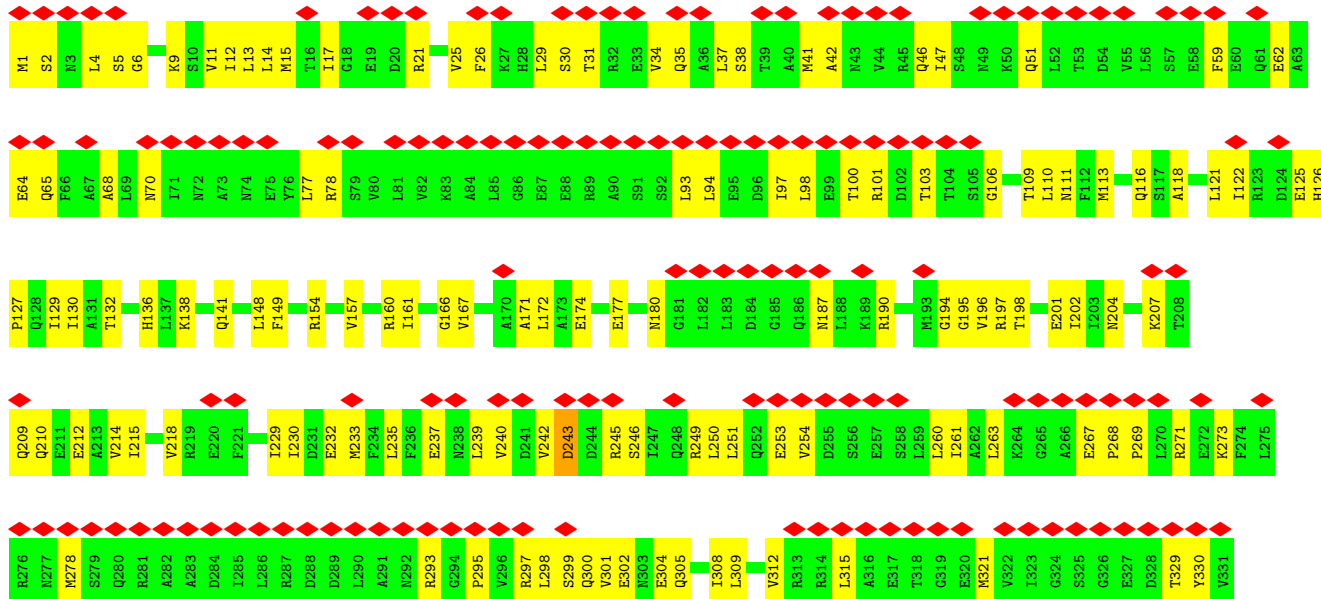


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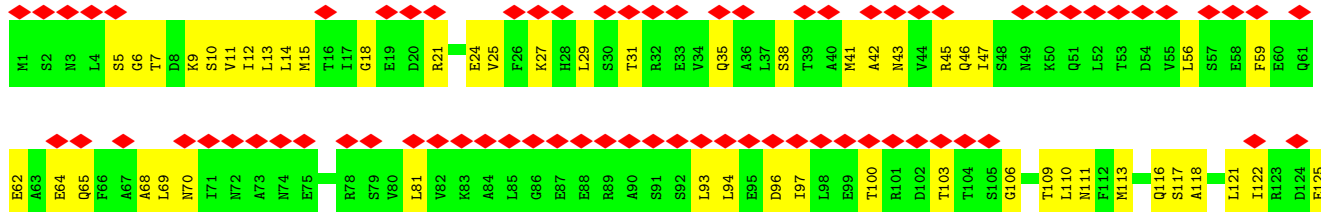


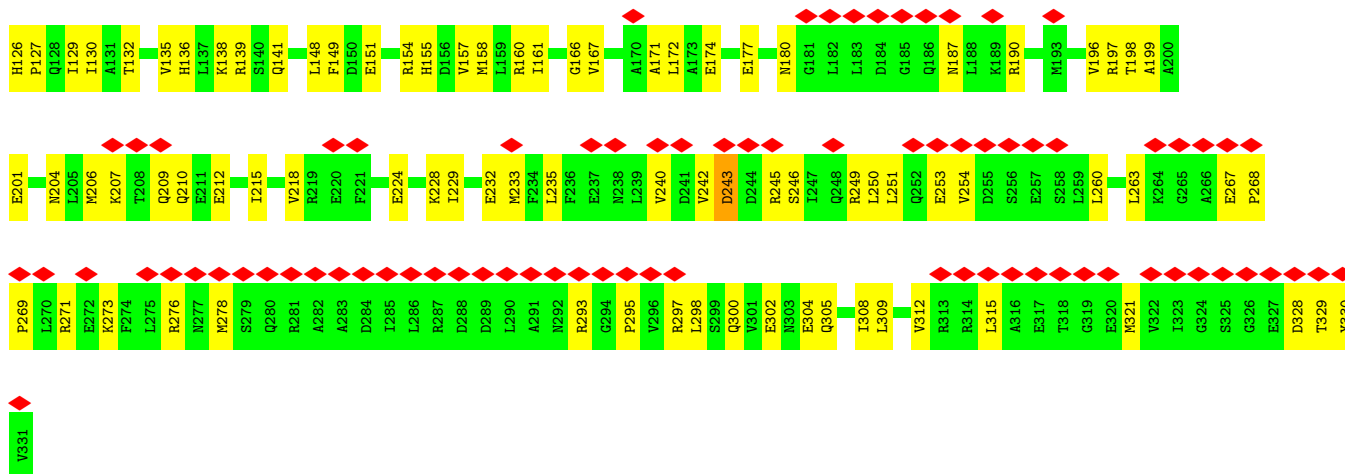


• Molecule 2: Flagellar motor switch protein FlIG

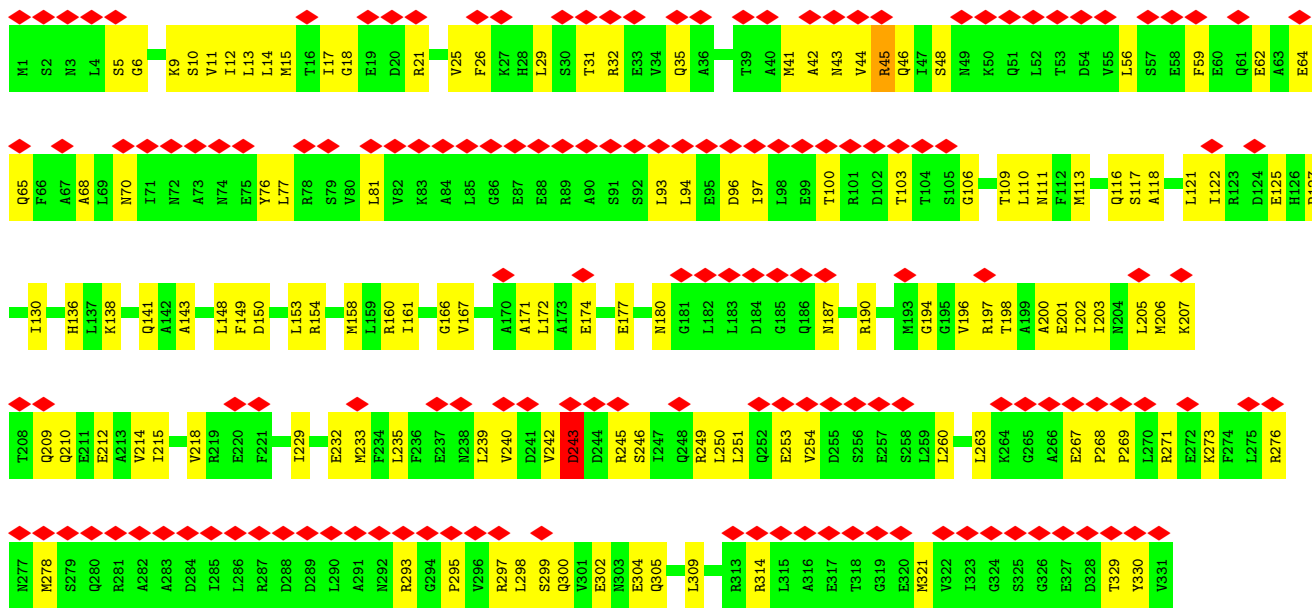


• Molecule 2: Flagellar motor switch protein FlIG

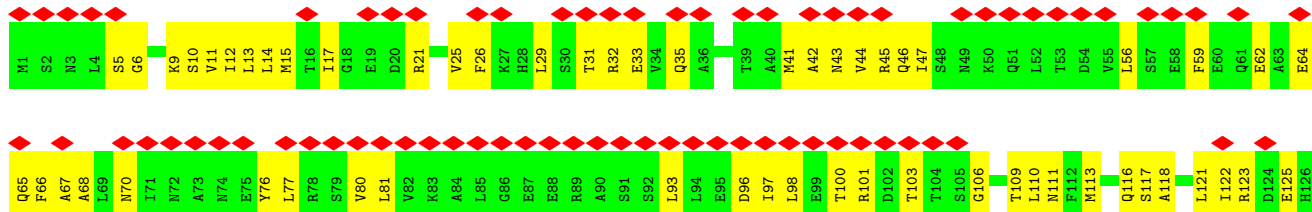


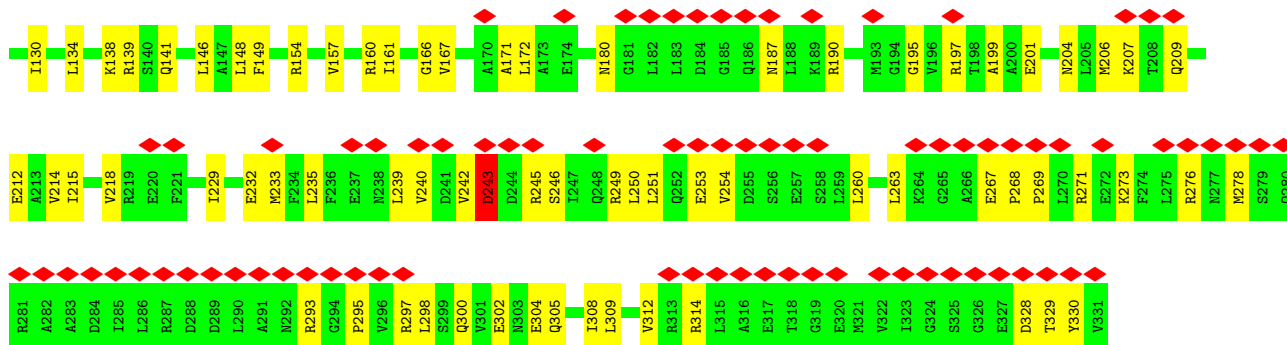


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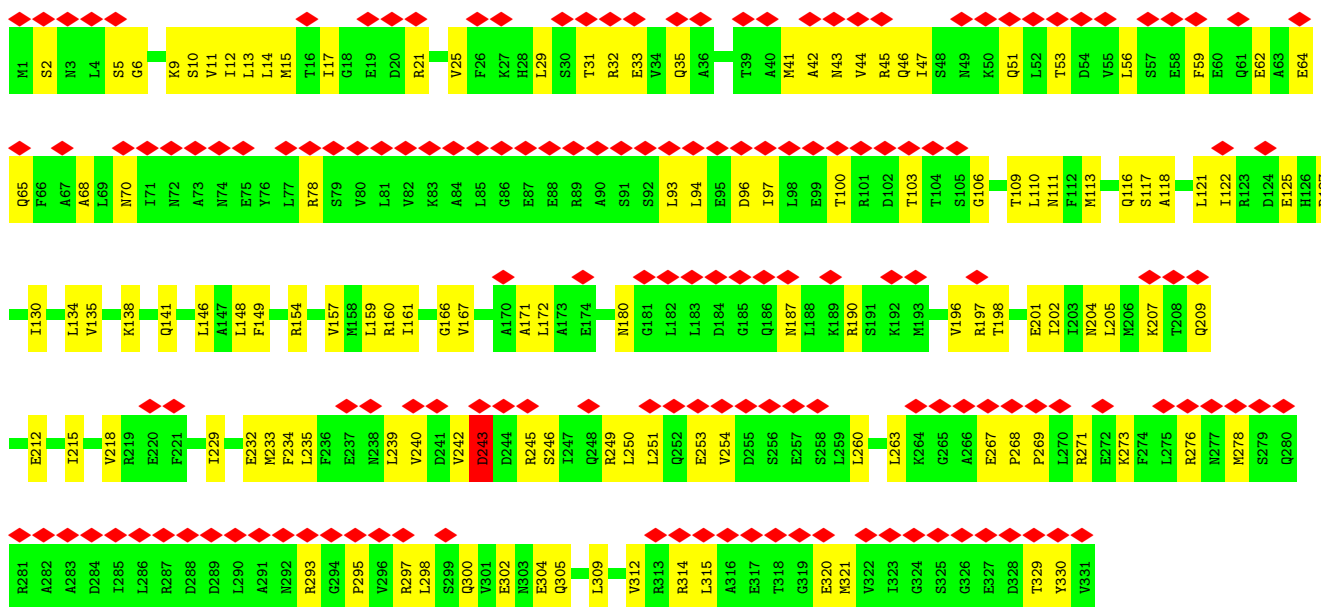


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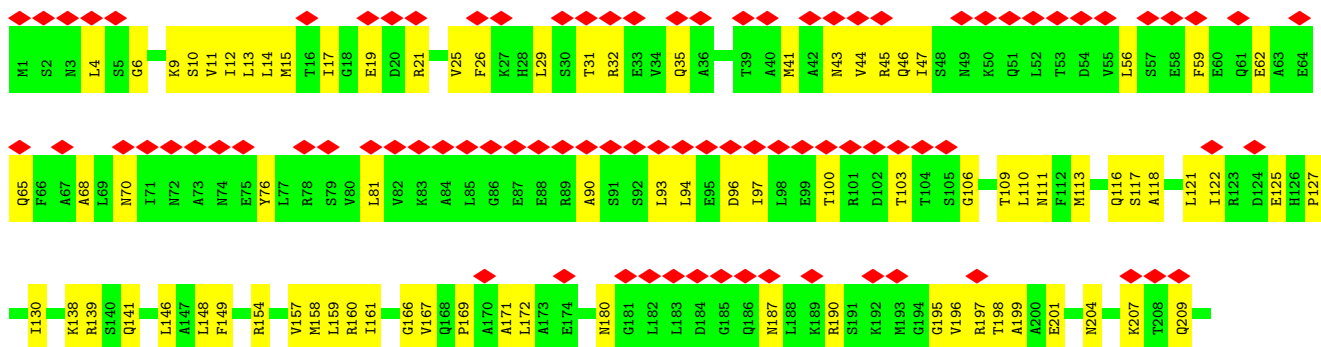


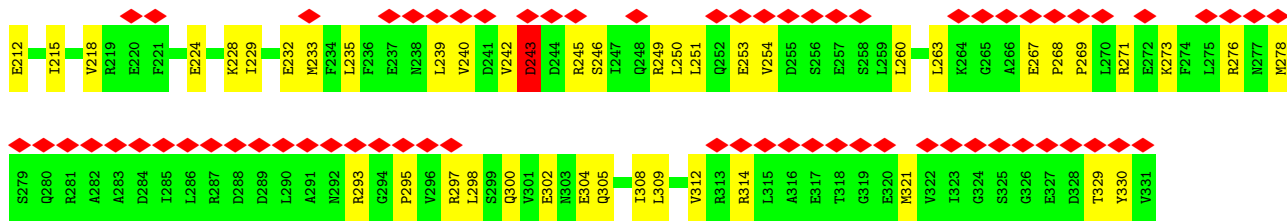


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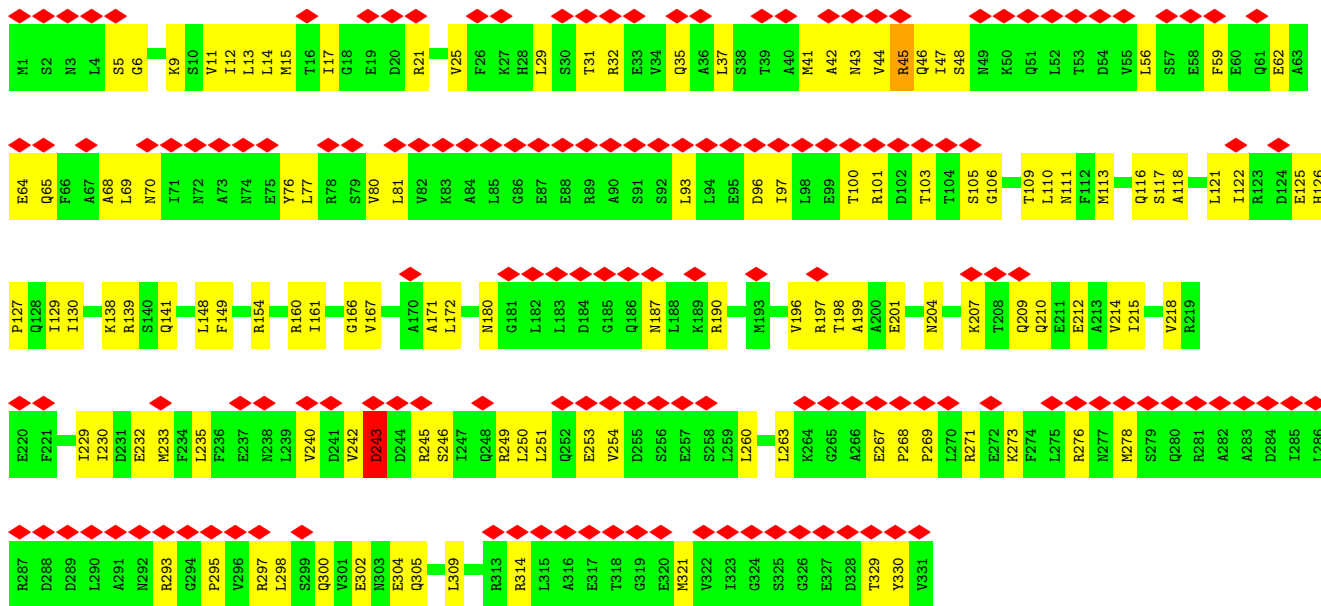


• Molecule 2: Flagellar motor switch protein FliG

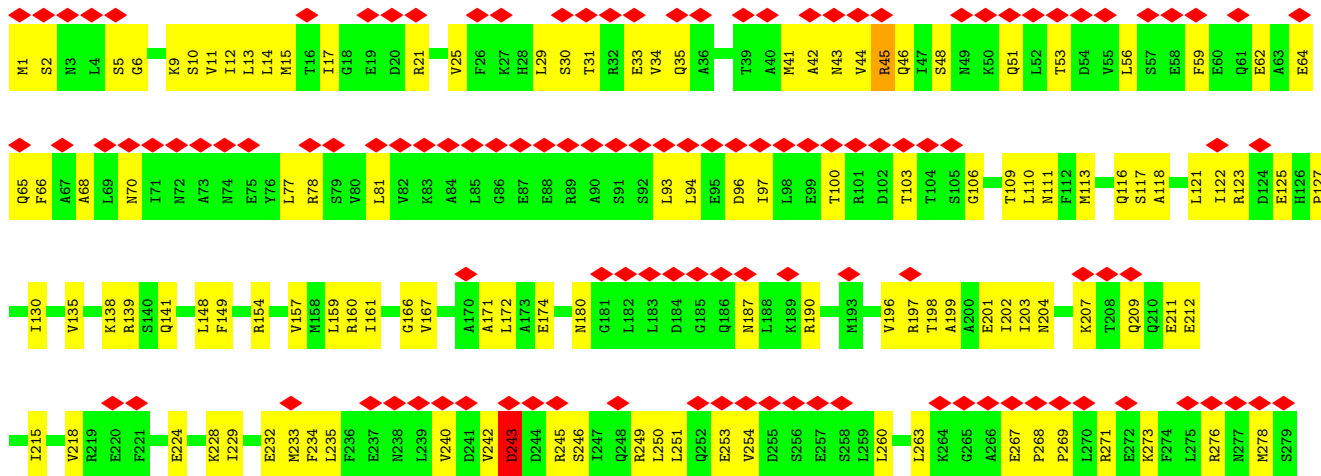


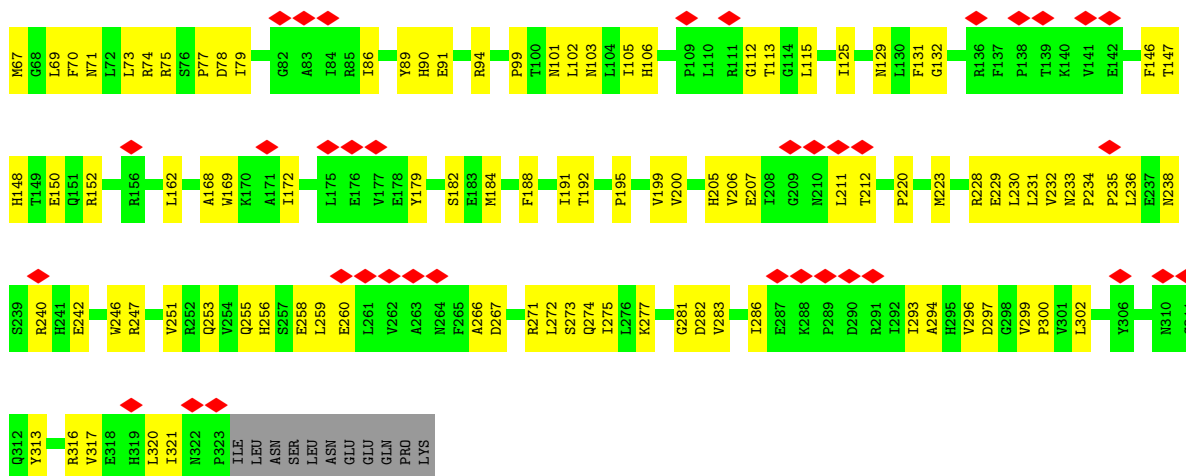


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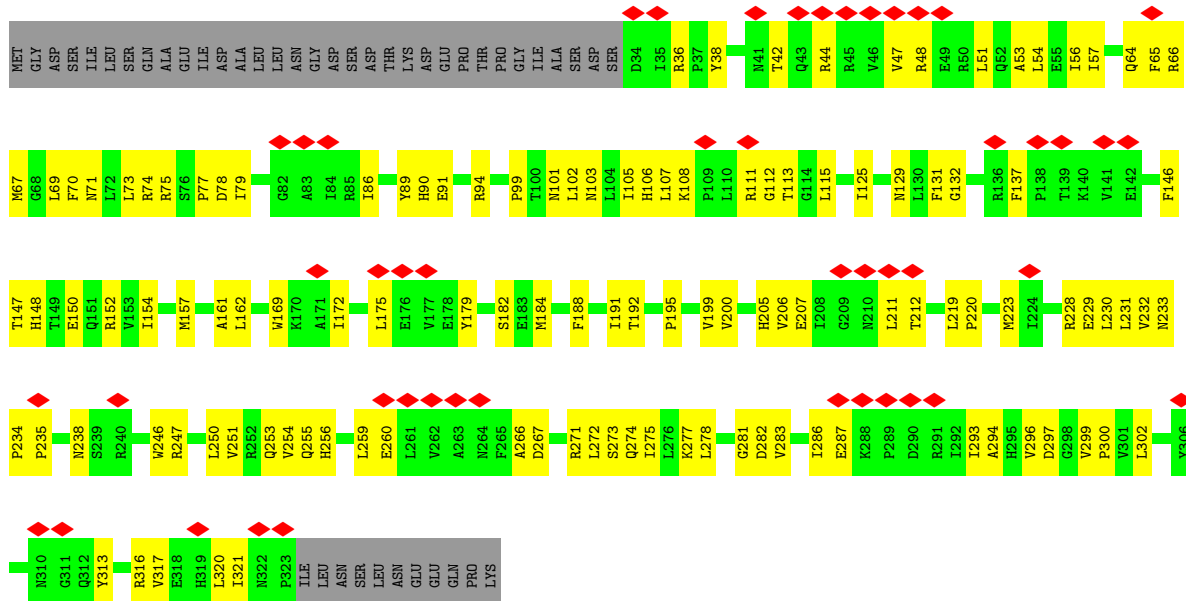


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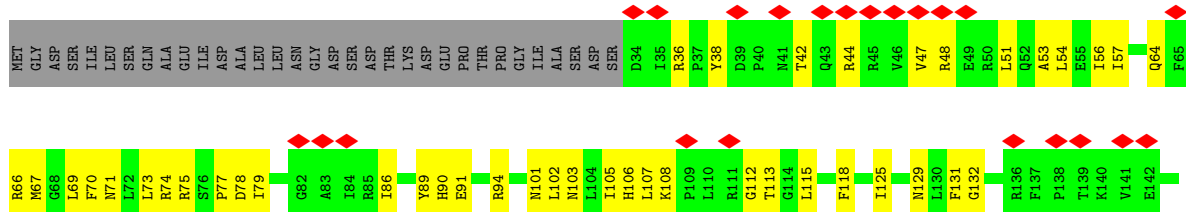


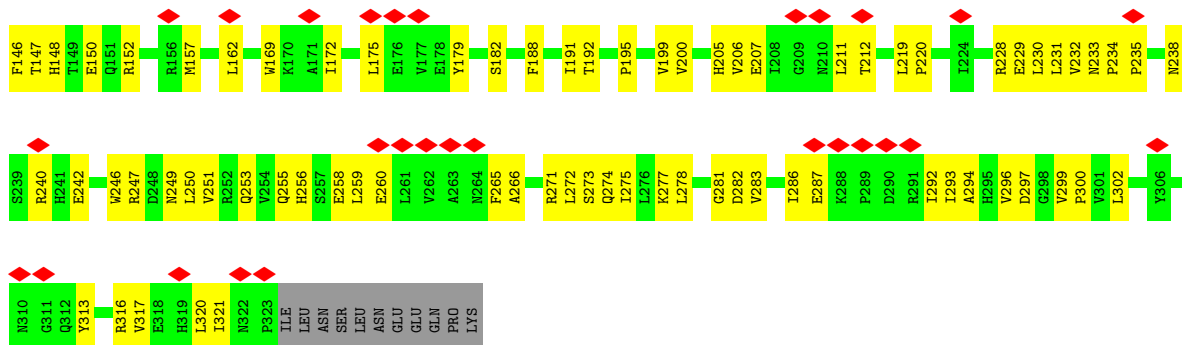


• Molecule 3: Flagellar motor switch protein FlIM

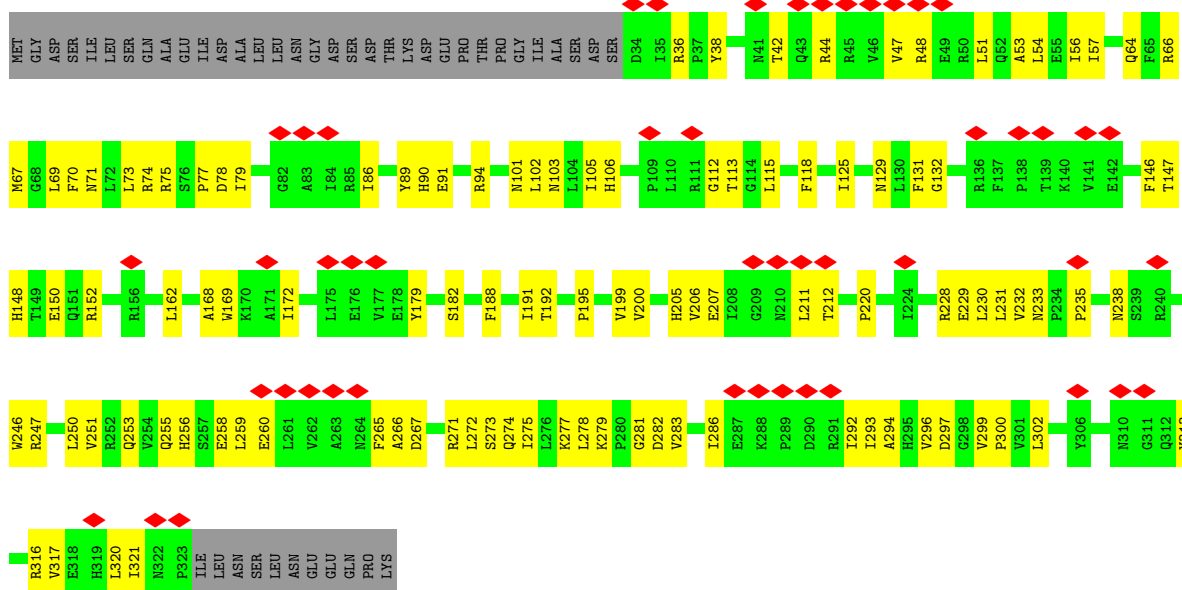


• Molecule 3: Flagellar motor switch protein FlIM

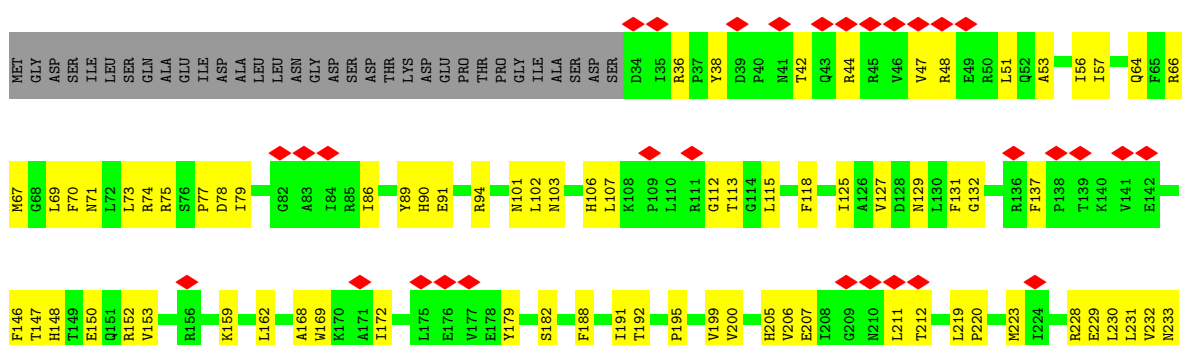


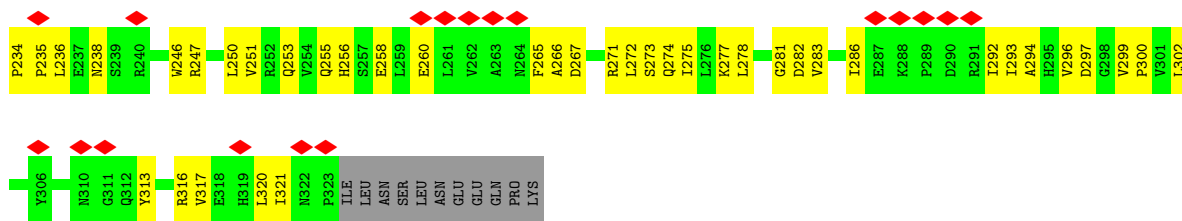


• Molecule 3: Flagellar motor switch protein FlIM

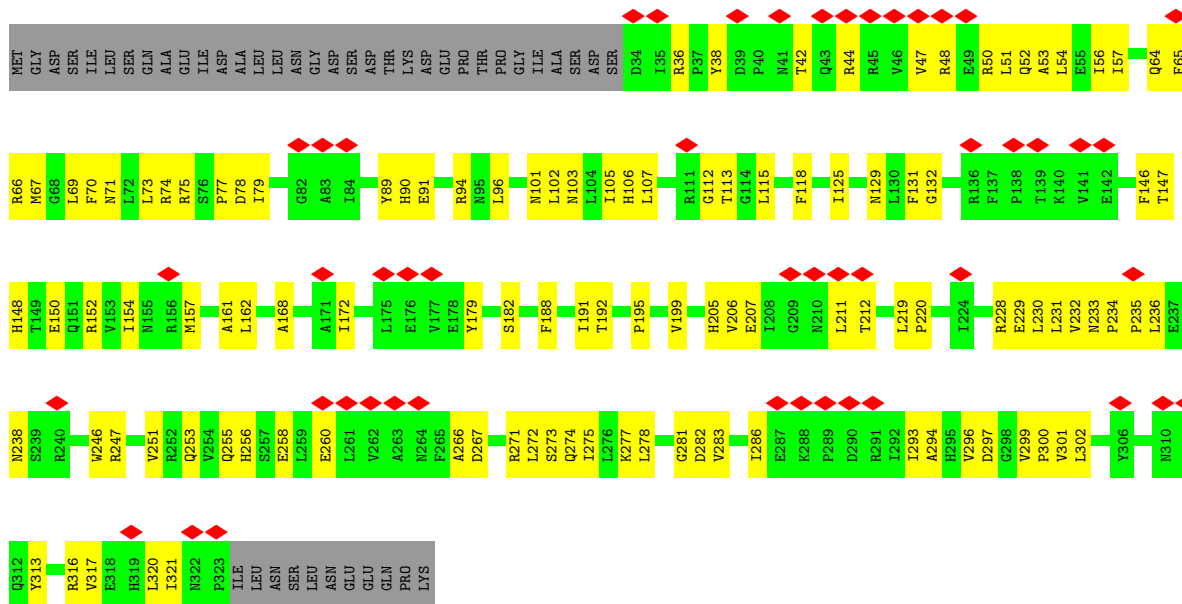


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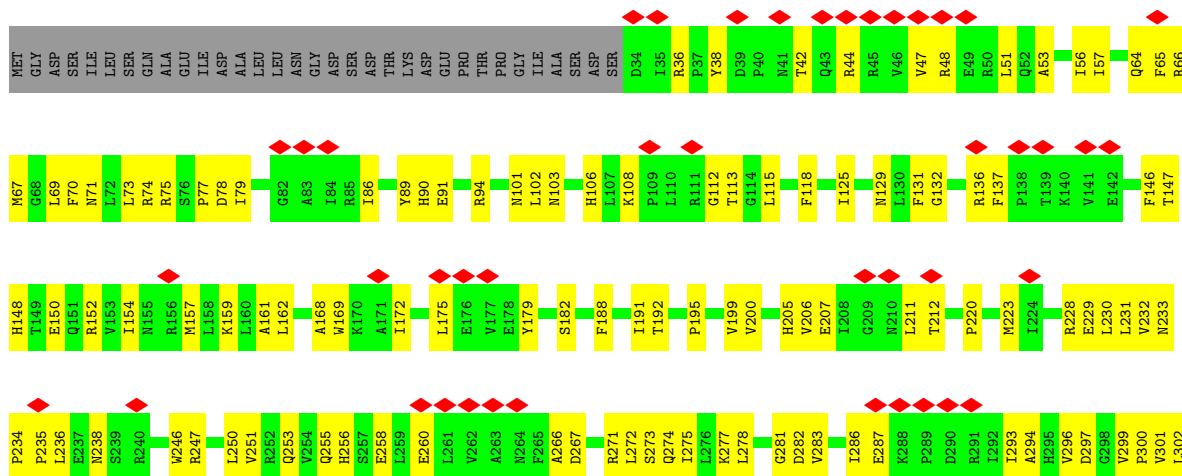




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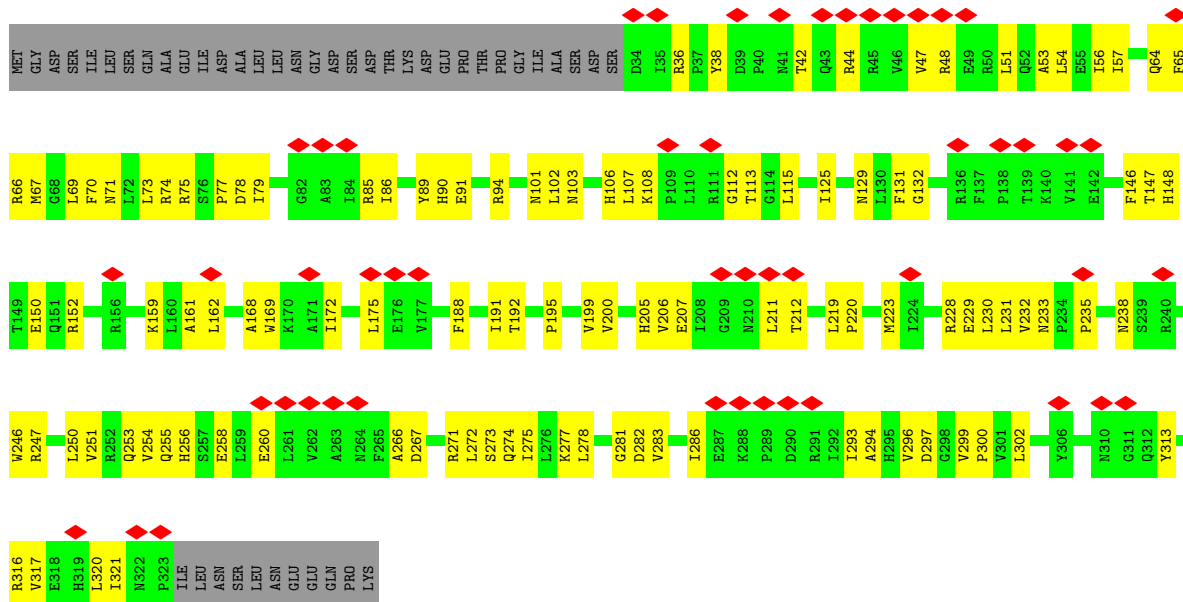


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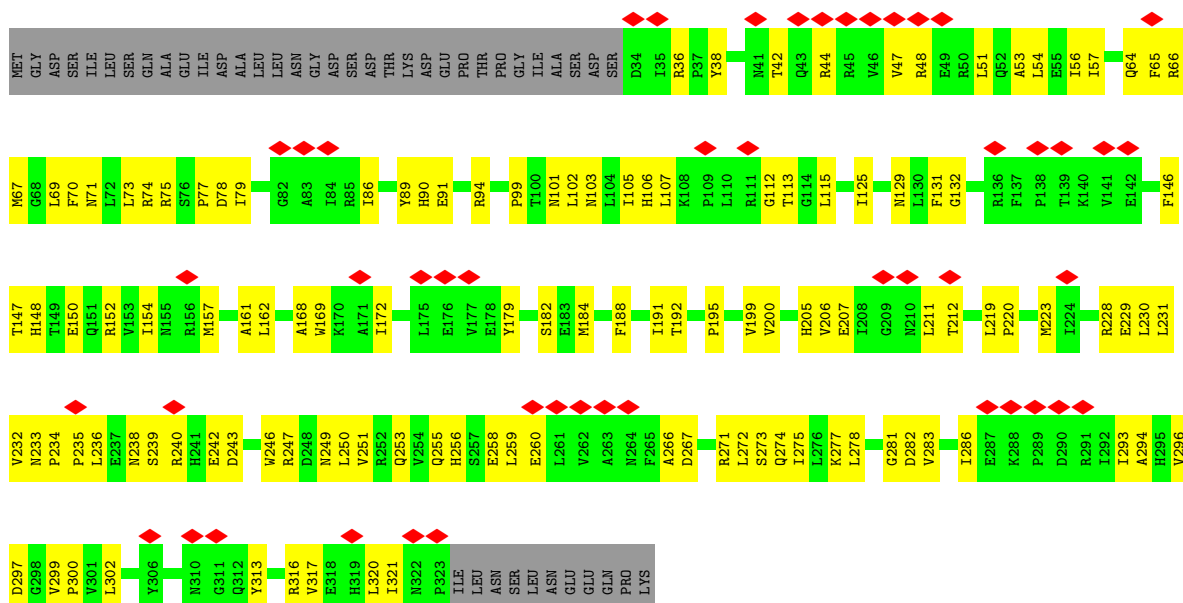




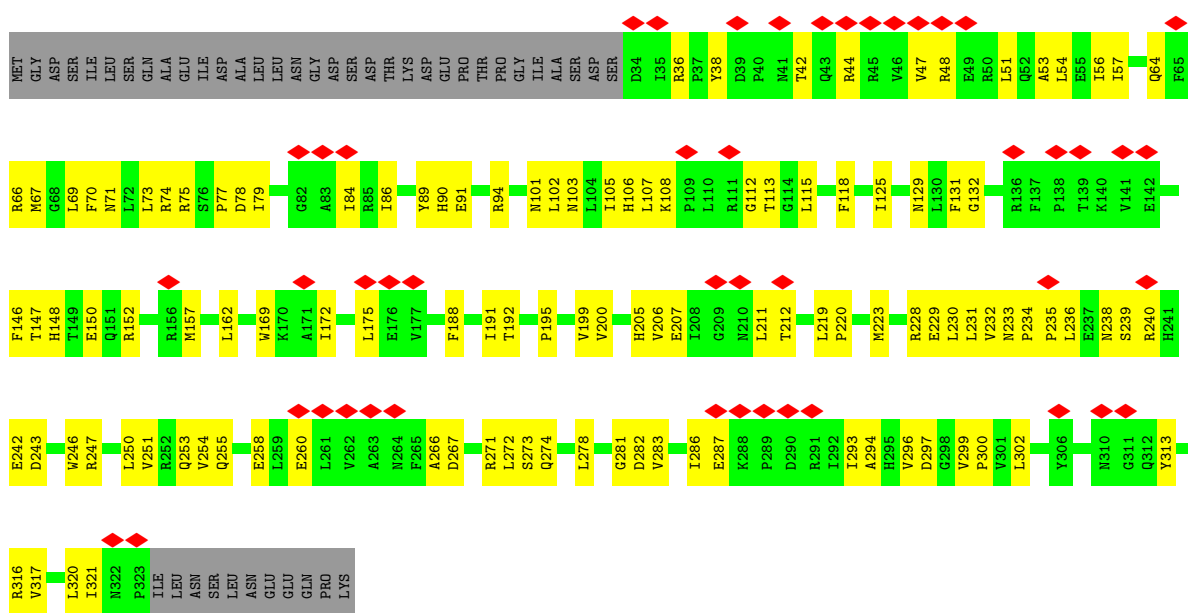
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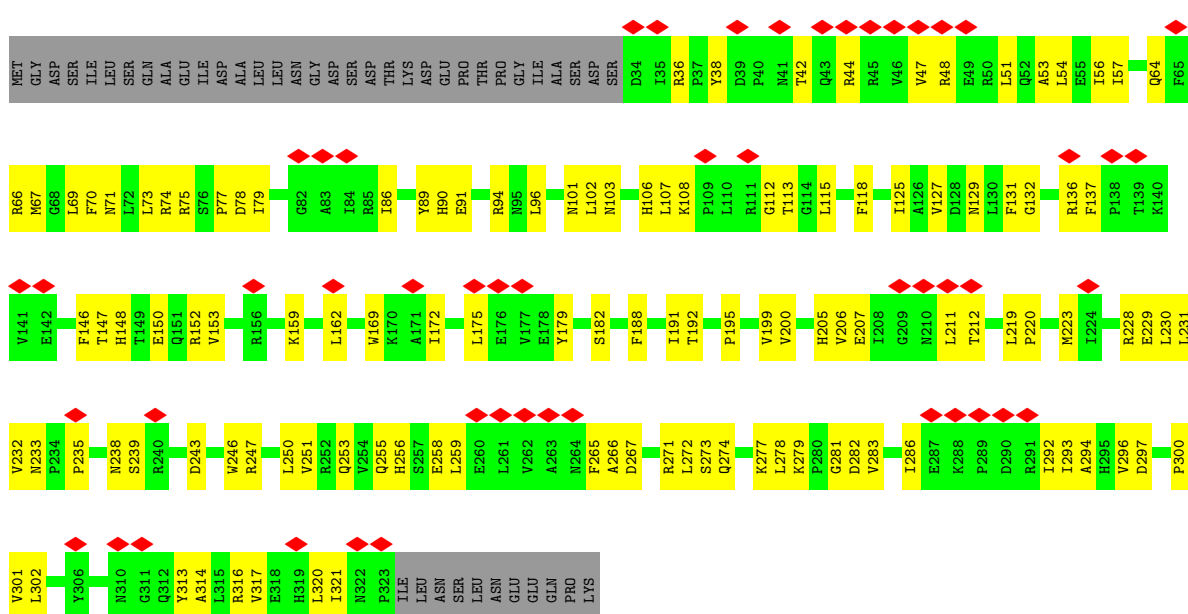
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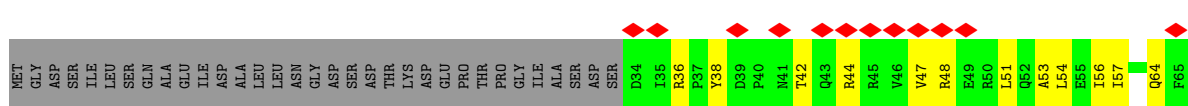
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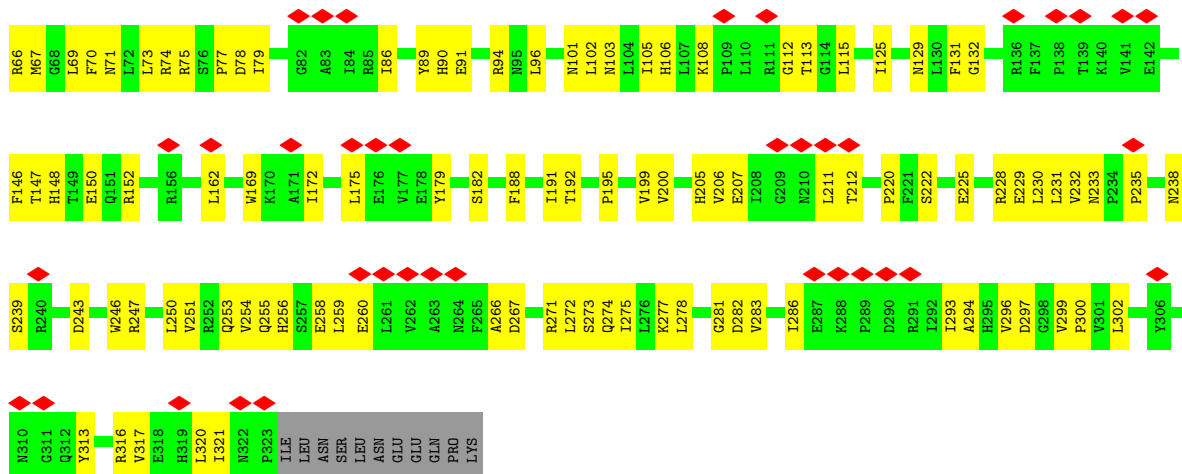


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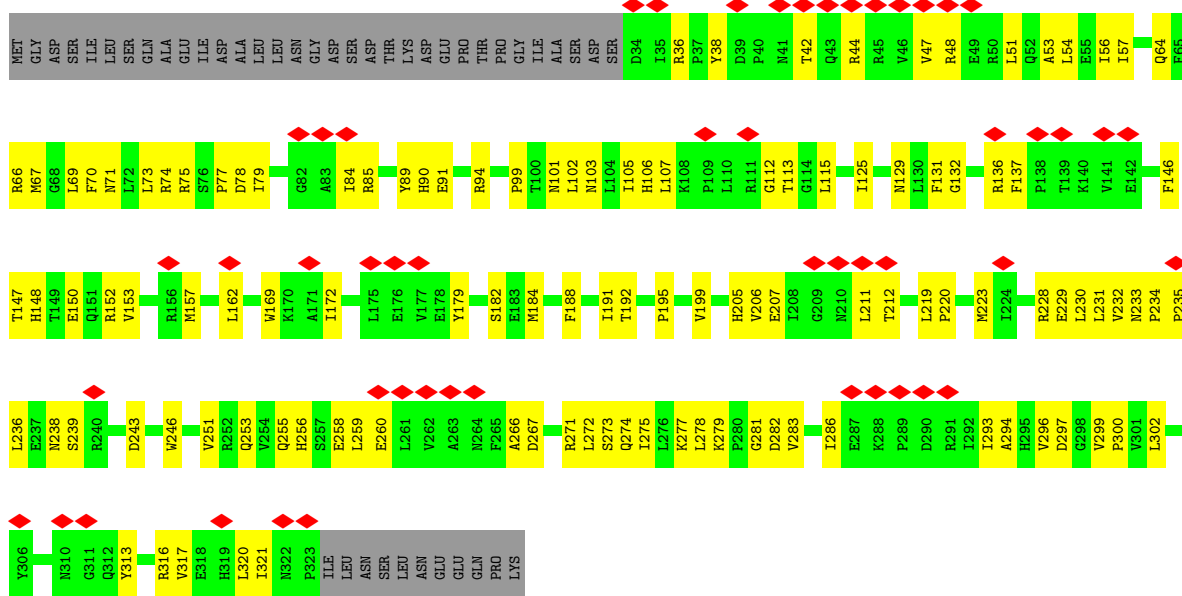


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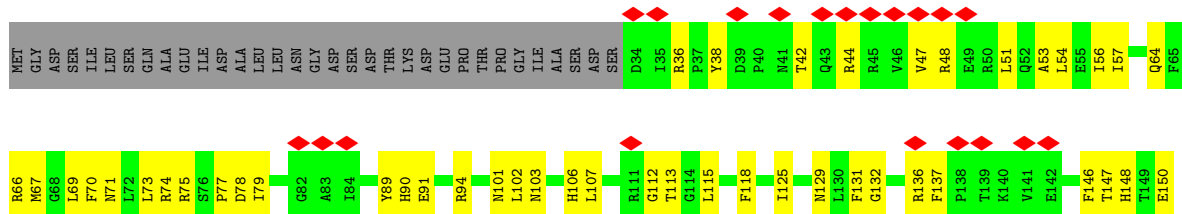


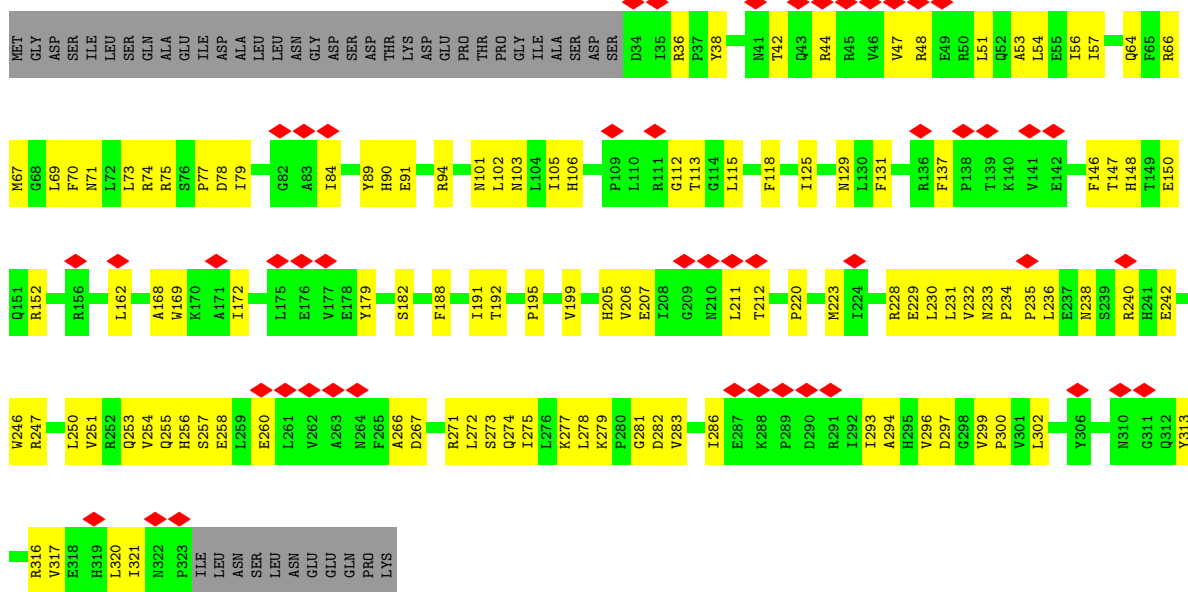


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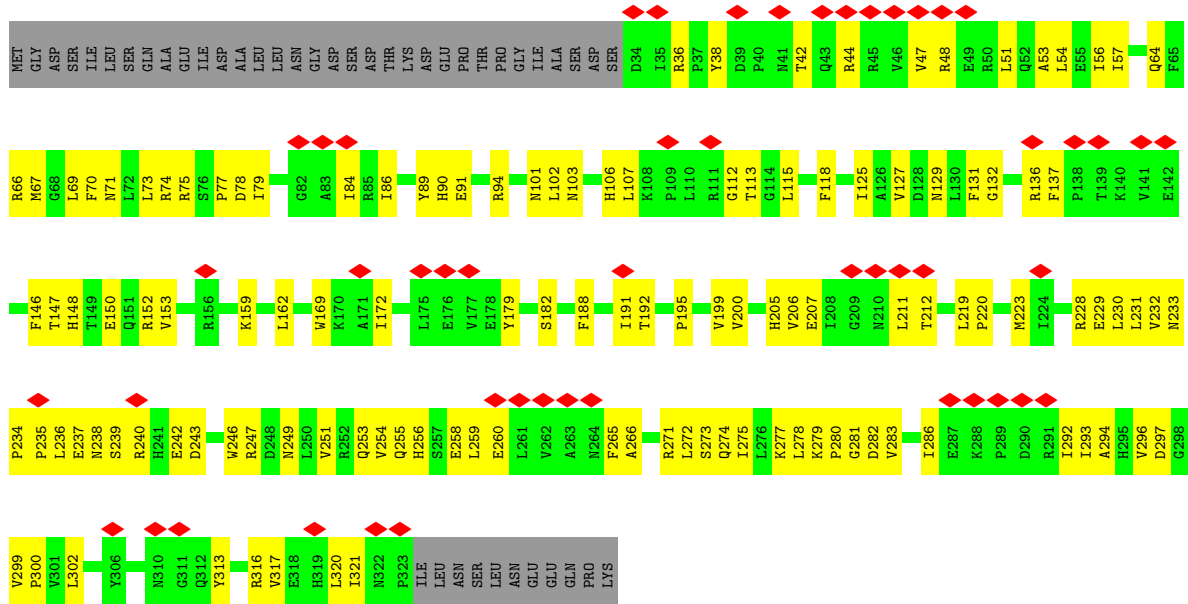


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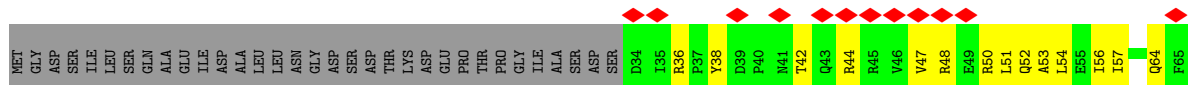


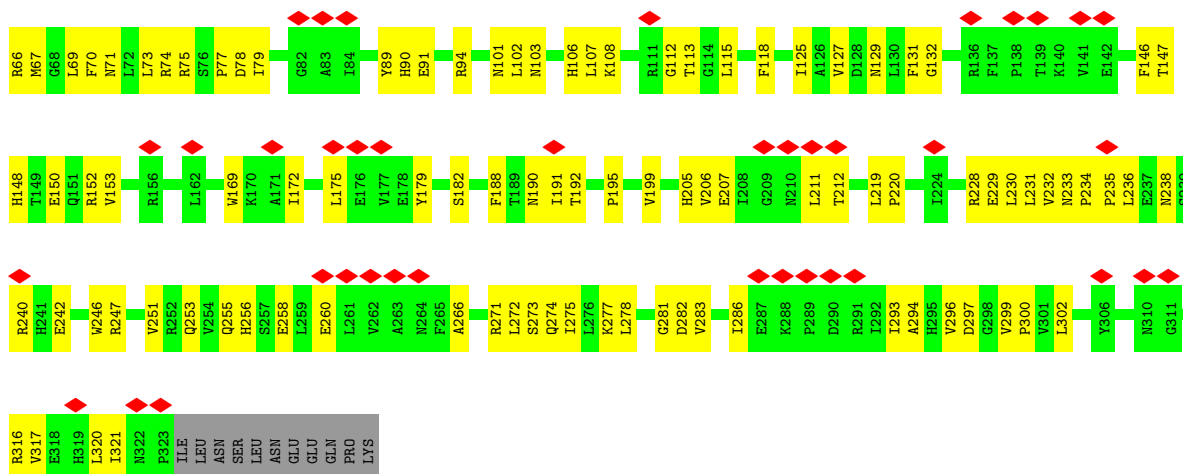


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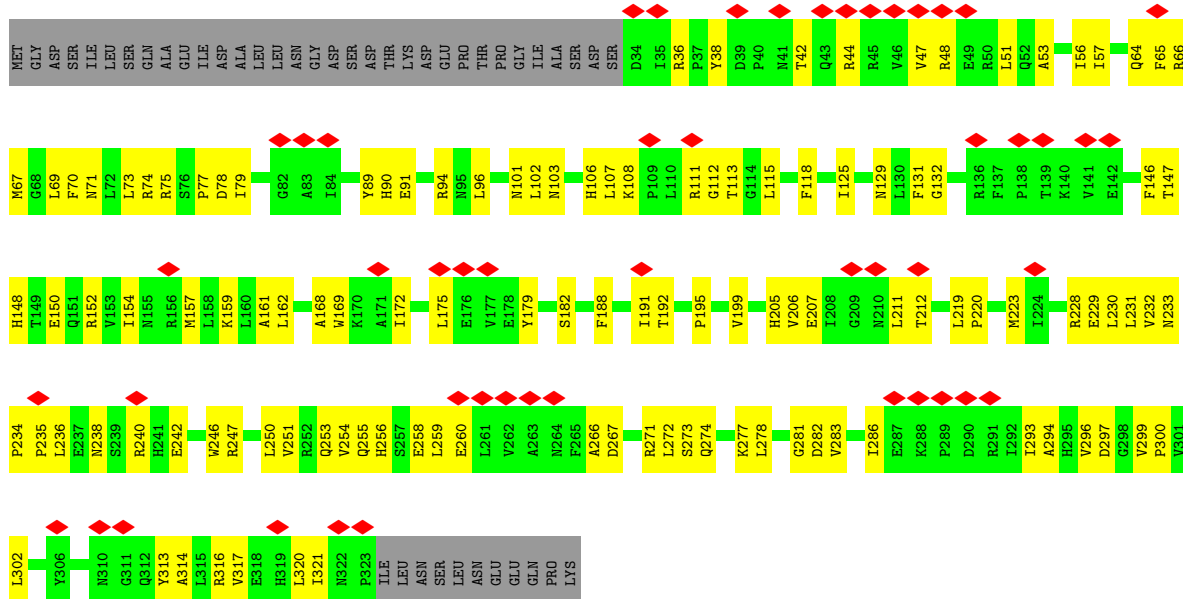


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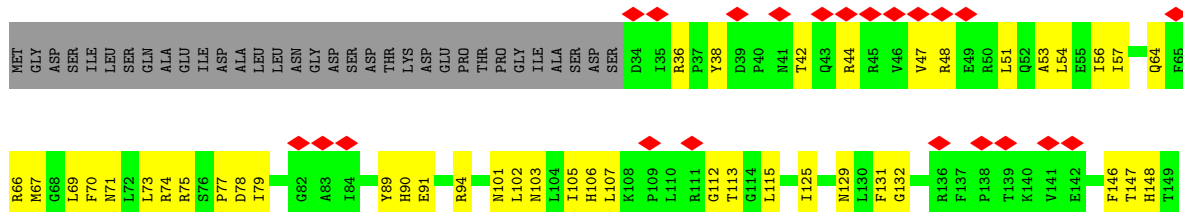


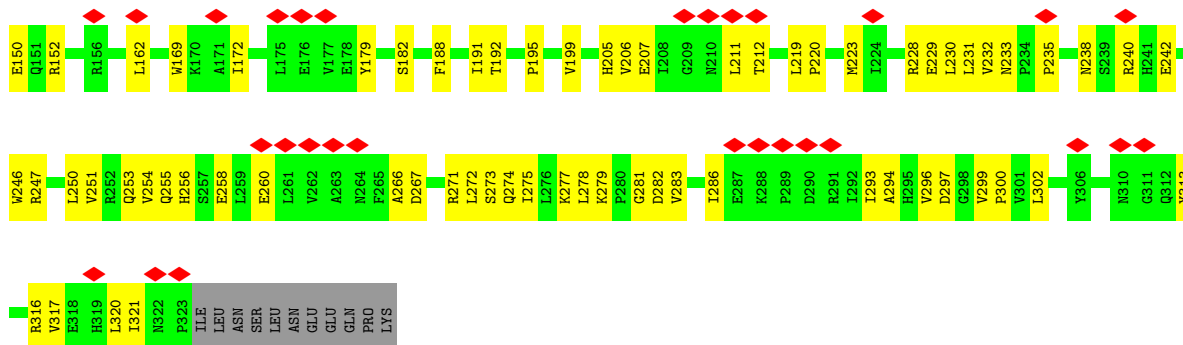


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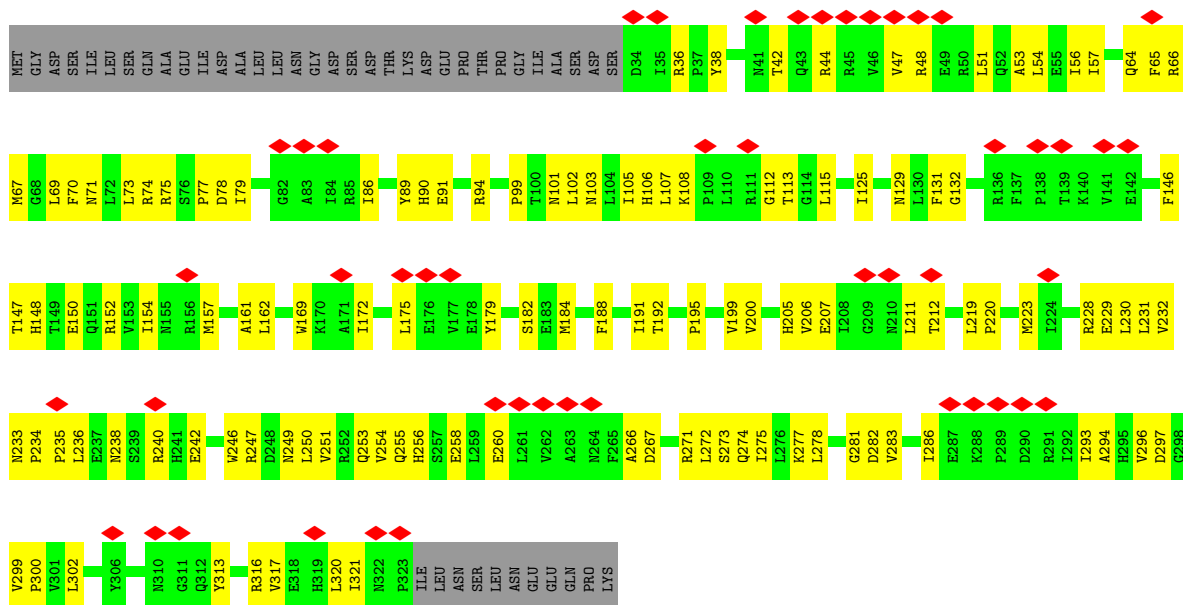


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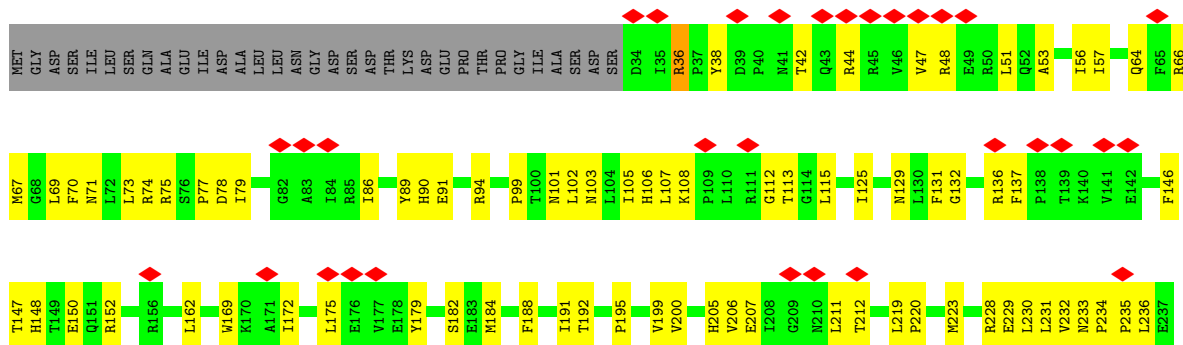


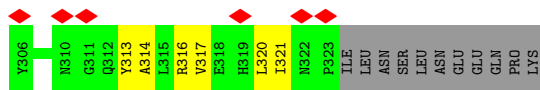


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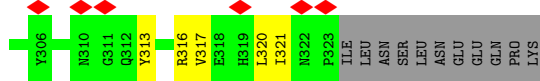
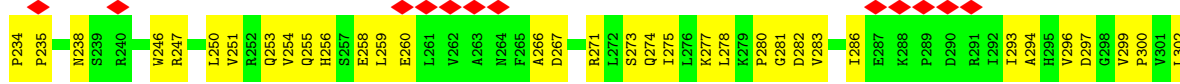
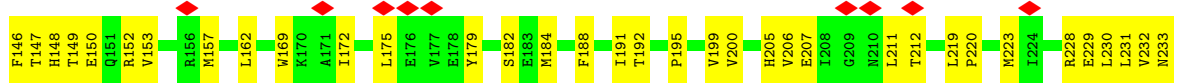
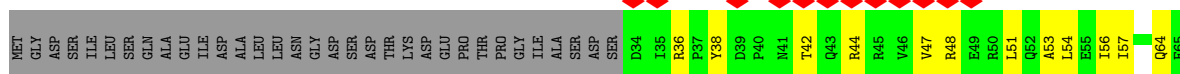


• Molecule 3: Flagellar motor switch protein FlIM

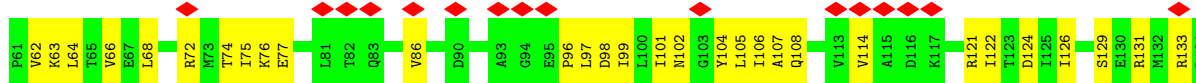
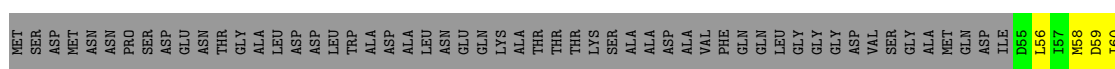




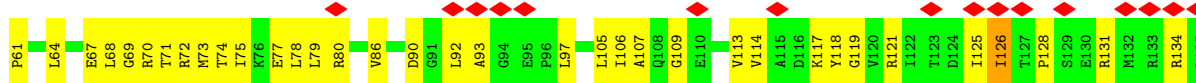
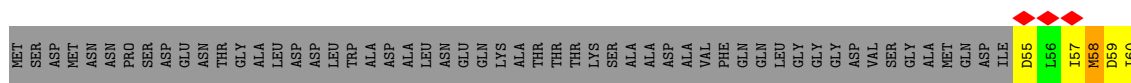
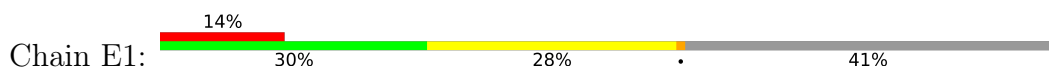
• Molecule 3: Flagellar motor switch protein FlIM



• Molecule 4: Flagellar motor switch protein FlIN

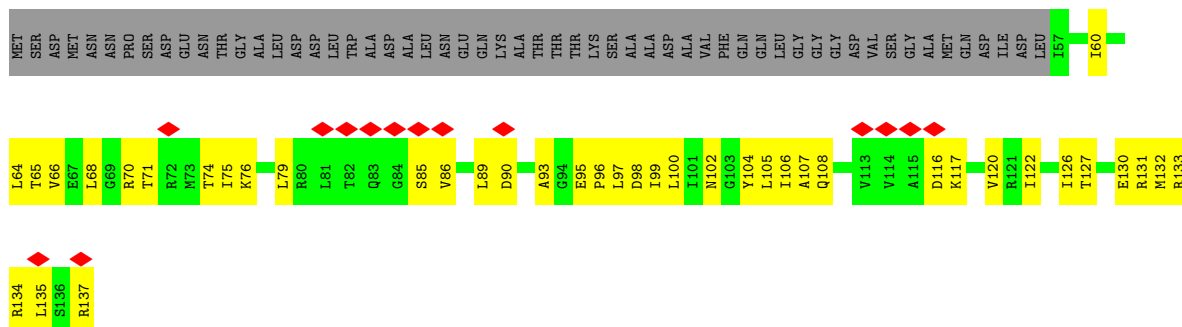
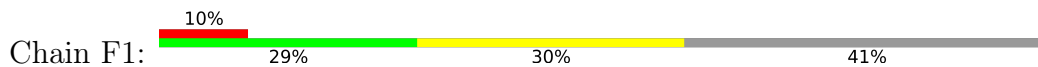


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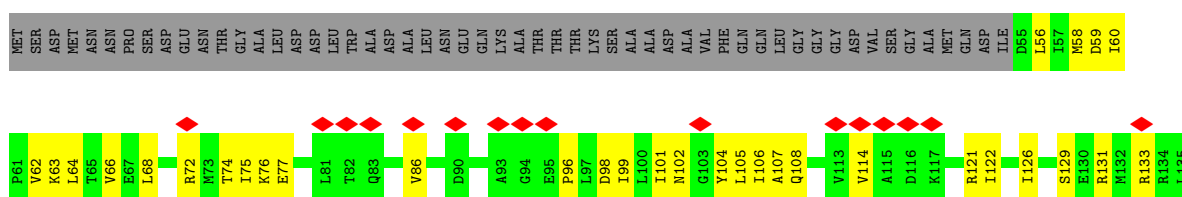


SER ARG

Molecule 4: Flagellar motor switch protein FliN

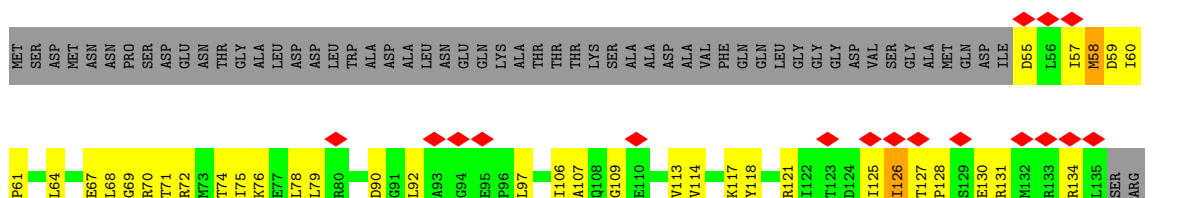
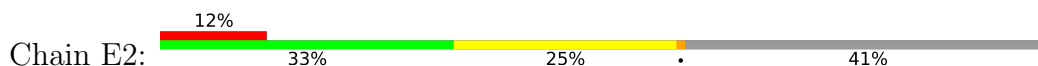


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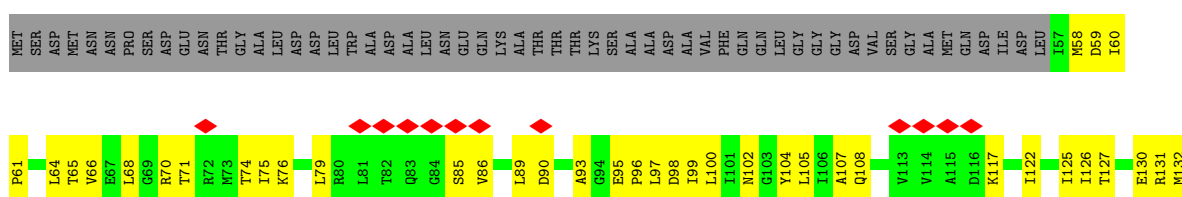
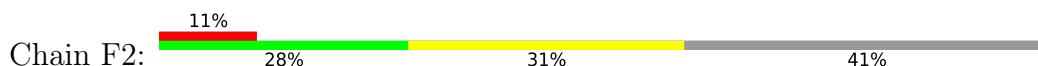


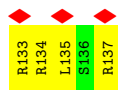
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Molecule 4: Flagellar motor switch protein FliN

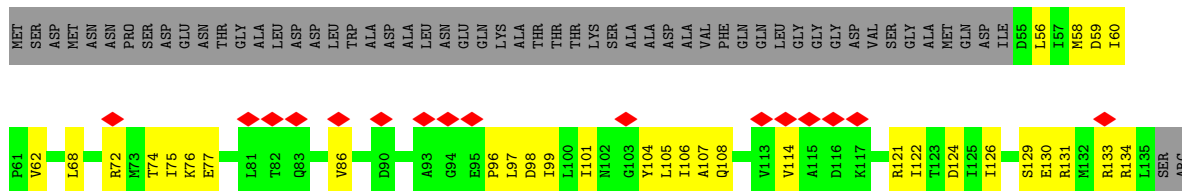
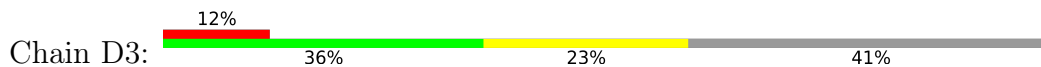


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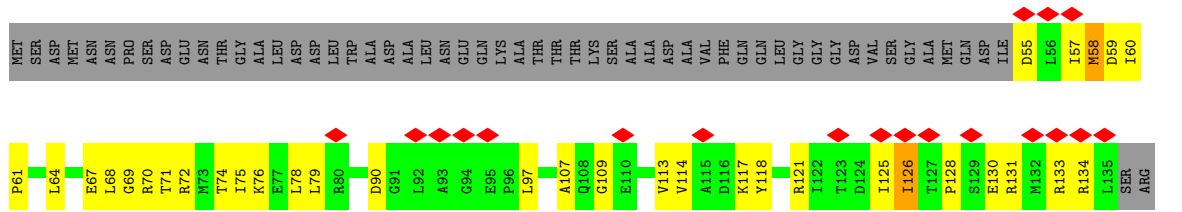
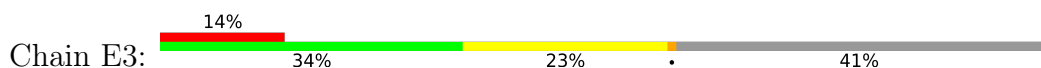




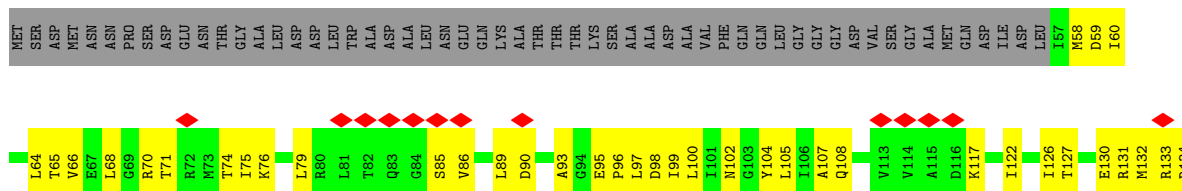
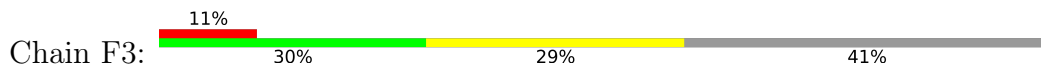
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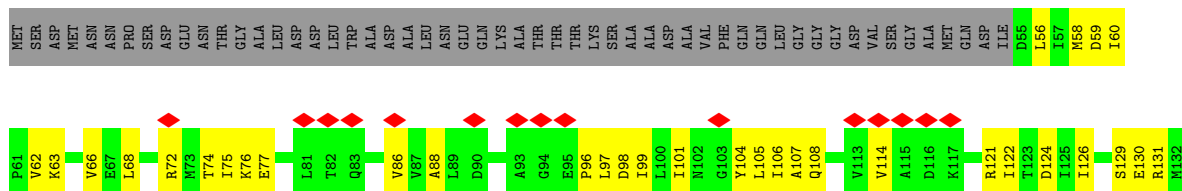
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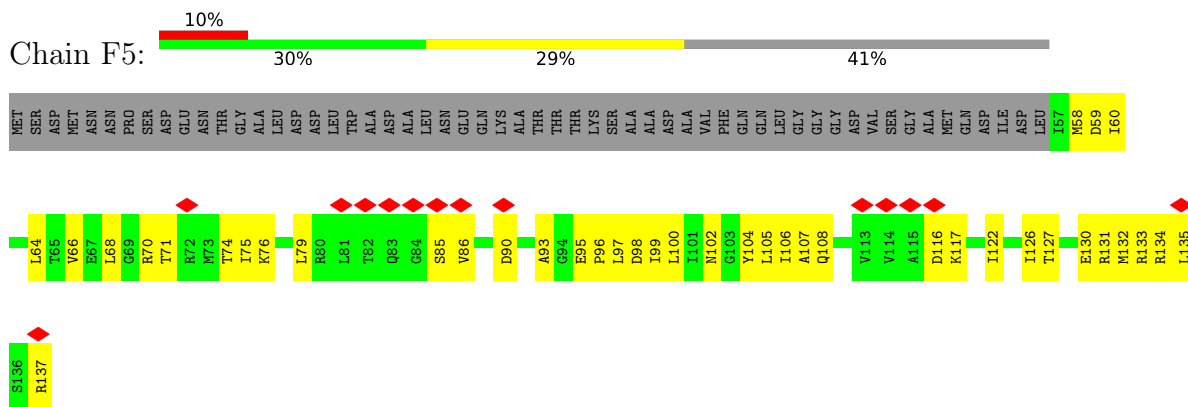


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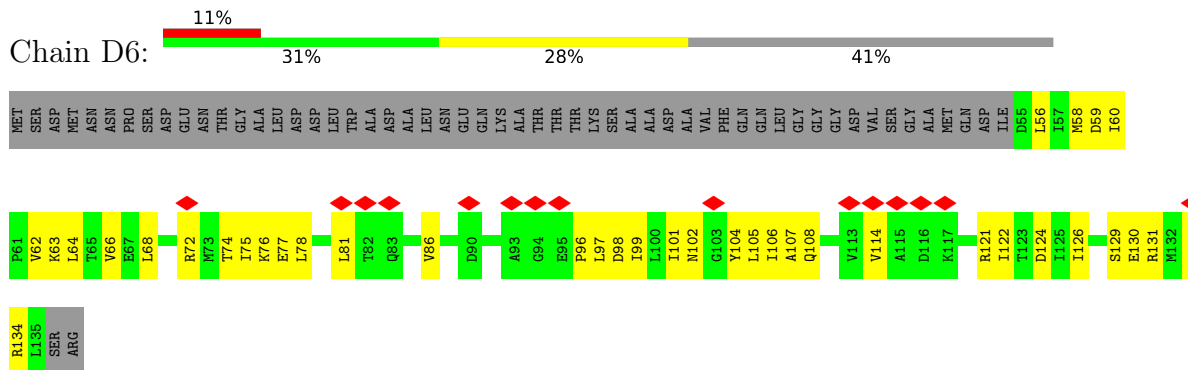


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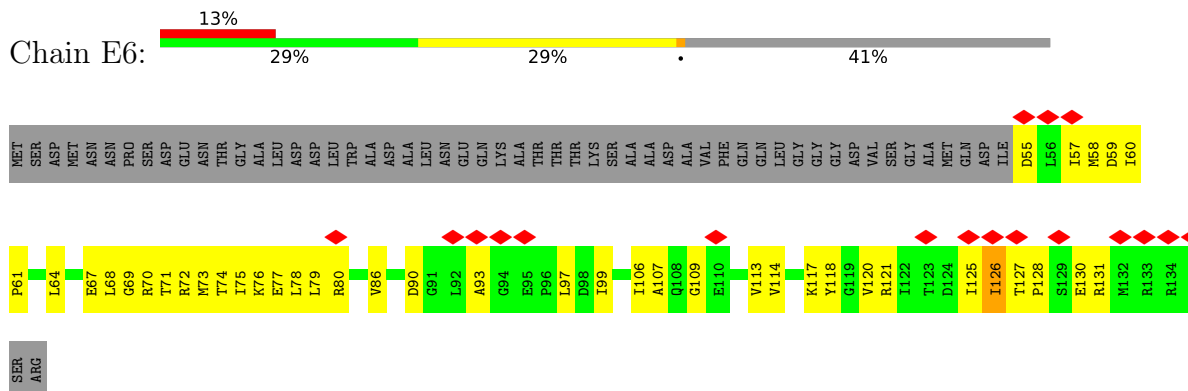




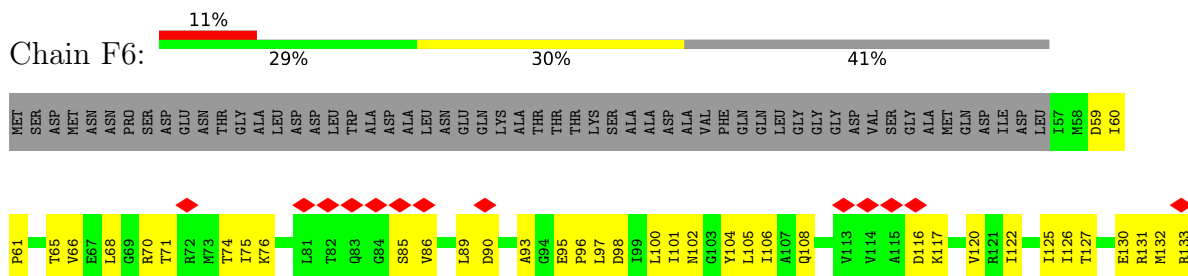
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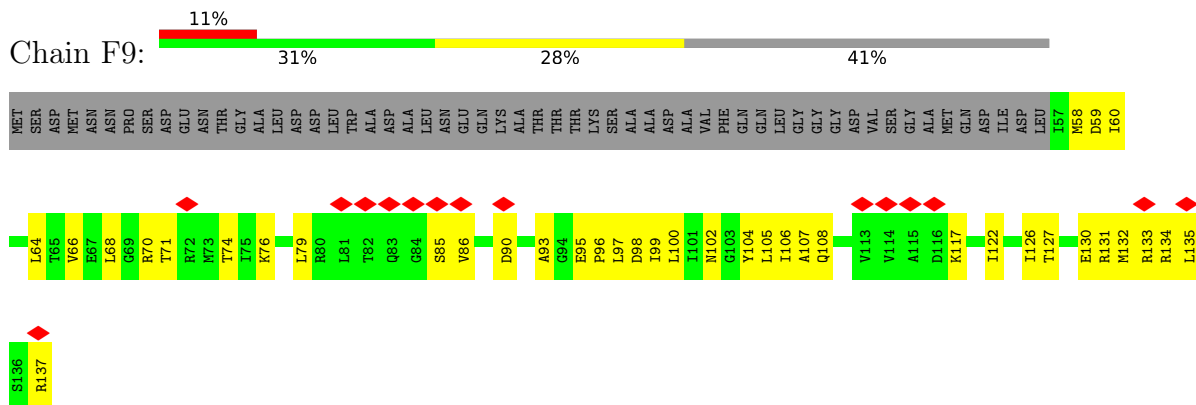
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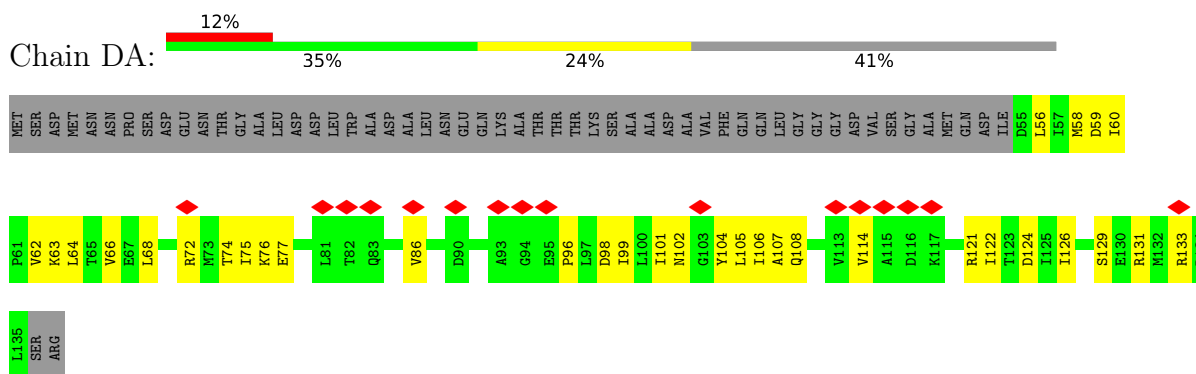
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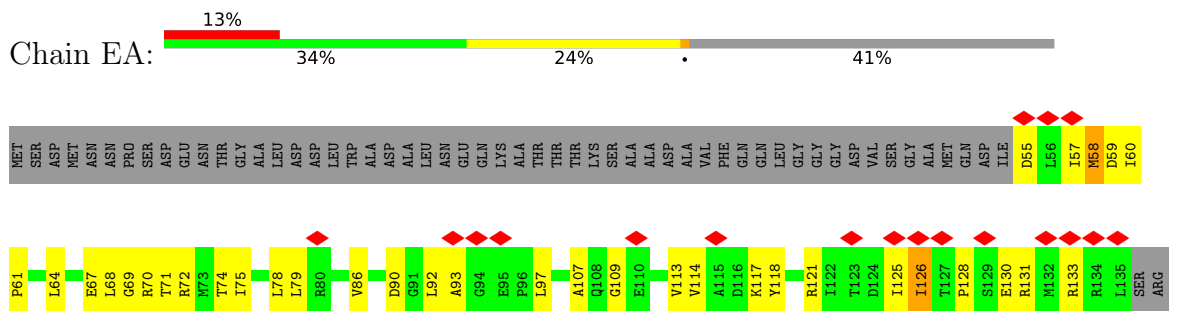
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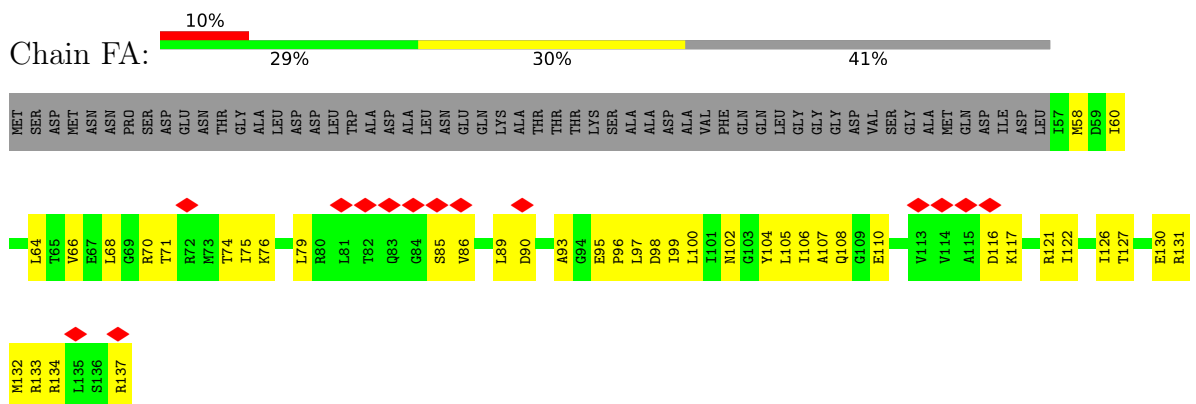
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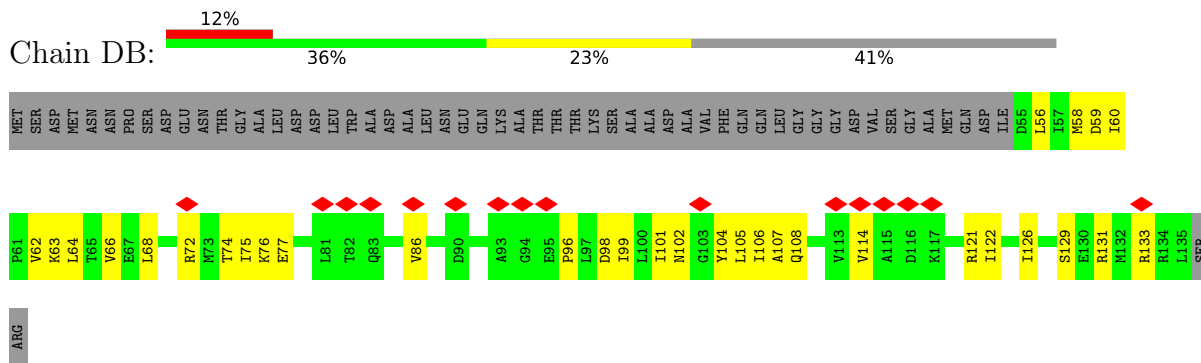
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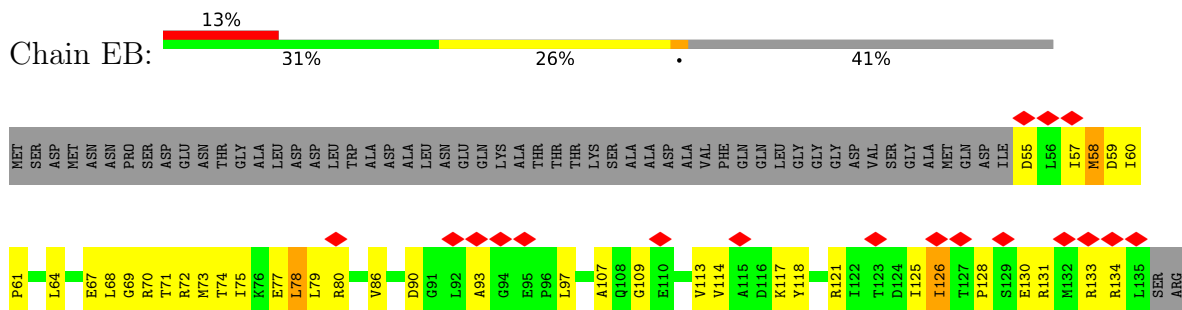
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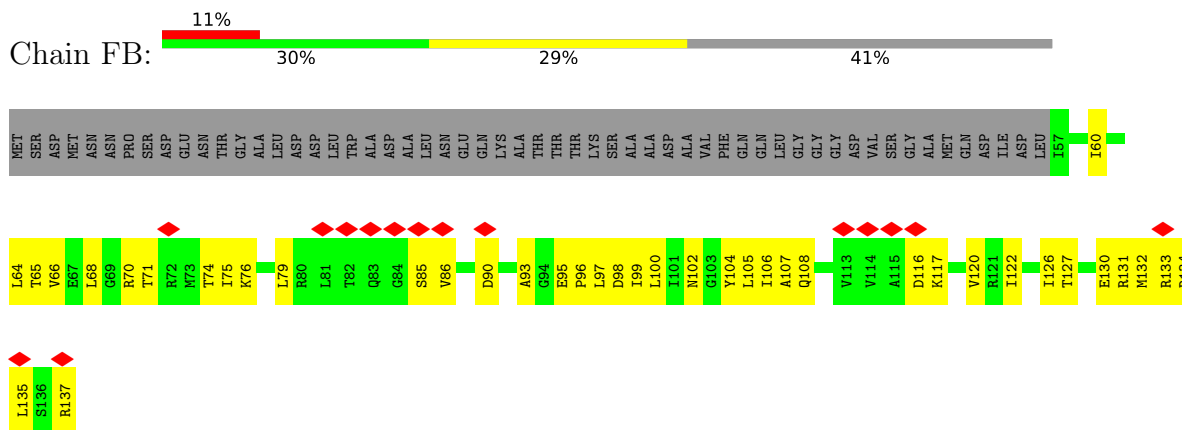
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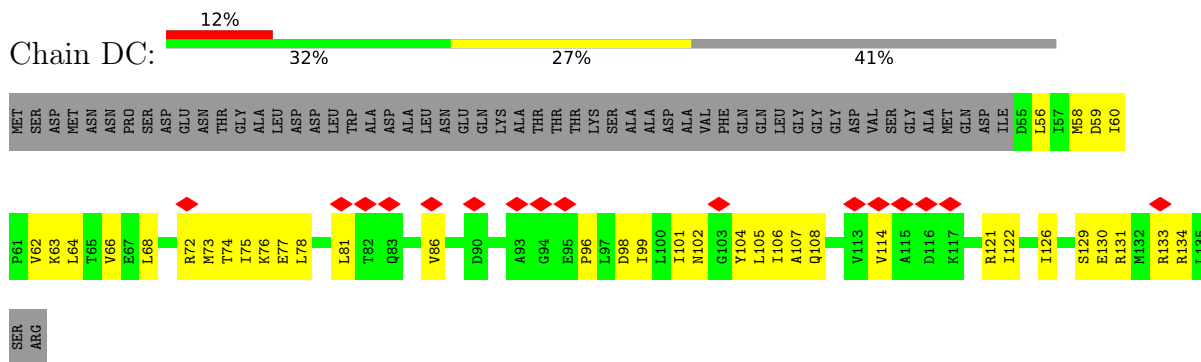
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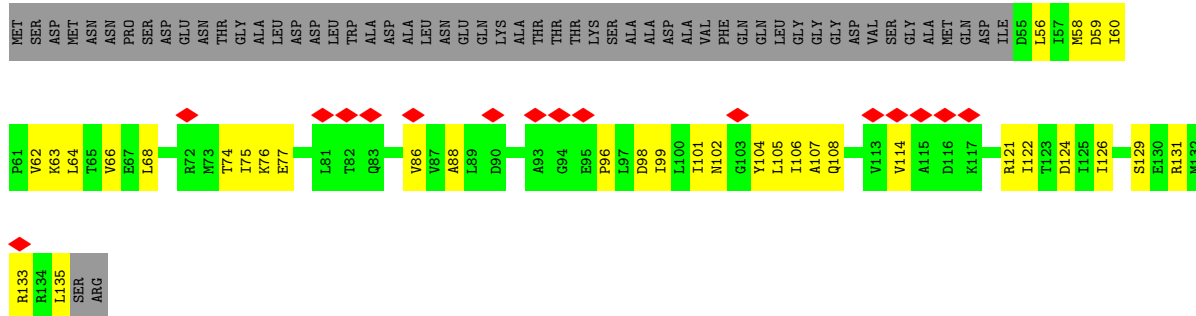
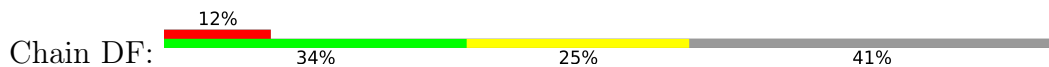
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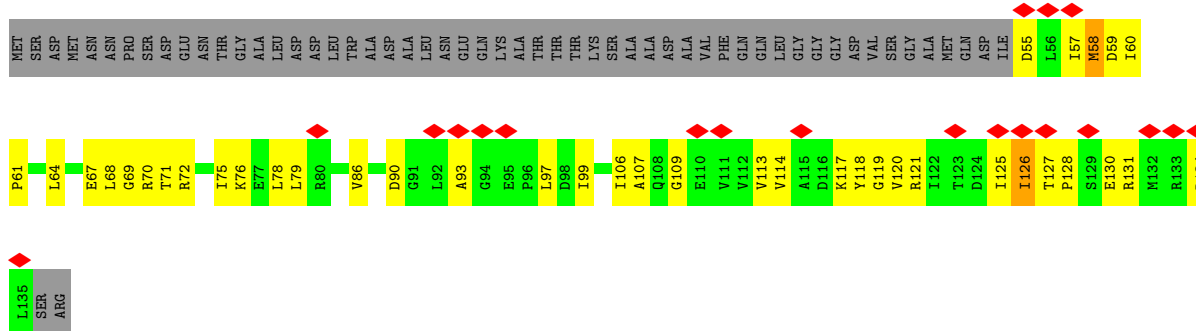
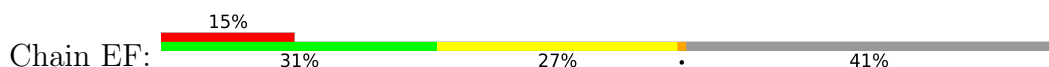
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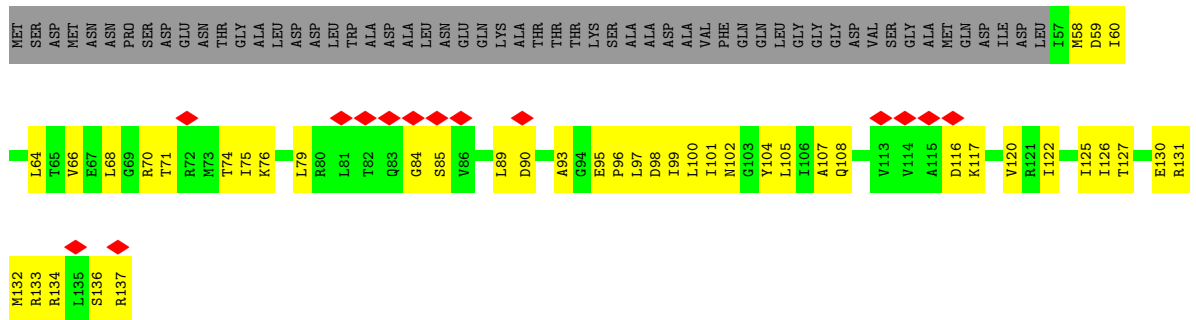
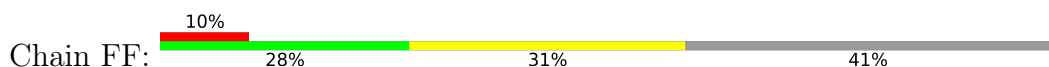
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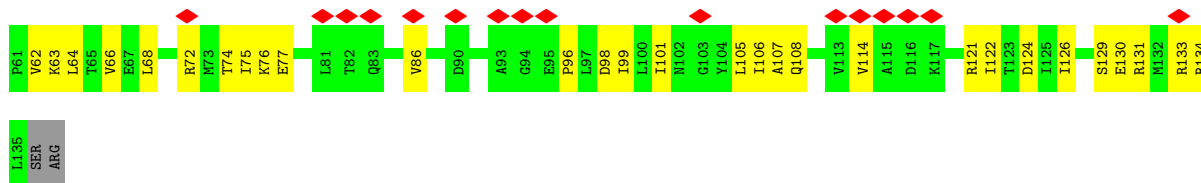


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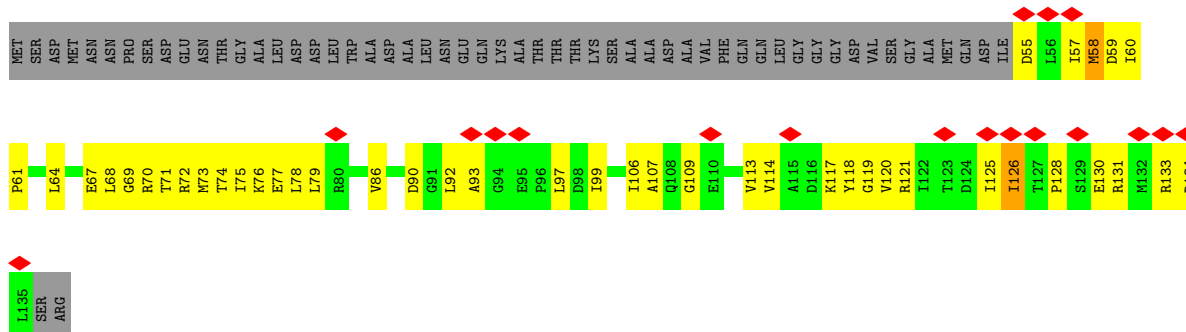
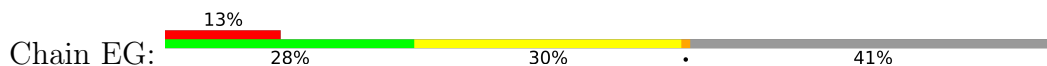


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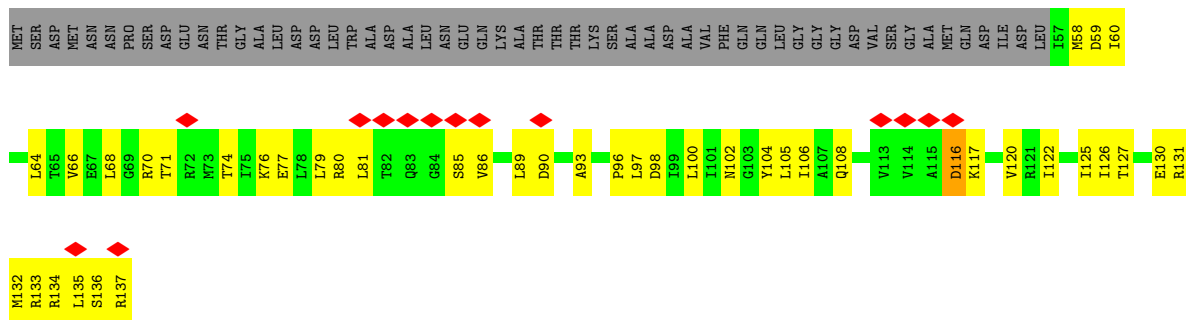
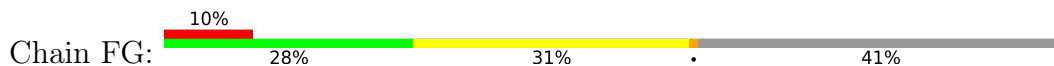




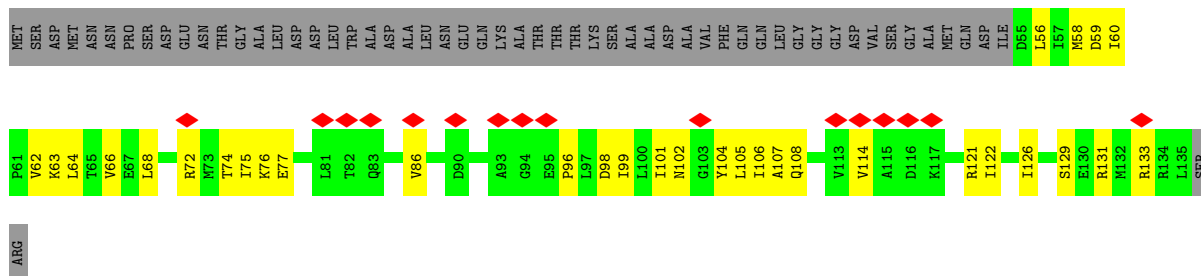
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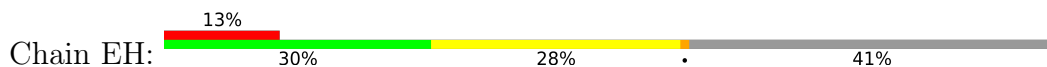
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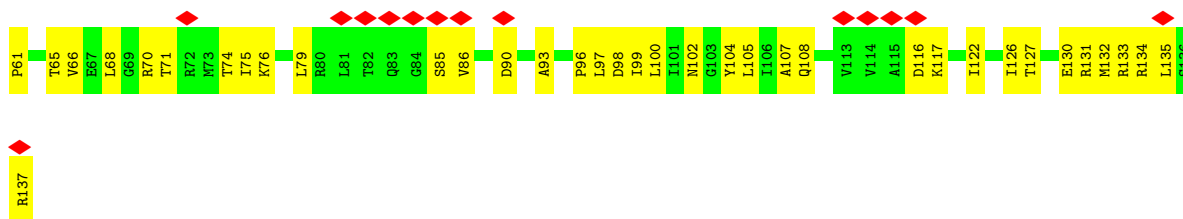


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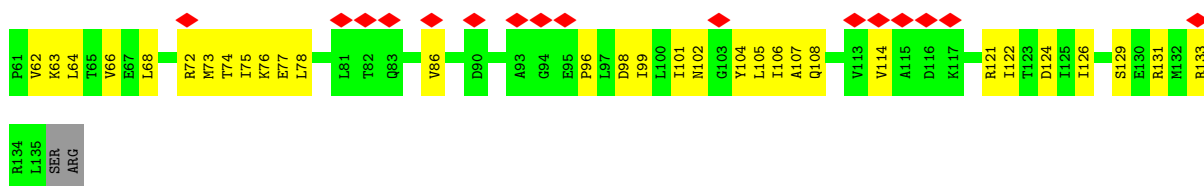
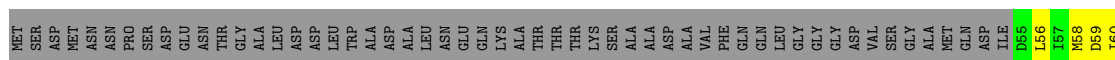
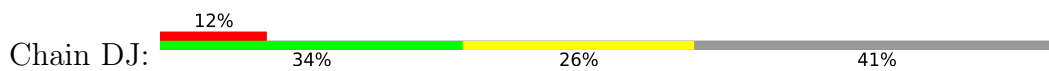


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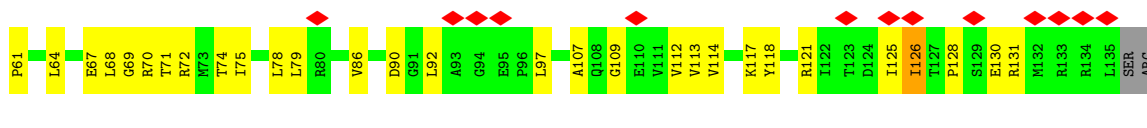
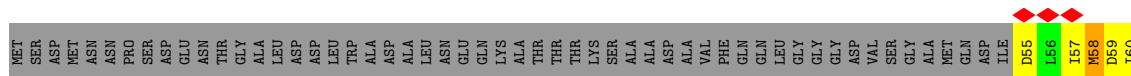
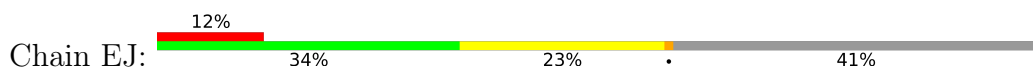




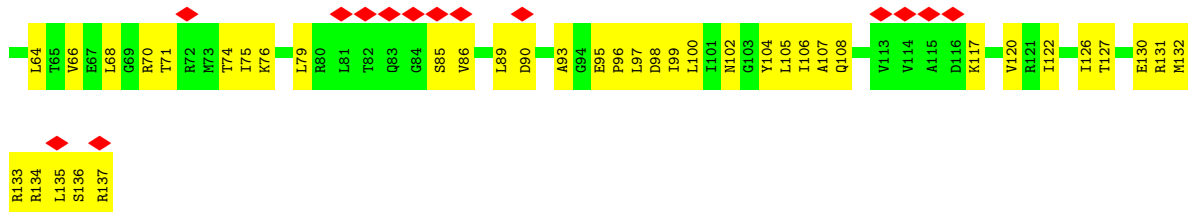
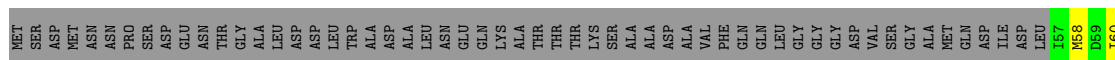
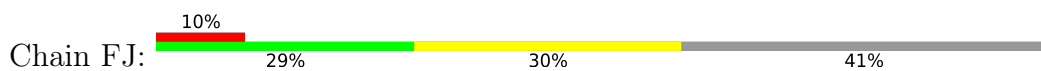
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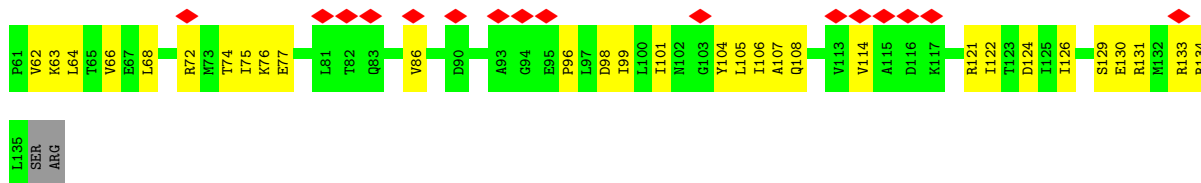


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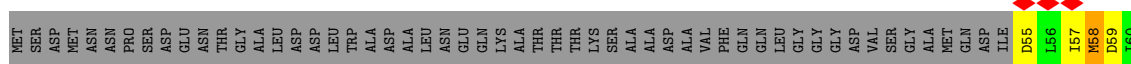


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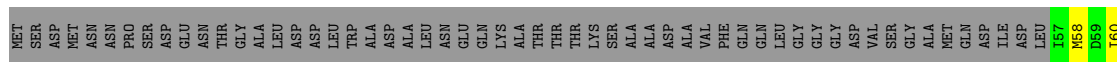
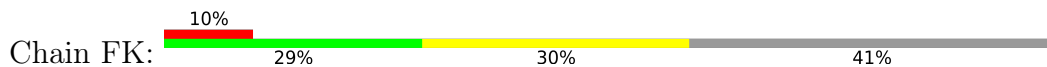




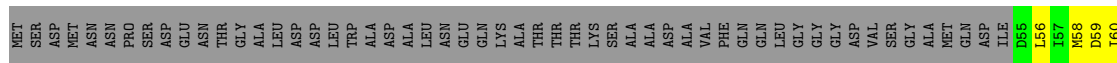
• Molecule 4: Flagellar motor switch protein FliN



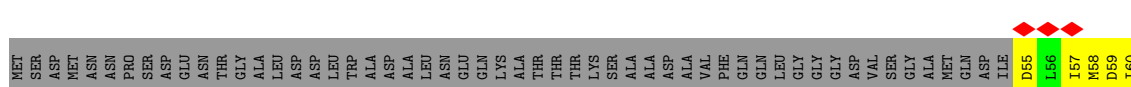
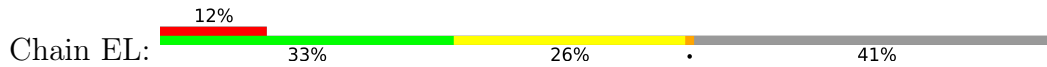
• Molecule 4: Flagellar motor switch protein FliN

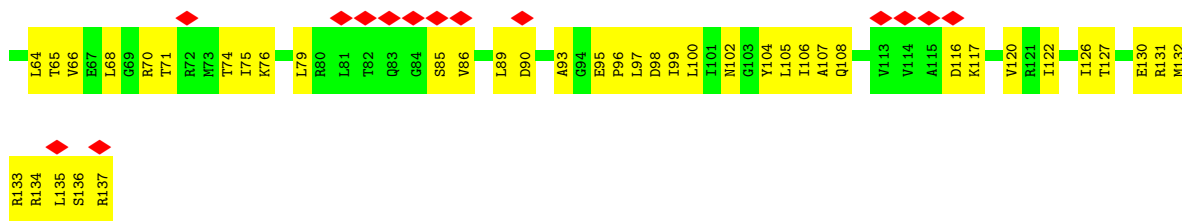


• Molecule 4: Flagellar motor switch protein FliN

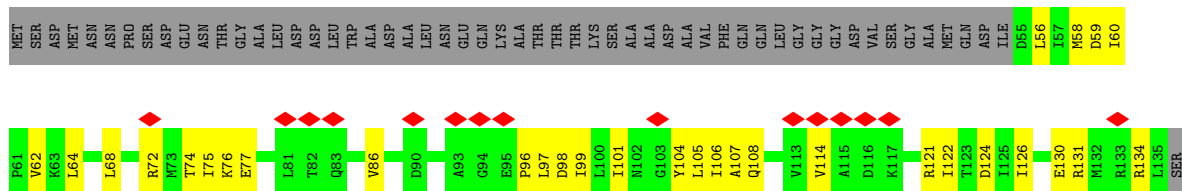
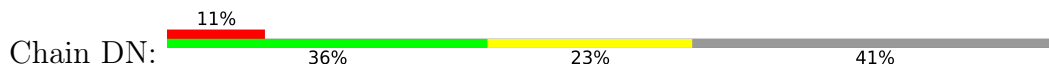


• Molecule 4: Flagellar motor switch protein FliN

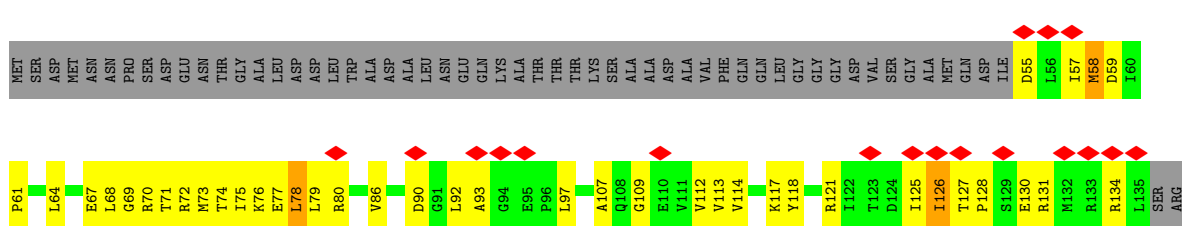
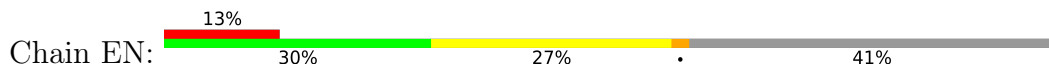




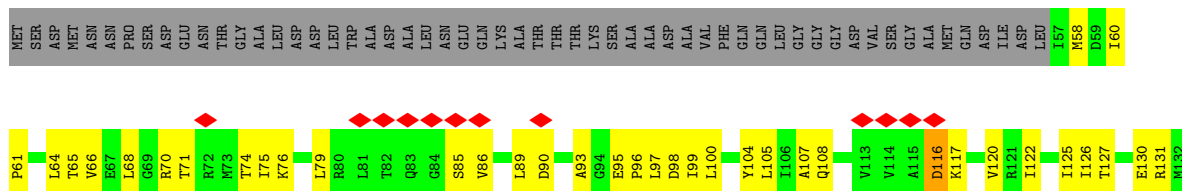
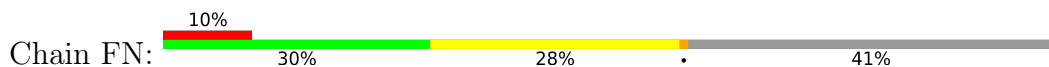
• Molecule 4: Flagellar motor switch protein FliN



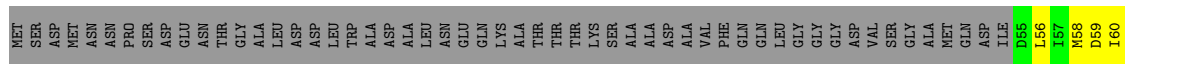
• Molecule 4: Flagellar motor switch protein FliN

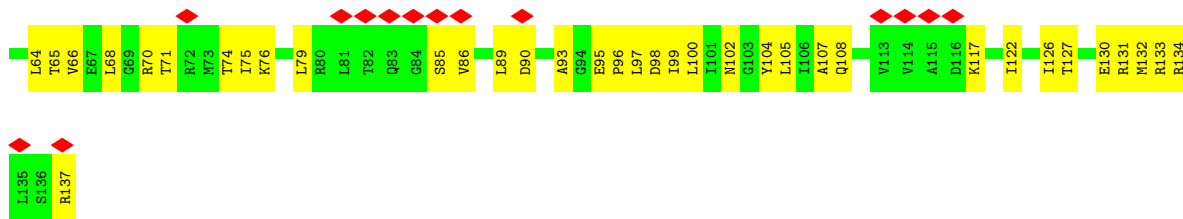


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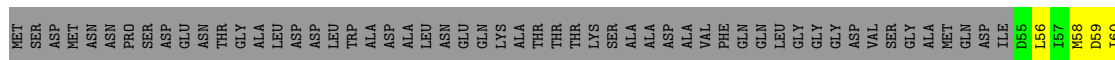
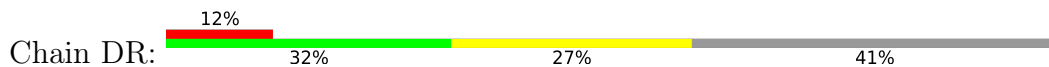


• Molecule 4: Flagellar motor switch protein FliN

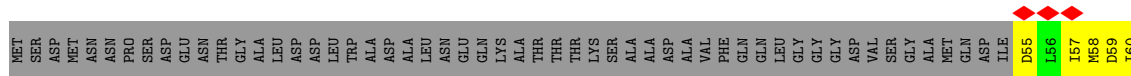
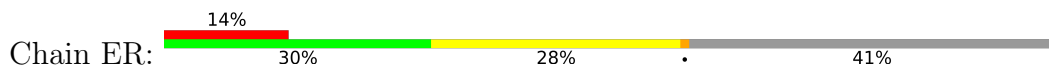




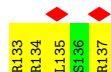
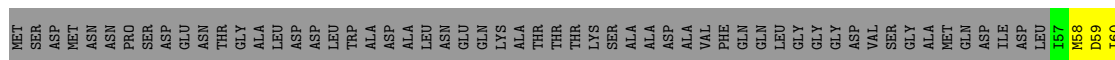
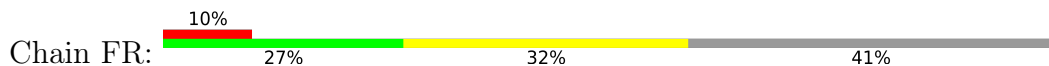
• Molecule 4: Flagellar motor switch protein FliN



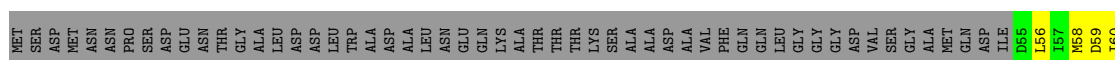
• Molecule 4: Flagellar motor switch protein FliN

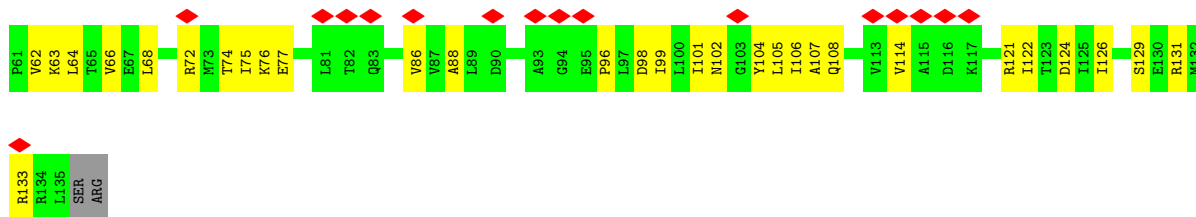


• Molecule 4: Flagellar motor switch protein FliN

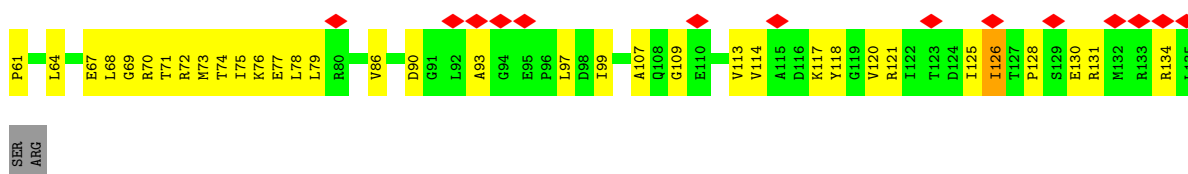
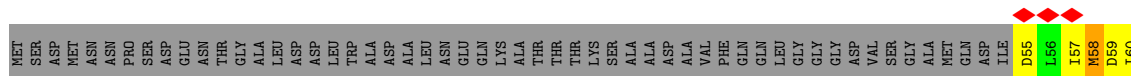
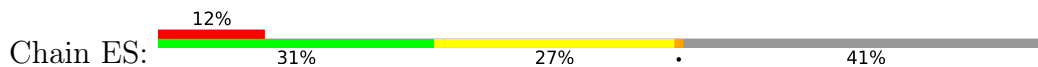


• Molecule 4: Flagellar motor switch protein FliN

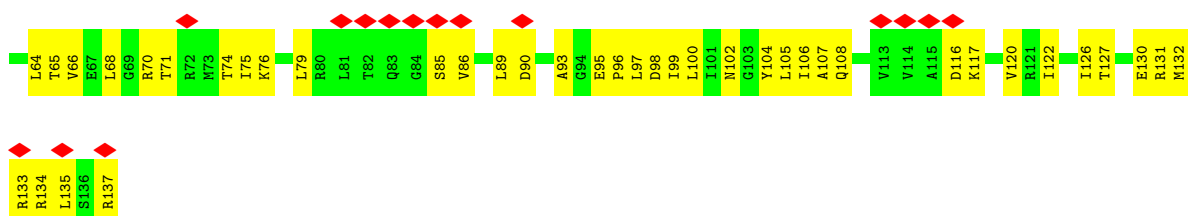
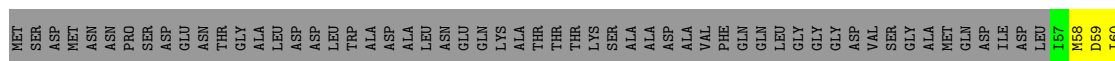
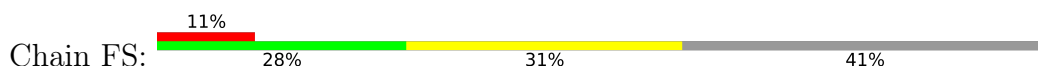




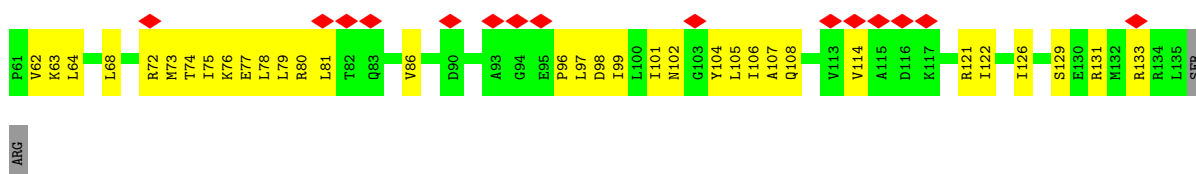
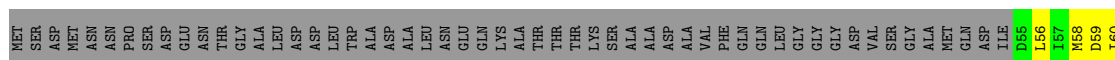
• Molecule 4: Flagellar motor switch protein FliN



• Molecule 4: Flagellar motor switch protein FliN

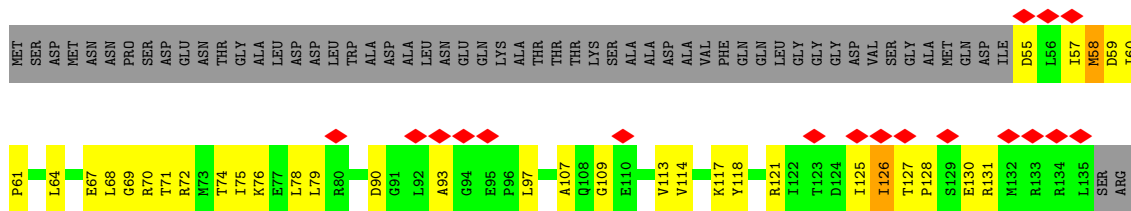


• Molecule 4: Flagellar motor switch protein FliN

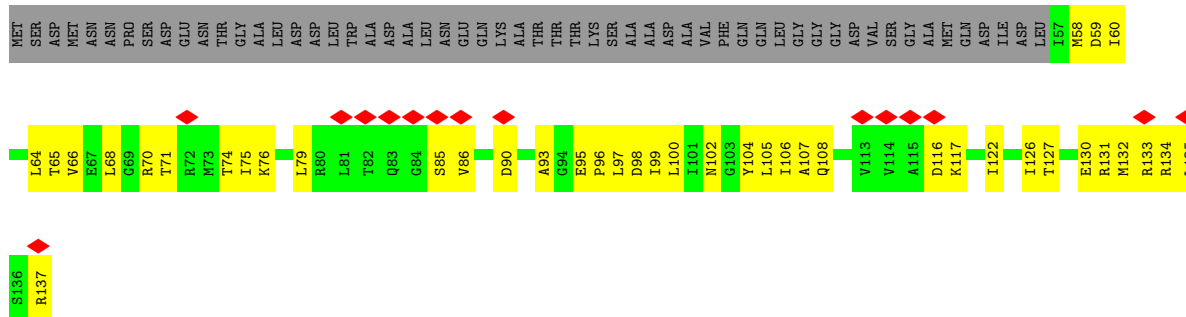
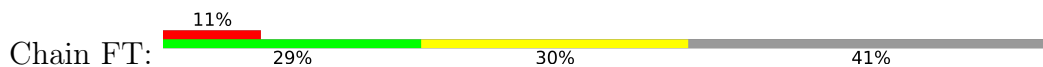


• Molecule 4: Flagellar motor switch protein FliN

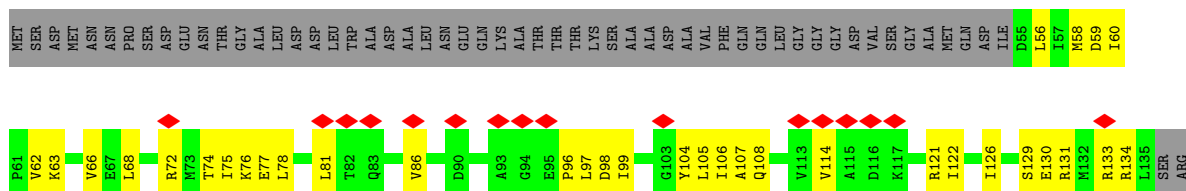




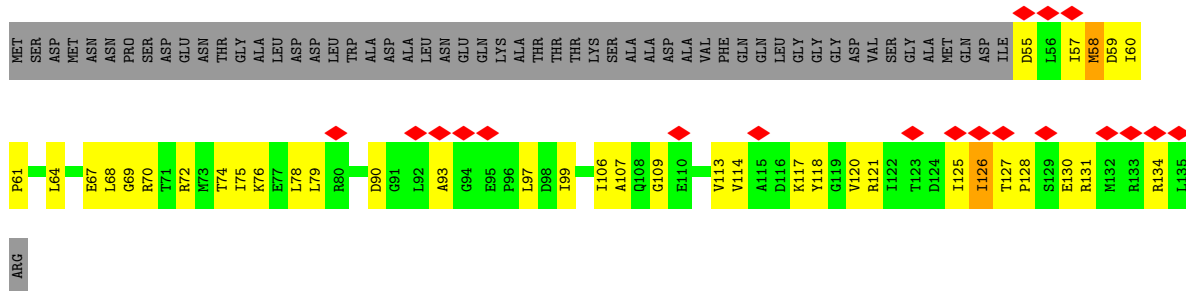
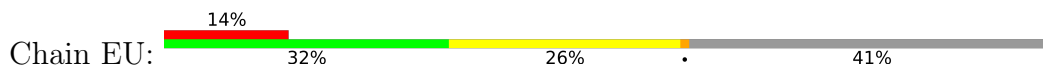
• Molecule 4: Flagellar motor switch protein FliN



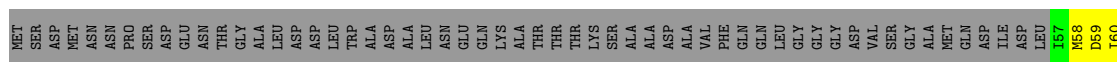
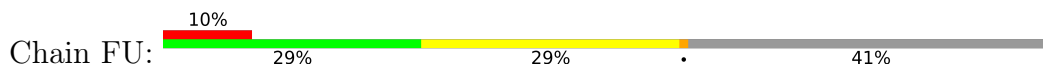
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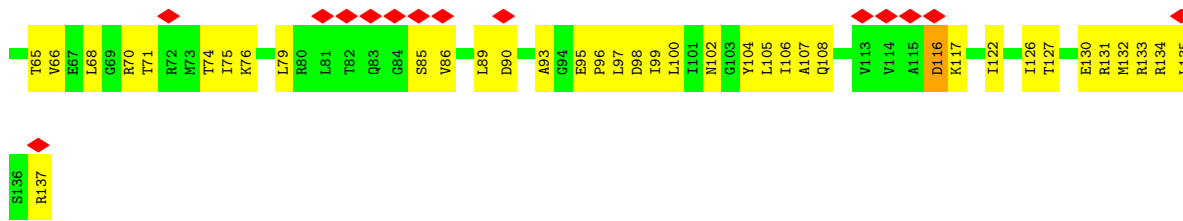


• Molecule 4: Flagellar motor switch protein FliN

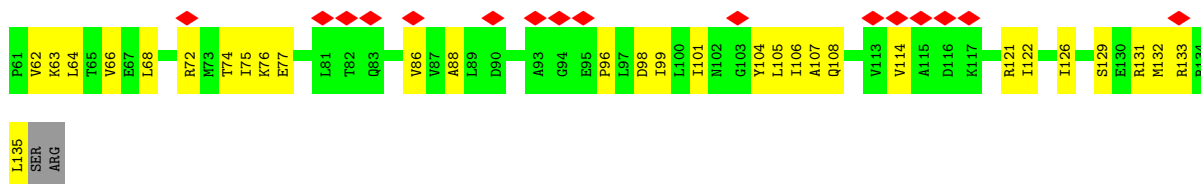
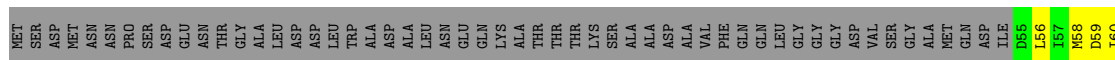


• Molecule 4: Flagellar motor switch protein FliN

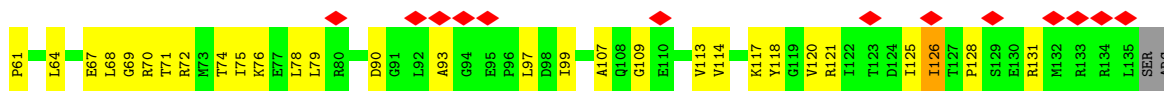
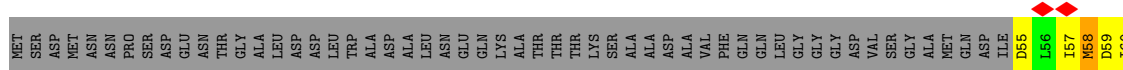




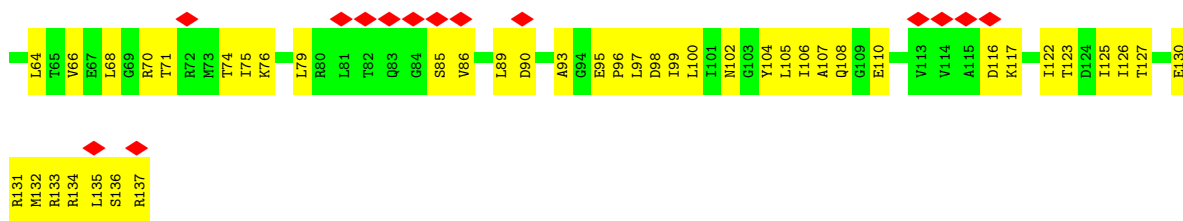
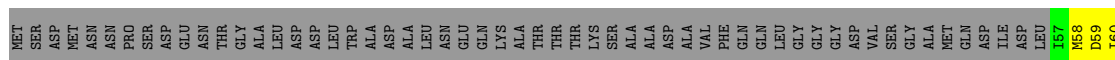
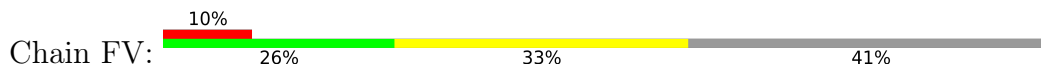
• Molecule 4: Flagellar motor switch protein FliN



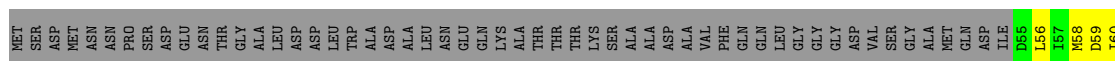
• Molecule 4: Flagellar motor switch protein FliN

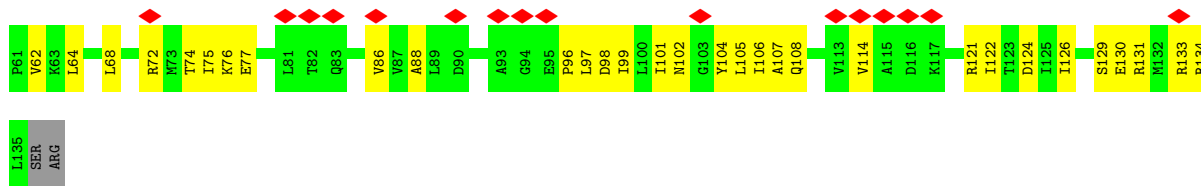


• Molecule 4: Flagellar motor switch protein FliN

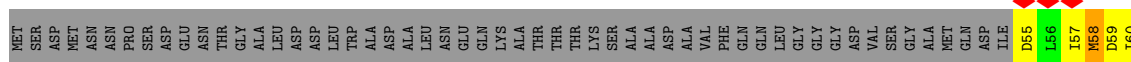


• Molecule 4: Flagellar motor switch protein FliN

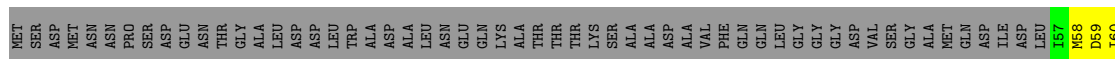
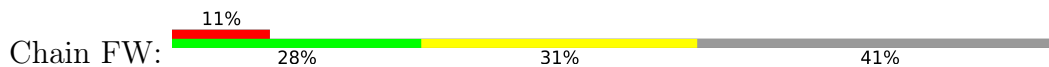




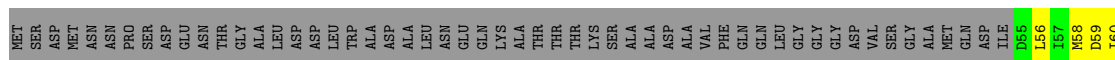
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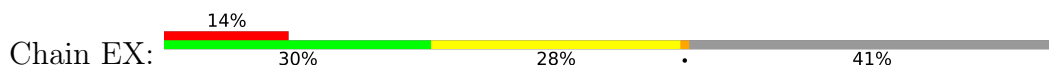
• Molecule 4: Flagellar motor switch protein FliN



• Molecule 4: Flagellar motor switch protein FliN

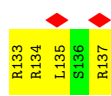
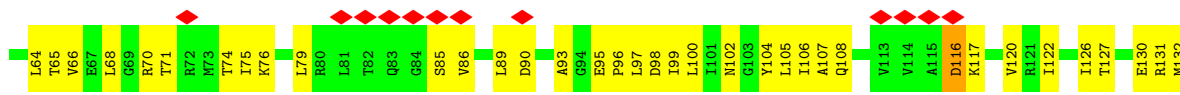
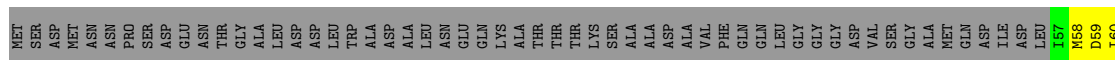
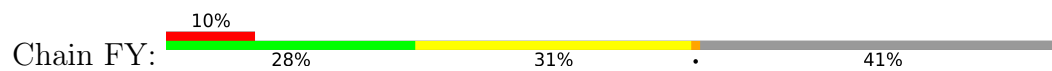


• Molecule 4: Flagellar motor switch protein FliN





• Molecule 4: Flagellar motor switch protein FliN



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	15952	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58.5	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	1.345	Depositor
Minimum map value	-0.228	Depositor
Average map value	0.003	Depositor
Map value standard deviation	0.090	Depositor
Recommended contour level	0.7	Depositor
Map size (\AA)	851.968, 851.968, 851.968	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.664, 1.664, 1.664	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A1	0.24	0/396	0.58	0/528
1	A2	0.24	0/396	0.60	0/528
1	A3	0.25	0/396	0.59	0/528
1	A4	0.24	0/396	0.61	0/528
1	A5	0.24	0/396	0.61	0/528
1	A6	0.24	0/396	0.63	0/528
1	A7	0.24	0/396	0.60	0/528
1	A8	0.25	0/396	0.63	0/528
1	A9	0.24	0/396	0.62	0/528
1	AA	0.24	0/396	0.60	0/528
1	AB	0.24	0/396	0.60	0/528
1	AC	0.24	0/396	0.60	0/528
1	AD	0.24	0/396	0.59	0/528
1	AE	0.25	0/396	0.59	0/528
1	AF	0.24	0/396	0.60	0/528
1	AG	0.24	0/396	0.61	0/528
1	AH	0.24	0/396	0.61	0/528
1	AI	0.25	0/396	0.62	0/528
1	AJ	0.24	0/396	0.61	0/528
1	AK	0.24	0/396	0.61	0/528
1	AL	0.24	0/396	0.61	0/528
1	AM	0.24	0/396	0.62	0/528
1	AN	0.23	0/396	0.60	0/528
1	AO	0.24	0/396	0.61	0/528
1	AP	0.24	0/396	0.61	0/528
1	AQ	0.24	0/396	0.60	0/528
1	AR	0.24	0/396	0.60	0/528
1	AS	0.23	0/396	0.61	0/528
1	AT	0.23	0/396	0.61	0/528
1	AU	0.23	0/396	0.58	0/528
1	AV	0.26	0/396	0.61	0/528
1	AW	0.24	0/396	0.60	0/528
1	AX	0.24	0/396	0.58	0/528
1	AY	0.24	0/396	0.63	0/528

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	B1	0.26	0/2604	0.54	1/3511 (0.0%)
2	B2	0.25	0/2604	0.53	1/3511 (0.0%)
2	B3	0.25	0/2604	0.53	0/3511
2	B4	0.27	0/2604	0.54	1/3511 (0.0%)
2	B5	0.26	0/2604	0.55	1/3511 (0.0%)
2	B6	0.25	0/2604	0.54	1/3511 (0.0%)
2	B7	0.26	0/2604	0.54	1/3511 (0.0%)
2	B8	0.25	0/2604	0.54	1/3511 (0.0%)
2	B9	0.26	0/2604	0.54	1/3511 (0.0%)
2	BA	0.26	0/2604	0.54	1/3511 (0.0%)
2	BB	0.26	0/2604	0.55	1/3511 (0.0%)
2	BC	0.26	0/2604	0.55	1/3511 (0.0%)
2	BD	0.25	0/2604	0.54	1/3511 (0.0%)
2	BE	0.26	0/2604	0.55	1/3511 (0.0%)
2	BF	0.26	0/2604	0.54	1/3511 (0.0%)
2	BG	0.25	0/2604	0.55	2/3511 (0.1%)
2	BH	0.25	0/2604	0.55	2/3511 (0.1%)
2	BI	0.25	0/2604	0.54	2/3511 (0.1%)
2	BJ	0.26	0/2604	0.55	1/3511 (0.0%)
2	BK	0.25	0/2604	0.55	2/3511 (0.1%)
2	BL	0.26	0/2604	0.54	1/3511 (0.0%)
2	BM	0.25	0/2604	0.55	2/3511 (0.1%)
2	BN	0.25	0/2604	0.54	1/3511 (0.0%)
2	BO	0.25	0/2604	0.54	1/3511 (0.0%)
2	BP	0.26	0/2604	0.55	1/3511 (0.0%)
2	BQ	0.26	0/2604	0.55	1/3511 (0.0%)
2	BR	0.26	0/2604	0.55	2/3511 (0.1%)
2	BS	0.26	0/2604	0.56	1/3511 (0.0%)
2	BT	0.25	0/2604	0.53	1/3511 (0.0%)
2	BU	0.26	0/2604	0.54	1/3511 (0.0%)
2	BV	0.25	0/2604	0.54	1/3511 (0.0%)
2	BW	0.26	0/2604	0.54	1/3511 (0.0%)
2	BX	0.26	0/2604	0.53	1/3511 (0.0%)
2	BY	0.25	0/2604	0.54	1/3511 (0.0%)
3	C1	0.27	0/2401	0.52	0/3267
3	C2	0.27	0/2401	0.52	0/3267
3	C3	0.27	0/2401	0.52	0/3267
3	C4	0.27	0/2401	0.52	0/3267
3	C5	0.27	0/2401	0.52	0/3267
3	C6	0.27	0/2401	0.52	0/3267
3	C7	0.27	0/2401	0.53	0/3267
3	C8	0.27	0/2401	0.52	0/3267
3	C9	0.27	0/2401	0.52	0/3267

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	CA	0.27	0/2401	0.53	0/3267
3	CB	0.27	0/2401	0.53	0/3267
3	CC	0.27	0/2401	0.53	0/3267
3	CD	0.27	0/2401	0.53	0/3267
3	CE	0.27	0/2401	0.52	0/3267
3	CF	0.27	0/2401	0.52	0/3267
3	CG	0.27	0/2401	0.52	0/3267
3	CH	0.27	0/2401	0.52	0/3267
3	CI	0.27	0/2401	0.52	0/3267
3	CJ	0.27	0/2401	0.52	0/3267
3	CK	0.27	0/2401	0.52	0/3267
3	CL	0.27	0/2401	0.52	0/3267
3	CM	0.27	0/2401	0.52	0/3267
3	CN	0.27	0/2401	0.52	0/3267
3	CO	0.27	0/2401	0.52	0/3267
3	CP	0.27	0/2401	0.52	0/3267
3	CQ	0.27	0/2401	0.52	0/3267
3	CR	0.27	0/2401	0.53	0/3267
3	CS	0.27	0/2401	0.53	0/3267
3	CT	0.27	0/2401	0.52	0/3267
3	CU	0.27	0/2401	0.53	0/3267
3	CV	0.27	0/2401	0.52	0/3267
3	CW	0.27	0/2401	0.52	0/3267
3	CX	0.27	0/2401	0.52	0/3267
3	CY	0.27	0/2401	0.52	0/3267
4	D1	0.25	0/629	0.59	0/851
4	D2	0.25	0/629	0.58	0/851
4	D3	0.25	0/629	0.58	0/851
4	D4	0.26	0/629	0.59	0/851
4	D5	0.26	0/629	0.59	0/851
4	D6	0.25	0/629	0.59	0/851
4	D7	0.25	0/629	0.58	0/851
4	D8	0.25	0/629	0.59	0/851
4	D9	0.25	0/629	0.59	0/851
4	DA	0.25	0/629	0.58	0/851
4	DB	0.25	0/629	0.58	0/851
4	DC	0.25	0/629	0.59	0/851
4	DD	0.26	0/629	0.59	0/851
4	DE	0.26	0/629	0.60	0/851
4	DF	0.25	0/629	0.59	0/851
4	DG	0.26	0/629	0.60	0/851
4	DH	0.25	0/629	0.58	0/851
4	DI	0.25	0/629	0.59	0/851

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
4	DJ	0.26	0/629	0.59	0/851
4	DK	0.25	0/629	0.58	0/851
4	DL	0.26	0/629	0.59	0/851
4	DM	0.25	0/629	0.59	0/851
4	DN	0.25	0/629	0.59	0/851
4	DO	0.25	0/629	0.59	0/851
4	DP	0.25	0/629	0.59	0/851
4	DQ	0.28	0/629	0.62	0/851
4	DR	0.25	0/629	0.59	0/851
4	DS	0.26	0/629	0.59	0/851
4	DT	0.25	0/629	0.59	0/851
4	DU	0.26	0/629	0.60	0/851
4	DV	0.26	0/629	0.59	0/851
4	DW	0.25	0/629	0.58	0/851
4	DX	0.26	0/629	0.60	0/851
4	DY	0.29	0/629	0.61	0/851
4	E1	0.27	0/629	0.66	1/851 (0.1%)
4	E2	0.27	0/629	0.67	1/851 (0.1%)
4	E3	0.27	0/629	0.67	1/851 (0.1%)
4	E4	0.26	0/629	0.66	1/851 (0.1%)
4	E5	0.26	0/629	0.67	1/851 (0.1%)
4	E6	0.27	0/629	0.68	0/851
4	E7	0.27	0/629	0.66	1/851 (0.1%)
4	E8	0.26	0/629	0.67	1/851 (0.1%)
4	E9	0.27	0/629	0.68	1/851 (0.1%)
4	EA	0.26	0/629	0.67	1/851 (0.1%)
4	EB	0.29	0/629	0.75	2/851 (0.2%)
4	EC	0.26	0/629	0.66	1/851 (0.1%)
4	ED	0.29	0/629	0.65	0/851
4	EE	0.27	0/629	0.67	1/851 (0.1%)
4	EF	0.27	0/629	0.66	1/851 (0.1%)
4	EG	0.27	0/629	0.68	1/851 (0.1%)
4	EH	0.26	0/629	0.67	1/851 (0.1%)
4	EI	0.28	0/629	0.69	1/851 (0.1%)
4	EJ	0.26	0/629	0.66	1/851 (0.1%)
4	EK	0.26	0/629	0.67	1/851 (0.1%)
4	EL	0.27	0/629	0.66	1/851 (0.1%)
4	EM	0.28	0/629	0.69	2/851 (0.2%)
4	EN	0.28	0/629	0.70	2/851 (0.2%)
4	EO	0.28	0/629	0.71	2/851 (0.2%)
4	EP	0.28	0/629	0.66	1/851 (0.1%)
4	EQ	0.26	0/629	0.66	1/851 (0.1%)
4	ER	0.28	0/629	0.68	1/851 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
4	ES	0.26	0/629	0.66	1/851 (0.1%)
4	ET	0.27	0/629	0.66	1/851 (0.1%)
4	EU	0.27	0/629	0.68	1/851 (0.1%)
4	EV	0.27	0/629	0.66	1/851 (0.1%)
4	EW	0.27	0/629	0.67	1/851 (0.1%)
4	EX	0.27	0/629	0.67	1/851 (0.1%)
4	EY	0.27	0/629	0.67	1/851 (0.1%)
4	F1	0.26	0/631	0.64	0/851
4	F2	0.26	0/631	0.65	0/851
4	F3	0.26	0/631	0.64	0/851
4	F4	0.26	0/631	0.64	0/851
4	F5	0.27	0/631	0.67	0/851
4	F6	0.27	0/631	0.69	0/851
4	F7	0.29	0/631	0.70	1/851 (0.1%)
4	F8	0.28	0/631	0.68	0/851
4	F9	0.26	0/631	0.65	0/851
4	FA	0.27	0/631	0.65	0/851
4	FB	0.27	0/631	0.67	0/851
4	FC	0.28	0/631	0.66	0/851
4	FD	0.27	0/631	0.67	0/851
4	FE	0.27	0/631	0.67	0/851
4	FF	0.27	0/631	0.66	0/851
4	FG	0.28	0/631	0.69	1/851 (0.1%)
4	FH	0.27	0/631	0.66	0/851
4	FI	0.27	0/631	0.65	0/851
4	FJ	0.26	0/631	0.64	0/851
4	FK	0.28	0/631	0.65	0/851
4	FL	0.26	0/631	0.61	0/851
4	FM	0.27	0/631	0.65	0/851
4	FN	0.27	0/631	0.65	1/851 (0.1%)
4	FO	0.27	0/631	0.68	1/851 (0.1%)
4	FP	0.27	0/631	0.65	0/851
4	FQ	0.26	0/631	0.65	0/851
4	FR	0.27	0/631	0.65	0/851
4	FS	0.27	0/631	0.66	0/851
4	FT	0.27	0/631	0.67	0/851
4	FU	0.27	0/631	0.67	1/851 (0.1%)
4	FV	0.27	0/631	0.65	0/851
4	FW	0.27	0/631	0.66	0/851
4	FX	0.27	0/631	0.69	1/851 (0.1%)
4	FY	0.27	0/631	0.70	1/851 (0.1%)
All	All	0.26	0/247860	0.57	82/335206 (0.0%)

There are no bond length outliers.

All (82) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	EB	78	LEU	CA-CB-CG	9.15	136.36	115.30
4	E9	58	MET	CA-CB-CG	6.50	124.34	113.30
4	EL	58	MET	CA-CB-CG	6.20	123.84	113.30
4	EX	58	MET	CA-CB-CG	6.20	123.83	113.30
4	EA	58	MET	CA-CB-CG	6.18	123.81	113.30
4	EJ	58	MET	CA-CB-CG	6.18	123.81	113.30
4	EN	78	LEU	CA-CB-CG	6.17	129.49	115.30
4	EV	58	MET	CA-CB-CG	6.17	123.79	113.30
4	EH	58	MET	CA-CB-CG	6.17	123.78	113.30
4	E5	58	MET	CA-CB-CG	6.17	123.78	113.30
4	EE	58	MET	CA-CB-CG	6.17	123.78	113.30
4	E7	58	MET	CA-CB-CG	6.16	123.78	113.30
4	EI	58	MET	CA-CB-CG	6.16	123.77	113.30
4	E3	58	MET	CA-CB-CG	6.16	123.76	113.30
4	E8	58	MET	CA-CB-CG	6.15	123.76	113.30
4	E4	58	MET	CA-CB-CG	6.15	123.75	113.30
4	ES	58	MET	CA-CB-CG	6.14	123.75	113.30
4	E1	58	MET	CA-CB-CG	6.14	123.73	113.30
4	E2	58	MET	CA-CB-CG	6.14	123.73	113.30
4	EQ	58	MET	CA-CB-CG	6.14	123.73	113.30
4	EY	58	MET	CA-CB-CG	6.13	123.72	113.30
4	EO	78	LEU	CA-CB-CG	6.13	129.39	115.30
4	EM	58	MET	CA-CB-CG	6.11	123.68	113.30
4	EW	58	MET	CA-CB-CG	6.09	123.66	113.30
4	EO	58	MET	CA-CB-CG	6.09	123.65	113.30
4	EF	58	MET	CA-CB-CG	6.07	123.61	113.30
4	EG	58	MET	CA-CB-CG	6.06	123.59	113.30
4	EK	58	MET	CA-CB-CG	6.05	123.59	113.30
4	EU	58	MET	CA-CB-CG	6.04	123.57	113.30
4	F7	116	ASP	CB-CG-OD1	5.98	123.68	118.30
4	ER	78	LEU	CA-CB-CG	5.96	129.00	115.30
4	FY	116	ASP	CB-CG-OD1	5.93	123.64	118.30
2	B8	243	ASP	CB-CG-OD1	5.84	123.56	118.30
2	BL	243	ASP	CB-CG-OD1	5.83	123.55	118.30
2	B5	243	ASP	CB-CG-OD1	5.82	123.54	118.30
2	BP	243	ASP	CB-CG-OD1	5.80	123.52	118.30
2	BE	243	ASP	CB-CG-OD1	5.79	123.51	118.30
2	BY	243	ASP	CB-CG-OD1	5.79	123.51	118.30
2	B9	243	ASP	CB-CG-OD1	5.76	123.48	118.30
2	BN	243	ASP	CB-CG-OD1	5.76	123.48	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BH	243	ASP	CB-CG-OD1	5.75	123.47	118.30
2	BQ	243	ASP	CB-CG-OD1	5.73	123.46	118.30
4	EC	58	MET	CA-CB-CG	5.73	123.04	113.30
2	BM	77	LEU	CA-CB-CG	5.72	128.46	115.30
2	BU	243	ASP	CB-CG-OD1	5.70	123.43	118.30
2	BV	243	ASP	CB-CG-OD1	5.68	123.41	118.30
2	BJ	243	ASP	CB-CG-OD1	5.67	123.40	118.30
4	EM	78	LEU	CA-CB-CG	5.64	128.28	115.30
2	BK	77	LEU	CB-CG-CD2	5.64	120.59	111.00
4	FX	116	ASP	CB-CG-OD1	5.61	123.35	118.30
4	EP	78	LEU	CA-CB-CG	5.54	128.03	115.30
2	BI	77	LEU	CA-CB-CG	5.54	128.03	115.30
2	BM	243	ASP	CB-CG-OD1	5.53	123.28	118.30
4	FG	116	ASP	CB-CG-OD1	5.53	123.28	118.30
2	BF	243	ASP	CB-CG-OD1	5.52	123.27	118.30
2	BW	243	ASP	CB-CG-OD1	5.52	123.27	118.30
2	BX	243	ASP	CB-CG-OD1	5.50	123.25	118.30
2	BD	243	ASP	CB-CG-OD1	5.50	123.25	118.30
2	BK	243	ASP	CB-CG-OD1	5.49	123.24	118.30
4	ET	58	MET	CA-CB-CG	5.49	122.63	113.30
2	BO	243	ASP	CB-CG-OD1	5.49	123.24	118.30
2	BG	243	ASP	CB-CG-OD1	5.46	123.22	118.30
2	B7	243	ASP	CB-CG-OD1	5.46	123.22	118.30
4	EN	58	MET	CA-CB-CG	5.45	122.57	113.30
2	BC	243	ASP	CB-CG-OD1	5.45	123.20	118.30
2	B1	243	ASP	CB-CG-OD1	5.44	123.20	118.30
2	BI	243	ASP	CB-CG-OD1	5.44	123.20	118.30
2	BT	243	ASP	CB-CG-OD1	5.43	123.19	118.30
2	B6	243	ASP	CB-CG-OD1	5.41	123.17	118.30
2	B4	243	ASP	CB-CG-OD1	5.40	123.16	118.30
2	BA	243	ASP	CB-CG-OD1	5.37	123.13	118.30
2	BS	243	ASP	CB-CG-OD1	5.31	123.08	118.30
2	BR	77	LEU	CA-CB-CG	5.30	127.50	115.30
2	B2	243	ASP	CB-CG-OD1	5.30	123.07	118.30
2	BH	77	LEU	CA-CB-CG	5.29	127.46	115.30
2	BB	243	ASP	CB-CG-OD1	5.28	123.05	118.30
2	BR	243	ASP	CB-CG-OD1	5.26	123.03	118.30
2	BG	77	LEU	CA-CB-CG	5.24	127.36	115.30
4	FN	116	ASP	CB-CG-OD1	5.24	123.02	118.30
4	EB	58	MET	CA-CB-CG	5.22	122.17	113.30
4	FU	116	ASP	CB-CG-OD1	5.20	122.97	118.30
4	FO	116	ASP	CB-CG-OD1	5.08	122.87	118.30

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	A1	393	0	384	24	0
1	A2	393	0	384	22	0
1	A3	393	0	384	23	0
1	A4	393	0	384	24	0
1	A5	393	0	384	23	0
1	A6	393	0	384	27	0
1	A7	393	0	384	24	0
1	A8	393	0	384	21	0
1	A9	393	0	384	25	0
1	AA	393	0	384	24	0
1	AB	393	0	384	20	0
1	AC	393	0	384	24	0
1	AD	393	0	384	20	0
1	AE	393	0	384	22	0
1	AF	393	0	384	24	0
1	AG	393	0	384	22	0
1	AH	393	0	384	25	0
1	AI	393	0	384	25	0
1	AJ	393	0	384	26	0
1	AK	393	0	384	22	0
1	AL	393	0	384	21	0
1	AM	393	0	384	24	0
1	AN	393	0	384	24	0
1	AO	393	0	384	25	0
1	AP	393	0	384	19	0
1	AQ	393	0	384	23	0
1	AR	393	0	384	20	0
1	AS	393	0	384	21	0
1	AT	393	0	384	24	0
1	AU	393	0	384	23	0
1	AV	393	0	384	21	0
1	AW	393	0	384	23	0
1	AX	393	0	384	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AY	393	0	384	24	0
2	B1	2583	0	2632	118	0
2	B2	2583	0	2632	115	0
2	B3	2583	0	2632	114	0
2	B4	2583	0	2632	112	0
2	B5	2583	0	2632	110	0
2	B6	2583	0	2632	121	0
2	B7	2583	0	2632	113	0
2	B8	2583	0	2632	118	0
2	B9	2583	0	2632	110	0
2	BA	2583	0	2632	111	0
2	BB	2583	0	2632	130	0
2	BC	2583	0	2632	126	0
2	BD	2583	0	2632	118	0
2	BE	2583	0	2632	109	0
2	BF	2583	0	2632	106	0
2	BG	2583	0	2632	130	0
2	BH	2583	0	2632	126	0
2	BI	2583	0	2632	118	0
2	BJ	2583	0	2632	112	0
2	BK	2583	0	2632	119	0
2	BL	2583	0	2632	109	0
2	BM	2583	0	2632	102	0
2	BN	2583	0	2632	119	0
2	BO	2583	0	2632	116	0
2	BP	2583	0	2632	113	0
2	BQ	2583	0	2632	111	0
2	BR	2583	0	2632	117	0
2	BS	2583	0	2632	130	0
2	BT	2583	0	2632	129	0
2	BU	2583	0	2632	119	0
2	BV	2583	0	2632	112	0
2	BW	2583	0	2632	111	0
2	BX	2583	0	2632	111	0
2	BY	2583	0	2632	124	0
3	C1	2348	0	2376	94	0
3	C2	2348	0	2376	97	0
3	C3	2348	0	2376	96	0
3	C4	2348	0	2376	102	0
3	C5	2348	0	2376	93	0
3	C6	2348	0	2376	100	0
3	C7	2348	0	2376	96	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C8	2348	0	2376	96	0
3	C9	2348	0	2376	96	0
3	CA	2348	0	2376	92	0
3	CB	2348	0	2376	103	0
3	CC	2348	0	2376	96	0
3	CD	2348	0	2376	100	0
3	CE	2348	0	2376	98	0
3	CF	2348	0	2376	99	0
3	CG	2348	0	2376	96	0
3	CH	2348	0	2376	97	0
3	CI	2348	0	2376	95	0
3	CJ	2348	0	2376	99	0
3	CK	2348	0	2376	94	0
3	CL	2348	0	2376	90	0
3	CM	2348	0	2376	99	0
3	CN	2348	0	2376	94	0
3	CO	2348	0	2376	91	0
3	CP	2348	0	2376	93	0
3	CQ	2348	0	2376	100	0
3	CR	2348	0	2376	91	0
3	CS	2348	0	2376	99	0
3	CT	2348	0	2376	96	0
3	CU	2348	0	2376	100	0
3	CV	2348	0	2376	101	0
3	CW	2348	0	2376	94	0
3	CX	2348	0	2376	98	0
3	CY	2348	0	2376	99	0
4	D1	625	0	676	38	0
4	D2	625	0	676	36	0
4	D3	625	0	676	33	0
4	D4	625	0	676	37	0
4	D5	625	0	676	36	0
4	D6	625	0	676	37	0
4	D7	625	0	676	37	0
4	D8	625	0	676	36	0
4	D9	625	0	676	36	0
4	DA	625	0	676	36	0
4	DB	625	0	676	36	0
4	DC	625	0	676	39	0
4	DD	625	0	676	37	0
4	DE	625	0	676	42	0
4	DF	625	0	676	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	DG	625	0	676	36	0
4	DH	625	0	676	36	0
4	DI	625	0	676	36	0
4	DJ	625	0	676	38	0
4	DK	625	0	676	36	0
4	DL	625	0	676	36	0
4	DM	625	0	676	37	0
4	DN	625	0	676	32	0
4	DO	625	0	676	33	0
4	DP	625	0	676	40	0
4	DQ	625	0	676	34	0
4	DR	625	0	676	37	0
4	DS	625	0	676	37	0
4	DT	625	0	676	39	0
4	DU	625	0	676	35	0
4	DV	625	0	676	39	0
4	DW	625	0	676	37	0
4	DX	625	0	676	36	0
4	DY	625	0	676	41	0
4	E1	625	0	676	43	0
4	E2	625	0	676	44	0
4	E3	625	0	676	40	0
4	E4	625	0	676	38	0
4	E5	625	0	676	40	0
4	E6	625	0	676	38	0
4	E7	625	0	676	40	0
4	E8	625	0	676	43	0
4	E9	625	0	676	41	0
4	EA	625	0	676	41	0
4	EB	625	0	676	45	0
4	EC	625	0	676	39	0
4	ED	625	0	676	40	0
4	EE	625	0	676	41	0
4	EF	625	0	676	43	0
4	EG	625	0	676	47	0
4	EH	625	0	676	46	0
4	EI	625	0	676	37	0
4	EJ	625	0	676	43	0
4	EK	625	0	676	39	0
4	EL	625	0	676	42	0
4	EM	625	0	676	47	0
4	EN	625	0	676	43	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	EO	625	0	676	37	0
4	EP	625	0	676	49	0
4	EQ	625	0	676	38	0
4	ER	625	0	676	50	0
4	ES	625	0	676	43	0
4	ET	625	0	676	38	0
4	EU	625	0	676	43	0
4	EV	625	0	676	41	0
4	EW	625	0	676	39	0
4	EX	625	0	676	44	0
4	EY	625	0	676	44	0
4	F1	627	0	679	48	0
4	F2	627	0	679	48	0
4	F3	627	0	679	45	0
4	F4	627	0	679	47	0
4	F5	627	0	679	46	0
4	F6	627	0	679	47	0
4	F7	627	0	679	42	0
4	F8	627	0	679	48	0
4	F9	627	0	679	45	0
4	FA	627	0	679	45	0
4	FB	627	0	679	45	0
4	FC	627	0	679	49	0
4	FD	627	0	679	47	0
4	FE	627	0	679	54	0
4	FF	627	0	679	44	0
4	FG	627	0	679	54	0
4	FH	627	0	679	48	0
4	FI	627	0	679	43	0
4	FJ	627	0	679	49	0
4	FK	627	0	679	45	0
4	FL	627	0	679	45	0
4	FM	627	0	679	48	0
4	FN	627	0	679	47	0
4	FO	627	0	679	45	0
4	FP	627	0	679	44	0
4	FQ	627	0	679	45	0
4	FR	627	0	679	49	0
4	FS	627	0	679	47	0
4	FT	627	0	679	44	0
4	FU	627	0	679	46	0
4	FV	627	0	679	46	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	FW	627	0	679	46	0
4	FX	627	0	679	49	0
4	FY	627	0	679	50	0
All	All	244834	0	252382	9447	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 19.

All (9447) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BW:251:LEU:HD22	2:BW:278:MET:HG2	1.50	0.94
2:BK:251:LEU:HD22	2:BK:278:MET:HG2	1.49	0.94
2:BF:251:LEU:HD22	2:BF:278:MET:HG2	1.50	0.93
2:B5:251:LEU:HD22	2:B5:278:MET:HG2	1.50	0.93
2:BD:251:LEU:HD22	2:BD:278:MET:HG2	1.49	0.93
2:BR:251:LEU:HD22	2:BR:278:MET:HG2	1.51	0.93
2:BT:251:LEU:HD22	2:BT:278:MET:HG2	1.49	0.93
2:BX:251:LEU:HD22	2:BX:278:MET:HG2	1.49	0.92
2:BV:251:LEU:HD22	2:BV:278:MET:HG2	1.49	0.92
2:BC:251:LEU:HD22	2:BC:278:MET:HG2	1.49	0.92
2:BS:251:LEU:HD22	2:BS:278:MET:HG2	1.51	0.92
2:BG:251:LEU:HD22	2:BG:278:MET:HG2	1.50	0.91
2:BE:251:LEU:HD22	2:BE:278:MET:HG2	1.50	0.91
2:BM:251:LEU:HD22	2:BM:278:MET:HG2	1.52	0.90
2:BB:251:LEU:HD22	2:BB:278:MET:HG2	1.50	0.90
2:BJ:251:LEU:HD22	2:BJ:278:MET:HG2	1.52	0.90
2:B2:251:LEU:HD22	2:B2:278:MET:HG2	1.52	0.90
2:BH:251:LEU:HD22	2:BH:278:MET:HG2	1.54	0.88
2:BU:251:LEU:HD22	2:BU:278:MET:HG2	1.53	0.88
2:B1:251:LEU:HD22	2:B1:278:MET:HG2	1.53	0.88
2:B9:251:LEU:HD22	2:B9:278:MET:HG2	1.55	0.86
3:C7:299:VAL:HA	4:F7:132:MET:HE2	1.58	0.85
2:BY:251:LEU:HD22	2:BY:278:MET:HG2	1.54	0.85
3:CX:299:VAL:HA	4:FX:132:MET:HE2	1.60	0.84
3:C3:299:VAL:HA	4:F3:132:MET:HE2	1.60	0.84
2:BS:139:ARG:HH22	2:BT:205:LEU:H	1.25	0.84
4:EU:61:PRO:HA	4:FU:74:THR:HA	1.59	0.84
1:AQ:532:MET:HE2	2:BQ:56:LEU:HD13	1.61	0.83
2:BD:139:ARG:NE	2:BE:201:GLU:OE1	2.09	0.82
4:EM:61:PRO:HA	4:FM:74:THR:HA	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:532:MET:HE2	2:B3:56:LEU:HD13	1.61	0.82
2:B5:139:ARG:NE	2:B6:201:GLU:OE1	2.11	0.82
2:BH:139:ARG:HD2	2:BI:202:ILE:HA	1.60	0.82
1:AV:532:MET:HE2	2:BV:56:LEU:HD13	1.62	0.82
4:EL:61:PRO:HA	4:FL:74:THR:HA	1.62	0.82
2:BS:139:ARG:HH12	2:BT:205:LEU:HB2	1.44	0.82
3:C8:299:VAL:HA	4:F8:132:MET:HE2	1.62	0.81
4:EY:76:LYS:NZ	4:FY:58:MET:O	2.14	0.81
3:CY:299:VAL:HA	4:FY:132:MET:HE2	1.62	0.81
4:EV:76:LYS:NZ	4:FV:58:MET:O	2.14	0.81
4:E4:76:LYS:NZ	4:F4:58:MET:O	2.14	0.81
4:E2:76:LYS:NZ	4:F2:58:MET:O	2.14	0.81
2:BB:139:ARG:NE	2:BC:201:GLU:OE1	2.14	0.81
4:EK:76:LYS:NZ	4:FK:58:MET:O	2.14	0.81
4:EE:76:LYS:NZ	4:FE:58:MET:O	2.14	0.81
4:EF:76:LYS:NZ	4:FF:58:MET:O	2.13	0.80
3:CJ:258:GLU:O	4:FK:102:ASN:ND2	2.14	0.80
4:EY:61:PRO:HA	4:FY:74:THR:HA	1.63	0.80
2:BH:139:ARG:NE	2:BI:201:GLU:OE1	2.14	0.80
2:BL:46:GLN:HE21	2:BM:68:ALA:H	1.30	0.80
4:EQ:76:LYS:NZ	4:FQ:58:MET:O	2.14	0.80
4:EG:76:LYS:NZ	4:FG:58:MET:O	2.14	0.80
4:E9:76:LYS:NZ	4:F9:58:MET:O	2.14	0.80
4:EX:76:LYS:NZ	4:FX:58:MET:O	2.15	0.80
2:B7:139:ARG:NE	2:B8:201:GLU:OE1	2.14	0.79
4:E7:61:PRO:HA	4:F7:74:THR:HA	1.61	0.79
4:EH:76:LYS:NZ	4:FH:58:MET:O	2.14	0.79
4:EL:76:LYS:NZ	4:FL:58:MET:O	2.14	0.79
4:EV:61:PRO:HA	4:FV:74:THR:HA	1.62	0.79
4:E5:76:LYS:NZ	4:F5:58:MET:O	2.14	0.79
2:BL:139:ARG:NH1	2:BM:201:GLU:OE1	2.16	0.79
3:CS:299:VAL:HA	4:FS:132:MET:HE2	1.63	0.79
1:AY:532:MET:HE2	2:BY:56:LEU:HD13	1.64	0.79
4:E3:76:LYS:NZ	4:F3:58:MET:O	2.15	0.79
2:B7:139:ARG:HD2	2:B8:202:ILE:HA	1.64	0.79
2:BB:155:HIS:HA	2:BB:158:MET:HE3	1.65	0.79
4:ER:76:LYS:NZ	4:FR:58:MET:O	2.16	0.79
2:B5:46:GLN:HE21	2:B6:68:ALA:H	1.26	0.79
3:CW:47:VAL:H	3:CW:48:ARG:HH21	1.30	0.78
3:CV:47:VAL:H	3:CV:48:ARG:HH21	1.31	0.78
2:BL:139:ARG:HD2	2:BM:202:ILE:HA	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CQ:47:VAL:H	3:CQ:48:ARG:HH21	1.31	0.78
4:EO:75:ILE:HA	4:EO:78:LEU:HD12	1.66	0.78
3:CR:47:VAL:H	3:CR:48:ARG:HH21	1.31	0.78
2:BC:139:ARG:HH12	2:BD:198:THR:HG23	1.49	0.77
4:EP:76:LYS:NZ	4:FP:58:MET:O	2.18	0.77
2:BX:46:GLN:HE21	2:BY:68:ALA:H	1.30	0.77
3:CW:300:PRO:HB2	3:CW:321:ILE:HG13	1.65	0.77
3:CU:47:VAL:H	3:CU:48:ARG:HH21	1.31	0.77
3:C2:47:VAL:H	3:C2:48:ARG:HH21	1.31	0.77
3:C3:47:VAL:H	3:C3:48:ARG:HH21	1.31	0.77
2:BX:139:ARG:NE	2:BY:201:GLU:OE1	2.18	0.77
3:CB:300:PRO:HB2	3:CB:321:ILE:HG13	1.65	0.77
3:CM:47:VAL:H	3:CM:48:ARG:HH21	1.31	0.77
3:CP:47:VAL:H	3:CP:48:ARG:HH21	1.31	0.77
3:CR:299:VAL:HA	4:FR:132:MET:HE2	1.66	0.77
3:CF:47:VAL:H	3:CF:48:ARG:HH21	1.31	0.77
3:CL:47:VAL:H	3:CL:48:ARG:HH21	1.31	0.77
3:C8:47:VAL:H	3:C8:48:ARG:HH21	1.30	0.77
3:CS:47:VAL:H	3:CS:48:ARG:HH21	1.31	0.77
4:EU:76:LYS:NZ	4:FU:58:MET:O	2.17	0.77
4:FG:77:GLU:HA	4:FG:80:ARG:HG2	1.65	0.76
3:C2:299:VAL:HA	4:F2:132:MET:HE2	1.67	0.76
3:C9:47:VAL:H	3:C9:48:ARG:HH21	1.31	0.76
2:BG:139:ARG:NE	2:BH:201:GLU:OE1	2.18	0.76
2:BU:139:ARG:NH1	2:BV:201:GLU:OE1	2.18	0.76
3:CX:47:VAL:H	3:CX:48:ARG:HH21	1.31	0.76
3:CK:47:VAL:H	3:CK:48:ARG:HH21	1.31	0.76
4:ET:76:LYS:NZ	4:FT:58:MET:O	2.19	0.76
3:CB:47:VAL:H	3:CB:48:ARG:HH21	1.31	0.76
3:CC:47:VAL:H	3:CC:48:ARG:HH21	1.31	0.76
4:EE:128:PRO:HB3	4:EE:131:ARG:HE	1.51	0.76
3:CI:47:VAL:H	3:CI:48:ARG:HH21	1.31	0.76
4:EW:76:LYS:NZ	4:FW:58:MET:O	2.19	0.76
3:C6:47:VAL:H	3:C6:48:ARG:HH21	1.31	0.76
3:CD:47:VAL:H	3:CD:48:ARG:HH21	1.31	0.76
3:C1:47:VAL:H	3:C1:48:ARG:HH21	1.31	0.76
4:E3:128:PRO:HB3	4:E3:131:ARG:HE	1.51	0.76
3:CG:53:ALA:HB3	3:CG:231:LEU:HA	1.68	0.76
3:CN:47:VAL:H	3:CN:48:ARG:HH21	1.30	0.76
2:BR:240:VAL:O	2:BR:273:LYS:NZ	2.19	0.76
3:C4:47:VAL:H	3:C4:48:ARG:HH21	1.31	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:139:ARG:HH11	2:BD:202:ILE:HG13	1.51	0.75
3:CG:47:VAL:H	3:CG:48:ARG:HH21	1.31	0.75
2:BF:139:ARG:NE	2:BG:201:GLU:OE1	2.14	0.75
2:BB:240:VAL:O	2:BB:273:LYS:NZ	2.19	0.75
3:CE:47:VAL:H	3:CE:48:ARG:HH21	1.31	0.75
3:CH:47:VAL:H	3:CH:48:ARG:HH21	1.30	0.75
4:EP:61:PRO:HA	4:FP:74:THR:HA	1.68	0.75
3:CI:53:ALA:HB3	3:CI:231:LEU:HA	1.69	0.75
3:CJ:47:VAL:H	3:CJ:48:ARG:HH21	1.31	0.75
2:BV:197:ARG:HA	2:BV:232:GLU:HG2	1.69	0.75
3:C5:47:VAL:H	3:C5:48:ARG:HH21	1.31	0.75
3:CH:53:ALA:HB3	3:CH:231:LEU:HA	1.69	0.75
2:BI:201:GLU:HA	2:BI:204:ASN:HD22	1.50	0.75
4:EJ:112:VAL:HG11	4:EJ:121:ARG:HE	1.52	0.75
3:CA:47:VAL:H	3:CA:48:ARG:HH21	1.31	0.74
3:CD:53:ALA:HB3	3:CD:231:LEU:HA	1.69	0.74
3:C5:53:ALA:HB3	3:C5:231:LEU:HA	1.69	0.74
1:AM:547:VAL:HG23	2:BM:59:PHE:HZ	1.51	0.74
3:CT:47:VAL:H	3:CT:48:ARG:HH21	1.31	0.74
1:A6:547:VAL:HG23	2:B6:59:PHE:HZ	1.53	0.74
3:C7:47:VAL:H	3:C7:48:ARG:HH21	1.31	0.74
2:BM:197:ARG:HA	2:BM:232:GLU:HG2	1.70	0.74
3:C7:53:ALA:HB3	3:C7:231:LEU:HA	1.70	0.74
3:C9:53:ALA:HB3	3:C9:231:LEU:HA	1.70	0.74
1:AC:547:VAL:HG23	2:BC:59:PHE:HZ	1.53	0.74
3:CO:47:VAL:H	3:CO:48:ARG:HH21	1.31	0.74
4:ES:76:LYS:NZ	4:FS:58:MET:O	2.20	0.74
2:BT:197:ARG:HA	2:BT:232:GLU:HG2	1.69	0.74
3:CX:53:ALA:HB3	3:CX:231:LEU:HA	1.69	0.74
2:BS:113:MET:O	2:BS:141:GLN:NE2	2.20	0.74
3:CT:53:ALA:HB3	3:CT:231:LEU:HA	1.69	0.74
3:C1:53:ALA:HB3	3:C1:231:LEU:HA	1.69	0.74
3:C6:53:ALA:HB3	3:C6:231:LEU:HA	1.70	0.74
3:CO:53:ALA:HB3	3:CO:231:LEU:HA	1.69	0.74
3:CP:53:ALA:HB3	3:CP:231:LEU:HA	1.69	0.74
4:EW:61:PRO:HA	4:FW:74:THR:HA	1.68	0.74
3:C9:299:VAL:HA	4:F9:132:MET:HE2	1.70	0.74
4:ET:128:PRO:HB3	4:ET:131:ARG:HE	1.53	0.74
4:EU:128:PRO:HB3	4:EU:131:ARG:HE	1.53	0.74
2:BS:240:VAL:O	2:BS:273:LYS:NZ	2.20	0.74
3:CY:53:ALA:HB3	3:CY:231:LEU:HA	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:547:VAL:HG23	2:BH:59:PHE:HZ	1.53	0.74
4:EK:61:PRO:HA	4:FK:74:THR:HA	1.68	0.74
3:CY:47:VAL:H	3:CY:48:ARG:HH21	1.30	0.74
2:B2:240:VAL:O	2:B2:273:LYS:NZ	2.19	0.73
3:C8:300:PRO:HB2	3:C8:321:ILE:HG13	1.70	0.73
3:CC:53:ALA:HB3	3:CC:231:LEU:HA	1.70	0.73
3:CK:53:ALA:HB3	3:CK:231:LEU:HA	1.70	0.73
3:CN:53:ALA:HB3	3:CN:231:LEU:HA	1.70	0.73
4:EN:61:PRO:HA	4:FN:74:THR:HA	1.70	0.73
3:CQ:53:ALA:HB3	3:CQ:231:LEU:HA	1.70	0.73
4:ER:75:ILE:HA	4:ER:78:LEU:HD12	1.70	0.73
3:C8:53:ALA:HB3	3:C8:231:LEU:HA	1.70	0.73
3:CF:53:ALA:HB3	3:CF:231:LEU:HA	1.70	0.73
2:BG:46:GLN:NE2	2:BH:68:ALA:O	2.21	0.73
3:CJ:53:ALA:HB3	3:CJ:231:LEU:HA	1.70	0.73
3:CM:53:ALA:HB3	3:CM:231:LEU:HA	1.70	0.73
2:B2:139:ARG:NH1	2:B3:201:GLU:OE1	2.20	0.73
2:BW:46:GLN:NE2	2:BX:68:ALA:O	2.21	0.73
3:C2:53:ALA:HB3	3:C2:231:LEU:HA	1.70	0.73
3:C3:300:PRO:HB2	3:C3:321:ILE:HG13	1.71	0.73
3:C4:53:ALA:HB3	3:C4:231:LEU:HA	1.70	0.73
2:BJ:113:MET:O	2:BJ:141:GLN:NE2	2.19	0.73
3:CO:299:VAL:HA	4:FO:132:MET:HE2	1.69	0.73
3:CE:53:ALA:HB3	3:CE:231:LEU:HA	1.71	0.73
3:CW:53:ALA:HB3	3:CW:231:LEU:HA	1.70	0.73
3:C3:53:ALA:HB3	3:C3:231:LEU:HA	1.70	0.73
1:AI:547:VAL:HG23	2:BI:59:PHE:HZ	1.54	0.73
1:AJ:547:VAL:HG23	2:BJ:59:PHE:HZ	1.54	0.73
3:CL:53:ALA:HB3	3:CL:231:LEU:HA	1.71	0.73
4:E2:128:PRO:HB3	4:E2:131:ARG:HE	1.53	0.73
4:EA:61:PRO:HA	4:FA:74:THR:HA	1.70	0.73
3:CB:53:ALA:HB3	3:CB:231:LEU:HA	1.71	0.73
4:EF:128:PRO:HB3	4:EF:131:ARG:HE	1.53	0.73
3:CG:79:ILE:HG12	3:CG:206:VAL:HG22	1.71	0.73
4:EN:75:ILE:HA	4:EN:78:LEU:HD12	1.71	0.73
4:EF:61:PRO:HA	4:FF:74:THR:HA	1.70	0.73
2:BG:68:ALA:O	2:BG:70:ASN:ND2	2.22	0.73
2:B4:158:MET:SD	2:B5:214:VAL:HG13	2.29	0.73
3:C9:79:ILE:HG12	3:C9:206:VAL:HG22	1.71	0.73
2:BL:46:GLN:NE2	2:BM:68:ALA:H	1.87	0.73
2:BB:158:MET:SD	2:BC:214:VAL:HG13	2.28	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:79:ILE:HG12	3:CF:206:VAL:HG22	1.71	0.72
2:BG:201:GLU:HA	2:BG:204:ASN:HD22	1.54	0.72
3:CJ:79:ILE:HG12	3:CJ:206:VAL:HG22	1.71	0.72
4:E1:128:PRO:HB3	4:E1:131:ARG:HE	1.54	0.72
2:BB:46:GLN:NE2	2:BC:68:ALA:O	2.22	0.72
3:CC:79:ILE:HG12	3:CC:206:VAL:HG22	1.71	0.72
4:EE:61:PRO:HA	4:FE:74:THR:HA	1.71	0.72
3:CU:53:ALA:HB3	3:CU:231:LEU:HA	1.71	0.72
3:C8:79:ILE:HG12	3:C8:206:VAL:HG22	1.72	0.72
3:CD:79:ILE:HG12	3:CD:206:VAL:HG22	1.71	0.72
1:AH:552:ARG:NH1	2:BH:33:GLU:OE2	2.23	0.72
4:EQ:128:PRO:HB3	4:EQ:131:ARG:HE	1.55	0.72
4:E9:128:PRO:HB3	4:E9:131:ARG:HE	1.55	0.72
3:CE:79:ILE:HG12	3:CE:206:VAL:HG22	1.72	0.72
4:EM:75:ILE:HA	4:EM:78:LEU:HD12	1.72	0.72
3:CS:53:ALA:HB3	3:CS:231:LEU:HA	1.71	0.72
2:B8:113:MET:O	2:B8:141:GLN:NE2	2.22	0.72
3:CA:296:VAL:HB	4:FB:60:ILE:HD11	1.72	0.72
3:C6:79:ILE:HG12	3:C6:206:VAL:HG22	1.71	0.72
1:AD:547:VAL:HG23	2:BD:59:PHE:HZ	1.55	0.72
3:CM:79:ILE:HG12	3:CM:206:VAL:HG22	1.71	0.72
4:EO:61:PRO:HA	4:FO:74:THR:HA	1.71	0.72
3:CQ:296:VAL:HB	4:FR:60:ILE:HD11	1.68	0.72
1:AR:547:VAL:HG23	2:BR:59:PHE:HZ	1.55	0.72
3:CV:53:ALA:HB3	3:CV:231:LEU:HA	1.71	0.72
1:A1:547:VAL:HG23	2:B1:59:PHE:HZ	1.54	0.72
2:B6:113:MET:O	2:B6:141:GLN:NE2	2.22	0.72
3:CB:79:ILE:HG12	3:CB:206:VAL:HG22	1.72	0.72
2:BC:46:GLN:NE2	2:BD:68:ALA:O	2.23	0.72
2:BD:201:GLU:HA	2:BD:204:ASN:HD22	1.55	0.72
2:BH:46:GLN:NE2	2:BI:68:ALA:O	2.23	0.72
3:CH:79:ILE:HG12	3:CH:206:VAL:HG22	1.72	0.72
3:CN:79:ILE:HG12	3:CN:206:VAL:HG22	1.71	0.72
3:C7:79:ILE:HG12	3:C7:206:VAL:HG22	1.72	0.72
2:B9:240:VAL:O	2:B9:273:LYS:NZ	2.22	0.72
3:CL:79:ILE:HG12	3:CL:206:VAL:HG22	1.72	0.72
2:BM:240:VAL:O	2:BM:273:LYS:NZ	2.22	0.72
1:AU:547:VAL:HG23	2:BU:59:PHE:HZ	1.53	0.72
1:AX:547:VAL:HG23	2:BX:59:PHE:HZ	1.54	0.72
2:B2:113:MET:O	2:B2:141:GLN:NE2	2.19	0.72
3:C5:79:ILE:HG12	3:C5:206:VAL:HG22	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:53:ALA:HB3	3:CA:231:LEU:HA	1.72	0.72
4:EB:61:PRO:HA	4:FB:74:THR:HA	1.71	0.72
2:BF:113:MET:O	2:BF:141:GLN:NE2	2.21	0.72
4:EH:61:PRO:HA	4:FH:74:THR:HA	1.70	0.72
4:EJ:61:PRO:HA	4:FJ:74:THR:HA	1.70	0.72
4:E8:61:PRO:HA	4:F8:74:THR:HA	1.72	0.72
2:BE:240:VAL:O	2:BE:273:LYS:NZ	2.23	0.72
4:EH:128:PRO:HB3	4:EH:131:ARG:HE	1.55	0.72
3:CJ:296:VAL:HB	4:FK:60:ILE:HD11	1.71	0.72
3:CP:79:ILE:HG12	3:CP:206:VAL:HG22	1.71	0.72
4:ET:61:PRO:HA	4:FT:74:THR:HA	1.70	0.72
2:BW:113:MET:O	2:BW:141:GLN:NE2	2.19	0.72
2:BX:46:GLN:NE2	2:BY:68:ALA:H	1.87	0.72
3:C2:79:ILE:HG12	3:C2:206:VAL:HG22	1.71	0.71
3:C4:79:ILE:HG12	3:C4:206:VAL:HG22	1.72	0.71
4:EC:61:PRO:HA	4:FC:74:THR:HA	1.71	0.71
2:BF:139:ARG:HD2	2:BG:202:ILE:HA	1.71	0.71
3:CG:296:VAL:HB	4:FH:60:ILE:HD11	1.71	0.71
2:BK:113:MET:O	2:BK:141:GLN:NE2	2.23	0.71
3:CK:79:ILE:HG12	3:CK:206:VAL:HG22	1.72	0.71
4:E2:61:PRO:HA	4:F2:74:THR:HA	1.70	0.71
3:CA:79:ILE:HG12	3:CA:206:VAL:HG22	1.72	0.71
3:CE:300:PRO:HB2	3:CE:321:ILE:HG13	1.72	0.71
3:CI:79:ILE:HG12	3:CI:206:VAL:HG22	1.72	0.71
4:DI:96:PRO:O	4:DI:108:GLN:NE2	2.23	0.71
4:EK:128:PRO:HB3	4:EK:131:ARG:HE	1.55	0.71
3:C6:300:PRO:HB2	3:C6:321:ILE:HG13	1.72	0.71
4:EP:75:ILE:HA	4:EP:78:LEU:HD12	1.72	0.71
4:ES:61:PRO:HA	4:FS:74:THR:HA	1.72	0.71
4:DT:96:PRO:O	4:DT:108:GLN:NE2	2.24	0.71
2:BU:9:LYS:HA	2:BU:12:ILE:HD12	1.71	0.71
3:CX:300:PRO:HB2	3:CX:321:ILE:HG13	1.73	0.71
3:C5:253:GLN:OE1	4:F6:131:ARG:NH2	2.23	0.71
3:CO:79:ILE:HG12	3:CO:206:VAL:HG22	1.71	0.71
3:CQ:79:ILE:HG12	3:CQ:206:VAL:HG22	1.71	0.71
4:EQ:61:PRO:HA	4:FQ:74:THR:HA	1.73	0.71
4:DY:96:PRO:O	4:DY:108:GLN:NE2	2.24	0.71
3:C3:79:ILE:HG12	3:C3:206:VAL:HG22	1.71	0.71
2:B4:113:MET:O	2:B4:141:GLN:NE2	2.20	0.71
2:BA:240:VAL:O	2:BA:273:LYS:NZ	2.23	0.71
3:CS:300:PRO:HB2	3:CS:321:ILE:HG13	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:547:VAL:HG23	2:B5:59:PHE:HZ	1.55	0.71
3:CP:299:VAL:HG22	4:FP:132:MET:HE2	1.72	0.71
4:E6:75:ILE:HA	4:E6:78:LEU:HD12	1.72	0.71
4:E9:61:PRO:HA	4:F9:74:THR:HA	1.73	0.71
3:CV:296:VAL:HB	4:FW:60:ILE:HD11	1.73	0.71
3:CX:79:ILE:HG12	3:CX:206:VAL:HG22	1.71	0.71
3:CY:300:PRO:HB2	3:CY:321:ILE:HG13	1.73	0.71
4:E1:61:PRO:HA	4:F1:74:THR:HA	1.72	0.71
2:B4:41:MET:HA	2:B4:44:VAL:HB	1.73	0.71
4:E5:61:PRO:HA	4:F5:74:THR:HA	1.72	0.71
2:BC:113:MET:O	2:BC:141:GLN:NE2	2.22	0.71
2:BJ:240:VAL:O	2:BJ:273:LYS:NZ	2.23	0.71
1:AL:547:VAL:HG23	2:BL:59:PHE:HZ	1.56	0.71
4:DL:96:PRO:O	4:DL:108:GLN:NE2	2.24	0.71
3:CV:79:ILE:HG12	3:CV:206:VAL:HG22	1.71	0.71
2:B5:46:GLN:NE2	2:B6:68:ALA:H	1.88	0.71
3:C7:300:PRO:HB2	3:C7:321:ILE:HG13	1.73	0.71
2:B8:260:LEU:HD21	2:B8:293:ARG:HG3	1.73	0.71
2:BC:240:VAL:O	2:BC:273:LYS:NZ	2.23	0.71
2:BD:240:VAL:O	2:BD:273:LYS:NZ	2.24	0.71
2:BM:295:PRO:HB2	2:BN:330:TYR:HB3	1.73	0.71
2:BT:113:MET:O	2:BT:141:GLN:NE2	2.20	0.71
3:CT:79:ILE:HG12	3:CT:206:VAL:HG22	1.72	0.71
2:BE:9:LYS:HA	2:BE:12:ILE:HD12	1.72	0.71
3:CS:79:ILE:HG12	3:CS:206:VAL:HG22	1.72	0.71
2:B5:197:ARG:HA	2:B5:232:GLU:HG2	1.72	0.70
4:EI:61:PRO:HA	4:FI:74:THR:HA	1.72	0.70
2:BP:229:ILE:O	2:BP:233:MET:HG2	1.91	0.70
3:CR:53:ALA:HB3	3:CR:231:LEU:HA	1.73	0.70
4:ER:61:PRO:HA	4:FR:74:THR:HA	1.72	0.70
3:CU:79:ILE:HG12	3:CU:206:VAL:HG22	1.71	0.70
4:E6:128:PRO:HB3	4:E6:131:ARG:HE	1.55	0.70
4:F6:104:TYR:OH	4:F6:131:ARG:NH2	2.24	0.70
4:DC:96:PRO:O	4:DC:108:GLN:NE2	2.24	0.70
3:CD:299:VAL:HG22	4:FD:132:MET:HE2	1.73	0.70
4:ED:58:MET:O	4:FD:76:LYS:NZ	2.24	0.70
3:CL:296:VAL:HB	4:FM:60:ILE:HD11	1.72	0.70
3:CM:296:VAL:HB	4:FN:60:ILE:HD11	1.72	0.70
2:BN:113:MET:O	2:BN:141:GLN:NE2	2.22	0.70
1:AP:547:VAL:HG23	2:BP:59:PHE:HZ	1.56	0.70
4:DQ:96:PRO:O	4:DQ:108:GLN:NE2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BS:9:LYS:HA	2:BS:12:ILE:HD12	1.72	0.70
1:AW:547:VAL:HG23	2:BW:59:PHE:HZ	1.56	0.70
3:C1:79:ILE:HG12	3:C1:206:VAL:HG22	1.72	0.70
2:B5:240:VAL:O	2:B5:273:LYS:NZ	2.23	0.70
2:B6:201:GLU:HA	2:B6:204:ASN:HD22	1.56	0.70
2:B7:113:MET:O	2:B7:141:GLN:NE2	2.21	0.70
3:CH:299:VAL:HG22	4:FH:132:MET:HE2	1.72	0.70
3:CP:296:VAL:HB	4:FQ:60:ILE:HD11	1.73	0.70
2:BV:113:MET:O	2:BV:141:GLN:NE2	2.23	0.70
4:EX:128:PRO:HB3	4:EX:131:ARG:HE	1.56	0.70
2:B3:197:ARG:HA	2:B3:232:GLU:HG2	1.73	0.70
2:BI:260:LEU:HD21	2:BI:293:ARG:HG3	1.73	0.70
3:CR:79:ILE:HG12	3:CR:206:VAL:HG22	1.72	0.70
1:AT:547:VAL:HG23	2:BT:59:PHE:HZ	1.57	0.70
3:CU:199:VAL:HG23	3:CU:220:PRO:HA	1.73	0.70
3:CY:79:ILE:HG12	3:CY:206:VAL:HG22	1.72	0.70
2:B6:295:PRO:HB2	2:B7:330:TYR:HB3	1.73	0.70
3:CF:296:VAL:HB	4:FG:60:ILE:HD11	1.71	0.70
2:BI:68:ALA:O	2:BI:70:ASN:ND2	2.23	0.70
2:BL:260:LEU:HD21	2:BL:293:ARG:HG3	1.73	0.70
2:BP:260:LEU:HD21	2:BP:293:ARG:HG3	1.73	0.70
1:AS:547:VAL:HG23	2:BS:59:PHE:HZ	1.56	0.70
3:CV:199:VAL:HG23	3:CV:220:PRO:HA	1.73	0.70
3:CW:79:ILE:HG12	3:CW:206:VAL:HG22	1.72	0.70
2:B6:260:LEU:HD21	2:B6:293:ARG:HG3	1.73	0.70
2:BH:240:VAL:O	2:BH:273:LYS:NZ	2.24	0.70
2:BM:139:ARG:NH1	2:BN:201:GLU:OE1	2.24	0.70
3:CN:199:VAL:HG23	3:CN:220:PRO:HA	1.73	0.70
2:BO:113:MET:O	2:BO:141:GLN:NE2	2.20	0.70
2:BO:139:ARG:NE	2:BP:201:GLU:OE1	2.22	0.70
4:DX:96:PRO:O	4:DX:108:GLN:NE2	2.24	0.70
2:B3:113:MET:O	2:B3:141:GLN:NE2	2.22	0.70
2:B4:139:ARG:NH1	2:B5:201:GLU:OE1	2.24	0.70
3:C6:299:VAL:HA	4:F6:132:MET:HE3	1.74	0.70
2:BA:197:ARG:HA	2:BA:232:GLU:HG2	1.73	0.70
4:DD:96:PRO:O	4:DD:108:GLN:NE2	2.24	0.70
4:EN:128:PRO:HB3	4:EN:131:ARG:HE	1.56	0.70
2:BS:295:PRO:HB2	2:BT:330:TYR:HB3	1.74	0.70
2:BW:295:PRO:HB2	2:BX:330:TYR:HB3	1.73	0.70
1:AY:547:VAL:HG23	2:BY:59:PHE:HZ	1.56	0.70
2:B1:330:TYR:HB3	2:BY:295:PRO:HB2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D2:96:PRO:O	4:D2:108:GLN:NE2	2.24	0.70
2:B7:197:ARG:HA	2:B7:232:GLU:HG2	1.74	0.70
2:B9:113:MET:O	2:B9:141:GLN:NE2	2.23	0.70
3:CC:296:VAL:HB	4:FD:60:ILE:HD11	1.72	0.70
2:BE:295:PRO:HB2	2:BF:330:TYR:HB3	1.73	0.70
4:DE:96:PRO:O	4:DE:108:GLN:NE2	2.24	0.70
4:DG:96:PRO:O	4:DG:108:GLN:NE2	2.24	0.70
2:BV:9:LYS:HA	2:BV:12:ILE:HD12	1.72	0.70
1:A8:536:ILE:HA	1:A8:539:MET:HE3	1.74	0.70
4:EI:128:PRO:HB3	4:EI:131:ARG:HE	1.56	0.70
4:DW:96:PRO:O	4:DW:108:GLN:NE2	2.24	0.70
4:D1:96:PRO:O	4:D1:108:GLN:NE2	2.25	0.70
2:B6:14:LEU:HD13	2:B6:17:ILE:HD11	1.74	0.70
1:AA:547:VAL:HG23	2:BA:59:PHE:HZ	1.55	0.70
4:DA:96:PRO:O	4:DA:108:GLN:NE2	2.24	0.70
3:CD:296:VAL:HB	4:FE:60:ILE:HD11	1.74	0.70
2:BO:68:ALA:O	2:BO:70:ASN:ND2	2.25	0.70
4:EX:61:PRO:HA	4:FX:74:THR:HA	1.73	0.70
2:BY:240:VAL:O	2:BY:273:LYS:NZ	2.24	0.70
4:DY:105:LEU:O	4:DY:131:ARG:NH2	2.25	0.70
4:DF:96:PRO:O	4:DF:108:GLN:NE2	2.25	0.69
3:CM:199:VAL:HG23	3:CM:220:PRO:HA	1.73	0.69
2:BA:260:LEU:HD21	2:BA:293:ARG:HG3	1.73	0.69
2:BB:9:LYS:HA	2:BB:12:ILE:HD12	1.72	0.69
4:DB:96:PRO:O	4:DB:108:GLN:NE2	2.25	0.69
2:BF:240:VAL:O	2:BF:273:LYS:NZ	2.25	0.69
2:BK:260:LEU:HD21	2:BK:293:ARG:HG3	1.75	0.69
2:BQ:68:ALA:O	2:BQ:70:ASN:ND2	2.25	0.69
2:BQ:260:LEU:HD21	2:BQ:293:ARG:HG3	1.74	0.69
2:BB:68:ALA:O	2:BB:70:ASN:ND2	2.25	0.69
1:AK:547:VAL:HG23	2:BK:59:PHE:HZ	1.56	0.69
2:BQ:197:ARG:HA	2:BQ:232:GLU:HG2	1.73	0.69
3:CS:90:HIS:HB3	3:CS:195:PRO:HB2	1.74	0.69
2:B2:68:ALA:O	2:B2:70:ASN:ND2	2.26	0.69
2:B4:260:LEU:HD21	2:B4:293:ARG:HG3	1.73	0.69
4:D5:96:PRO:O	4:D5:108:GLN:NE2	2.25	0.69
2:BE:260:LEU:HD21	2:BE:293:ARG:HG3	1.75	0.69
4:DH:96:PRO:O	4:DH:108:GLN:NE2	2.25	0.69
2:BK:240:VAL:O	2:BK:273:LYS:NZ	2.25	0.69
2:BN:197:ARG:HA	2:BN:232:GLU:HG2	1.75	0.69
1:AO:547:VAL:HG23	2:BO:59:PHE:HZ	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CO:296:VAL:HB	4:FP:60:ILE:HD11	1.73	0.69
4:DV:96:PRO:O	4:DV:108:GLN:NE2	2.25	0.69
2:B2:295:PRO:HB2	2:B3:330:TYR:HB3	1.74	0.69
2:BD:260:LEU:HD21	2:BD:293:ARG:HG3	1.75	0.69
2:BE:113:MET:O	2:BE:141:GLN:NE2	2.22	0.69
2:BT:240:VAL:O	2:BT:273:LYS:NZ	2.25	0.69
3:CT:282:ASP:HB2	4:DT:122:ILE:HD12	1.74	0.69
4:DU:96:PRO:O	4:DU:108:GLN:NE2	2.24	0.69
2:BX:240:VAL:O	2:BX:273:LYS:NZ	2.25	0.69
2:BC:68:ALA:O	2:BC:70:ASN:ND2	2.26	0.69
2:BF:197:ARG:HA	2:BF:232:GLU:HG2	1.73	0.69
2:BM:9:LYS:HA	2:BM:12:ILE:HD12	1.73	0.69
2:BU:240:VAL:O	2:BU:273:LYS:NZ	2.24	0.69
2:BU:295:PRO:HB2	2:BV:330:TYR:HB3	1.74	0.69
2:B1:240:VAL:O	2:B1:273:LYS:NZ	2.25	0.69
4:D4:96:PRO:O	4:D4:108:GLN:NE2	2.25	0.69
2:B6:46:GLN:NE2	2:B7:68:ALA:O	2.25	0.69
3:C7:199:VAL:HG23	3:C7:220:PRO:HA	1.74	0.69
4:D9:96:PRO:O	4:D9:108:GLN:NE2	2.25	0.69
2:BB:113:MET:O	2:BB:141:GLN:NE2	2.21	0.69
3:CB:90:HIS:HB3	3:CB:195:PRO:HB2	1.75	0.69
2:BK:295:PRO:HB2	2:BL:330:TYR:HB3	1.74	0.69
3:CS:199:VAL:HG23	3:CS:220:PRO:HA	1.74	0.69
4:DS:96:PRO:O	4:DS:108:GLN:NE2	2.25	0.69
2:B2:260:LEU:HD21	2:B2:293:ARG:HG3	1.75	0.69
3:C2:90:HIS:HB3	3:C2:195:PRO:HB2	1.75	0.69
4:D3:96:PRO:O	4:D3:108:GLN:NE2	2.25	0.69
4:E4:61:PRO:HA	4:F4:74:THR:HA	1.74	0.69
3:C5:258:GLU:O	4:F6:102:ASN:ND2	2.25	0.69
3:C6:253:GLN:OE1	4:F7:131:ARG:NH2	2.25	0.69
4:D6:96:PRO:O	4:D6:108:GLN:NE2	2.25	0.69
2:B7:68:ALA:O	2:B7:70:ASN:ND2	2.25	0.69
4:D8:96:PRO:O	4:D8:108:GLN:NE2	2.25	0.69
2:B9:260:LEU:HD21	2:B9:293:ARG:HG3	1.75	0.69
2:BA:46:GLN:NE2	2:BB:68:ALA:O	2.26	0.69
2:BA:46:GLN:NE2	2:BA:47:ILE:O	2.26	0.69
3:CB:299:VAL:HA	4:FB:132:MET:HE2	1.75	0.69
2:BC:260:LEU:HD21	2:BC:293:ARG:HG3	1.75	0.69
2:BD:68:ALA:O	2:BD:70:ASN:ND2	2.25	0.69
2:BK:9:LYS:HA	2:BK:12:ILE:HD12	1.73	0.69
3:CK:154:ILE:HA	3:CK:157:MET:SD	2.33	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DK:96:PRO:O	4:DK:108:GLN:NE2	2.25	0.69
2:BN:260:LEU:HD21	2:BN:293:ARG:HG3	1.74	0.69
2:BQ:298:LEU:HD11	2:BR:329:THR:HB	1.74	0.69
4:DR:96:PRO:O	4:DR:108:GLN:NE2	2.25	0.69
3:CT:199:VAL:HG23	3:CT:220:PRO:HA	1.74	0.69
1:A2:547:VAL:HG23	2:B2:59:PHE:HZ	1.57	0.69
4:E3:61:PRO:HA	4:F3:74:THR:HA	1.74	0.69
2:B4:14:LEU:HD13	2:B4:17:ILE:HD11	1.74	0.69
4:D7:96:PRO:O	4:D7:108:GLN:NE2	2.25	0.69
2:BB:197:ARG:HA	2:BB:232:GLU:HG2	1.74	0.69
2:BH:68:ALA:O	2:BH:70:ASN:ND2	2.25	0.69
2:BN:240:VAL:O	2:BN:273:LYS:NZ	2.25	0.69
2:BO:46:GLN:NE2	2:BP:68:ALA:O	2.25	0.69
2:B3:68:ALA:O	2:B3:70:ASN:ND2	2.26	0.69
2:B8:68:ALA:O	2:B8:70:ASN:ND2	2.26	0.69
1:A9:532:MET:HE2	2:B9:56:LEU:HD13	1.74	0.69
3:CF:199:VAL:HG23	3:CF:220:PRO:HA	1.73	0.69
2:BG:240:VAL:O	2:BG:273:LYS:NZ	2.26	0.69
2:BJ:260:LEU:HD21	2:BJ:293:ARG:HG3	1.75	0.69
4:DJ:96:PRO:O	4:DJ:108:GLN:NE2	2.25	0.69
2:BL:240:VAL:O	2:BL:273:LYS:NZ	2.26	0.69
3:CL:282:ASP:HB2	4:DL:122:ILE:HD12	1.75	0.69
3:C2:154:ILE:HA	3:C2:157:MET:SD	2.33	0.68
3:C3:90:HIS:HB3	3:C3:195:PRO:HB2	1.75	0.68
3:C3:154:ILE:HA	3:C3:157:MET:SD	2.34	0.68
3:C4:90:HIS:HB3	3:C4:195:PRO:HB2	1.75	0.68
3:C6:90:HIS:HB3	3:C6:195:PRO:HB2	1.75	0.68
3:CB:253:GLN:OE1	4:FC:131:ARG:NH2	2.26	0.68
3:CD:90:HIS:HB3	3:CD:195:PRO:HB2	1.75	0.68
2:BJ:68:ALA:O	2:BJ:70:ASN:ND2	2.27	0.68
4:DN:96:PRO:O	4:DN:108:GLN:NE2	2.24	0.68
3:CS:154:ILE:HA	3:CS:157:MET:SD	2.33	0.68
2:BU:260:LEU:HD21	2:BU:293:ARG:HG3	1.75	0.68
3:CU:90:HIS:HB3	3:CU:195:PRO:HB2	1.75	0.68
3:CU:154:ILE:HA	3:CU:157:MET:SD	2.34	0.68
2:BV:240:VAL:O	2:BV:273:LYS:NZ	2.25	0.68
2:BV:260:LEU:HD21	2:BV:293:ARG:HG3	1.75	0.68
3:CW:90:HIS:HB3	3:CW:195:PRO:HB2	1.75	0.68
2:B4:295:PRO:HB2	2:B5:330:TYR:HB3	1.74	0.68
3:C6:199:VAL:HG23	3:C6:220:PRO:HA	1.74	0.68
3:C8:253:GLN:NE2	4:F9:126:ILE:O	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:38:SER:HB3	2:BC:97:ILE:HD11	1.74	0.68
3:CB:154:ILE:HA	3:CB:157:MET:SD	2.33	0.68
2:BF:260:LEU:HD21	2:BF:293:ARG:HG3	1.75	0.68
4:DM:96:PRO:O	4:DM:108:GLN:NE2	2.25	0.68
1:AN:547:VAL:HG23	2:BN:59:PHE:HZ	1.56	0.68
3:CQ:199:VAL:HG23	3:CQ:220:PRO:HA	1.75	0.68
3:CT:296:VAL:HB	4:FU:60:ILE:HD11	1.74	0.68
3:C9:199:VAL:HG23	3:C9:220:PRO:HA	1.75	0.68
4:FC:104:TYR:OH	4:FC:131:ARG:NH2	2.26	0.68
4:FD:104:TYR:OH	4:FD:131:ARG:NH2	2.26	0.68
4:EG:61:PRO:HA	4:FG:74:THR:HA	1.74	0.68
2:BH:113:MET:O	2:BH:141:GLN:NE2	2.20	0.68
3:CR:296:VAL:HB	4:FS:60:ILE:HD11	1.75	0.68
3:CT:300:PRO:HB2	3:CT:321:ILE:HG13	1.75	0.68
3:CX:71:ASN:HA	3:CX:74:ARG:HH21	1.59	0.68
3:C7:90:HIS:HB3	3:C7:195:PRO:HB2	1.76	0.68
2:BA:295:PRO:HB2	2:BB:330:TYR:HB3	1.73	0.68
3:CC:282:ASP:HB2	4:DC:122:ILE:HD12	1.76	0.68
3:CC:294:ALA:HB3	3:CC:302:LEU:HG	1.75	0.68
2:BR:201:GLU:HA	2:BR:204:ASN:HD22	1.58	0.68
2:BW:260:LEU:HD21	2:BW:293:ARG:HG3	1.74	0.68
3:CW:199:VAL:HG23	3:CW:220:PRO:HA	1.75	0.68
3:CY:199:VAL:HG23	3:CY:220:PRO:HA	1.75	0.68
2:B6:240:VAL:O	2:B6:273:LYS:NZ	2.27	0.68
4:E6:61:PRO:HA	4:F6:74:THR:HA	1.76	0.68
2:B9:37:LEU:O	2:B9:41:MET:HG3	1.94	0.68
2:BB:139:ARG:HD2	2:BC:202:ILE:HA	1.73	0.68
2:BG:9:LYS:HA	2:BG:12:ILE:HD12	1.76	0.68
3:CN:154:ILE:HA	3:CN:157:MET:SD	2.34	0.68
3:CR:90:HIS:HB3	3:CR:195:PRO:HB2	1.75	0.68
3:C1:199:VAL:HG23	3:C1:220:PRO:HA	1.74	0.68
3:C5:90:HIS:HB3	3:C5:195:PRO:HB2	1.76	0.68
3:CC:199:VAL:HG23	3:CC:220:PRO:HA	1.74	0.68
3:CE:90:HIS:HB3	3:CE:195:PRO:HB2	1.76	0.68
3:CE:199:VAL:HG23	3:CE:220:PRO:HA	1.75	0.68
2:BP:68:ALA:O	2:BP:70:ASN:ND2	2.27	0.68
3:CP:90:HIS:HB3	3:CP:195:PRO:HB2	1.75	0.68
4:DP:96:PRO:O	4:DP:108:GLN:NE2	2.25	0.68
3:CR:199:VAL:HG23	3:CR:220:PRO:HA	1.75	0.68
3:CU:296:VAL:HB	4:FV:60:ILE:HD11	1.76	0.68
2:BV:295:PRO:HB2	2:BW:330:TYR:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CW:299:VAL:HA	4:FW:132:MET:HE2	1.76	0.68
3:CX:199:VAL:HG23	3:CX:220:PRO:HA	1.75	0.68
3:C2:300:PRO:HB2	3:C2:321:ILE:HG13	1.76	0.68
2:B7:260:LEU:HD21	2:B7:293:ARG:HG3	1.76	0.68
2:BI:295:PRO:HB2	2:BJ:330:TYR:HB3	1.74	0.68
3:CL:71:ASN:HA	3:CL:74:ARG:HH21	1.59	0.68
3:CO:90:HIS:HB3	3:CO:195:PRO:HB2	1.75	0.68
2:BS:201:GLU:HA	2:BS:204:ASN:HD22	1.58	0.68
2:B1:260:LEU:HD21	2:B1:293:ARG:HG3	1.75	0.68
2:B3:240:VAL:O	2:B3:273:LYS:NZ	2.25	0.68
2:B5:113:MET:O	2:B5:141:GLN:NE2	2.22	0.68
3:C5:71:ASN:HA	3:C5:74:ARG:HH21	1.59	0.68
2:B6:263:LEU:HD22	2:B6:271:ARG:HG2	1.76	0.68
1:A8:547:VAL:HG23	2:B8:59:PHE:HZ	1.57	0.68
3:CA:154:ILE:HA	3:CA:157:MET:SD	2.34	0.68
3:CC:90:HIS:HB3	3:CC:195:PRO:HB2	1.76	0.68
2:BD:113:MET:O	2:BD:141:GLN:NE2	2.21	0.68
2:BE:201:GLU:HA	2:BE:204:ASN:HD22	1.59	0.68
2:BF:68:ALA:O	2:BF:70:ASN:ND2	2.27	0.68
3:CG:90:HIS:HB3	3:CG:195:PRO:HB2	1.75	0.68
3:CJ:199:VAL:HG23	3:CJ:220:PRO:HA	1.74	0.68
2:BN:263:LEU:HD22	2:BN:271:ARG:HG2	1.76	0.68
2:BO:260:LEU:HD21	2:BO:293:ARG:HG3	1.76	0.68
2:BP:197:ARG:HA	2:BP:232:GLU:HG2	1.75	0.68
2:BX:9:LYS:HA	2:BX:12:ILE:HD12	1.74	0.68
2:BY:9:LYS:HA	2:BY:12:ILE:HD12	1.76	0.68
2:BR:197:ARG:HA	2:BR:232:GLU:HG2	1.75	0.68
3:CT:90:HIS:HB3	3:CT:195:PRO:HB2	1.76	0.68
2:BU:197:ARG:HA	2:BU:232:GLU:HG2	1.74	0.68
2:BX:113:MET:O	2:BX:141:GLN:NE2	2.21	0.68
3:C1:90:HIS:HB3	3:C1:195:PRO:HB2	1.76	0.68
3:C9:90:HIS:HB3	3:C9:195:PRO:HB2	1.76	0.68
3:CA:90:HIS:HB3	3:CA:195:PRO:HB2	1.76	0.68
1:AB:547:VAL:HG23	2:BB:59:PHE:HZ	1.58	0.68
2:BI:263:LEU:HD22	2:BI:271:ARG:HG2	1.76	0.68
2:BN:158:MET:SD	2:BO:214:VAL:HG13	2.34	0.68
4:DO:96:PRO:O	4:DO:108:GLN:NE2	2.25	0.68
2:BP:113:MET:O	2:BP:141:GLN:NE2	2.22	0.68
3:CP:71:ASN:HA	3:CP:74:ARG:HH21	1.59	0.68
2:BQ:240:VAL:O	2:BQ:273:LYS:NZ	2.26	0.68
3:C1:71:ASN:HA	3:C1:74:ARG:HH21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:240:VAL:O	2:B7:273:LYS:NZ	2.26	0.67
3:C7:71:ASN:HA	3:C7:74:ARG:HH21	1.59	0.67
3:CA:199:VAL:HG23	3:CA:220:PRO:HA	1.76	0.67
2:BB:260:LEU:HD21	2:BB:293:ARG:HG3	1.75	0.67
3:CB:71:ASN:HA	3:CB:74:ARG:HH21	1.59	0.67
2:BI:240:VAL:O	2:BI:273:LYS:NZ	2.28	0.67
3:CI:282:ASP:HB2	4:DI:122:ILE:HD12	1.76	0.67
3:CJ:90:HIS:HB3	3:CJ:195:PRO:HB2	1.75	0.67
2:BS:139:ARG:NE	2:BT:201:GLU:O	2.25	0.67
3:CV:299:VAL:HG22	4:FV:132:MET:HE2	1.76	0.67
2:BW:240:VAL:O	2:BW:273:LYS:NZ	2.26	0.67
3:CW:71:ASN:HA	3:CW:74:ARG:HH21	1.59	0.67
2:BX:295:PRO:HB2	2:BY:330:TYR:HB3	1.76	0.67
3:CX:90:HIS:HB3	3:CX:195:PRO:HB2	1.76	0.67
3:CY:71:ASN:HA	3:CY:74:ARG:HH21	1.60	0.67
3:CY:90:HIS:HB3	3:CY:195:PRO:HB2	1.77	0.67
2:B3:260:LEU:HD21	2:B3:293:ARG:HG3	1.76	0.67
3:C4:71:ASN:HA	3:C4:74:ARG:HH21	1.59	0.67
3:CB:258:GLU:O	4:FC:102:ASN:ND2	2.27	0.67
3:CC:253:GLN:OE1	4:FD:131:ARG:NH2	2.26	0.67
3:CG:199:VAL:HG23	3:CG:220:PRO:HA	1.75	0.67
2:BJ:101:ARG:N	2:BJ:101:ARG:HD3	2.09	0.67
3:CK:71:ASN:HA	3:CK:74:ARG:HH21	1.59	0.67
4:EP:130:GLU:HA	4:EP:133:ARG:HE	1.59	0.67
3:CV:71:ASN:HA	3:CV:74:ARG:HH21	1.59	0.67
3:C2:199:VAL:HG23	3:C2:220:PRO:HA	1.75	0.67
2:B3:295:PRO:HB2	2:B4:330:TYR:HB3	1.76	0.67
1:A7:547:VAL:HG23	2:B7:59:PHE:HZ	1.57	0.67
2:BG:97:ILE:O	2:BG:100:THR:OG1	2.12	0.67
2:BH:260:LEU:HD21	2:BH:293:ARG:HG3	1.75	0.67
3:CH:199:VAL:HG23	3:CH:220:PRO:HA	1.75	0.67
3:CI:199:VAL:HG23	3:CI:220:PRO:HA	1.75	0.67
3:CL:90:HIS:HB3	3:CL:195:PRO:HB2	1.75	0.67
2:BP:240:VAL:O	2:BP:273:LYS:NZ	2.26	0.67
3:CR:71:ASN:HA	3:CR:74:ARG:HH21	1.60	0.67
2:BS:14:LEU:O	2:BT:76:TYR:OH	2.08	0.67
3:CS:71:ASN:HA	3:CS:74:ARG:HH21	1.59	0.67
2:BY:260:LEU:HD21	2:BY:293:ARG:HG3	1.75	0.67
3:C8:90:HIS:HB3	3:C8:195:PRO:HB2	1.77	0.67
2:BA:113:MET:O	2:BA:141:GLN:NE2	2.26	0.67
3:CD:154:ILE:HA	3:CD:157:MET:SD	2.34	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:154:ILE:HA	3:CJ:157:MET:SD	2.33	0.67
3:CL:297:ASP:OD2	4:EM:72:ARG:NH2	2.27	0.67
2:BM:260:LEU:HD21	2:BM:293:ARG:HG3	1.75	0.67
2:BN:97:ILE:O	2:BN:100:THR:OG1	2.13	0.67
2:BS:229:ILE:O	2:BS:233:MET:HG2	1.95	0.67
1:AT:551:ILE:HD11	2:BT:29:LEU:HD11	1.77	0.67
2:BT:9:LYS:HA	2:BT:12:ILE:HD12	1.76	0.67
2:BT:260:LEU:HD21	2:BT:293:ARG:HG3	1.75	0.67
2:B4:197:ARG:HA	2:B4:232:GLU:HG2	1.76	0.67
3:C4:296:VAL:HB	4:F5:60:ILE:HD11	1.77	0.67
3:C6:71:ASN:HA	3:C6:74:ARG:HH21	1.59	0.67
3:C7:255:GLN:HB3	4:D7:76:LYS:HG3	1.74	0.67
3:CG:71:ASN:HA	3:CG:74:ARG:HH21	1.59	0.67
2:BO:127:PRO:HA	2:BO:130:ILE:HD12	1.77	0.67
2:BO:295:PRO:HB2	2:BP:330:TYR:HB3	1.75	0.67
3:CQ:90:HIS:HB3	3:CQ:195:PRO:HB2	1.76	0.67
3:C1:296:VAL:HB	4:F2:60:ILE:HD11	1.77	0.67
3:C6:154:ILE:HA	3:C6:157:MET:SD	2.34	0.67
3:C7:282:ASP:HB2	4:D7:122:ILE:HD12	1.77	0.67
4:F7:104:TYR:OH	4:F7:131:ARG:NH2	2.28	0.67
3:CA:299:VAL:HG22	4:FA:132:MET:HE2	1.75	0.67
2:BD:139:ARG:HD2	2:BE:202:ILE:HA	1.75	0.67
2:BG:260:LEU:HD21	2:BG:293:ARG:HG3	1.76	0.67
3:CJ:71:ASN:HA	3:CJ:74:ARG:HH21	1.59	0.67
2:BR:68:ALA:O	2:BR:70:ASN:ND2	2.27	0.67
3:CV:90:HIS:HB3	3:CV:195:PRO:HB2	1.77	0.67
3:CA:297:ASP:OD2	4:EB:72:ARG:NH2	2.28	0.67
2:BK:197:ARG:HA	2:BK:232:GLU:HG2	1.77	0.67
3:CK:296:VAL:HB	4:FL:60:ILE:HD11	1.75	0.67
3:CL:299:VAL:HG22	4:FL:132:MET:HE2	1.76	0.67
3:CP:253:GLN:NE2	4:FQ:126:ILE:O	2.28	0.67
2:BS:260:LEU:HD21	2:BS:293:ARG:HG3	1.74	0.67
3:CT:71:ASN:HA	3:CT:74:ARG:HH21	1.59	0.67
2:B1:201:GLU:HA	2:B1:204:ASN:HD22	1.58	0.67
2:B4:240:VAL:O	2:B4:273:LYS:NZ	2.27	0.67
3:C5:282:ASP:HB2	4:D5:122:ILE:HD12	1.77	0.67
2:B7:263:LEU:HD22	2:B7:271:ARG:HG2	1.77	0.67
3:CN:90:HIS:HB3	3:CN:195:PRO:HB2	1.76	0.67
2:BO:97:ILE:O	2:BO:100:THR:OG1	2.13	0.67
3:CQ:282:ASP:HB2	4:DQ:122:ILE:HD12	1.77	0.67
2:BS:42:ALA:HB2	2:BT:97:ILE:HG23	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:263:LEU:HD22	2:B8:271:ARG:HG2	1.77	0.67
2:BC:263:LEU:HD22	2:BC:271:ARG:HG2	1.77	0.67
2:BD:97:ILE:O	2:BD:100:THR:OG1	2.12	0.67
2:BJ:295:PRO:HB2	2:BK:330:TYR:HB3	1.76	0.67
2:BL:113:MET:O	2:BL:141:GLN:NE2	2.20	0.67
3:CM:90:HIS:HB3	3:CM:195:PRO:HB2	1.76	0.67
3:CS:296:VAL:HB	4:FT:60:ILE:HD11	1.76	0.67
2:B1:9:LYS:HA	2:B1:12:ILE:HD12	1.77	0.67
2:B5:260:LEU:HD21	2:B5:293:ARG:HG3	1.75	0.67
3:C9:296:VAL:HB	4:FA:60:ILE:HD11	1.76	0.67
3:CA:71:ASN:HA	3:CA:74:ARG:HH21	1.60	0.67
3:CF:90:HIS:HB3	3:CF:195:PRO:HB2	1.77	0.67
3:CI:90:HIS:HB3	3:CI:195:PRO:HB2	1.76	0.67
3:CO:71:ASN:HA	3:CO:74:ARG:HH21	1.59	0.67
3:CO:282:ASP:HB2	4:DO:122:ILE:HD12	1.77	0.67
2:BP:263:LEU:HD22	2:BP:271:ARG:HG2	1.77	0.67
3:CQ:71:ASN:HA	3:CQ:74:ARG:HH21	1.60	0.67
3:CU:255:GLN:HB3	4:DU:76:LYS:HG3	1.76	0.67
1:AV:547:VAL:HG23	2:BV:59:PHE:HZ	1.60	0.67
2:B5:139:ARG:HH12	2:B6:198:THR:HG23	1.60	0.66
2:B8:201:GLU:HA	2:B8:204:ASN:HD22	1.59	0.66
3:CD:258:GLU:O	4:FE:102:ASN:ND2	2.28	0.66
2:BE:68:ALA:O	2:BE:70:ASN:ND2	2.28	0.66
2:BG:298:LEU:HD11	2:BH:329:THR:HB	1.77	0.66
3:CK:90:HIS:HB3	3:CK:195:PRO:HB2	1.77	0.66
2:BO:240:VAL:O	2:BO:273:LYS:NZ	2.27	0.66
2:BS:68:ALA:O	2:BS:70:ASN:ND2	2.27	0.66
2:BX:260:LEU:HD21	2:BX:293:ARG:HG3	1.75	0.66
2:B8:240:VAL:O	2:B8:273:LYS:NZ	2.27	0.66
2:BA:207:LYS:HE3	2:BA:209:GLN:H	1.60	0.66
3:CE:253:GLN:OE1	4:FF:131:ARG:NH2	2.28	0.66
4:DU:105:LEU:HB3	4:DU:126:ILE:HG21	1.77	0.66
2:B2:263:LEU:HD22	2:B2:271:ARG:HG2	1.77	0.66
2:B3:263:LEU:HD22	2:B3:271:ARG:HG2	1.77	0.66
2:BB:263:LEU:HD22	2:BB:271:ARG:HG2	1.77	0.66
4:ED:61:PRO:HA	4:FD:74:THR:HA	1.77	0.66
2:BF:9:LYS:HA	2:BF:12:ILE:HD12	1.77	0.66
4:EF:97:LEU:N	4:EF:109:GLY:O	2.29	0.66
1:AG:547:VAL:HG23	2:BG:59:PHE:HZ	1.60	0.66
2:BH:197:ARG:HA	2:BH:232:GLU:HG2	1.77	0.66
2:BK:68:ALA:O	2:BK:70:ASN:ND2	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:71:ASN:HA	3:CM:74:ARG:HH21	1.59	0.66
2:BQ:263:LEU:HD22	2:BQ:271:ARG:HG2	1.76	0.66
3:C2:296:VAL:HB	4:F3:60:ILE:HD11	1.77	0.66
2:B8:9:LYS:HA	2:B8:12:ILE:HD12	1.76	0.66
3:C8:71:ASN:HA	3:C8:74:ARG:HH21	1.59	0.66
2:BB:97:ILE:O	2:BB:100:THR:OG1	2.12	0.66
2:BE:263:LEU:HD22	2:BE:271:ARG:HG2	1.77	0.66
2:BJ:207:LYS:HE3	2:BJ:209:GLN:H	1.61	0.66
2:BJ:263:LEU:HD22	2:BJ:271:ARG:HG2	1.78	0.66
3:CN:71:ASN:HA	3:CN:74:ARG:HH21	1.59	0.66
2:BQ:113:MET:O	2:BQ:141:GLN:NE2	2.21	0.66
2:BT:46:GLN:NE2	2:BU:68:ALA:H	1.94	0.66
2:BU:97:ILE:O	2:BU:100:THR:OG1	2.13	0.66
2:BW:197:ARG:HA	2:BW:232:GLU:HG2	1.76	0.66
3:C6:282:ASP:HB2	4:D6:122:ILE:HD12	1.78	0.66
1:A9:547:VAL:HG23	2:B9:59:PHE:HZ	1.59	0.66
2:BC:295:PRO:HB2	2:BD:330:TYR:HB3	1.76	0.66
1:AE:547:VAL:HG23	2:BE:59:PHE:HZ	1.59	0.66
1:AF:547:VAL:HG23	2:BF:59:PHE:HZ	1.59	0.66
4:FG:104:TYR:OH	4:FG:131:ARG:NH2	2.28	0.66
2:BN:295:PRO:HB2	2:BO:330:TYR:HB3	1.76	0.66
1:AQ:547:VAL:HG23	2:BQ:59:PHE:HZ	1.61	0.66
2:BY:113:MET:O	2:BY:141:GLN:NE2	2.23	0.66
3:C3:282:ASP:HB2	4:D3:122:ILE:HD12	1.78	0.66
2:B8:295:PRO:HB2	2:B9:330:TYR:HB3	1.76	0.66
2:BA:263:LEU:HD22	2:BA:271:ARG:HG2	1.76	0.66
2:BD:263:LEU:HD22	2:BD:271:ARG:HG2	1.78	0.66
3:CK:199:VAL:HG23	3:CK:220:PRO:HA	1.76	0.66
2:BM:113:MET:O	2:BM:141:GLN:NE2	2.21	0.66
3:CM:282:ASP:HB2	4:DM:122:ILE:HD12	1.78	0.66
2:BN:46:GLN:NE2	2:BN:47:ILE:O	2.29	0.66
2:BO:263:LEU:HD22	2:BO:271:ARG:HG2	1.77	0.66
2:BR:260:LEU:HD21	2:BR:293:ARG:HG3	1.77	0.66
2:BU:127:PRO:HA	2:BU:130:ILE:HD12	1.78	0.66
3:C2:282:ASP:HB2	4:D2:122:ILE:HD12	1.78	0.66
3:C3:71:ASN:HA	3:C3:74:ARG:HH21	1.59	0.66
3:C9:300:PRO:HB2	3:C9:321:ILE:HG13	1.78	0.66
3:CB:199:VAL:HG23	3:CB:220:PRO:HA	1.77	0.66
2:BC:207:LYS:HE3	2:BC:209:GLN:H	1.61	0.66
2:BE:46:GLN:NE2	2:BF:68:ALA:O	2.28	0.66
2:BE:127:PRO:HA	2:BE:130:ILE:HD12	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CE:71:ASN:HA	3:CE:74:ARG:HH21	1.60	0.66
2:BF:295:PRO:HB2	2:BG:330:TYR:HB3	1.76	0.66
2:BN:201:GLU:HA	2:BN:204:ASN:HD22	1.61	0.66
3:CR:300:PRO:HB2	3:CR:321:ILE:HG13	1.77	0.66
2:BT:298:LEU:HD11	2:BU:329:THR:HB	1.76	0.66
2:B1:97:ILE:O	2:B1:100:THR:OG1	2.12	0.66
3:C2:71:ASN:HA	3:C2:74:ARG:HH21	1.60	0.66
2:B4:263:LEU:HD22	2:B4:271:ARG:HG2	1.77	0.66
2:B5:203:ILE:HG12	2:B5:214:VAL:HG11	1.78	0.66
3:C5:199:VAL:HG23	3:C5:220:PRO:HA	1.77	0.66
3:CC:299:VAL:HG22	4:FC:132:MET:HE2	1.76	0.66
3:CF:71:ASN:HA	3:CF:74:ARG:HH21	1.60	0.66
3:CF:282:ASP:HB2	4:DF:122:ILE:HD12	1.77	0.66
2:BO:197:ARG:HA	2:BO:232:GLU:HG2	1.75	0.66
4:EX:97:LEU:N	4:EX:109:GLY:O	2.29	0.66
2:B1:263:LEU:HD22	2:B1:271:ARG:HG2	1.78	0.66
2:B3:122:ILE:HG22	2:B3:130:ILE:HG12	1.78	0.66
2:BB:295:PRO:HB2	2:BC:330:TYR:HB3	1.76	0.66
3:CF:253:GLN:OE1	4:FG:131:ARG:NH2	2.28	0.66
2:BJ:197:ARG:HA	2:BJ:232:GLU:HG2	1.78	0.66
3:CU:71:ASN:HA	3:CU:74:ARG:HH21	1.60	0.66
3:C3:199:VAL:HG23	3:C3:220:PRO:HA	1.76	0.66
3:CI:71:ASN:HA	3:CI:74:ARG:HH21	1.60	0.66
3:CO:199:VAL:HG23	3:CO:220:PRO:HA	1.77	0.66
1:AU:551:ILE:HD11	2:BU:29:LEU:HD11	1.78	0.66
1:AW:551:ILE:HD11	2:BW:29:LEU:HD11	1.78	0.66
2:BX:201:GLU:HA	2:BX:204:ASN:HD22	1.60	0.66
3:CX:296:VAL:HB	4:FY:60:ILE:HD11	1.78	0.66
4:EY:97:LEU:N	4:EY:109:GLY:O	2.29	0.66
2:B1:46:GLN:NE2	2:B2:68:ALA:O	2.28	0.65
2:B1:139:ARG:NE	2:B2:201:GLU:OE1	2.24	0.65
4:E4:97:LEU:N	4:E4:109:GLY:O	2.29	0.65
2:B5:295:PRO:HB2	2:B6:330:TYR:HB3	1.77	0.65
4:E6:97:LEU:N	4:E6:109:GLY:O	2.29	0.65
3:CD:199:VAL:HG23	3:CD:220:PRO:HA	1.76	0.65
4:EH:97:LEU:N	4:EH:109:GLY:O	2.28	0.65
2:BO:9:LYS:HA	2:BO:12:ILE:HD12	1.77	0.65
3:CP:273:SER:OG	4:DP:58:MET:O	2.11	0.65
3:CP:282:ASP:HB2	4:DP:122:ILE:HD12	1.78	0.65
3:CX:253:GLN:NE2	4:FY:126:ILE:O	2.29	0.65
1:A6:551:ILE:HD11	2:B6:29:LEU:HD11	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:207:LYS:HE3	2:B7:209:GLN:H	1.61	0.65
3:CC:71:ASN:HA	3:CC:74:ARG:HH21	1.60	0.65
3:CR:282:ASP:HB2	4:DR:122:ILE:HD12	1.78	0.65
3:CW:296:VAL:HB	4:FX:60:ILE:HD11	1.78	0.65
2:BX:207:LYS:HE3	2:BX:209:GLN:H	1.60	0.65
4:E7:97:LEU:N	4:E7:109:GLY:O	2.29	0.65
3:CC:258:GLU:O	4:FD:102:ASN:ND2	2.28	0.65
2:BD:197:ARG:HA	2:BD:232:GLU:HG2	1.76	0.65
3:CH:71:ASN:HA	3:CH:74:ARG:HH21	1.60	0.65
2:BL:263:LEU:HD22	2:BL:271:ARG:HG2	1.77	0.65
3:CO:300:PRO:HB2	3:CO:321:ILE:HG13	1.78	0.65
3:CP:199:VAL:HG23	3:CP:220:PRO:HA	1.78	0.65
3:CU:282:ASP:HB2	4:DU:122:ILE:HD12	1.79	0.65
3:C9:282:ASP:HB2	4:D9:122:ILE:HD12	1.78	0.65
3:CB:282:ASP:HB2	4:DB:122:ILE:HD12	1.78	0.65
2:BD:295:PRO:HB2	2:BE:330:TYR:HB3	1.77	0.65
3:CD:71:ASN:HA	3:CD:74:ARG:HH21	1.59	0.65
2:BF:207:LYS:HE3	2:BF:209:GLN:H	1.62	0.65
2:BL:46:GLN:OE1	1:AM:549:LEU:HD11	1.96	0.65
2:BQ:4:LEU:HD11	2:BQ:47:ILE:HD11	1.78	0.65
3:CX:273:SER:OG	4:DX:58:MET:O	2.12	0.65
2:B1:295:PRO:HB2	2:B2:330:TYR:HB3	1.77	0.65
3:C2:258:GLU:O	4:F3:102:ASN:ND2	2.29	0.65
4:E2:97:LEU:N	4:E2:109:GLY:O	2.29	0.65
2:B3:201:GLU:HA	2:B3:204:ASN:HD22	1.61	0.65
2:B5:263:LEU:HD22	2:B5:271:ARG:HG2	1.79	0.65
3:C6:296:VAL:HB	4:F7:60:ILE:HD11	1.78	0.65
2:B7:295:PRO:HB2	2:B8:330:TYR:HB3	1.76	0.65
4:E8:97:LEU:N	4:E8:109:GLY:O	2.29	0.65
3:C9:71:ASN:HA	3:C9:74:ARG:HH21	1.60	0.65
2:BE:42:ALA:HB3	2:BF:101:ARG:HH21	1.61	0.65
2:BG:113:MET:O	2:BG:141:GLN:NE2	2.20	0.65
2:BH:263:LEU:HD22	2:BH:271:ARG:HG2	1.79	0.65
2:BH:295:PRO:HB2	2:BI:330:TYR:HB3	1.77	0.65
3:CI:300:PRO:HB2	3:CI:321:ILE:HG13	1.78	0.65
3:CK:273:SER:OG	4:DK:58:MET:O	2.11	0.65
2:BM:97:ILE:O	2:BM:100:THR:OG1	2.15	0.65
3:CS:255:GLN:HB3	4:DS:76:LYS:HG3	1.79	0.65
2:BT:207:LYS:HE3	2:BT:209:GLN:H	1.61	0.65
3:CX:282:ASP:HB2	4:DX:122:ILE:HD12	1.79	0.65
4:E3:97:LEU:N	4:E3:109:GLY:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:199:VAL:HG23	3:C4:220:PRO:HA	1.78	0.65
3:C4:282:ASP:HB2	4:D4:122:ILE:HD12	1.79	0.65
4:E5:97:LEU:N	4:E5:109:GLY:O	2.29	0.65
3:C7:249:ASN:HB3	4:F8:125:ILE:HD13	1.78	0.65
2:BA:68:ALA:O	2:BA:70:ASN:ND2	2.30	0.65
3:CA:282:ASP:HB2	4:DA:122:ILE:HD12	1.79	0.65
3:CN:282:ASP:HB2	4:DN:122:ILE:HD12	1.79	0.65
2:B9:295:PRO:HB2	2:BA:330:TYR:HB3	1.77	0.65
1:AJ:551:ILE:HD11	2:BJ:29:LEU:HD11	1.77	0.65
2:BJ:143:ALA:HB1	2:BK:206:MET:HG3	1.79	0.65
2:BL:295:PRO:HB2	2:BM:330:TYR:HB3	1.77	0.65
3:CS:282:ASP:HB2	4:DS:122:ILE:HD12	1.79	0.65
2:BX:46:GLN:OE1	1:AY:549:LEU:HD11	1.95	0.65
2:BY:263:LEU:HD22	2:BY:271:ARG:HG2	1.79	0.65
4:F1:126:ILE:O	3:CY:253:GLN:NE2	2.30	0.65
2:B4:139:ARG:HD2	2:B5:202:ILE:HA	1.77	0.65
2:B5:46:GLN:OE1	1:A6:549:LEU:HD11	1.97	0.65
3:CJ:282:ASP:HB2	4:DJ:122:ILE:HD12	1.79	0.65
2:BL:68:ALA:O	2:BL:70:ASN:ND2	2.29	0.65
2:BL:127:PRO:HA	2:BL:130:ILE:HD12	1.79	0.65
3:CL:199:VAL:HG23	3:CL:220:PRO:HA	1.78	0.65
3:CN:258:GLU:O	4:FO:102:ASN:ND2	2.28	0.65
3:CT:299:VAL:HA	4:FT:132:MET:HE2	1.78	0.65
2:BY:197:ARG:HA	2:BY:232:GLU:HG2	1.77	0.65
3:C3:296:VAL:HB	4:F4:60:ILE:HD11	1.78	0.65
3:C5:296:VAL:HB	4:F6:60:ILE:HD11	1.78	0.65
2:BB:207:LYS:HE3	2:BB:209:GLN:H	1.62	0.65
4:EE:97:LEU:N	4:EE:109:GLY:O	2.29	0.65
3:CH:90:HIS:HB3	3:CH:195:PRO:HB2	1.78	0.65
3:CI:296:VAL:HB	4:FJ:60:ILE:HD11	1.78	0.65
4:DL:105:LEU:HB3	4:DL:126:ILE:HG21	1.78	0.65
2:BM:263:LEU:HD22	2:BM:271:ARG:HG2	1.78	0.65
2:BN:46:GLN:NE2	2:BO:68:ALA:O	2.30	0.65
2:BT:68:ALA:O	2:BT:70:ASN:ND2	2.30	0.65
3:C1:282:ASP:HB2	4:D1:122:ILE:HD12	1.79	0.65
2:B5:139:ARG:HD2	2:B6:202:ILE:HA	1.77	0.65
3:CG:205:HIS:NE2	3:CG:212:THR:OG1	2.30	0.65
3:CI:205:HIS:NE2	3:CI:212:THR:OG1	2.30	0.65
2:BK:122:ILE:HG22	2:BK:130:ILE:HG12	1.78	0.65
4:EM:97:LEU:N	4:EM:109:GLY:O	2.29	0.65
3:CQ:205:HIS:NE2	3:CQ:212:THR:OG1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:253:GLN:NE2	4:FU:126:ILE:O	2.29	0.65
2:BU:263:LEU:HD22	2:BU:271:ARG:HG2	1.78	0.65
3:CV:253:GLN:NE2	4:FW:126:ILE:O	2.30	0.65
2:BW:122:ILE:HG22	2:BW:130:ILE:HG12	1.79	0.65
3:CW:238:ASN:HD22	3:CX:112:GLY:HA2	1.62	0.65
3:C1:258:GLU:O	4:F2:102:ASN:ND2	2.29	0.64
3:C2:205:HIS:NE2	3:C2:212:THR:OG1	2.30	0.64
2:B4:46:GLN:NE2	2:B4:47:ILE:O	2.29	0.64
2:BC:46:GLN:NE2	2:BC:47:ILE:O	2.30	0.64
3:CE:205:HIS:NE2	3:CE:212:THR:OG1	2.31	0.64
2:BF:263:LEU:HD22	2:BF:271:ARG:HG2	1.78	0.64
2:BG:139:ARG:HD2	2:BH:202:ILE:HA	1.78	0.64
2:BK:46:GLN:NE2	2:BL:68:ALA:O	2.26	0.64
3:CK:282:ASP:HB2	4:DK:122:ILE:HD12	1.79	0.64
4:EN:97:LEU:N	4:EN:109:GLY:O	2.29	0.64
3:CO:205:HIS:NE2	3:CO:212:THR:OG1	2.30	0.64
4:FP:127:THR:HG23	4:FP:130:GLU:H	1.61	0.64
3:CW:253:GLN:NE2	4:FX:126:ILE:O	2.30	0.64
2:B4:42:ALA:O	2:B5:101:ARG:NH2	2.29	0.64
2:B5:229:ILE:O	2:B5:233:MET:HG2	1.97	0.64
2:B7:297:ARG:NH2	2:B8:243:ASP:OD2	2.30	0.64
2:B8:197:ARG:HA	2:B8:232:GLU:HG2	1.78	0.64
2:B9:263:LEU:HD22	2:B9:271:ARG:HG2	1.78	0.64
3:CA:253:GLN:NE2	4:FB:126:ILE:O	2.30	0.64
4:EI:75:ILE:HA	4:EI:78:LEU:HD12	1.79	0.64
4:EP:97:LEU:N	4:EP:109:GLY:O	2.29	0.64
3:CS:205:HIS:NE2	3:CS:212:THR:OG1	2.30	0.64
3:CU:299:VAL:HG22	4:FU:132:MET:HE2	1.79	0.64
3:C4:253:GLN:NE2	4:F5:126:ILE:O	2.30	0.64
4:E6:107:ALA:HB2	4:E6:125:ILE:HD12	1.79	0.64
2:B7:127:PRO:HA	2:B7:130:ILE:HD12	1.80	0.64
2:BB:127:PRO:HA	2:BB:130:ILE:HD12	1.80	0.64
3:CC:205:HIS:NE2	3:CC:212:THR:OG1	2.31	0.64
3:CH:282:ASP:HB2	4:DH:122:ILE:HD12	1.79	0.64
2:BI:113:MET:O	2:BI:141:GLN:NE2	2.27	0.64
3:CM:205:HIS:NE2	3:CM:212:THR:OG1	2.31	0.64
4:DO:105:LEU:HB3	4:DO:126:ILE:HG21	1.79	0.64
3:CR:253:GLN:NE2	4:FS:126:ILE:O	2.30	0.64
3:CS:253:GLN:NE2	4:FT:126:ILE:O	2.30	0.64
1:A2:551:ILE:HD11	2:B2:29:LEU:HD11	1.79	0.64
4:EG:97:LEU:N	4:EG:109:GLY:O	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:97:ILE:O	2:BI:100:THR:OG1	2.13	0.64
2:BI:297:ARG:NH2	2:BJ:243:ASP:OD2	2.31	0.64
2:BK:263:LEU:HD22	2:BK:271:ARG:HG2	1.79	0.64
3:CK:205:HIS:NE2	3:CK:212:THR:OG1	2.31	0.64
3:CN:255:GLN:HB3	4:DN:76:LYS:HG3	1.79	0.64
2:BP:127:PRO:HA	2:BP:130:ILE:HD12	1.80	0.64
2:BR:298:LEU:HD11	2:BS:329:THR:HB	1.79	0.64
2:BS:263:LEU:HD22	2:BS:271:ARG:HG2	1.78	0.64
3:C1:253:GLN:OE1	4:F2:131:ARG:NH2	2.31	0.64
2:B2:201:GLU:HA	2:B2:204:ASN:HD22	1.62	0.64
3:CA:205:HIS:NE2	3:CA:212:THR:OG1	2.31	0.64
2:BE:229:ILE:O	2:BE:233:MET:HG2	1.98	0.64
3:CH:296:VAL:HB	4:FI:60:ILE:HD11	1.78	0.64
2:BJ:127:PRO:HA	2:BJ:130:ILE:HD12	1.79	0.64
4:EK:97:LEU:N	4:EK:109:GLY:O	2.30	0.64
2:BL:97:ILE:O	2:BL:100:THR:OG1	2.13	0.64
2:BN:207:LYS:HE3	2:BN:209:GLN:H	1.63	0.64
3:CO:255:GLN:HB3	4:DO:76:LYS:HG3	1.78	0.64
2:BT:263:LEU:HD22	2:BT:271:ARG:HG2	1.79	0.64
3:CU:205:HIS:NE2	3:CU:212:THR:OG1	2.31	0.64
2:BX:263:LEU:HD22	2:BX:271:ARG:HG2	1.78	0.64
2:BY:201:GLU:HA	2:BY:204:ASN:HD22	1.63	0.64
2:B1:229:ILE:O	2:B1:233:MET:HG2	1.98	0.64
2:B2:297:ARG:NH2	2:B3:243:ASP:OD2	2.31	0.64
4:EC:97:LEU:N	4:EC:109:GLY:O	2.29	0.64
4:FG:90:ASP:OD2	4:FG:137:ARG:NE	2.29	0.64
1:AM:551:ILE:HD11	2:BM:29:LEU:HD11	1.80	0.64
4:EO:97:LEU:N	4:EO:109:GLY:O	2.29	0.64
3:C5:205:HIS:NE2	3:C5:212:THR:OG1	2.31	0.64
3:C8:205:HIS:NE2	3:C8:212:THR:OG1	2.30	0.64
2:BG:207:LYS:HE3	2:BG:209:GLN:H	1.63	0.64
4:EJ:121:ARG:HH12	4:FJ:86:VAL:HA	1.62	0.64
3:CL:205:HIS:NE2	3:CL:212:THR:OG1	2.30	0.64
4:EQ:97:LEU:N	4:EQ:109:GLY:O	2.29	0.64
2:BS:122:ILE:HG22	2:BS:130:ILE:HG12	1.79	0.64
4:FT:132:MET:SD	4:FT:135:LEU:HB3	2.37	0.64
3:CW:205:HIS:NE2	3:CW:212:THR:OG1	2.30	0.64
3:CW:273:SER:OG	4:DW:58:MET:O	2.11	0.64
3:CX:255:GLN:HB3	4:DX:76:LYS:HG3	1.80	0.64
3:CY:205:HIS:NE2	3:CY:212:THR:OG1	2.30	0.64
3:C1:253:GLN:NE2	4:F2:126:ILE:O	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:547:VAL:HG23	2:B4:59:PHE:HZ	1.60	0.64
3:C8:282:ASP:HB2	4:D8:122:ILE:HD12	1.80	0.64
3:C8:296:VAL:HB	4:F9:60:ILE:HD11	1.77	0.64
2:B9:207:LYS:HE3	2:B9:209:GLN:H	1.62	0.64
4:E9:107:ALA:HB2	4:E9:125:ILE:HD12	1.80	0.64
3:CB:205:HIS:NE2	3:CB:212:THR:OG1	2.30	0.64
4:ED:97:LEU:N	4:ED:109:GLY:O	2.30	0.64
2:BH:97:ILE:O	2:BH:100:THR:OG1	2.13	0.64
3:CH:205:HIS:NE2	3:CH:212:THR:OG1	2.30	0.64
3:CJ:205:HIS:NE2	3:CJ:212:THR:OG1	2.30	0.64
4:EL:97:LEU:N	4:EL:109:GLY:O	2.30	0.64
3:CM:255:GLN:HB3	4:DM:76:LYS:HG3	1.79	0.64
4:FN:126:ILE:HD11	4:FN:131:ARG:HH21	1.61	0.64
1:AP:534:GLN:HG3	1:AP:537:ARG:HH21	1.63	0.64
2:B1:329:THR:HB	2:BY:298:LEU:HD11	1.80	0.64
4:E1:97:LEU:N	4:E1:109:GLY:O	2.31	0.64
2:B5:298:LEU:HD11	2:B6:329:THR:HB	1.80	0.64
2:B9:9:LYS:HA	2:B9:12:ILE:HD12	1.79	0.64
2:BA:46:GLN:HG3	2:BB:70:ASN:HD22	1.63	0.64
2:BE:207:LYS:HE3	2:BE:209:GLN:H	1.62	0.64
2:BH:122:ILE:HG22	2:BH:130:ILE:HG12	1.80	0.64
3:CN:205:HIS:NE2	3:CN:212:THR:OG1	2.31	0.64
3:CP:205:HIS:NE2	3:CP:212:THR:OG1	2.31	0.64
2:BQ:46:GLN:NE2	2:BR:68:ALA:O	2.30	0.64
3:CR:255:GLN:HB3	4:DR:76:LYS:HG3	1.80	0.64
2:BS:132:THR:O	2:BS:136:HIS:ND1	2.30	0.64
2:BV:263:LEU:HD22	2:BV:271:ARG:HG2	1.79	0.64
3:CY:294:ALA:HB3	3:CY:302:LEU:HG	1.80	0.64
1:A1:551:ILE:HD11	2:B1:29:LEU:HD11	1.80	0.64
2:B1:207:LYS:HE3	2:B1:209:GLN:H	1.63	0.64
3:C1:300:PRO:HB2	3:C1:321:ILE:HG13	1.80	0.64
4:E1:107:ALA:HB2	4:E1:125:ILE:HD12	1.80	0.64
2:B3:46:GLN:NE2	2:B4:68:ALA:O	2.26	0.64
3:C5:299:VAL:HG22	4:F5:132:MET:HE2	1.80	0.64
2:B6:46:GLN:NE2	2:B6:47:ILE:O	2.30	0.64
3:C7:205:HIS:NE2	3:C7:212:THR:OG1	2.31	0.64
3:CB:294:ALA:HB3	3:CB:302:LEU:HG	1.80	0.64
4:EB:97:LEU:N	4:EB:109:GLY:O	2.29	0.64
3:CD:205:HIS:NE2	3:CD:212:THR:OG1	2.30	0.64
2:BE:14:LEU:HD13	2:BE:17:ILE:HD11	1.79	0.64
3:CH:273:SER:OG	4:DH:58:MET:O	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:46:GLN:NE2	2:BJ:68:ALA:H	1.96	0.64
1:AL:551:ILE:HD11	2:BL:29:LEU:HD11	1.80	0.64
2:BL:207:LYS:HE3	2:BL:209:GLN:H	1.63	0.64
3:CL:258:GLU:O	4:FM:102:ASN:ND2	2.29	0.64
2:BM:297:ARG:NH2	2:BN:243:ASP:OD2	2.31	0.64
3:CM:297:ASP:OD2	4:EN:72:ARG:NH2	2.30	0.64
2:BO:207:LYS:HE3	2:BO:209:GLN:H	1.63	0.64
2:BP:201:GLU:HA	2:BP:204:ASN:HD22	1.62	0.64
3:CQ:299:VAL:HG22	4:FQ:132:MET:HE2	1.78	0.64
3:CR:205:HIS:NE2	3:CR:212:THR:OG1	2.31	0.64
4:ER:97:LEU:N	4:ER:109:GLY:O	2.29	0.64
2:BS:139:ARG:HE	2:BT:202:ILE:HA	1.61	0.64
3:CV:205:HIS:NE2	3:CV:212:THR:OG1	2.31	0.64
3:CV:282:ASP:HB2	4:DV:122:ILE:HD12	1.80	0.64
4:DY:128:PRO:HA	4:DY:131:ARG:HG3	1.80	0.64
3:C2:255:GLN:HB3	4:D2:76:LYS:HG3	1.80	0.63
3:C7:258:GLU:O	4:F8:102:ASN:ND2	2.31	0.63
3:C9:205:HIS:NE2	3:C9:212:THR:OG1	2.30	0.63
3:CD:282:ASP:HB2	4:DD:122:ILE:HD12	1.80	0.63
4:FF:90:ASP:OD2	4:FF:137:ARG:NE	2.29	0.63
2:BH:46:GLN:NE2	2:BH:47:ILE:O	2.31	0.63
3:CK:255:GLN:HB3	4:DK:76:LYS:HG3	1.80	0.63
2:BT:14:LEU:O	2:BU:76:TYR:OH	2.08	0.63
2:BT:122:ILE:HG22	2:BT:130:ILE:HG12	1.78	0.63
3:CV:255:GLN:HB3	4:DV:76:LYS:HG3	1.80	0.63
2:BX:297:ARG:NH2	2:BY:243:ASP:OD2	2.32	0.63
2:BX:298:LEU:HD11	2:BY:329:THR:HB	1.80	0.63
4:EX:107:ALA:HB2	4:EX:125:ILE:HD12	1.80	0.63
2:B2:197:ARG:HA	2:B2:232:GLU:HG2	1.78	0.63
3:C2:253:GLN:NE2	4:F3:126:ILE:O	2.32	0.63
2:B3:229:ILE:O	2:B3:233:MET:HG2	1.98	0.63
3:C3:258:GLU:O	4:F4:102:ASN:ND2	2.31	0.63
2:B4:298:LEU:HD11	2:B5:329:THR:HB	1.80	0.63
4:FE:104:TYR:OH	4:FE:131:ARG:NH1	2.31	0.63
3:CF:205:HIS:NE2	3:CF:212:THR:OG1	2.30	0.63
2:BG:197:ARG:HA	2:BG:232:GLU:HG2	1.79	0.63
4:EI:68:LEU:HB3	4:FI:66:VAL:HG13	1.80	0.63
2:BJ:122:ILE:HG22	2:BJ:130:ILE:HG12	1.80	0.63
3:CN:253:GLN:NE2	4:FO:126:ILE:O	2.31	0.63
4:EP:73:MET:SD	4:EP:77:GLU:HG2	2.38	0.63
2:BS:298:LEU:HD11	2:BT:329:THR:HB	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ET:97:LEU:N	4:ET:109:GLY:O	2.29	0.63
3:CW:282:ASP:HB2	4:DW:122:ILE:HD12	1.80	0.63
3:C1:205:HIS:NE2	3:C1:212:THR:OG1	2.30	0.63
1:A3:547:VAL:HG23	2:B3:59:PHE:HZ	1.61	0.63
3:C3:205:HIS:NE2	3:C3:212:THR:OG1	2.31	0.63
3:CA:56:ILE:HD11	3:CB:188:PHE:HD1	1.64	0.63
4:FD:70:ARG:NH1	4:FD:98:ASP:OD2	2.31	0.63
4:FD:90:ASP:OD2	4:FD:137:ARG:NE	2.29	0.63
4:DE:74:THR:N	4:DE:77:GLU:OE2	2.24	0.63
4:FE:132:MET:SD	4:FE:135:LEU:HB3	2.38	0.63
3:CG:282:ASP:HB2	4:DG:122:ILE:HD12	1.80	0.63
2:BJ:38:SER:HB3	2:BK:97:ILE:HD11	1.81	0.63
4:EJ:97:LEU:N	4:EJ:109:GLY:O	2.30	0.63
3:CP:258:GLU:O	4:FQ:102:ASN:ND2	2.32	0.63
4:ES:97:LEU:N	4:ES:109:GLY:O	2.29	0.63
3:CU:294:ALA:HB3	3:CU:302:LEU:HG	1.81	0.63
3:CX:205:HIS:NE2	3:CX:212:THR:OG1	2.31	0.63
2:BY:229:ILE:O	2:BY:233:MET:HG2	1.98	0.63
3:C4:205:HIS:NE2	3:C4:212:THR:OG1	2.30	0.63
3:C8:253:GLN:OE1	4:F9:131:ARG:NH2	2.31	0.63
4:E9:97:LEU:N	4:E9:109:GLY:O	2.29	0.63
3:CF:238:ASN:HD22	3:CG:112:GLY:HA2	1.63	0.63
2:BG:263:LEU:HD22	2:BG:271:ARG:HG2	1.80	0.63
2:BH:14:LEU:HD13	2:BH:17:ILE:HD11	1.79	0.63
3:CH:258:GLU:O	4:FI:102:ASN:ND2	2.31	0.63
4:EI:97:LEU:N	4:EI:109:GLY:O	2.31	0.63
2:BO:298:LEU:HD11	2:BP:329:THR:HB	1.80	0.63
2:BP:207:LYS:HE3	2:BP:209:GLN:H	1.63	0.63
2:BR:97:ILE:O	2:BR:100:THR:OG1	2.16	0.63
2:BR:263:LEU:HD22	2:BR:271:ARG:HG2	1.78	0.63
2:BS:46:GLN:NE2	2:BS:47:ILE:O	2.31	0.63
2:BS:197:ARG:HA	2:BS:232:GLU:HG2	1.81	0.63
2:B1:113:MET:O	2:B1:141:GLN:NE2	2.26	0.63
2:B1:298:LEU:HD11	2:B2:329:THR:HB	1.80	0.63
3:C7:296:VAL:HB	4:F8:60:ILE:HD11	1.80	0.63
2:B8:207:LYS:HE3	2:B8:209:GLN:H	1.63	0.63
4:EA:97:LEU:N	4:EA:109:GLY:O	2.29	0.63
3:CG:258:GLU:O	4:FH:102:ASN:ND2	2.32	0.63
2:BI:122:ILE:HG22	2:BI:130:ILE:HG12	1.79	0.63
2:BI:207:LYS:HE3	2:BI:209:GLN:H	1.64	0.63
3:CI:274:GLN:O	3:CI:278:LEU:HB2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BJ:9:LYS:HA	2:BJ:12:ILE:HD12	1.80	0.63
4:EU:107:ALA:HB2	4:EU:125:ILE:HD12	1.80	0.63
2:BW:298:LEU:HD11	2:BX:329:THR:HB	1.80	0.63
1:AX:534:GLN:HG3	1:AX:537:ARG:HH21	1.64	0.63
1:AY:548:ALA:HA	2:BY:25:VAL:HG13	1.80	0.63
4:E2:107:ALA:HB2	4:E2:125:ILE:HD12	1.81	0.63
2:B4:43:ASN:O	2:B4:45:ARG:NH1	2.32	0.63
2:B8:47:ILE:HB	2:B9:69:LEU:HD12	1.80	0.63
2:B9:229:ILE:O	2:B9:233:MET:HG2	1.99	0.63
2:BD:97:ILE:O	2:BD:101:ARG:NH1	2.31	0.63
2:BE:122:ILE:HG22	2:BE:130:ILE:HG12	1.81	0.63
2:BE:297:ARG:NH2	2:BF:243:ASP:OD2	2.32	0.63
2:BN:127:PRO:HA	2:BN:130:ILE:HD12	1.81	0.63
2:BO:122:ILE:HG22	2:BO:130:ILE:HG12	1.81	0.63
4:EP:68:LEU:HB3	4:FP:66:VAL:HG13	1.81	0.63
3:CT:205:HIS:NE2	3:CT:212:THR:OG1	2.31	0.63
2:B2:207:LYS:HE3	2:B2:209:GLN:H	1.62	0.63
2:B4:127:PRO:HA	2:B4:130:ILE:HD12	1.81	0.63
3:C6:205:HIS:NE2	3:C6:212:THR:OG1	2.31	0.63
3:CB:296:VAL:HB	4:FC:60:ILE:HD11	1.80	0.63
2:BD:207:LYS:HE3	2:BD:209:GLN:H	1.63	0.63
3:CD:253:GLN:NE2	4:FE:126:ILE:O	2.31	0.63
4:FD:100:LEU:HA	4:FD:105:LEU:HA	1.80	0.63
2:BO:297:ARG:NH2	2:BP:243:ASP:OD2	2.32	0.63
3:CT:255:GLN:HB3	4:DT:76:LYS:HG3	1.79	0.63
3:CX:253:GLN:OE1	4:FY:131:ARG:NH2	2.32	0.63
2:BD:9:LYS:HA	2:BD:12:ILE:HD12	1.80	0.63
3:CH:255:GLN:HB3	4:DH:76:LYS:HG3	1.80	0.63
3:CI:294:ALA:HB3	3:CI:302:LEU:HG	1.81	0.63
2:BL:4:LEU:HD11	2:BL:47:ILE:HD11	1.80	0.63
3:CQ:253:GLN:NE2	4:FR:126:ILE:O	2.31	0.63
2:BR:4:LEU:HD11	2:BR:47:ILE:HD11	1.80	0.63
4:EU:97:LEU:N	4:EU:109:GLY:O	2.30	0.63
2:BY:207:LYS:HE3	2:BY:209:GLN:H	1.63	0.63
3:CY:255:GLN:HB3	4:DY:76:LYS:HG3	1.80	0.63
2:B1:68:ALA:H	2:BY:46:GLN:NE2	1.96	0.63
4:F1:60:ILE:HD11	3:CY:296:VAL:HB	1.79	0.63
3:C4:255:GLN:HB3	4:D4:76:LYS:HG3	1.80	0.63
2:B8:122:ILE:HG22	2:B8:130:ILE:HG12	1.80	0.63
3:CA:258:GLU:O	4:FB:102:ASN:ND2	2.32	0.63
2:BG:122:ILE:HG22	2:BG:130:ILE:HG12	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:128:PRO:HG3	4:EG:131:ARG:HH21	1.63	0.63
2:BH:41:MET:HE1	2:BI:76:TYR:HD2	1.63	0.63
2:BL:298:LEU:HD11	2:BM:329:THR:HB	1.79	0.63
3:CW:255:GLN:HB3	4:DW:76:LYS:HG3	1.80	0.63
4:EW:97:LEU:N	4:EW:109:GLY:O	2.29	0.63
2:B2:122:ILE:HG22	2:B2:130:ILE:HG12	1.80	0.62
3:C5:297:ASP:OD2	4:E6:72:ARG:NH2	2.29	0.62
4:F6:100:LEU:HA	4:F6:105:LEU:HA	1.81	0.62
4:FC:70:ARG:NH1	4:FC:98:ASP:OD2	2.32	0.62
4:EE:107:ALA:HB2	4:EE:125:ILE:HD12	1.80	0.62
3:CH:253:GLN:NE2	4:FI:126:ILE:O	2.32	0.62
4:FJ:90:ASP:OD2	4:FJ:137:ARG:NE	2.28	0.62
1:AK:551:ILE:HD11	2:BK:29:LEU:HD11	1.81	0.62
2:BL:197:ARG:HA	2:BL:232:GLU:HG2	1.80	0.62
2:BM:122:ILE:HG22	2:BM:130:ILE:HG12	1.81	0.62
3:CR:294:ALA:HB3	3:CR:302:LEU:HG	1.81	0.62
2:BU:298:LEU:HD11	2:BV:329:THR:HB	1.80	0.62
3:CU:273:SER:OG	4:DU:58:MET:O	2.13	0.62
2:B3:298:LEU:HD11	2:B4:329:THR:HB	1.81	0.62
2:B6:298:LEU:HD11	2:B7:329:THR:HB	1.80	0.62
2:B9:298:LEU:HD11	2:BA:329:THR:HB	1.80	0.62
3:CA:255:GLN:HB3	4:DA:76:LYS:HG3	1.80	0.62
4:FA:90:ASP:OD2	4:FA:137:ARG:NE	2.30	0.62
3:CB:302:LEU:HB3	3:CB:320:LEU:HD23	1.81	0.62
2:BF:127:PRO:HA	2:BF:130:ILE:HD12	1.81	0.62
4:EM:73:MET:SD	4:EM:77:GLU:HG2	2.39	0.62
2:BS:139:ARG:NE	2:BT:202:ILE:HA	2.15	0.62
3:C2:294:ALA:HB3	3:C2:302:LEU:HG	1.81	0.62
1:A3:519:GLN:HB2	1:A3:522:ARG:HH21	1.64	0.62
1:A6:560:GLU:N	1:A6:560:GLU:OE2	2.32	0.62
2:B6:297:ARG:NH2	2:B7:243:ASP:OD2	2.32	0.62
4:F6:70:ARG:NH1	4:F6:98:ASP:OD2	2.32	0.62
2:B9:122:ILE:HG22	2:B9:130:ILE:HG12	1.81	0.62
4:FF:70:ARG:NH1	4:FF:98:ASP:OD2	2.32	0.62
2:BL:297:ARG:NH2	2:BM:243:ASP:OD2	2.32	0.62
3:CQ:294:ALA:HB3	3:CQ:302:LEU:HG	1.81	0.62
3:CQ:297:ASP:OD2	4:ER:72:ARG:NH2	2.32	0.62
2:BV:122:ILE:HG22	2:BV:130:ILE:HG12	1.81	0.62
3:CY:273:SER:OG	4:DY:58:MET:O	2.12	0.62
2:B3:9:LYS:HA	2:B3:12:ILE:HD12	1.79	0.62
2:B5:9:LYS:HA	2:B5:12:ILE:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C5:294:ALA:HB3	3:C5:302:LEU:HG	1.80	0.62
3:C9:294:ALA:HB3	3:C9:302:LEU:HG	1.80	0.62
2:BA:127:PRO:HA	2:BA:130:ILE:HD12	1.82	0.62
2:BA:298:LEU:HD11	2:BB:329:THR:HB	1.80	0.62
2:BC:197:ARG:HA	2:BC:232:GLU:HG2	1.81	0.62
2:BE:197:ARG:HA	2:BE:232:GLU:HG2	1.80	0.62
3:CE:296:VAL:HB	4:FF:60:ILE:HD11	1.79	0.62
3:CP:255:GLN:HB3	4:DP:76:LYS:HG3	1.80	0.62
2:BR:46:GLN:NE2	2:BS:68:ALA:O	2.32	0.62
3:CR:56:ILE:HD11	3:CS:188:PHE:HD1	1.64	0.62
2:BS:139:ARG:HH22	2:BT:205:LEU:N	1.96	0.62
3:CU:300:PRO:HB2	3:CU:321:ILE:HG13	1.81	0.62
2:BV:127:PRO:HA	2:BV:130:ILE:HD12	1.82	0.62
4:EV:97:LEU:N	4:EV:109:GLY:O	2.29	0.62
1:A1:534:GLN:HG3	1:A1:537:ARG:HH21	1.65	0.62
3:C3:294:ALA:HB3	3:C3:302:LEU:HG	1.81	0.62
3:C4:300:PRO:HB2	3:C4:321:ILE:HG13	1.81	0.62
3:C7:316:ARG:HB3	4:D7:86:VAL:HG22	1.82	0.62
3:C8:255:GLN:HB3	4:D8:76:LYS:HG3	1.80	0.62
3:C9:255:GLN:HB3	4:D9:76:LYS:HG3	1.80	0.62
3:C9:273:SER:OG	4:D9:58:MET:O	2.12	0.62
4:EA:130:GLU:HA	4:EA:133:ARG:HE	1.65	0.62
3:CD:255:GLN:HB3	4:DD:76:LYS:HG3	1.80	0.62
4:ED:58:MET:HG2	4:FD:76:LYS:NZ	2.15	0.62
2:BF:298:LEU:HD11	2:BG:329:THR:HB	1.80	0.62
2:BH:298:LEU:HD11	2:BI:329:THR:HB	1.80	0.62
4:FH:90:ASP:OD2	4:FH:137:ARG:NE	2.29	0.62
3:CK:300:PRO:HB2	3:CK:321:ILE:HG13	1.82	0.62
2:BP:122:ILE:HG22	2:BP:130:ILE:HG12	1.81	0.62
3:CP:294:ALA:HB3	3:CP:302:LEU:HG	1.82	0.62
3:CW:294:ALA:HB3	3:CW:302:LEU:HG	1.82	0.62
3:CX:258:GLU:O	4:FY:102:ASN:ND2	2.32	0.62
3:C4:273:SER:OG	4:D4:58:MET:O	2.12	0.62
2:B6:41:MET:HA	2:B6:44:VAL:HB	1.81	0.62
4:F7:70:ARG:NH1	4:F7:98:ASP:OD2	2.33	0.62
2:B8:127:PRO:HA	2:B8:130:ILE:HD12	1.82	0.62
3:C8:273:SER:OG	4:D8:58:MET:O	2.12	0.62
3:CE:282:ASP:HB2	4:DE:122:ILE:HD12	1.81	0.62
3:CG:255:GLN:HB3	4:DG:76:LYS:HG3	1.80	0.62
3:CL:294:ALA:HB3	3:CL:302:LEU:HG	1.82	0.62
2:BM:298:LEU:HD11	2:BN:329:THR:HB	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BN:298:LEU:HD11	2:BO:329:THR:HB	1.81	0.62
3:CO:258:GLU:O	4:FP:102:ASN:ND2	2.31	0.62
3:CV:258:GLU:O	4:FW:102:ASN:ND2	2.29	0.62
3:CY:282:ASP:HB2	4:DY:122:ILE:HD12	1.81	0.62
2:B5:207:LYS:HE3	2:B5:209:GLN:H	1.64	0.62
3:C5:300:PRO:HB2	3:C5:321:ILE:HG13	1.80	0.62
3:C6:255:GLN:HB3	4:D6:76:LYS:HG3	1.80	0.62
1:A9:532:MET:HE1	2:B9:56:LEU:HD22	1.81	0.62
3:CB:255:GLN:HB3	4:DB:76:LYS:HG3	1.82	0.62
2:BD:229:ILE:O	2:BD:233:MET:HG2	1.98	0.62
4:FE:90:ASP:OD2	4:FE:137:ARG:NE	2.29	0.62
3:CF:316:ARG:HB3	4:DF:86:VAL:HG22	1.82	0.62
4:FG:70:ARG:NH1	4:FG:98:ASP:OD2	2.32	0.62
2:BH:201:GLU:HA	2:BH:204:ASN:HD22	1.64	0.62
4:EI:107:ALA:HB2	4:EI:125:ILE:HD12	1.79	0.62
3:CL:255:GLN:HB3	4:DL:76:LYS:HG3	1.80	0.62
2:BM:127:PRO:HA	2:BM:130:ILE:HD12	1.81	0.62
3:CO:316:ARG:HB3	4:DO:86:VAL:HG22	1.82	0.62
3:CW:253:GLN:OE1	4:FX:131:ARG:NH2	2.32	0.62
3:CX:294:ALA:HB3	3:CX:302:LEU:HG	1.82	0.62
3:C3:253:GLN:NE2	4:F4:126:ILE:O	2.33	0.62
2:B4:68:ALA:O	2:B4:70:ASN:ND2	2.33	0.62
2:B6:122:ILE:HG22	2:B6:130:ILE:HG12	1.81	0.62
3:C6:302:LEU:HB3	3:C6:320:LEU:HD23	1.82	0.62
1:A9:519:GLN:HB2	1:A9:522:ARG:HH21	1.65	0.62
2:BC:14:LEU:HD13	2:BC:17:ILE:HD11	1.81	0.62
2:BC:298:LEU:HD11	2:BD:329:THR:HB	1.80	0.62
2:BD:122:ILE:HG22	2:BD:130:ILE:HG12	1.81	0.62
2:BD:298:LEU:HD11	2:BE:329:THR:HB	1.80	0.62
3:CF:258:GLU:O	4:FG:102:ASN:ND2	2.29	0.62
2:BJ:297:ARG:NH2	2:BK:243:ASP:OD2	2.33	0.62
2:BL:229:ILE:O	2:BL:233:MET:HG2	2.00	0.62
3:CM:316:ARG:HB3	4:DM:86:VAL:HG22	1.82	0.62
3:CN:316:ARG:HB3	4:DN:86:VAL:HG22	1.82	0.62
3:CO:294:ALA:HB3	3:CO:302:LEU:HG	1.82	0.62
3:CS:258:GLU:O	4:FT:102:ASN:ND2	2.30	0.62
2:BU:229:ILE:O	2:BU:233:MET:HG2	1.99	0.62
2:BV:297:ARG:NH2	2:BW:243:ASP:OD2	2.33	0.62
3:CV:300:PRO:HB2	3:CV:321:ILE:HG13	1.82	0.62
2:BX:43:ASN:O	2:BX:45:ARG:NH1	2.33	0.62
2:BX:127:PRO:HA	2:BX:130:ILE:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B3:297:ARG:NH2	2:B4:243:ASP:OD2	2.33	0.62
3:C4:294:ALA:HB3	3:C4:302:LEU:HG	1.81	0.62
2:B5:127:PRO:HA	2:B5:130:ILE:HD12	1.82	0.62
3:C5:255:GLN:HB3	4:D5:76:LYS:HG3	1.82	0.62
3:C6:294:ALA:HB3	3:C6:302:LEU:HG	1.81	0.62
2:B8:298:LEU:HD11	2:B9:329:THR:HB	1.80	0.62
1:AA:519:GLN:HB2	1:AA:522:ARG:HH21	1.65	0.62
2:BE:298:LEU:HD11	2:BF:329:THR:HB	1.80	0.62
2:BF:297:ARG:NH2	2:BG:243:ASP:OD2	2.33	0.62
4:FG:127:THR:HG23	4:FG:130:GLU:H	1.65	0.62
2:BH:127:PRO:HA	2:BH:130:ILE:HD12	1.82	0.62
3:CH:316:ARG:HB3	4:DH:86:VAL:HG22	1.82	0.62
3:CJ:316:ARG:HB3	4:DJ:86:VAL:HG22	1.82	0.62
3:CL:316:ARG:HB3	4:DL:86:VAL:HG22	1.82	0.62
2:BQ:127:PRO:HA	2:BQ:130:ILE:HD12	1.82	0.62
2:BQ:297:ARG:NH1	2:BR:329:THR:O	2.32	0.62
3:CQ:255:GLN:HB3	4:DQ:76:LYS:HG3	1.81	0.62
2:BU:297:ARG:NH2	2:BV:243:ASP:OD2	2.32	0.62
3:CV:66:ARG:NE	3:CV:77:PRO:O	2.33	0.62
4:FV:126:ILE:HD11	4:FV:131:ARG:HH21	1.64	0.62
2:B2:139:ARG:HD2	2:B3:202:ILE:HA	1.82	0.62
3:C2:316:ARG:HB3	4:D2:86:VAL:HG22	1.82	0.62
3:C3:255:GLN:HB3	4:D3:76:LYS:HG3	1.80	0.62
4:F6:90:ASP:OD2	4:F6:137:ARG:NE	2.31	0.62
3:C8:294:ALA:HB3	3:C8:302:LEU:HG	1.81	0.62
2:BA:218:VAL:HG11	2:BA:229:ILE:HD12	1.82	0.62
2:BB:97:ILE:O	2:BB:101:ARG:NH1	2.33	0.62
2:BB:298:LEU:HD11	2:BC:329:THR:HB	1.81	0.62
1:AD:519:GLN:HB2	1:AD:522:ARG:HH21	1.65	0.62
2:BF:122:ILE:HG22	2:BF:130:ILE:HG12	1.81	0.62
2:BG:127:PRO:HA	2:BG:130:ILE:HD12	1.82	0.62
3:CH:294:ALA:HB3	3:CH:302:LEU:HG	1.82	0.62
3:CI:255:GLN:HB3	4:DI:76:LYS:HG3	1.80	0.62
3:CQ:316:ARG:HB3	4:DQ:86:VAL:HG22	1.82	0.62
1:AV:519:GLN:HB2	1:AV:522:ARG:HH21	1.64	0.62
2:BV:298:LEU:HD11	2:BW:329:THR:HB	1.81	0.62
3:CW:316:ARG:HB3	4:DW:86:VAL:HG22	1.82	0.62
2:B1:127:PRO:HA	2:B1:130:ILE:HD12	1.82	0.61
2:B2:298:LEU:HD11	2:B3:329:THR:HB	1.80	0.61
3:C2:253:GLN:OE1	4:F3:131:ARG:NH2	2.33	0.61
1:A5:519:GLN:HB2	1:A5:522:ARG:HH21	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:46:GLN:NE2	2:B8:68:ALA:O	2.33	0.61
2:B7:298:LEU:HD11	2:B8:329:THR:HB	1.80	0.61
1:A8:519:GLN:HB2	1:A8:522:ARG:HH21	1.65	0.61
2:B8:297:ARG:NH2	2:B9:243:ASP:OD2	2.33	0.61
4:F8:90:ASP:OD2	4:F8:137:ARG:NE	2.31	0.61
3:CA:316:ARG:HB3	4:DA:86:VAL:HG22	1.82	0.61
1:AB:519:GLN:HB2	1:AB:522:ARG:HH21	1.65	0.61
3:CD:300:PRO:HB2	3:CD:321:ILE:HG13	1.82	0.61
1:AG:519:GLN:HB2	1:AG:522:ARG:HH21	1.65	0.61
2:BG:106:GLY:O	2:BG:109:THR:OG1	2.16	0.61
1:AH:519:GLN:HB2	1:AH:522:ARG:HH21	1.65	0.61
3:CI:316:ARG:HB3	4:DI:86:VAL:HG22	1.82	0.61
3:CJ:294:ALA:HB3	3:CJ:302:LEU:HG	1.82	0.61
4:EK:107:ALA:HB2	4:EK:125:ILE:HD12	1.81	0.61
3:CM:294:ALA:HB3	3:CM:302:LEU:HG	1.82	0.61
2:BN:297:ARG:NH2	2:BO:243:ASP:OD2	2.32	0.61
3:CP:316:ARG:HB3	4:DP:86:VAL:HG22	1.82	0.61
3:CR:273:SER:OG	4:DR:58:MET:O	2.12	0.61
3:CS:294:ALA:HB3	3:CS:302:LEU:HG	1.82	0.61
1:AT:532:MET:SD	2:BT:56:LEU:HD13	2.40	0.61
3:CT:316:ARG:HB3	4:DT:86:VAL:HG22	1.82	0.61
3:CV:294:ALA:HB3	3:CV:302:LEU:HG	1.82	0.61
2:BW:263:LEU:HD22	2:BW:271:ARG:HG2	1.80	0.61
2:BY:122:ILE:HG22	2:BY:130:ILE:HG12	1.80	0.61
3:C1:316:ARG:HB3	4:D1:86:VAL:HG22	1.82	0.61
3:C3:253:GLN:OE1	4:F4:131:ARG:NH2	2.33	0.61
4:E3:107:ALA:HB2	4:E3:125:ILE:HD12	1.82	0.61
1:A4:519:GLN:HB2	1:A4:522:ARG:HH21	1.65	0.61
3:C4:316:ARG:HB3	4:D4:86:VAL:HG22	1.82	0.61
3:C5:316:ARG:HB3	4:D5:86:VAL:HG22	1.82	0.61
3:C7:294:ALA:HB3	3:C7:302:LEU:HG	1.82	0.61
4:E8:107:ALA:HB2	4:E8:125:ILE:HD12	1.82	0.61
2:BB:69:LEU:HG	2:BB:70:ASN:H	1.63	0.61
1:AC:552:ARG:HA	1:AC:555:MET:HE3	1.81	0.61
2:BD:127:PRO:HA	2:BD:130:ILE:HD12	1.82	0.61
3:CE:316:ARG:HB3	4:DE:86:VAL:HG22	1.82	0.61
3:CF:66:ARG:NE	3:CF:77:PRO:O	2.33	0.61
3:CG:253:GLN:NE2	4:FH:126:ILE:O	2.33	0.61
3:CJ:255:GLN:HB3	4:DJ:76:LYS:HG3	1.81	0.61
4:FJ:127:THR:HG23	4:FJ:130:GLU:H	1.65	0.61
2:BN:122:ILE:HG22	2:BN:130:ILE:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EQ:68:LEU:HB3	4:FQ:66:VAL:HG13	1.82	0.61
1:AY:551:ILE:HD11	2:BY:29:LEU:HD11	1.81	0.61
1:A4:552:ARG:HA	1:A4:555:MET:HE3	1.82	0.61
3:C9:316:ARG:HB3	4:D9:86:VAL:HG22	1.82	0.61
2:BA:245:ARG:HH21	2:BA:321:MET:HB3	1.63	0.61
1:AC:519:GLN:HB2	1:AC:522:ARG:HH21	1.65	0.61
1:AI:519:GLN:HB2	1:AI:522:ARG:HH21	1.65	0.61
2:BI:298:LEU:HD11	2:BJ:329:THR:HB	1.81	0.61
2:BJ:41:MET:CE	2:BK:77:LEU:HD22	2.31	0.61
3:CK:294:ALA:HB3	3:CK:302:LEU:HG	1.82	0.61
3:CM:300:PRO:HB2	3:CM:321:ILE:HG13	1.83	0.61
4:EN:107:ALA:HB2	4:EN:125:ILE:HD12	1.81	0.61
2:BR:122:ILE:HG22	2:BR:130:ILE:HG12	1.82	0.61
3:CT:66:ARG:NE	3:CT:77:PRO:O	2.34	0.61
2:BU:207:LYS:HE3	2:BU:209:GLN:H	1.65	0.61
3:CX:66:ARG:NE	3:CX:77:PRO:O	2.34	0.61
2:BY:14:LEU:HD13	2:BY:17:ILE:HD11	1.81	0.61
2:B1:97:ILE:O	2:B1:101:ARG:NH1	2.34	0.61
2:B1:122:ILE:HG22	2:B1:130:ILE:HG12	1.81	0.61
2:B2:127:PRO:HA	2:B2:130:ILE:HD12	1.82	0.61
2:B4:297:ARG:NH2	2:B5:243:ASP:OD2	2.34	0.61
4:F5:90:ASP:OD2	4:F5:137:ARG:NE	2.31	0.61
1:A6:519:GLN:HB2	1:A6:522:ARG:HH21	1.65	0.61
3:C8:316:ARG:HB3	4:D8:86:VAL:HG22	1.83	0.61
4:EB:73:MET:SD	4:EB:77:GLU:HG2	2.39	0.61
2:BC:297:ARG:NH2	2:BD:243:ASP:OD2	2.33	0.61
4:DD:105:LEU:O	4:DD:131:ARG:NH2	2.33	0.61
2:BH:207:LYS:HE3	2:BH:209:GLN:H	1.64	0.61
2:BH:229:ILE:O	2:BH:233:MET:HG2	2.00	0.61
2:BI:197:ARG:HA	2:BI:232:GLU:HG2	1.82	0.61
2:BJ:229:ILE:O	2:BJ:233:MET:HG2	2.00	0.61
2:BJ:298:LEU:HD11	2:BK:329:THR:HB	1.81	0.61
4:FL:126:ILE:HD11	4:FL:131:ARG:HH21	1.65	0.61
2:BN:218:VAL:HG11	2:BN:229:ILE:HD12	1.82	0.61
2:BP:46:GLN:NE2	2:BQ:68:ALA:O	2.34	0.61
4:DP:105:LEU:HB3	4:DP:126:ILE:HG21	1.83	0.61
3:CR:253:GLN:OE1	4:FS:131:ARG:NH2	2.33	0.61
3:CR:316:ARG:HB3	4:DR:86:VAL:HG22	1.82	0.61
2:B1:243:ASP:OD2	2:BY:297:ARG:NH2	2.33	0.61
2:B5:297:ARG:NH2	2:B6:243:ASP:OD2	2.34	0.61
4:E5:107:ALA:HB2	4:E5:125:ILE:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:122:ILE:HG22	2:B7:130:ILE:HG12	1.81	0.61
4:F7:90:ASP:OD2	4:F7:137:ARG:NE	2.31	0.61
2:B9:197:ARG:HA	2:B9:232:GLU:HG2	1.82	0.61
2:BB:245:ARG:HH21	2:BB:321:MET:HB3	1.65	0.61
2:BC:201:GLU:HA	2:BC:204:ASN:HD22	1.66	0.61
3:CD:66:ARG:NE	3:CD:77:PRO:O	2.34	0.61
3:CG:316:ARG:HB3	4:DG:86:VAL:HG22	1.82	0.61
3:CH:253:GLN:OE1	4:FI:131:ARG:NH2	2.34	0.61
1:AI:551:ILE:HD11	2:BI:29:LEU:HD11	1.82	0.61
2:BL:106:GLY:O	2:BL:109:THR:OG1	2.16	0.61
2:BL:122:ILE:HG22	2:BL:130:ILE:HG12	1.82	0.61
2:BM:46:GLN:NE2	2:BN:68:ALA:O	2.27	0.61
2:BP:246:SER:OG	2:BP:321:MET:HG3	2.00	0.61
3:CS:316:ARG:HB3	4:DS:86:VAL:HG22	1.83	0.61
3:CT:294:ALA:HB3	3:CT:302:LEU:HG	1.82	0.61
3:CU:66:ARG:NE	3:CU:77:PRO:O	2.34	0.61
4:DY:131:ARG:NH1	4:EY:59:ASP:OD2	2.33	0.61
3:C1:294:ALA:HB3	3:C1:302:LEU:HG	1.82	0.61
3:C3:316:ARG:HB3	4:D3:86:VAL:HG22	1.82	0.61
4:D7:105:LEU:HB3	4:D7:126:ILE:HG21	1.80	0.61
4:FB:90:ASP:OD2	4:FB:137:ARG:NE	2.31	0.61
1:AK:519:GLN:HB2	1:AK:522:ARG:HH21	1.65	0.61
2:BK:201:GLU:HA	2:BK:204:ASN:HD22	1.64	0.61
1:AL:519:GLN:HB2	1:AL:522:ARG:HH21	1.65	0.61
3:CN:66:ARG:NE	3:CN:77:PRO:O	2.33	0.61
4:FP:90:ASP:OD2	4:FP:137:ARG:NE	2.28	0.61
4:ER:68:LEU:HB3	4:FR:66:VAL:HG13	1.82	0.61
2:BS:297:ARG:NH2	2:BT:243:ASP:OD2	2.33	0.61
3:CU:258:GLU:O	4:FV:102:ASN:ND2	2.32	0.61
3:CU:316:ARG:HB3	4:DU:86:VAL:HG22	1.82	0.61
3:CV:316:ARG:HB3	4:DV:86:VAL:HG22	1.82	0.61
2:BW:297:ARG:NH2	2:BX:243:ASP:OD2	2.33	0.61
4:EW:107:ALA:HB2	4:EW:125:ILE:HD12	1.81	0.61
3:CX:316:ARG:HB3	4:DX:86:VAL:HG22	1.82	0.61
1:AY:519:GLN:HB2	1:AY:522:ARG:HH21	1.64	0.61
1:A2:519:GLN:HB2	1:A2:522:ARG:HH21	1.65	0.61
3:C4:253:GLN:OE1	4:F5:131:ARG:NH2	2.34	0.61
1:A6:548:ALA:HA	2:B6:25:VAL:HG13	1.82	0.61
2:B6:197:ARG:HA	2:B6:232:GLU:HG2	1.80	0.61
4:E8:68:LEU:HB3	4:F8:66:VAL:HG13	1.82	0.61
2:BB:229:ILE:O	2:BB:233:MET:HG2	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:255:GLN:HB3	4:DC:76:LYS:HG3	1.80	0.61
3:CE:66:ARG:NE	3:CE:77:PRO:O	2.34	0.61
3:CF:294:ALA:HB3	3:CF:302:LEU:HG	1.82	0.61
4:FF:100:LEU:HA	4:FF:105:LEU:HA	1.83	0.61
2:BI:229:ILE:O	2:BI:233:MET:HG2	2.01	0.61
3:CI:238:ASN:HD22	3:CJ:112:GLY:HA2	1.66	0.61
3:CJ:300:PRO:HB2	3:CJ:321:ILE:HG13	1.83	0.61
3:CK:316:ARG:HB3	4:DK:86:VAL:HG22	1.82	0.61
3:CN:294:ALA:HB3	3:CN:302:LEU:HG	1.83	0.61
4:FN:90:ASP:OD2	4:FN:137:ARG:NE	2.29	0.61
3:CO:297:ASP:OD2	4:EP:72:ARG:NH2	2.34	0.61
4:FS:70:ARG:NH1	4:FS:98:ASP:OD2	2.34	0.61
4:EU:68:LEU:HB3	4:FU:66:VAL:HG13	1.83	0.61
3:CY:316:ARG:HB3	4:DY:86:VAL:HG22	1.83	0.61
1:A1:519:GLN:HB2	1:A1:522:ARG:HH21	1.65	0.61
2:B4:46:GLN:NE2	2:B5:68:ALA:O	2.23	0.61
2:B5:97:ILE:O	2:B5:100:THR:OG1	2.18	0.61
3:CA:253:GLN:OE1	4:FB:131:ARG:NH2	2.34	0.61
3:CC:238:ASN:HD22	3:CD:112:GLY:HA2	1.66	0.61
4:EE:68:LEU:HB3	4:FE:66:VAL:HG13	1.82	0.61
4:FE:127:THR:HG23	4:FE:130:GLU:H	1.66	0.61
3:CG:294:ALA:HB3	3:CG:302:LEU:HG	1.82	0.61
1:AJ:519:GLN:HB2	1:AJ:522:ARG:HH21	1.65	0.61
4:EN:68:LEU:HB3	4:FN:66:VAL:HG13	1.82	0.61
4:EO:68:LEU:HB3	4:FO:66:VAL:HG13	1.83	0.61
2:BR:127:PRO:HA	2:BR:130:ILE:HD12	1.83	0.61
4:FT:90:ASP:OD2	4:FT:137:ARG:NE	2.28	0.61
3:C5:66:ARG:NE	3:C5:77:PRO:O	2.33	0.61
3:C6:316:ARG:HB3	4:D6:86:VAL:HG22	1.83	0.61
2:BB:42:ALA:HB2	2:BC:97:ILE:HG23	1.83	0.61
2:BD:46:GLN:HB2	1:AE:549:LEU:HD13	1.83	0.61
3:CD:316:ARG:HB3	4:DD:86:VAL:HG22	1.82	0.61
3:CE:302:LEU:HB3	3:CE:320:LEU:HD23	1.83	0.61
3:CG:238:ASN:HD22	3:CH:112:GLY:HA2	1.66	0.61
2:BH:297:ARG:NH2	2:BI:243:ASP:OD2	2.34	0.61
3:CK:299:VAL:HG22	4:FK:132:MET:HE2	1.83	0.61
4:DK:105:LEU:HB3	4:DK:126:ILE:HG21	1.83	0.61
3:CL:66:ARG:NE	3:CL:77:PRO:O	2.33	0.61
1:AR:551:ILE:HD11	2:BR:29:LEU:HD11	1.82	0.61
4:DT:105:LEU:HB3	4:DT:126:ILE:HG21	1.81	0.61
4:FV:70:ARG:NH1	4:FV:98:ASP:OD2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BX:68:ALA:O	2:BX:70:ASN:ND2	2.33	0.61
2:BY:127:PRO:HA	2:BY:130:ILE:HD12	1.83	0.61
2:BA:122:ILE:HG22	2:BA:130:ILE:HG12	1.82	0.61
3:CB:316:ARG:HB3	4:DB:86:VAL:HG22	1.83	0.61
1:AE:519:GLN:HB2	1:AE:522:ARG:HH21	1.65	0.61
3:CE:294:ALA:HB3	3:CE:302:LEU:HG	1.83	0.61
2:BG:218:VAL:HG11	2:BG:229:ILE:HD12	1.82	0.61
3:CG:66:ARG:NE	3:CG:77:PRO:O	2.34	0.61
2:BK:106:GLY:O	2:BK:109:THR:OG1	2.16	0.61
3:CP:253:GLN:OE1	4:FQ:131:ARG:NH2	2.33	0.61
3:CQ:300:PRO:HB2	3:CQ:321:ILE:HG13	1.82	0.61
2:BS:69:LEU:HG	2:BS:70:ASN:H	1.64	0.61
3:CT:273:SER:OG	4:DT:58:MET:O	2.11	0.61
2:B1:67:ALA:HA	2:BY:46:GLN:HE22	1.66	0.60
3:C7:66:ARG:NE	3:C7:77:PRO:O	2.33	0.60
3:CA:294:ALA:HB3	3:CA:302:LEU:HG	1.82	0.60
3:CC:66:ARG:NE	3:CC:77:PRO:O	2.34	0.60
3:CC:316:ARG:HB3	4:DC:86:VAL:HG22	1.83	0.60
3:CD:294:ALA:HB3	3:CD:302:LEU:HG	1.82	0.60
4:FD:127:THR:HG23	4:FD:130:GLU:H	1.65	0.60
2:BI:106:GLY:O	2:BI:109:THR:OG1	2.17	0.60
2:BJ:149:PHE:O	2:BJ:154:ARG:NH2	2.34	0.60
2:BL:14:LEU:HD13	2:BL:17:ILE:HD11	1.82	0.60
2:BQ:149:PHE:O	2:BQ:154:ARG:NH2	2.34	0.60
2:BR:245:ARG:HH21	2:BR:321:MET:HB3	1.65	0.60
3:CR:66:ARG:NE	3:CR:77:PRO:O	2.34	0.60
4:ET:107:ALA:HB2	4:ET:125:ILE:HD12	1.81	0.60
4:FT:104:TYR:OH	4:FT:131:ARG:NH1	2.33	0.60
2:BU:111:ASN:HD21	2:BU:138:LYS:HB2	1.66	0.60
2:BV:201:GLU:HA	2:BV:204:ASN:HD22	1.66	0.60
3:CW:66:ARG:NE	3:CW:77:PRO:O	2.34	0.60
4:FY:90:ASP:OD2	4:FY:137:ARG:NE	2.30	0.60
3:C6:66:ARG:NE	3:C6:77:PRO:O	2.34	0.60
4:F9:90:ASP:OD2	4:F9:137:ARG:NE	2.32	0.60
2:BD:298:LEU:O	2:BD:302:GLU:HG2	2.01	0.60
3:CH:300:PRO:HB2	3:CH:321:ILE:HG13	1.83	0.60
4:FH:70:ARG:NH1	4:FH:98:ASP:OD2	2.34	0.60
4:DI:105:LEU:HB3	4:DI:126:ILE:HG21	1.83	0.60
4:EM:68:LEU:HB3	4:FM:66:VAL:HG13	1.82	0.60
4:FM:127:THR:HG23	4:FM:130:GLU:H	1.66	0.60
1:AN:519:GLN:HB2	1:AN:522:ARG:HH21	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BN:68:ALA:O	2:BN:70:ASN:ND2	2.34	0.60
1:AQ:519:GLN:HB2	1:AQ:522:ARG:HH21	1.64	0.60
3:CV:253:GLN:OE1	4:FW:131:ARG:NH2	2.33	0.60
2:B4:218:VAL:HG11	2:B4:229:ILE:HD12	1.82	0.60
3:C8:302:LEU:HB3	3:C8:320:LEU:HD23	1.83	0.60
2:BC:298:LEU:O	2:BC:302:GLU:HG2	2.02	0.60
3:CF:300:PRO:HB2	3:CF:321:ILE:HG13	1.84	0.60
3:CM:66:ARG:NE	3:CM:77:PRO:O	2.34	0.60
4:FM:90:ASP:OD2	4:FM:137:ARG:NE	2.29	0.60
2:BQ:122:ILE:HG22	2:BQ:130:ILE:HG12	1.82	0.60
4:EQ:107:ALA:HB2	4:EQ:125:ILE:HD12	1.81	0.60
2:BR:38:SER:HB3	2:BS:97:ILE:HD11	1.83	0.60
2:BR:46:GLN:HE22	2:BS:69:LEU:HB3	1.66	0.60
4:ES:68:LEU:HB3	4:FS:66:VAL:HG13	1.82	0.60
2:BT:298:LEU:O	2:BT:302:GLU:HG2	2.02	0.60
3:CT:258:GLU:O	4:FU:102:ASN:ND2	2.32	0.60
2:BV:97:ILE:O	2:BV:100:THR:OG1	2.19	0.60
3:CV:273:SER:OG	4:DV:58:MET:O	2.15	0.60
4:EW:68:LEU:HB3	4:FW:66:VAL:HG13	1.83	0.60
4:F1:131:ARG:NH2	3:CY:253:GLN:OE1	2.34	0.60
3:C3:302:LEU:HB3	3:C3:320:LEU:HD23	1.83	0.60
2:B5:122:ILE:HG22	2:B5:130:ILE:HG12	1.82	0.60
2:B8:298:LEU:O	2:B8:302:GLU:HG2	2.02	0.60
3:C8:66:ARG:NE	3:C8:77:PRO:O	2.34	0.60
2:B9:127:PRO:HA	2:B9:130:ILE:HD12	1.83	0.60
3:CB:273:SER:OG	4:DB:58:MET:O	2.12	0.60
2:BF:106:GLY:O	2:BF:109:THR:OG1	2.17	0.60
3:CF:255:GLN:HB3	4:DF:76:LYS:HG3	1.82	0.60
4:EF:107:ALA:HB2	4:EF:125:ILE:HD12	1.82	0.60
3:CG:102:LEU:HD22	3:CG:115:LEU:HD21	1.84	0.60
2:BI:298:LEU:O	2:BI:302:GLU:HG2	2.02	0.60
2:BJ:52:LEU:HD13	2:BK:69:LEU:HD21	1.83	0.60
2:BN:106:GLY:O	2:BN:109:THR:OG1	2.16	0.60
4:EO:64:LEU:HB3	4:FO:71:THR:HB	1.83	0.60
3:CP:66:ARG:NE	3:CP:77:PRO:O	2.34	0.60
4:FR:70:ARG:NH1	4:FR:98:ASP:OD2	2.34	0.60
2:BS:46:GLN:NE2	2:BT:68:ALA:O	2.33	0.60
2:BS:298:LEU:O	2:BS:302:GLU:HG2	2.02	0.60
2:BU:14:LEU:HD13	2:BU:17:ILE:HD11	1.82	0.60
4:FV:127:THR:HG23	4:FV:130:GLU:H	1.66	0.60
2:B4:110:LEU:HD11	2:B4:121:LEU:HD23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:66:ARG:NE	3:C4:77:PRO:O	2.34	0.60
1:A5:551:ILE:HD11	2:B5:29:LEU:HD11	1.83	0.60
4:D6:131:ARG:NH1	4:E6:59:ASP:OD2	2.34	0.60
2:BB:297:ARG:NH2	2:BC:243:ASP:OD2	2.33	0.60
1:AC:551:ILE:HD11	2:BC:29:LEU:HD11	1.84	0.60
1:AD:532:MET:SD	2:BD:56:LEU:HD13	2.42	0.60
4:DE:101:ILE:HD13	4:EE:60:ILE:HD13	1.84	0.60
1:AF:519:GLN:HB2	1:AF:522:ARG:HH21	1.66	0.60
1:AF:551:ILE:HD11	2:BF:29:LEU:HD11	1.84	0.60
1:AJ:552:ARG:HA	1:AJ:555:MET:HE3	1.83	0.60
4:FK:127:THR:HG23	4:FK:130:GLU:H	1.65	0.60
2:BN:298:LEU:O	2:BN:302:GLU:HG2	2.02	0.60
1:AO:519:GLN:HB2	1:AO:522:ARG:HH21	1.66	0.60
3:CO:66:ARG:NE	3:CO:77:PRO:O	2.34	0.60
2:BP:9:LYS:HA	2:BP:12:ILE:HD12	1.82	0.60
4:DQ:126:ILE:HD13	4:DQ:131:ARG:NH2	2.16	0.60
4:DV:105:LEU:HB3	4:DV:126:ILE:HG21	1.82	0.60
1:AW:519:GLN:HB2	1:AW:522:ARG:HH21	1.66	0.60
2:BX:197:ARG:HA	2:BX:232:GLU:HG2	1.83	0.60
4:F2:90:ASP:OD2	4:F2:137:ARG:NE	2.31	0.60
2:B5:149:PHE:O	2:B5:154:ARG:NH2	2.35	0.60
3:C8:199:VAL:HG23	3:C8:220:PRO:HA	1.82	0.60
2:BA:297:ARG:NH2	2:BB:243:ASP:OD2	2.35	0.60
2:BD:106:GLY:O	2:BD:109:THR:OG1	2.17	0.60
4:DG:105:LEU:HB3	4:DG:126:ILE:HG21	1.84	0.60
1:AH:534:GLN:HG3	1:AH:537:ARG:HH21	1.67	0.60
3:CH:66:ARG:NE	3:CH:77:PRO:O	2.34	0.60
3:CH:297:ASP:OD2	4:EI:72:ARG:NH2	2.33	0.60
3:CI:258:GLU:O	4:FJ:102:ASN:ND2	2.33	0.60
2:BL:298:LEU:O	2:BL:302:GLU:HG2	2.01	0.60
3:CL:238:ASN:HD22	3:CM:112:GLY:HA2	1.66	0.60
4:FL:127:THR:HG23	4:FL:130:GLU:H	1.66	0.60
1:AM:519:GLN:HB2	1:AM:522:ARG:HH21	1.65	0.60
2:BN:97:ILE:O	2:BN:101:ARG:NH1	2.34	0.60
2:BO:298:LEU:O	2:BO:302:GLU:HG2	2.02	0.60
1:AR:519:GLN:HB2	1:AR:522:ARG:HH21	1.65	0.60
1:AS:519:GLN:HB2	1:AS:522:ARG:HH21	1.66	0.60
2:BT:46:GLN:HE22	2:BU:67:ALA:HA	1.66	0.60
3:CW:258:GLU:O	4:FX:102:ASN:ND2	2.33	0.60
1:A6:534:GLN:HG3	1:A6:537:ARG:HH21	1.67	0.60
4:F7:100:LEU:HA	4:F7:105:LEU:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:551:ILE:HD11	2:B8:29:LEU:HD11	1.84	0.60
3:C8:238:ASN:HD22	3:C9:112:GLY:HA2	1.67	0.60
2:BB:122:ILE:HG22	2:BB:130:ILE:HG12	1.82	0.60
2:BC:97:ILE:O	2:BC:100:THR:OG1	2.19	0.60
2:BC:106:GLY:O	2:BC:109:THR:OG1	2.16	0.60
2:BC:122:ILE:HG22	2:BC:130:ILE:HG12	1.83	0.60
3:CE:238:ASN:HD22	3:CF:112:GLY:HA2	1.66	0.60
3:CE:258:GLU:O	4:FF:102:ASN:ND2	2.34	0.60
3:CF:273:SER:OG	4:DF:58:MET:O	2.11	0.60
2:BG:149:PHE:O	2:BG:154:ARG:NH2	2.34	0.60
3:CG:273:SER:OG	4:DG:58:MET:O	2.12	0.60
4:EG:107:ALA:HB2	4:EG:125:ILE:HD12	1.83	0.60
2:BH:106:GLY:O	2:BH:109:THR:OG1	2.17	0.60
2:BH:298:LEU:O	2:BH:302:GLU:HG2	2.02	0.60
2:BJ:106:GLY:N	2:BJ:180:ASN:OD1	2.34	0.60
3:CJ:66:ARG:NE	3:CJ:77:PRO:O	2.34	0.60
3:CK:66:ARG:NE	3:CK:77:PRO:O	2.34	0.60
4:EM:107:ALA:HB2	4:EM:125:ILE:HD12	1.83	0.60
3:CN:253:GLN:OE1	4:FO:131:ARG:NH2	2.34	0.60
4:FO:127:THR:HG23	4:FO:130:GLU:H	1.67	0.60
1:AP:519:GLN:HB2	1:AP:522:ARG:HH21	1.65	0.60
3:CQ:66:ARG:NE	3:CQ:77:PRO:O	2.35	0.60
4:ER:73:MET:SD	4:ER:77:GLU:HG2	2.42	0.60
2:BS:149:PHE:O	2:BS:154:ARG:NH2	2.35	0.60
1:AT:519:GLN:HB2	1:AT:522:ARG:HH21	1.65	0.60
3:CT:253:GLN:OE1	4:FU:131:ARG:NH2	2.35	0.60
4:FW:104:TYR:OH	4:FW:131:ARG:NH1	2.35	0.60
2:BY:149:PHE:O	2:BY:154:ARG:NH2	2.35	0.60
2:B2:218:VAL:HG11	2:B2:229:ILE:HD12	1.84	0.60
4:F3:90:ASP:OD2	4:F3:137:ARG:NE	2.32	0.60
2:B7:298:LEU:O	2:B7:302:GLU:HG2	2.02	0.60
4:D8:101:ILE:HD13	4:E8:60:ILE:HD13	1.84	0.60
3:CB:66:ARG:NE	3:CB:77:PRO:O	2.35	0.60
4:EB:68:LEU:HB3	4:FB:66:VAL:HG13	1.81	0.60
4:FC:100:LEU:HA	4:FC:105:LEU:HA	1.82	0.60
3:CG:300:PRO:HB2	3:CG:321:ILE:HG13	1.84	0.60
2:BH:97:ILE:O	2:BH:101:ARG:NH1	2.35	0.60
1:AI:552:ARG:HA	1:AI:555:MET:HE3	1.83	0.60
2:BI:97:ILE:O	2:BI:101:ARG:NH1	2.35	0.60
2:BJ:106:GLY:O	2:BJ:109:THR:OG1	2.16	0.60
4:FJ:126:ILE:HD11	4:FJ:131:ARG:HH21	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FK:90:ASP:OD2	4:FK:137:ARG:NE	2.30	0.60
4:FM:126:ILE:HD11	4:FM:131:ARG:HH21	1.67	0.60
4:DN:105:LEU:HB3	4:DN:126:ILE:HG21	1.83	0.60
4:EP:107:ALA:HB2	4:EP:125:ILE:HD12	1.83	0.60
3:CS:238:ASN:HD22	3:CT:112:GLY:HA2	1.67	0.60
4:ET:68:LEU:HB3	4:FT:66:VAL:HG13	1.83	0.60
1:AU:519:GLN:HB2	1:AU:522:ARG:HH21	1.65	0.60
3:CY:66:ARG:NE	3:CY:77:PRO:O	2.35	0.60
2:B1:297:ARG:NH2	2:B2:243:ASP:OD2	2.35	0.60
4:F1:90:ASP:OD2	4:F1:137:ARG:NE	2.32	0.60
3:C5:238:ASN:HD22	3:C6:112:GLY:HA2	1.66	0.60
4:FA:70:ARG:NH1	4:FA:98:ASP:OD2	2.35	0.60
3:CB:238:ASN:HD22	3:CC:112:GLY:HA2	1.67	0.60
2:BC:229:ILE:O	2:BC:233:MET:HG2	2.02	0.60
2:BE:46:GLN:NE2	2:BE:47:ILE:O	2.35	0.60
4:FH:127:THR:HG23	4:FH:130:GLU:H	1.67	0.60
2:BM:298:LEU:O	2:BM:302:GLU:HG2	2.02	0.60
4:FO:90:ASP:OD2	4:FO:137:ARG:NE	2.29	0.60
2:BS:110:LEU:HD11	2:BS:121:LEU:HD23	1.84	0.60
3:CS:66:ARG:NE	3:CS:77:PRO:O	2.35	0.60
2:BU:122:ILE:HG22	2:BU:130:ILE:HG12	1.82	0.60
2:BW:4:LEU:HD11	2:BW:47:ILE:HD11	1.82	0.60
2:BX:122:ILE:HG22	2:BX:130:ILE:HG12	1.82	0.60
4:FX:70:ARG:NH1	4:FX:98:ASP:OD2	2.35	0.60
4:FY:70:ARG:NH1	4:FY:98:ASP:OD2	2.35	0.60
3:C3:66:ARG:NE	3:C3:77:PRO:O	2.34	0.60
1:A4:536:ILE:HA	1:A4:539:MET:HE3	1.82	0.60
1:A5:532:MET:SD	2:B5:56:LEU:HD13	2.42	0.60
2:B6:218:VAL:HG11	2:B6:229:ILE:HD12	1.84	0.60
1:A7:519:GLN:HB2	1:A7:522:ARG:HH21	1.65	0.60
3:C9:66:ARG:NE	3:C9:77:PRO:O	2.34	0.60
4:DC:74:THR:N	4:DC:77:GLU:OE2	2.24	0.60
2:BE:298:LEU:O	2:BE:302:GLU:HG2	2.02	0.60
1:AG:551:ILE:HD11	2:BG:29:LEU:HD11	1.82	0.60
4:FK:70:ARG:NH1	4:FK:98:ASP:OD2	2.35	0.60
1:AL:532:MET:SD	2:BL:56:LEU:HD13	2.42	0.60
4:FM:70:ARG:NH1	4:FM:98:ASP:OD2	2.35	0.60
4:DO:105:LEU:O	4:DO:131:ARG:NH2	2.33	0.60
4:EO:107:ALA:HB2	4:EO:125:ILE:HD12	1.83	0.60
2:BU:113:MET:O	2:BU:141:GLN:NE2	2.22	0.60
1:AX:519:GLN:HB2	1:AX:522:ARG:HH21	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BX:298:LEU:O	2:BX:302:GLU:HG2	2.02	0.60
3:CX:238:ASN:HD22	3:CY:112:GLY:HA2	1.66	0.60
3:CY:102:LEU:HD22	3:CY:115:LEU:HD21	1.84	0.60
3:C1:66:ARG:NE	3:C1:77:PRO:O	2.35	0.59
2:B3:298:LEU:O	2:B3:302:GLU:HG2	2.02	0.59
4:E3:68:LEU:HB3	4:F3:66:VAL:HG13	1.83	0.59
2:B4:122:ILE:HG22	2:B4:130:ILE:HG12	1.83	0.59
3:C4:102:LEU:HD22	3:C4:115:LEU:HD21	1.84	0.59
3:C5:273:SER:OG	4:D5:58:MET:O	2.12	0.59
3:C5:302:LEU:HB3	3:C5:320:LEU:HD23	1.83	0.59
3:CA:56:ILE:HD11	3:CB:188:PHE:CD1	2.37	0.59
2:BB:298:LEU:O	2:BB:302:GLU:HG2	2.02	0.59
4:EB:131:ARG:HA	4:EB:134:ARG:NH1	2.17	0.59
2:BD:297:ARG:NH2	2:BE:243:ASP:OD2	2.34	0.59
2:BF:298:LEU:O	2:BF:302:GLU:HG2	2.02	0.59
3:CF:297:ASP:OD2	4:EG:72:ARG:NH2	2.35	0.59
2:BJ:298:LEU:O	2:BJ:302:GLU:HG2	2.02	0.59
4:EL:107:ALA:HB2	4:EL:125:ILE:HD12	1.83	0.59
2:BN:4:LEU:HD11	2:BN:47:ILE:HD11	1.84	0.59
4:FN:70:ARG:NH1	4:FN:98:ASP:OD2	2.35	0.59
2:BR:113:MET:O	2:BR:141:GLN:NE2	2.22	0.59
3:CR:56:ILE:HD11	3:CS:188:PHE:CD1	2.36	0.59
4:FT:127:THR:HG23	4:FT:130:GLU:H	1.67	0.59
3:CV:238:ASN:HD22	3:CW:112:GLY:HA2	1.67	0.59
4:FW:90:ASP:OD2	4:FW:137:ARG:NE	2.30	0.59
2:BX:139:ARG:HD2	2:BY:202:ILE:HA	1.84	0.59
3:CX:102:LEU:HD22	3:CX:115:LEU:HD21	1.84	0.59
4:EY:107:ALA:HB2	4:EY:125:ILE:HD12	1.83	0.59
2:B1:110:LEU:HD11	2:B1:121:LEU:HD23	1.84	0.59
2:B2:149:PHE:O	2:B2:154:ARG:NH2	2.34	0.59
3:C2:66:ARG:NE	3:C2:77:PRO:O	2.34	0.59
2:B3:97:ILE:O	2:B3:100:THR:OG1	2.19	0.59
2:B3:127:PRO:HA	2:B3:130:ILE:HD12	1.85	0.59
2:B4:298:LEU:O	2:B4:302:GLU:HG2	2.02	0.59
1:AA:532:MET:SD	2:BA:56:LEU:HD13	2.43	0.59
2:BB:106:GLY:O	2:BB:109:THR:OG1	2.16	0.59
3:CD:253:GLN:OE1	4:FE:131:ARG:NH2	2.35	0.59
1:AE:532:MET:SD	2:BE:56:LEU:HD13	2.42	0.59
4:FG:100:LEU:HA	4:FG:105:LEU:HA	1.83	0.59
4:EH:68:LEU:HB3	4:FH:66:VAL:HG13	1.83	0.59
3:CJ:253:GLN:NE2	4:FK:126:ILE:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:253:GLN:NE2	4:FM:126:ILE:O	2.35	0.59
3:CO:191:ILE:HG23	3:CO:192:THR:HG23	1.83	0.59
1:AP:552:ARG:HA	1:AP:555:MET:HE3	1.84	0.59
1:AQ:552:ARG:HA	1:AQ:555:MET:HE3	1.85	0.59
2:BQ:295:PRO:HB2	2:BR:330:TYR:HB3	1.84	0.59
2:BQ:298:LEU:O	2:BQ:302:GLU:HG2	2.02	0.59
2:BS:127:PRO:HA	2:BS:130:ILE:HD12	1.84	0.59
4:FV:90:ASP:OD2	4:FV:137:ARG:NE	2.31	0.59
4:FV:99:ILE:HB	4:FV:107:ALA:HB3	1.83	0.59
2:BW:298:LEU:O	2:BW:302:GLU:HG2	2.02	0.59
2:B1:121:LEU:HB2	3:CY:70:PHE:HZ	1.67	0.59
4:E5:68:LEU:HB3	4:F5:66:VAL:HG13	1.83	0.59
2:B9:298:LEU:O	2:B9:302:GLU:HG2	2.02	0.59
4:EB:75:ILE:HA	4:EB:78:LEU:HG	1.84	0.59
4:EJ:107:ALA:HB2	4:EJ:125:ILE:HD12	1.84	0.59
2:BK:218:VAL:HG11	2:BK:229:ILE:HD12	1.85	0.59
1:AL:552:ARG:HA	1:AL:555:MET:HE3	1.85	0.59
3:CL:300:PRO:HB2	3:CL:321:ILE:HG13	1.84	0.59
3:CN:296:VAL:HB	4:FO:60:ILE:HD11	1.84	0.59
2:BO:106:GLY:N	2:BO:180:ASN:OD1	2.35	0.59
3:CP:300:PRO:HB2	3:CP:321:ILE:HG13	1.83	0.59
2:BY:298:LEU:O	2:BY:302:GLU:HG2	2.02	0.59
2:B2:245:ARG:HH21	2:B2:321:MET:HB3	1.65	0.59
3:C2:273:SER:OG	4:D2:58:MET:O	2.12	0.59
4:F2:70:ARG:NH1	4:F2:98:ASP:OD2	2.35	0.59
4:F5:70:ARG:NH1	4:F5:98:ASP:OD2	2.35	0.59
2:B6:298:LEU:O	2:B6:302:GLU:HG2	2.02	0.59
3:C9:258:GLU:O	4:FA:102:ASN:ND2	2.33	0.59
2:BG:46:GLN:NE2	2:BG:47:ILE:O	2.35	0.59
3:CG:253:GLN:OE1	4:FH:131:ARG:NH2	2.35	0.59
4:EK:68:LEU:HB3	4:FK:66:VAL:HG13	1.85	0.59
2:BQ:97:ILE:O	2:BQ:100:THR:OG1	2.19	0.59
4:EQ:64:LEU:HB3	4:FQ:71:THR:HB	1.84	0.59
2:BR:298:LEU:O	2:BR:302:GLU:HG2	2.03	0.59
4:ER:107:ALA:HB2	4:ER:125:ILE:HD12	1.83	0.59
1:AU:532:MET:SD	2:BU:56:LEU:HD13	2.42	0.59
2:BU:298:LEU:O	2:BU:302:GLU:HG2	2.02	0.59
2:BV:68:ALA:O	2:BV:70:ASN:ND2	2.35	0.59
2:BY:97:ILE:O	2:BY:100:THR:OG1	2.20	0.59
2:B2:97:ILE:O	2:B2:100:THR:OG1	2.19	0.59
2:B4:42:ALA:HB2	2:B5:97:ILE:HG23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:70:PHE:HZ	2:B5:121:LEU:HB2	1.68	0.59
3:C9:253:GLN:OE1	4:FA:131:ARG:NH2	2.36	0.59
4:EB:107:ALA:HB2	4:EB:125:ILE:HD12	1.83	0.59
4:DC:105:LEU:HB3	4:DC:126:ILE:HG21	1.83	0.59
4:EG:68:LEU:HB3	4:FG:66:VAL:HG13	1.84	0.59
4:DI:105:LEU:O	4:DI:131:ARG:NH2	2.33	0.59
1:AJ:548:ALA:HA	2:BJ:25:VAL:HG13	1.85	0.59
2:BK:298:LEU:O	2:BK:302:GLU:HG2	2.02	0.59
4:FL:90:ASP:OD2	4:FL:137:ARG:NE	2.32	0.59
3:CO:70:PHE:HZ	2:BP:121:LEU:HB2	1.67	0.59
2:BQ:106:GLY:O	2:BQ:109:THR:OG1	2.16	0.59
4:FQ:127:THR:HG23	4:FQ:130:GLU:H	1.67	0.59
4:FU:90:ASP:OD2	4:FU:137:ARG:NE	2.30	0.59
4:FU:127:THR:HG23	4:FU:130:GLU:H	1.66	0.59
3:C1:238:ASN:HD22	3:C2:112:GLY:HA2	1.67	0.59
4:F4:90:ASP:OD2	4:F4:137:ARG:NE	2.33	0.59
2:B7:9:LYS:HA	2:B7:12:ILE:HD12	1.83	0.59
2:B9:11:VAL:HG13	2:B9:41:MET:HB3	1.85	0.59
3:C9:102:LEU:HD22	3:C9:115:LEU:HD21	1.85	0.59
4:F9:99:ILE:HB	4:F9:107:ALA:HB3	1.84	0.59
2:BA:106:GLY:O	2:BA:109:THR:OG1	2.16	0.59
3:CA:66:ARG:NE	3:CA:77:PRO:O	2.35	0.59
4:ED:107:ALA:HB2	4:ED:125:ILE:HD12	1.84	0.59
4:EG:131:ARG:HA	4:EG:134:ARG:NH1	2.18	0.59
1:AM:532:MET:SD	2:BM:56:LEU:HD13	2.42	0.59
3:CQ:258:GLU:O	4:FR:102:ASN:ND2	2.33	0.59
1:AS:532:MET:SD	2:BS:56:LEU:HD13	2.42	0.59
2:BS:158:MET:SD	2:BT:214:VAL:HG13	2.42	0.59
3:CS:70:PHE:HZ	2:BT:121:LEU:HB2	1.68	0.59
4:ET:121:ARG:NH1	4:FT:85:SER:O	2.32	0.59
3:CU:70:PHE:HZ	2:BV:121:LEU:HB2	1.68	0.59
2:BV:149:PHE:O	2:BV:154:ARG:NH2	2.36	0.59
3:CV:102:LEU:HD22	3:CV:115:LEU:HD21	1.83	0.59
4:EV:68:LEU:HB3	4:FV:66:VAL:HG13	1.85	0.59
3:CX:70:PHE:HZ	2:BY:121:LEU:HB2	1.68	0.59
1:A2:532:MET:SD	2:B2:56:LEU:HD13	2.43	0.59
2:B6:4:LEU:HD11	2:B6:47:ILE:HD11	1.83	0.59
3:C6:256:HIS:HB2	4:F7:104:TYR:CZ	2.38	0.59
4:E6:68:LEU:HB3	4:F6:66:VAL:HG13	1.82	0.59
2:BC:127:PRO:HA	2:BC:130:ILE:HD12	1.85	0.59
3:CD:274:GLN:O	3:CD:278:LEU:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CE:102:LEU:HD22	3:CE:115:LEU:HD21	1.84	0.59
2:BJ:41:MET:HE2	2:BK:77:LEU:HD22	1.84	0.59
1:AK:532:MET:SD	2:BK:56:LEU:HD13	2.43	0.59
2:BK:97:ILE:O	2:BK:100:THR:OG1	2.20	0.59
2:BL:149:PHE:O	2:BL:154:ARG:NH2	2.35	0.59
3:CR:238:ASN:HD22	3:CS:112:GLY:HA2	1.66	0.59
2:BT:46:GLN:HG3	2:BU:70:ASN:HD22	1.67	0.59
2:BT:297:ARG:CZ	2:BU:328:ASP:HB3	2.32	0.59
2:BW:97:ILE:O	2:BW:100:THR:OG1	2.20	0.59
3:CW:70:PHE:HZ	2:BX:121:LEU:HB2	1.68	0.59
3:CX:302:LEU:HB3	3:CX:320:LEU:HD23	1.83	0.59
2:B2:298:LEU:O	2:B2:302:GLU:HG2	2.02	0.59
3:C2:70:PHE:HZ	2:B3:121:LEU:HB2	1.68	0.59
4:F3:104:TYR:OH	4:F3:131:ARG:NH1	2.35	0.59
4:E4:107:ALA:HB2	4:E4:125:ILE:HD12	1.83	0.59
1:A9:551:ILE:HD11	2:B9:29:LEU:HD11	1.85	0.59
2:B9:97:ILE:O	2:B9:100:THR:OG1	2.20	0.59
1:AC:534:GLN:HG3	1:AC:537:ARG:HH21	1.68	0.59
3:CC:297:ASP:OD2	4:ED:72:ARG:NH2	2.35	0.59
4:EF:68:LEU:HB3	4:FF:66:VAL:HG13	1.85	0.59
2:BG:298:LEU:O	2:BG:302:GLU:HG2	2.02	0.59
3:CI:66:ARG:NE	3:CI:77:PRO:O	2.35	0.59
3:CI:253:GLN:NE2	4:FJ:126:ILE:O	2.35	0.59
3:CK:253:GLN:NE2	4:FL:126:ILE:O	2.35	0.59
2:BM:68:ALA:O	2:BM:70:ASN:ND2	2.35	0.59
2:BP:106:GLY:N	2:BP:180:ASN:OD1	2.36	0.59
4:DR:131:ARG:NH1	4:ER:59:ASP:OD2	2.35	0.59
4:FR:104:TYR:OH	4:FR:131:ARG:NH1	2.35	0.59
4:FR:127:THR:HG23	4:FR:130:GLU:H	1.68	0.59
2:BV:298:LEU:O	2:BV:302:GLU:HG2	2.02	0.59
3:CV:274:GLN:O	3:CV:278:LEU:HB2	2.02	0.59
1:AW:532:MET:SD	2:BW:56:LEU:HD13	2.42	0.59
2:BW:218:VAL:HG11	2:BW:229:ILE:HD12	1.83	0.59
1:AX:532:MET:SD	2:BX:56:LEU:HD13	2.42	0.59
4:E2:68:LEU:HB3	4:F2:66:VAL:HG13	1.84	0.59
2:B3:218:VAL:HG11	2:B3:229:ILE:HD12	1.84	0.59
1:AB:534:GLN:HG3	1:AB:537:ARG:HH21	1.67	0.59
3:CD:102:LEU:HD22	3:CD:115:LEU:HD21	1.85	0.59
4:EE:64:LEU:HB3	4:FE:71:THR:HB	1.84	0.59
4:EE:121:ARG:NH1	4:FE:85:SER:O	2.30	0.59
1:AG:532:MET:SD	2:BG:56:LEU:HD13	2.43	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:238:ASN:HD22	3:CI:112:GLY:HA2	1.68	0.59
4:FI:90:ASP:OD2	4:FI:137:ARG:NE	2.33	0.59
1:AO:532:MET:SD	2:BO:56:LEU:HD13	2.42	0.59
2:BO:41:MET:HE1	2:BP:77:LEU:HB2	1.85	0.59
3:CO:238:ASN:HD22	3:CP:112:GLY:HA2	1.68	0.59
2:BP:149:PHE:O	2:BP:154:ARG:NH2	2.35	0.59
3:CT:302:LEU:HB3	3:CT:320:LEU:HD23	1.84	0.59
4:FT:70:ARG:NH1	4:FT:98:ASP:OD2	2.36	0.59
2:BV:46:GLN:NE2	2:BW:68:ALA:O	2.29	0.59
2:BW:127:PRO:HA	2:BW:130:ILE:HD12	1.85	0.59
2:B1:298:LEU:O	2:B1:302:GLU:HG2	2.01	0.59
1:A4:532:MET:SD	2:B4:56:LEU:HD13	2.43	0.59
2:B4:207:LYS:HE3	2:B4:209:GLN:H	1.68	0.59
3:C4:299:VAL:HG22	4:F4:132:MET:HE2	1.84	0.59
2:B5:43:ASN:O	2:B5:45:ARG:NH1	2.36	0.59
3:C7:283:VAL:HG21	4:D7:114:VAL:HG21	1.85	0.59
4:F9:70:ARG:NH1	4:F9:98:ASP:OD2	2.36	0.59
4:EA:107:ALA:HB2	4:EA:125:ILE:HD12	1.83	0.59
3:CE:274:GLN:O	3:CE:278:LEU:HB2	2.03	0.59
1:AF:532:MET:SD	2:BF:56:LEU:HD13	2.42	0.59
2:BF:97:ILE:O	2:BF:100:THR:OG1	2.21	0.59
3:CG:70:PHE:HZ	2:BH:121:LEU:HB2	1.68	0.59
4:FJ:70:ARG:NH1	4:FJ:98:ASP:OD2	2.36	0.59
1:AK:534:GLN:HG3	1:AK:537:ARG:HH21	1.68	0.59
3:CN:191:ILE:HG23	3:CN:192:THR:HG23	1.84	0.59
2:BS:245:ARG:HH21	2:BS:321:MET:HB3	1.67	0.59
3:CW:302:LEU:HB3	3:CW:320:LEU:HD23	1.83	0.59
4:DX:105:LEU:HB3	4:DX:126:ILE:HG21	1.84	0.59
4:F1:99:ILE:HB	4:F1:107:ALA:HB3	1.84	0.58
2:B4:74:ASN:HB3	2:B4:78:ARG:HH12	1.68	0.58
2:B5:201:GLU:HA	2:B5:204:ASN:HD22	1.68	0.58
2:B5:298:LEU:O	2:B5:302:GLU:HG2	2.02	0.58
2:B6:207:LYS:HE3	2:B6:209:GLN:H	1.68	0.58
3:C9:253:GLN:NE2	4:FA:126:ILE:O	2.36	0.58
4:FB:127:THR:HG23	4:FB:130:GLU:H	1.68	0.58
4:EC:107:ALA:HB2	4:EC:125:ILE:HD12	1.84	0.58
3:CE:255:GLN:HB3	4:DE:76:LYS:HG3	1.84	0.58
4:DG:105:LEU:O	4:DG:131:ARG:NH2	2.32	0.58
2:BP:46:GLN:NE2	2:BP:47:ILE:O	2.35	0.58
3:CP:70:PHE:HZ	2:BQ:121:LEU:HB2	1.68	0.58
4:DP:131:ARG:NH1	4:EP:59:ASP:OD2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CQ:253:GLN:OE1	4:FR:131:ARG:NH2	2.36	0.58
4:DQ:105:LEU:O	4:DQ:131:ARG:NH2	2.36	0.58
3:CR:70:PHE:HZ	2:BS:121:LEU:HB2	1.67	0.58
3:CS:273:SER:OG	4:DS:58:MET:O	2.12	0.58
4:FS:90:ASP:OD2	4:FS:137:ARG:NE	2.31	0.58
4:EV:107:ALA:HB2	4:EV:125:ILE:HD12	1.84	0.58
2:BW:43:ASN:O	2:BW:45:ARG:NH1	2.35	0.58
4:EX:68:LEU:HB3	4:FX:66:VAL:HG13	1.85	0.58
2:BY:218:VAL:HG11	2:BY:229:ILE:HD12	1.85	0.58
3:C1:70:PHE:HZ	2:B2:121:LEU:HB2	1.68	0.58
2:B7:52:LEU:HD13	2:B8:69:LEU:HD21	1.83	0.58
2:BA:298:LEU:O	2:BA:302:GLU:HG2	2.02	0.58
3:CC:102:LEU:HD22	3:CC:115:LEU:HD21	1.85	0.58
3:CC:273:SER:OG	4:DC:58:MET:O	2.11	0.58
2:BE:97:ILE:O	2:BE:100:THR:OG1	2.21	0.58
3:CE:273:SER:OG	4:DE:58:MET:O	2.16	0.58
3:CF:102:LEU:HD22	3:CF:115:LEU:HD21	1.85	0.58
2:BG:14:LEU:HD13	2:BG:17:ILE:HD11	1.84	0.58
3:CI:302:LEU:HB3	3:CI:320:LEU:HD23	1.84	0.58
1:AN:532:MET:SD	2:BN:56:LEU:HD13	2.43	0.58
4:EN:64:LEU:HB3	4:FN:71:THR:HB	1.85	0.58
4:EO:77:GLU:HA	4:EO:80:ARG:HB2	1.84	0.58
4:ER:64:LEU:HB3	4:FR:71:THR:HB	1.85	0.58
2:BS:111:ASN:HD21	2:BS:138:LYS:HB2	1.68	0.58
4:E2:121:ARG:NH1	4:F2:85:SER:O	2.32	0.58
4:D3:105:LEU:O	4:D3:131:ARG:NH2	2.33	0.58
4:E4:68:LEU:HB3	4:F4:66:VAL:HG13	1.84	0.58
2:B6:149:PHE:O	2:B6:154:ARG:NH2	2.37	0.58
2:B7:97:ILE:O	2:B7:100:THR:OG1	2.19	0.58
3:C7:302:LEU:HB3	3:C7:320:LEU:HD23	1.85	0.58
4:E7:68:LEU:HB3	4:F7:66:VAL:HG13	1.84	0.58
4:E7:107:ALA:HB2	4:E7:125:ILE:HD12	1.84	0.58
3:C8:70:PHE:HZ	2:B9:121:LEU:HB2	1.69	0.58
3:C8:102:LEU:HD22	3:C8:115:LEU:HD21	1.86	0.58
2:B9:46:GLN:HB2	1:AA:549:LEU:HD13	1.85	0.58
2:B9:68:ALA:O	2:B9:70:ASN:ND2	2.36	0.58
2:B9:149:PHE:O	2:B9:154:ARG:NH2	2.36	0.58
1:AB:532:MET:SD	2:BB:56:LEU:HD13	2.43	0.58
4:EC:64:LEU:HB3	4:FC:71:THR:HB	1.85	0.58
4:ED:68:LEU:HB3	4:FD:66:VAL:HG13	1.85	0.58
3:CH:102:LEU:HD22	3:CH:115:LEU:HD21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:532:MET:SD	2:BI:56:LEU:HD13	2.43	0.58
4:EJ:68:LEU:HB3	4:FJ:66:VAL:HG13	1.86	0.58
1:AM:536:ILE:HA	1:AM:539:MET:HE3	1.84	0.58
3:CP:238:ASN:HD22	3:CQ:112:GLY:HA2	1.67	0.58
2:BS:18:GLY:O	2:BT:76:TYR:OH	2.22	0.58
2:BT:97:ILE:O	2:BT:100:THR:OG1	2.19	0.58
2:BT:110:LEU:HD11	2:BT:121:LEU:HD23	1.85	0.58
3:CU:238:ASN:HD22	3:CV:112:GLY:HA2	1.67	0.58
4:EU:64:LEU:HB3	4:FU:71:THR:HB	1.85	0.58
4:EW:64:LEU:HB3	4:FW:71:THR:HB	1.85	0.58
4:F1:127:THR:HG23	4:F1:130:GLU:H	1.68	0.58
1:A2:552:ARG:HA	1:A2:555:MET:HE3	1.85	0.58
1:A5:534:GLN:HG3	1:A5:537:ARG:HH21	1.67	0.58
4:F7:127:THR:HG23	4:F7:130:GLU:H	1.67	0.58
4:FA:127:THR:HG23	4:FA:130:GLU:H	1.67	0.58
1:AB:552:ARG:HA	1:AB:555:MET:HE3	1.85	0.58
3:CE:299:VAL:HA	4:FE:132:MET:HE2	1.85	0.58
3:CI:70:PHE:HZ	2:BJ:121:LEU:HB2	1.68	0.58
3:CM:70:PHE:HZ	2:BN:121:LEU:HB2	1.68	0.58
3:CN:297:ASP:OD2	4:EO:72:ARG:NH2	2.35	0.58
4:FN:127:THR:HG23	4:FN:130:GLU:H	1.68	0.58
2:BO:106:GLY:O	2:BO:109:THR:OG1	2.18	0.58
4:EV:64:LEU:HB3	4:FV:71:THR:HB	1.85	0.58
3:CY:302:LEU:HB3	3:CY:320:LEU:HD23	1.84	0.58
4:D4:105:LEU:HB3	4:D4:126:ILE:HG21	1.85	0.58
2:B6:127:PRO:HA	2:B6:130:ILE:HD12	1.86	0.58
4:F8:96:PRO:HB2	4:F8:108:GLN:HB3	1.86	0.58
2:B9:106:GLY:O	2:B9:109:THR:OG1	2.16	0.58
1:AA:534:GLN:HG3	1:AA:537:ARG:HH21	1.67	0.58
2:BA:97:ILE:O	2:BA:100:THR:OG1	2.21	0.58
3:CA:300:PRO:HB2	3:CA:321:ILE:HG13	1.85	0.58
4:FC:127:THR:HG23	4:FC:130:GLU:H	1.67	0.58
4:EH:107:ALA:HB2	4:EH:125:ILE:HD12	1.84	0.58
3:CI:273:SER:OG	4:DI:58:MET:O	2.12	0.58
3:CJ:102:LEU:HD22	3:CJ:115:LEU:HD21	1.85	0.58
2:BK:110:LEU:HD11	2:BK:121:LEU:HD23	1.86	0.58
3:CK:70:PHE:HZ	2:BL:121:LEU:HB2	1.68	0.58
4:FK:126:ILE:HD11	4:FK:131:ARG:HH21	1.68	0.58
2:BL:97:ILE:O	2:BL:101:ARG:NH1	2.37	0.58
4:FO:104:TYR:OH	4:FO:131:ARG:NH1	2.37	0.58
1:AQ:551:ILE:HD11	2:BQ:29:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BQ:218:VAL:HG11	2:BQ:229:ILE:HD12	1.84	0.58
4:ES:64:LEU:HB3	4:FS:71:THR:HB	1.85	0.58
4:ET:64:LEU:HB3	4:FT:71:THR:HB	1.85	0.58
2:BV:106:GLY:N	2:BV:180:ASN:OD1	2.34	0.58
3:CV:297:ASP:OD2	4:EW:72:ARG:NH2	2.36	0.58
4:F1:70:ARG:NH1	4:F1:98:ASP:OD2	2.36	0.58
4:E2:64:LEU:HB3	4:F2:71:THR:HB	1.85	0.58
4:F4:104:TYR:OH	4:F4:131:ARG:NH1	2.37	0.58
4:D5:101:ILE:HD13	4:E5:60:ILE:HD13	1.85	0.58
3:CA:70:PHE:HZ	2:BB:121:LEU:HB2	1.69	0.58
3:CC:256:HIS:HB2	4:FD:104:TYR:CZ	2.38	0.58
2:BD:149:PHE:O	2:BD:154:ARG:NH2	2.37	0.58
1:AE:552:ARG:HA	1:AE:555:MET:HE3	1.84	0.58
2:BF:149:PHE:O	2:BF:154:ARG:NH2	2.37	0.58
1:AK:552:ARG:HA	1:AK:555:MET:HE3	1.86	0.58
2:BK:298:LEU:HD11	2:BL:329:THR:HB	1.86	0.58
4:FL:99:ILE:HB	4:FL:107:ALA:HB3	1.85	0.58
4:EN:73:MET:SD	4:EN:77:GLU:HG2	2.43	0.58
3:CO:273:SER:OG	4:DO:58:MET:O	2.15	0.58
4:EO:75:ILE:HG13	4:FO:58:MET:HG2	1.85	0.58
1:AP:532:MET:SD	2:BP:56:LEU:HD13	2.43	0.58
4:FQ:70:ARG:NH1	4:FQ:98:ASP:OD2	2.37	0.58
2:BU:106:GLY:N	2:BU:180:ASN:OD1	2.37	0.58
2:BU:149:PHE:O	2:BU:154:ARG:NH2	2.36	0.58
3:CU:102:LEU:HD22	3:CU:115:LEU:HD21	1.84	0.58
2:BX:149:PHE:O	2:BX:154:ARG:NH2	2.36	0.58
3:CX:101:ASN:OD1	3:CX:103:ASN:ND2	2.36	0.58
3:C1:112:GLY:HA2	3:CY:238:ASN:HD22	1.68	0.58
3:C1:255:GLN:HB3	4:D1:76:LYS:HG3	1.84	0.58
4:D1:101:ILE:HD13	4:E1:60:ILE:HD13	1.86	0.58
3:C2:102:LEU:HD22	3:C2:115:LEU:HD21	1.85	0.58
3:C3:70:PHE:HZ	2:B4:121:LEU:HB2	1.69	0.58
3:C6:70:PHE:HZ	2:B7:121:LEU:HB2	1.69	0.58
2:B7:111:ASN:HD21	2:B7:138:LYS:HB2	1.69	0.58
4:EA:68:LEU:HB3	4:FA:66:VAL:HG13	1.84	0.58
4:EB:121:ARG:NH1	4:FB:85:SER:O	2.31	0.58
3:CE:70:PHE:HZ	2:BF:121:LEU:HB2	1.68	0.58
3:CP:101:ASN:OD1	3:CP:103:ASN:ND2	2.37	0.58
2:BR:106:GLY:O	2:BR:109:THR:OG1	2.16	0.58
4:FU:70:ARG:NH1	4:FU:98:ASP:OD2	2.37	0.58
4:FU:104:TYR:OH	4:FU:131:ARG:NH1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:70:ASN:HD22	2:BY:46:GLN:HG3	1.69	0.58
3:C2:302:LEU:HB3	3:C2:320:LEU:HD23	1.84	0.58
1:A3:534:GLN:HG3	1:A3:537:ARG:HH21	1.69	0.58
3:C5:70:PHE:HZ	2:B6:121:LEU:HB2	1.69	0.58
3:C5:283:VAL:HG21	4:D5:114:VAL:HG21	1.86	0.58
2:B6:42:ALA:HB2	2:B7:97:ILE:HG23	1.86	0.58
2:B7:149:PHE:O	2:B7:154:ARG:NH2	2.37	0.58
3:C9:283:VAL:HG21	4:D9:114:VAL:HG21	1.86	0.58
3:C9:302:LEU:HB3	3:C9:320:LEU:HD23	1.85	0.58
1:AD:551:ILE:HD11	2:BD:29:LEU:HD11	1.86	0.58
2:BD:111:ASN:HD21	2:BD:138:LYS:HB2	1.69	0.58
1:AF:552:ARG:HA	1:AF:555:MET:HE3	1.85	0.58
2:BF:110:LEU:HD11	2:BF:121:LEU:HD23	1.86	0.58
2:BF:111:ASN:HD21	2:BF:138:LYS:HB2	1.69	0.58
2:BH:149:PHE:O	2:BH:154:ARG:NH2	2.37	0.58
4:DH:105:LEU:O	4:DH:131:ARG:NH2	2.33	0.58
4:DM:105:LEU:HB3	4:DM:126:ILE:HG21	1.85	0.58
2:BN:158:MET:HE1	2:BO:217:ALA:HB3	1.86	0.58
4:EP:64:LEU:HB3	4:FP:71:THR:HB	1.85	0.58
2:BR:110:LEU:HD11	2:BR:121:LEU:HD23	1.86	0.58
3:CR:302:LEU:HB3	3:CR:320:LEU:HD23	1.85	0.58
4:DR:74:THR:N	4:DR:77:GLU:OE2	2.24	0.58
3:CS:302:LEU:HB3	3:CS:320:LEU:HD23	1.85	0.58
3:CT:238:ASN:HD22	3:CU:112:GLY:HA2	1.67	0.58
1:AU:534:GLN:HG3	1:AU:537:ARG:HH21	1.69	0.58
3:CV:70:PHE:HZ	2:BW:121:LEU:HB2	1.68	0.58
2:BX:110:LEU:HD11	2:BX:121:LEU:HD23	1.86	0.58
4:FX:90:ASP:OD2	4:FX:137:ARG:NE	2.33	0.58
2:B2:42:ALA:HB2	2:B3:97:ILE:HG23	1.85	0.58
4:F3:70:ARG:NH1	4:F3:98:ASP:OD2	2.36	0.58
3:C5:102:LEU:HD22	3:C5:115:LEU:HD21	1.86	0.58
3:C6:102:LEU:HD22	3:C6:115:LEU:HD21	1.86	0.58
2:B8:43:ASN:O	2:B8:45:ARG:NH1	2.36	0.58
2:BD:46:GLN:NE2	2:BE:68:ALA:O	2.33	0.58
2:BG:97:ILE:O	2:BG:101:ARG:NH1	2.37	0.58
4:DL:131:ARG:NH1	4:EL:59:ASP:OD2	2.37	0.58
4:EL:68:LEU:HB3	4:FL:66:VAL:HG13	1.86	0.58
3:CN:300:PRO:HB2	3:CN:321:ILE:HG13	1.86	0.58
4:FP:70:ARG:NH1	4:FP:98:ASP:OD2	2.37	0.58
1:AR:552:ARG:HA	1:AR:555:MET:HE3	1.85	0.58
3:CT:70:PHE:HZ	2:BU:121:LEU:HB2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BU:43:ASN:O	2:BU:45:ARG:NH1	2.36	0.58
2:BV:14:LEU:O	2:BW:76:TYR:OH	2.15	0.58
2:BX:41:MET:HA	2:BX:44:VAL:HB	1.86	0.58
3:C3:102:LEU:HD22	3:C3:115:LEU:HD21	1.86	0.58
4:F4:70:ARG:NH1	4:F4:98:ASP:OD2	2.36	0.58
3:CA:102:LEU:HD22	3:CA:115:LEU:HD21	1.86	0.58
4:FB:70:ARG:NH1	4:FB:98:ASP:OD2	2.37	0.58
2:BE:218:VAL:HG11	2:BE:229:ILE:HD12	1.86	0.58
3:CJ:70:PHE:HZ	2:BK:121:LEU:HB2	1.69	0.58
3:CL:70:PHE:HZ	2:BM:121:LEU:HB2	1.68	0.58
3:CO:302:LEU:HB3	3:CO:320:LEU:HD23	1.85	0.58
2:BQ:139:ARG:NH1	2:BR:198:THR:O	2.37	0.58
2:BR:149:PHE:O	2:BR:154:ARG:NH2	2.37	0.58
2:BS:106:GLY:N	2:BS:180:ASN:OD1	2.37	0.58
2:BW:229:ILE:O	2:BW:233:MET:HG2	2.03	0.58
4:EX:64:LEU:HB3	4:FX:71:THR:HB	1.85	0.58
3:C1:233:ASN:C	3:C1:235:PRO:HD3	2.25	0.57
3:C1:273:SER:OG	4:D1:58:MET:O	2.12	0.57
4:E1:68:LEU:HB3	4:F1:66:VAL:HG13	1.85	0.57
3:C2:101:ASN:OD1	3:C2:103:ASN:ND2	2.37	0.57
2:B9:246:SER:OG	2:B9:321:MET:HG3	2.04	0.57
2:BA:149:PHE:O	2:BA:154:ARG:NH2	2.37	0.57
4:FA:126:ILE:HD11	4:FA:131:ARG:HH21	1.69	0.57
2:BB:149:PHE:O	2:BB:154:ARG:NH2	2.36	0.57
2:BB:158:MET:HE1	2:BC:214:VAL:HA	1.85	0.57
3:CB:102:LEU:HD22	3:CB:115:LEU:HD21	1.86	0.57
2:BE:106:GLY:N	2:BE:180:ASN:OD1	2.36	0.57
2:BE:106:GLY:O	2:BE:109:THR:OG1	2.19	0.57
4:EE:121:ARG:HH22	4:FE:86:VAL:HA	1.69	0.57
4:FE:99:ILE:HB	4:FE:107:ALA:HB3	1.85	0.57
3:CF:70:PHE:HZ	2:BG:121:LEU:HB2	1.68	0.57
4:FJ:132:MET:HE3	4:FJ:135:LEU:HB3	1.85	0.57
4:FK:104:TYR:OH	4:FK:131:ARG:NH1	2.37	0.57
4:FL:70:ARG:NH1	4:FL:98:ASP:OD2	2.37	0.57
2:BM:110:LEU:HD11	2:BM:121:LEU:HD23	1.86	0.57
3:CN:273:SER:OG	4:DN:58:MET:O	2.14	0.57
4:FQ:90:ASP:OD2	4:FQ:137:ARG:NE	2.32	0.57
3:CR:101:ASN:OD1	3:CR:103:ASN:ND2	2.37	0.57
4:ER:121:ARG:HH22	4:FR:86:VAL:HA	1.69	0.57
2:BS:106:GLY:O	2:BS:109:THR:OG1	2.16	0.57
4:ES:107:ALA:HB2	4:ES:125:ILE:HD12	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CW:102:LEU:HD22	3:CW:115:LEU:HD21	1.85	0.57
3:CX:106:HIS:CD2	3:CX:113:THR:HG22	2.39	0.57
2:B1:149:PHE:O	2:B1:154:ARG:NH2	2.37	0.57
3:C2:233:ASN:C	3:C2:235:PRO:HD3	2.25	0.57
2:B4:149:PHE:O	2:B4:154:ARG:NH2	2.37	0.57
4:F5:104:TYR:OH	4:F5:131:ARG:NH1	2.36	0.57
4:F9:104:TYR:OH	4:F9:131:ARG:NH1	2.37	0.57
2:BA:110:LEU:HD11	2:BA:121:LEU:HD23	1.85	0.57
4:FB:104:TYR:OH	4:FB:131:ARG:NH1	2.37	0.57
1:AD:552:ARG:HA	1:AD:555:MET:HE3	1.85	0.57
2:BI:149:PHE:O	2:BI:154:ARG:NH2	2.36	0.57
4:FI:70:ARG:NH1	4:FI:98:ASP:OD2	2.37	0.57
2:BJ:111:ASN:HD21	2:BJ:138:LYS:HB2	1.69	0.57
4:FJ:99:ILE:HB	4:FJ:107:ALA:HB3	1.84	0.57
3:CK:258:GLU:O	4:FL:102:ASN:ND2	2.33	0.57
3:CN:70:PHE:HZ	2:BO:121:LEU:HB2	1.69	0.57
3:CQ:70:PHE:HZ	2:BR:121:LEU:HB2	1.69	0.57
3:CQ:273:SER:OG	4:DQ:58:MET:O	2.15	0.57
4:EQ:121:ARG:NH1	4:FQ:85:SER:O	2.31	0.57
4:FS:104:TYR:OH	4:FS:131:ARG:NH1	2.37	0.57
2:BT:41:MET:HA	2:BT:44:VAL:HB	1.85	0.57
2:BU:97:ILE:O	2:BU:101:ARG:NH1	2.37	0.57
3:CW:233:ASN:C	3:CW:235:PRO:HD3	2.25	0.57
2:BX:69:LEU:HG	2:BX:70:ASN:H	1.67	0.57
3:CX:233:ASN:C	3:CX:235:PRO:HD3	2.25	0.57
4:FX:104:TYR:OH	4:FX:131:ARG:NH1	2.37	0.57
3:CY:233:ASN:C	3:CY:235:PRO:HD3	2.25	0.57
4:E4:121:ARG:HH22	4:F4:86:VAL:HA	1.69	0.57
3:C6:297:ASP:OD2	4:E7:72:ARG:NH2	2.37	0.57
2:B8:46:GLN:NE2	2:B8:47:ILE:O	2.37	0.57
4:E9:68:LEU:HB3	4:F9:66:VAL:HG13	1.85	0.57
4:F9:127:THR:HG23	4:F9:130:GLU:H	1.69	0.57
2:BB:46:GLN:NE2	2:BB:47:ILE:O	2.37	0.57
4:ED:64:LEU:HB3	4:FD:71:THR:HB	1.85	0.57
2:BI:4:LEU:HD11	2:BI:47:ILE:HD11	1.87	0.57
4:FI:104:TYR:OH	4:FI:131:ARG:NH1	2.38	0.57
2:BN:110:LEU:HD11	2:BN:121:LEU:HD23	1.86	0.57
1:AO:552:ARG:HA	1:AO:555:MET:HE3	1.85	0.57
2:BR:229:ILE:O	2:BR:233:MET:HG2	2.04	0.57
3:CS:253:GLN:OE1	4:FT:131:ARG:NH2	2.37	0.57
4:ES:75:ILE:HA	4:ES:78:LEU:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BT:210:GLN:O	2:BT:214:VAL:HG23	2.03	0.57
2:BU:41:MET:HA	2:BU:44:VAL:HB	1.85	0.57
2:BY:246:SER:OG	2:BY:321:MET:HG3	2.04	0.57
4:EY:64:LEU:HB3	4:FY:71:THR:HB	1.86	0.57
2:B2:111:ASN:HD21	2:B2:138:LYS:HB2	1.69	0.57
3:C3:233:ASN:C	3:C3:235:PRO:HD3	2.25	0.57
4:E4:64:LEU:HB3	4:F4:71:THR:HB	1.86	0.57
4:F4:127:THR:HG23	4:F4:130:GLU:H	1.68	0.57
2:B7:106:GLY:O	2:B7:109:THR:OG1	2.16	0.57
3:C7:70:PHE:HZ	2:B8:121:LEU:HB2	1.69	0.57
2:B8:52:LEU:HD13	2:B9:69:LEU:HD11	1.85	0.57
2:BC:110:LEU:HD11	2:BC:121:LEU:HD23	1.85	0.57
4:EC:68:LEU:HB3	4:FC:66:VAL:HG13	1.85	0.57
3:CD:273:SER:OG	4:DD:58:MET:O	2.12	0.57
1:AE:534:GLN:HG3	1:AE:537:ARG:HH21	1.70	0.57
4:EG:64:LEU:HB3	4:FG:71:THR:HB	1.85	0.57
2:BH:9:LYS:O	2:BH:13:LEU:HG	2.05	0.57
4:DI:101:ILE:HD13	4:EI:60:ILE:HD13	1.87	0.57
4:DL:105:LEU:O	4:DL:131:ARG:NH2	2.32	0.57
4:EL:121:ARG:NH1	4:FL:85:SER:O	2.32	0.57
4:EM:64:LEU:HB3	4:FM:71:THR:HB	1.85	0.57
4:FO:70:ARG:NH1	4:FO:98:ASP:OD2	2.37	0.57
3:CR:233:ASN:C	3:CR:235:PRO:HD3	2.25	0.57
2:BU:42:ALA:HB2	2:BV:97:ILE:HG23	1.85	0.57
3:CV:233:ASN:C	3:CV:235:PRO:HD3	2.25	0.57
3:CW:101:ASN:OD1	3:CW:103:ASN:ND2	2.37	0.57
4:FW:70:ARG:NH1	4:FW:98:ASP:OD2	2.37	0.57
4:FY:99:ILE:HB	4:FY:107:ALA:HB3	1.85	0.57
3:C4:233:ASN:C	3:C4:235:PRO:HD3	2.25	0.57
2:B5:41:MET:HE1	2:B6:77:LEU:HB2	1.85	0.57
4:F8:127:THR:HG23	4:F8:130:GLU:H	1.69	0.57
4:E9:64:LEU:HB3	4:F9:71:THR:HB	1.86	0.57
4:FA:104:TYR:OH	4:FA:131:ARG:NH1	2.37	0.57
2:BE:9:LYS:O	2:BE:13:LEU:HG	2.05	0.57
4:DE:105:LEU:HB3	4:DE:126:ILE:HG21	1.87	0.57
2:BI:253:GLU:OE1	2:BI:314:ARG:NH2	2.38	0.57
3:CJ:297:ASP:OD2	4:EK:72:ARG:NH2	2.37	0.57
4:EK:64:LEU:HB3	4:FK:71:THR:HB	1.85	0.57
3:CM:253:GLN:NE2	4:FN:126:ILE:O	2.37	0.57
3:CR:191:ILE:HG23	3:CR:192:THR:HG23	1.86	0.57
1:AW:534:GLN:HG3	1:AW:537:ARG:HH21	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BX:111:ASN:HD21	2:BX:138:LYS:HB2	1.69	0.57
4:F3:127:THR:HG23	4:F3:130:GLU:H	1.69	0.57
3:C5:233:ASN:C	3:C5:235:PRO:HD3	2.25	0.57
2:B6:111:ASN:HD21	2:B6:138:LYS:HB2	1.68	0.57
2:B6:253:GLU:OE1	2:B6:314:ARG:NH2	2.37	0.57
1:A7:552:ARG:HA	1:A7:555:MET:HE3	1.85	0.57
4:E8:64:LEU:HB3	4:F8:71:THR:HB	1.85	0.57
1:AA:552:ARG:HA	1:AA:555:MET:HE3	1.87	0.57
2:BC:149:PHE:O	2:BC:154:ARG:NH2	2.37	0.57
3:CC:70:PHE:HZ	2:BD:121:LEU:HB2	1.69	0.57
1:AF:534:GLN:HG3	1:AF:537:ARG:HH21	1.70	0.57
3:CF:233:ASN:C	3:CF:235:PRO:HD3	2.25	0.57
3:CG:297:ASP:OD2	4:EH:72:ARG:NH2	2.37	0.57
2:BH:246:SER:OG	2:BH:321:MET:HG3	2.05	0.57
4:EH:64:LEU:HB3	4:FH:71:THR:HB	1.86	0.57
3:CJ:253:GLN:OE1	4:FK:131:ARG:NH2	2.38	0.57
4:EJ:64:LEU:HB3	4:FJ:71:THR:HB	1.86	0.57
2:BM:106:GLY:O	2:BM:109:THR:OG1	2.19	0.57
2:BN:111:ASN:HD21	2:BN:138:LYS:HB2	1.70	0.57
2:BO:149:PHE:O	2:BO:154:ARG:NH2	2.37	0.57
2:BQ:207:LYS:HE3	2:BQ:209:GLN:H	1.69	0.57
4:EQ:121:ARG:HH22	4:FQ:86:VAL:HA	1.70	0.57
3:CT:233:ASN:C	3:CT:235:PRO:HD3	2.25	0.57
3:CU:233:ASN:C	3:CU:235:PRO:HD3	2.25	0.57
2:B1:41:MET:HE1	2:B2:77:LEU:HB2	1.87	0.57
3:C1:102:LEU:HD22	3:C1:115:LEU:HD21	1.86	0.57
3:C1:302:LEU:HB3	3:C1:320:LEU:HD23	1.85	0.57
3:C5:256:HIS:HB2	4:F6:104:TYR:CZ	2.39	0.57
4:E5:64:LEU:HB3	4:F5:71:THR:HB	1.85	0.57
4:F5:127:THR:HG23	4:F5:130:GLU:H	1.69	0.57
4:F6:96:PRO:HB2	4:F6:108:GLN:HB3	1.86	0.57
2:B8:106:GLY:O	2:B8:109:THR:OG1	2.17	0.57
2:B8:149:PHE:O	2:B8:154:ARG:NH2	2.38	0.57
2:B9:46:GLN:NE2	2:BA:68:ALA:O	2.34	0.57
2:BA:42:ALA:HB2	2:BB:97:ILE:HG23	1.86	0.57
3:CA:233:ASN:C	3:CA:235:PRO:HD3	2.24	0.57
4:EB:128:PRO:HG3	4:EB:131:ARG:HH21	1.69	0.57
2:BC:42:ALA:HB2	2:BD:97:ILE:HG23	1.86	0.57
4:DC:105:LEU:O	4:DC:131:ARG:NH2	2.33	0.57
2:BE:42:ALA:HB2	2:BF:97:ILE:HG23	1.86	0.57
4:FE:70:ARG:NH1	4:FE:98:ASP:OD2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DF:105:LEU:HB3	4:DF:126:ILE:HG21	1.87	0.57
3:CG:233:ASN:C	3:CG:235:PRO:HD3	2.25	0.57
2:BI:43:ASN:O	2:BI:45:ARG:NH1	2.36	0.57
2:BI:127:PRO:HA	2:BI:130:ILE:HD12	1.86	0.57
4:FI:127:THR:HG23	4:FI:130:GLU:H	1.69	0.57
4:DJ:105:LEU:HB3	4:DJ:126:ILE:HG21	1.87	0.57
4:FM:104:TYR:OH	4:FM:131:ARG:NH1	2.38	0.57
4:EN:77:GLU:HA	4:EN:80:ARG:HB2	1.85	0.57
2:BP:106:GLY:O	2:BP:109:THR:OG1	2.19	0.57
1:AR:534:GLN:HG3	1:AR:537:ARG:HH21	1.70	0.57
2:BT:106:GLY:O	2:BT:109:THR:OG1	2.16	0.57
4:FT:134:ARG:HA	4:FT:137:ARG:HH12	1.70	0.57
2:BW:207:LYS:HE3	2:BW:209:GLN:H	1.70	0.57
3:C6:233:ASN:C	3:C6:235:PRO:HD3	2.25	0.57
2:B7:46:GLN:HE22	2:B8:69:LEU:HB2	1.70	0.57
3:C7:233:ASN:C	3:C7:235:PRO:HD3	2.25	0.57
2:BA:167:VAL:HG23	3:CA:131:PHE:HA	1.85	0.57
3:CC:283:VAL:HG21	4:DC:114:VAL:HG21	1.87	0.57
4:FG:132:MET:HE3	4:FG:135:LEU:HB3	1.86	0.57
4:FI:99:ILE:HB	4:FI:107:ALA:HB3	1.86	0.57
1:AM:534:GLN:HG3	1:AM:537:ARG:HH21	1.70	0.57
4:EP:75:ILE:HB	4:EP:76:LYS:NZ	2.20	0.57
3:CS:233:ASN:C	3:CS:235:PRO:HD3	2.25	0.57
4:EY:68:LEU:HB3	4:FY:66:VAL:HG13	1.85	0.57
2:B2:41:MET:HE2	2:B3:77:LEU:HB2	1.87	0.57
4:D2:105:LEU:HB3	4:D2:126:ILE:HG21	1.86	0.57
4:F6:132:MET:SD	4:F6:135:LEU:HB3	2.44	0.57
2:BA:135:VAL:HG11	2:BB:194:GLY:HA3	1.87	0.57
1:AB:551:ILE:HD11	2:BB:29:LEU:HD11	1.87	0.57
1:AF:547:VAL:HG13	2:BF:25:VAL:HG22	1.87	0.57
3:CI:102:LEU:HD22	3:CI:115:LEU:HD21	1.86	0.57
2:BL:110:LEU:HD11	2:BL:121:LEU:HD23	1.87	0.57
3:CL:102:LEU:HD22	3:CL:115:LEU:HD21	1.85	0.57
2:BM:149:PHE:O	2:BM:154:ARG:NH2	2.37	0.57
2:BM:229:ILE:O	2:BM:233:MET:HG2	2.04	0.57
2:BO:229:ILE:O	2:BO:233:MET:HG2	2.03	0.57
2:BP:167:VAL:HG23	3:CP:131:PHE:HA	1.87	0.57
4:EP:74:THR:HG22	4:EP:75:ILE:H	1.70	0.57
3:CQ:101:ASN:OD1	3:CQ:103:ASN:ND2	2.38	0.57
4:DS:105:LEU:HB3	4:DS:126:ILE:HG21	1.85	0.57
4:FS:127:THR:HG23	4:FS:130:GLU:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ET:121:ARG:HH22	4:FT:86:VAL:HA	1.70	0.57
4:FW:127:THR:HG23	4:FW:130:GLU:H	1.70	0.57
3:C1:299:VAL:HG22	4:F1:132:MET:HE3	1.85	0.57
4:D8:105:LEU:HB3	4:D8:126:ILE:HG21	1.86	0.57
1:A9:552:ARG:HA	1:A9:555:MET:HE3	1.87	0.57
4:D9:105:LEU:HB3	4:D9:126:ILE:HG21	1.87	0.57
2:BA:106:GLY:N	2:BA:180:ASN:OD1	2.38	0.57
2:BA:157:VAL:O	2:BA:161:ILE:HG12	2.05	0.57
3:CA:78:ASP:OD1	3:CA:207:GLU:HB3	2.05	0.57
3:CB:256:HIS:HB2	4:FC:104:TYR:CZ	2.40	0.57
2:BE:149:PHE:O	2:BE:154:ARG:NH2	2.38	0.57
2:BL:78:ARG:HA	2:BL:94:LEU:HD11	1.87	0.57
4:EU:121:ARG:NH1	4:FU:85:SER:O	2.33	0.57
4:DV:105:LEU:O	4:DV:131:ARG:NH2	2.37	0.57
1:AW:552:ARG:HA	1:AW:555:MET:HE3	1.87	0.57
4:FX:99:ILE:HB	4:FX:107:ALA:HB3	1.85	0.57
4:FY:127:THR:HG23	4:FY:130:GLU:H	1.70	0.57
2:B1:161:ILE:HG22	2:B2:199:ALA:HB2	1.87	0.56
2:B6:110:LEU:HD11	2:B6:121:LEU:HD23	1.86	0.56
4:E6:64:LEU:HB3	4:F6:71:THR:HB	1.86	0.56
2:B7:46:GLN:NE2	2:B7:47:ILE:O	2.38	0.56
3:C7:102:LEU:HD22	3:C7:115:LEU:HD21	1.87	0.56
3:CB:78:ASP:OD1	3:CB:207:GLU:HB3	2.05	0.56
2:BC:9:LYS:O	2:BC:13:LEU:HG	2.05	0.56
4:EC:121:ARG:HH22	4:FC:86:VAL:HA	1.70	0.56
2:BE:110:LEU:HD11	2:BE:121:LEU:HD23	1.87	0.56
3:CI:299:VAL:HG22	4:FI:132:MET:HE2	1.86	0.56
1:AO:534:GLN:HG3	1:AO:537:ARG:HH21	1.70	0.56
2:BO:218:VAL:HG11	2:BO:229:ILE:HD12	1.86	0.56
2:BP:218:VAL:HG11	2:BP:229:ILE:HD12	1.87	0.56
4:DQ:74:THR:N	4:DQ:77:GLU:OE2	2.23	0.56
3:CR:256:HIS:HB2	4:FS:104:TYR:CE2	2.39	0.56
2:BT:127:PRO:HA	2:BT:130:ILE:HD12	1.87	0.56
3:C1:283:VAL:HG21	4:D1:114:VAL:HG21	1.87	0.56
2:B2:43:ASN:O	2:B2:45:ARG:NH1	2.38	0.56
4:D3:105:LEU:HB3	4:D3:126:ILE:HG21	1.86	0.56
4:E3:121:ARG:NH1	4:F3:85:SER:O	2.33	0.56
4:F5:99:ILE:HB	4:F5:107:ALA:HB3	1.85	0.56
3:C6:283:VAL:HG21	4:D6:114:VAL:HG21	1.87	0.56
4:D8:105:LEU:O	4:D8:131:ARG:NH2	2.33	0.56
4:E9:121:ARG:NH1	4:F9:85:SER:O	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EA:121:ARG:HH22	4:FA:86:VAL:HA	1.69	0.56
3:CB:70:PHE:HZ	2:BC:121:LEU:HB2	1.69	0.56
3:CB:233:ASN:C	3:CB:235:PRO:HD3	2.25	0.56
4:EB:73:MET:SD	4:EB:78:LEU:HD23	2.45	0.56
3:CG:78:ASP:OD1	3:CG:207:GLU:HB3	2.05	0.56
2:BK:207:LYS:HE3	2:BK:209:GLN:H	1.71	0.56
1:AN:552:ARG:HA	1:AN:555:MET:HE3	1.86	0.56
3:CN:233:ASN:C	3:CN:235:PRO:HD3	2.25	0.56
3:CO:101:ASN:OD1	3:CO:103:ASN:ND2	2.38	0.56
3:CO:233:ASN:C	3:CO:235:PRO:HD3	2.25	0.56
4:EO:73:MET:SD	4:EO:77:GLU:HG2	2.46	0.56
4:EP:121:ARG:HH22	4:FP:86:VAL:HA	1.70	0.56
2:BQ:253:GLU:OE1	2:BQ:314:ARG:NH2	2.37	0.56
3:CQ:283:VAL:HG21	4:DQ:114:VAL:HG21	1.86	0.56
2:BT:43:ASN:O	2:BT:45:ARG:NH1	2.36	0.56
2:BT:149:PHE:O	2:BT:154:ARG:NH2	2.38	0.56
3:CU:274:GLN:O	3:CU:278:LEU:HB2	2.05	0.56
4:FY:104:TYR:OH	4:FY:131:ARG:NH1	2.39	0.56
2:B1:78:ARG:HA	2:B1:94:LEU:HD11	1.87	0.56
4:E1:64:LEU:HB3	4:F1:71:THR:HB	1.87	0.56
4:E1:121:ARG:HH22	4:F1:86:VAL:HA	1.70	0.56
2:B2:110:LEU:HD11	2:B2:121:LEU:HD23	1.87	0.56
2:B2:143:ALA:HB1	2:B3:206:MET:HG3	1.86	0.56
4:F2:105:LEU:HD22	4:F2:126:ILE:HD13	1.87	0.56
3:C3:283:VAL:HG21	4:D3:114:VAL:HG21	1.88	0.56
3:C4:283:VAL:HG21	4:D4:114:VAL:HG21	1.87	0.56
4:F4:99:ILE:HB	4:F4:107:ALA:HB3	1.87	0.56
2:B6:97:ILE:O	2:B6:100:THR:OG1	2.24	0.56
4:D6:74:THR:N	4:D6:77:GLU:OE2	2.25	0.56
2:B7:157:VAL:O	2:B7:161:ILE:HG12	2.05	0.56
4:D7:131:ARG:NH1	4:E7:59:ASP:OD2	2.38	0.56
3:C8:233:ASN:C	3:C8:235:PRO:HD3	2.25	0.56
2:B9:218:VAL:HG11	2:B9:229:ILE:HD12	1.88	0.56
3:C9:297:ASP:OD2	4:EA:72:ARG:NH2	2.38	0.56
4:DB:105:LEU:HB3	4:DB:126:ILE:HG21	1.87	0.56
4:EB:64:LEU:HB3	4:FB:71:THR:HB	1.86	0.56
3:CC:78:ASP:OD1	3:CC:207:GLU:HB3	2.05	0.56
3:CC:233:ASN:C	3:CC:235:PRO:HD3	2.25	0.56
3:CC:302:LEU:HB3	3:CC:320:LEU:HD23	1.87	0.56
4:FC:68:LEU:HA	4:FC:97:LEU:HD23	1.87	0.56
3:CD:70:PHE:HZ	2:BE:121:LEU:HB2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DD:131:ARG:NH1	4:ED:59:ASP:OD2	2.39	0.56
3:CE:233:ASN:C	3:CE:235:PRO:HD3	2.25	0.56
3:CE:283:VAL:HG21	4:DE:114:VAL:HG21	1.87	0.56
4:FF:126:ILE:HD11	4:FF:131:ARG:HH21	1.70	0.56
2:BH:4:LEU:HD11	2:BH:47:ILE:HD11	1.87	0.56
3:CH:70:PHE:HZ	2:BI:121:LEU:HB2	1.69	0.56
3:CH:233:ASN:C	3:CH:235:PRO:HD3	2.25	0.56
3:CI:78:ASP:OD1	3:CI:207:GLU:HB3	2.05	0.56
3:CI:283:VAL:HG21	4:DI:114:VAL:HG21	1.87	0.56
4:EI:121:ARG:HH22	4:FI:86:VAL:HA	1.69	0.56
3:CK:297:ASP:OD2	4:EL:72:ARG:NH2	2.38	0.56
3:CL:233:ASN:C	3:CL:235:PRO:HD3	2.25	0.56
3:CL:253:GLN:OE1	4:FM:131:ARG:NH2	2.37	0.56
4:EL:64:LEU:HB3	4:FL:71:THR:HB	1.85	0.56
2:BM:167:VAL:HG23	3:CM:131:PHE:HA	1.86	0.56
4:FM:99:ILE:HB	4:FM:107:ALA:HB3	1.86	0.56
2:BO:46:GLN:NE2	2:BO:47:ILE:O	2.38	0.56
2:BP:245:ARG:HH12	2:BP:249:ARG:HB2	1.70	0.56
2:BP:298:LEU:O	2:BP:302:GLU:HG2	2.04	0.56
3:CP:106:HIS:CD2	3:CP:113:THR:HG22	2.41	0.56
3:CP:233:ASN:C	3:CP:235:PRO:HD3	2.25	0.56
3:CR:258:GLU:O	4:FS:102:ASN:ND2	2.36	0.56
3:CR:260:GLU:OE1	4:DR:72:ARG:NH2	2.39	0.56
4:DR:105:LEU:HB3	4:DR:126:ILE:HG21	1.87	0.56
1:AT:552:ARG:HA	1:AT:555:MET:HE3	1.86	0.56
3:CT:102:LEU:HD22	3:CT:115:LEU:HD21	1.86	0.56
3:CU:249:ASN:HB3	4:FV:125:ILE:HD13	1.87	0.56
2:BV:111:ASN:HD21	2:BV:138:LYS:HB2	1.70	0.56
2:BX:97:ILE:O	2:BX:100:THR:OG1	2.23	0.56
4:DX:105:LEU:O	4:DX:131:ARG:NH2	2.32	0.56
3:C1:101:ASN:OD1	3:C1:103:ASN:ND2	2.38	0.56
2:B4:253:GLU:OE1	2:B4:314:ARG:NH2	2.39	0.56
3:C4:78:ASP:OD1	3:C4:207:GLU:HB3	2.05	0.56
4:D7:105:LEU:O	4:D7:131:ARG:NH2	2.33	0.56
3:CA:101:ASN:OD1	3:CA:103:ASN:ND2	2.37	0.56
3:CA:256:HIS:HB2	4:FB:104:TYR:CE2	2.41	0.56
4:EA:64:LEU:HB3	4:FA:71:THR:HB	1.85	0.56
2:BB:110:LEU:HD11	2:BB:121:LEU:HD23	1.86	0.56
2:BB:111:ASN:HD21	2:BB:138:LYS:HB2	1.71	0.56
4:FB:70:ARG:HH21	4:FB:137:ARG:HH22	1.53	0.56
3:CF:283:VAL:HG21	4:DF:114:VAL:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:64:LEU:HB3	4:FF:71:THR:HB	1.85	0.56
4:EI:90:ASP:O	4:FI:117:LYS:NZ	2.38	0.56
2:BJ:167:VAL:HG23	3:CJ:131:PHE:HA	1.86	0.56
3:CJ:233:ASN:C	3:CJ:235:PRO:HD3	2.25	0.56
2:BK:229:ILE:O	2:BK:233:MET:HG2	2.05	0.56
3:CK:233:ASN:C	3:CK:235:PRO:HD3	2.25	0.56
4:EL:121:ARG:HH22	4:FL:86:VAL:HA	1.70	0.56
1:AN:534:GLN:HG3	1:AN:537:ARG:HH21	1.71	0.56
1:AO:536:ILE:HA	1:AO:539:MET:HE3	1.88	0.56
2:BQ:246:SER:OG	2:BQ:321:MET:HG3	2.05	0.56
3:CQ:233:ASN:C	3:CQ:235:PRO:HD3	2.25	0.56
3:CR:274:GLN:O	3:CR:278:LEU:HB2	2.05	0.56
4:ER:77:GLU:HA	4:ER:80:ARG:HB2	1.86	0.56
4:E3:64:LEU:HB3	4:F3:71:THR:HB	1.87	0.56
2:B4:111:ASN:HD21	2:B4:138:LYS:HB2	1.70	0.56
2:B4:155:HIS:O	2:B4:158:MET:HG2	2.05	0.56
4:D5:105:LEU:HB3	4:D5:126:ILE:HG21	1.87	0.56
2:B6:43:ASN:O	2:B6:45:ARG:NH1	2.37	0.56
1:A7:532:MET:SD	2:B7:56:LEU:HD13	2.46	0.56
3:C7:246:TRP:HZ2	4:F8:122:ILE:HD12	1.71	0.56
2:B8:97:ILE:O	2:B8:100:THR:OG1	2.24	0.56
4:F8:70:ARG:NH1	4:F8:98:ASP:OD2	2.38	0.56
4:F8:99:ILE:HB	4:F8:107:ALA:HB3	1.88	0.56
2:BA:43:ASN:O	2:BA:45:ARG:NH1	2.38	0.56
4:EB:90:ASP:O	4:FB:117:LYS:NZ	2.38	0.56
2:BC:111:ASN:HD21	2:BC:138:LYS:HB2	1.69	0.56
2:BD:110:LEU:HD11	2:BD:121:LEU:HD23	1.87	0.56
4:ED:121:ARG:NH1	4:FD:85:SER:O	2.33	0.56
4:FF:127:THR:HG23	4:FF:130:GLU:H	1.69	0.56
2:BG:110:LEU:HD11	2:BG:121:LEU:HD23	1.87	0.56
2:BG:297:ARG:NH1	2:BH:329:THR:O	2.39	0.56
3:CG:106:HIS:CD2	3:CG:113:THR:HG22	2.39	0.56
3:CG:256:HIS:HB2	4:FH:104:TYR:CE2	2.41	0.56
2:BH:85:LEU:HB3	2:BH:89:ARG:HB2	1.88	0.56
3:CH:78:ASP:OD1	3:CH:207:GLU:HB3	2.06	0.56
2:BI:110:LEU:HD11	2:BI:121:LEU:HD23	1.86	0.56
3:CI:101:ASN:OD1	3:CI:103:ASN:ND2	2.38	0.56
2:BL:42:ALA:HB1	2:BM:101:ARG:HH22	1.70	0.56
3:CM:283:VAL:HG21	4:DM:114:VAL:HG21	1.86	0.56
2:BP:97:ILE:O	2:BP:100:THR:OG1	2.22	0.56
4:ES:121:ARG:HH22	4:FS:86:VAL:HA	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:78:ASP:OD1	3:CT:207:GLU:HB3	2.05	0.56
3:CT:256:HIS:HB2	4:FU:104:TYR:CE2	2.40	0.56
4:EV:121:ARG:HH22	4:FV:86:VAL:HA	1.69	0.56
4:DW:105:LEU:HB3	4:DW:126:ILE:HG21	1.87	0.56
3:CX:283:VAL:HG21	4:DX:114:VAL:HG21	1.87	0.56
2:B2:4:LEU:HD11	2:B2:47:ILE:HD11	1.86	0.56
2:B2:229:ILE:O	2:B2:233:MET:HG2	2.06	0.56
3:C4:256:HIS:HB2	4:F5:104:TYR:CE2	2.41	0.56
3:C5:78:ASP:OD1	3:C5:207:GLU:HB3	2.05	0.56
4:E8:121:ARG:NH1	4:F8:85:SER:O	2.31	0.56
3:C9:70:PHE:HZ	2:BA:121:LEU:HB2	1.69	0.56
3:C9:256:HIS:HB2	4:FA:104:TYR:CE2	2.41	0.56
4:FB:99:ILE:HB	4:FB:107:ALA:HB3	1.87	0.56
3:CD:238:ASN:HD22	3:CE:112:GLY:HA2	1.69	0.56
4:EF:90:ASP:O	4:FF:117:LYS:NZ	2.38	0.56
4:DJ:101:ILE:HD13	4:EJ:60:ILE:HD13	1.88	0.56
4:EM:121:ARG:NH1	4:FM:85:SER:O	2.31	0.56
4:EM:121:ARG:HH22	4:FM:86:VAL:HA	1.70	0.56
3:CP:297:ASP:OD2	4:EQ:72:ARG:NH2	2.37	0.56
4:FQ:99:ILE:HB	4:FQ:107:ALA:HB3	1.86	0.56
3:CT:297:ASP:OD2	4:EU:72:ARG:NH2	2.38	0.56
1:AY:536:ILE:HA	1:AY:539:MET:HE3	1.86	0.56
2:BY:9:LYS:O	2:BY:13:LEU:HG	2.05	0.56
3:C2:283:VAL:HG21	4:D2:114:VAL:HG21	1.88	0.56
1:A4:551:ILE:HD11	2:B4:29:LEU:HD11	1.88	0.56
4:E7:64:LEU:HB3	4:F7:71:THR:HB	1.86	0.56
2:B8:111:ASN:HD21	2:B8:138:LYS:HB2	1.69	0.56
2:B8:253:GLU:OE1	2:B8:314:ARG:NH2	2.38	0.56
3:C9:233:ASN:C	3:C9:235:PRO:HD3	2.25	0.56
4:DA:101:ILE:HD13	4:EA:60:ILE:HD13	1.88	0.56
3:CB:283:VAL:HG21	4:DB:114:VAL:HG21	1.88	0.56
4:EB:121:ARG:HH22	4:FB:86:VAL:HA	1.71	0.56
4:EB:130:GLU:HB2	4:EB:133:ARG:HE	1.70	0.56
4:DC:131:ARG:NH1	4:EC:59:ASP:OD2	2.38	0.56
3:CE:297:ASP:OD2	4:EF:72:ARG:NH2	2.38	0.56
4:DE:132:MET:HE1	4:EF:131:ARG:HD2	1.88	0.56
2:BI:106:GLY:N	2:BI:180:ASN:OD1	2.39	0.56
2:BK:106:GLY:N	2:BK:180:ASN:OD1	2.38	0.56
3:CM:102:LEU:HD22	3:CM:115:LEU:HD21	1.86	0.56
4:EN:74:THR:HG22	4:EN:75:ILE:H	1.71	0.56
4:FN:99:ILE:HB	4:FN:107:ALA:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:97:ILE:O	2:BO:101:ARG:NH1	2.39	0.56
3:CP:78:ASP:OD1	3:CP:207:GLU:HB3	2.05	0.56
3:CQ:102:LEU:HD22	3:CQ:115:LEU:HD21	1.87	0.56
2:BR:167:VAL:HG23	3:CR:131:PHE:HA	1.88	0.56
3:CR:78:ASP:OD1	3:CR:207:GLU:HB3	2.05	0.56
3:CS:256:HIS:HB2	4:FT:104:TYR:CE2	2.41	0.56
4:FS:99:ILE:HB	4:FS:107:ALA:HB3	1.87	0.56
4:F2:127:THR:HG23	4:F2:130:GLU:H	1.69	0.56
2:B5:106:GLY:O	2:B5:109:THR:OG1	2.17	0.56
4:D6:101:ILE:HD13	4:E6:60:ILE:HD13	1.88	0.56
4:F6:127:THR:HG23	4:F6:130:GLU:H	1.71	0.56
3:C9:78:ASP:OD1	3:C9:207:GLU:HB3	2.06	0.56
4:DA:105:LEU:O	4:DA:131:ARG:NH2	2.33	0.56
4:EA:121:ARG:NH1	4:FA:85:SER:O	2.31	0.56
4:FC:96:PRO:HB2	4:FC:108:GLN:HB3	1.87	0.56
4:DF:101:ILE:HD13	4:EF:60:ILE:HD13	1.88	0.56
2:BH:110:LEU:HD11	2:BH:121:LEU:HD23	1.87	0.56
3:CH:283:VAL:HG21	4:DH:114:VAL:HG21	1.87	0.56
4:FH:126:ILE:HD11	4:FH:131:ARG:HH21	1.71	0.56
3:CI:233:ASN:C	3:CI:235:PRO:HD3	2.25	0.56
4:DJ:105:LEU:O	4:DJ:131:ARG:NH2	2.37	0.56
4:FJ:133:ARG:HH12	4:FJ:137:ARG:HH11	1.54	0.56
2:BN:149:PHE:O	2:BN:154:ARG:NH2	2.38	0.56
2:BQ:229:ILE:O	2:BQ:233:MET:HG2	2.06	0.56
2:BQ:245:ARG:HH12	2:BQ:249:ARG:HB2	1.71	0.56
4:FR:90:ASP:OD2	4:FR:137:ARG:NE	2.34	0.56
3:CS:101:ASN:OD1	3:CS:103:ASN:ND2	2.38	0.56
3:CS:102:LEU:HD22	3:CS:115:LEU:HD21	1.87	0.56
4:DU:105:LEU:O	4:DU:131:ARG:NH2	2.37	0.56
3:CV:78:ASP:OD1	3:CV:207:GLU:HB3	2.05	0.56
3:CV:283:VAL:HG21	4:DV:114:VAL:HG21	1.87	0.56
4:E2:121:ARG:HH22	4:F2:86:VAL:HA	1.70	0.56
2:B3:106:GLY:N	2:B3:180:ASN:OD1	2.39	0.56
3:C3:78:ASP:OD1	3:C3:207:GLU:HB3	2.05	0.56
2:B4:229:ILE:O	2:B4:233:MET:HG2	2.06	0.56
2:B8:41:MET:HA	2:B8:44:VAL:HB	1.88	0.56
4:D9:131:ARG:NH1	4:E9:59:ASP:OD2	2.39	0.56
3:CA:273:SER:OG	4:DA:58:MET:O	2.12	0.56
4:FD:96:PRO:HB2	4:FD:108:GLN:HB3	1.87	0.56
3:CF:78:ASP:OD1	3:CF:207:GLU:HB3	2.05	0.56
4:EG:130:GLU:HB2	4:EG:133:ARG:HE	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:534:GLN:HG3	1:AI:537:ARG:HH21	1.70	0.56
2:BK:127:PRO:HA	2:BK:130:ILE:HD12	1.87	0.56
3:CK:191:ILE:HG23	3:CK:192:THR:HG23	1.88	0.56
4:DK:105:LEU:O	4:DK:131:ARG:NH2	2.38	0.56
4:EM:77:GLU:HA	4:EM:80:ARG:HB2	1.87	0.56
4:EM:132:MET:N	4:EM:132:MET:SD	2.79	0.56
2:BN:155:HIS:O	2:BN:158:MET:HG2	2.06	0.56
2:BN:167:VAL:HG23	3:CN:131:PHE:HA	1.87	0.56
3:CO:78:ASP:OD1	3:CO:207:GLU:HB3	2.05	0.56
3:CS:78:ASP:OD1	3:CS:207:GLU:HB3	2.05	0.56
2:BU:106:GLY:O	2:BU:109:THR:OG1	2.17	0.56
3:CU:302:LEU:HB3	3:CU:320:LEU:HD23	1.88	0.56
2:BW:139:ARG:HG3	2:BX:201:GLU:OE1	2.06	0.56
3:CX:78:ASP:OD1	3:CX:207:GLU:HB3	2.05	0.56
2:BY:106:GLY:N	2:BY:180:ASN:OD1	2.39	0.56
2:B1:218:VAL:HG11	2:B1:229:ILE:HD12	1.88	0.56
4:D1:105:LEU:O	4:D1:131:ARG:NH2	2.34	0.56
2:B6:9:LYS:O	2:B6:13:LEU:HG	2.05	0.56
3:C6:78:ASP:OD1	3:C6:207:GLU:HB3	2.05	0.56
4:D6:105:LEU:O	4:D6:131:ARG:NH2	2.32	0.56
2:B7:110:LEU:HD11	2:B7:121:LEU:HD23	1.87	0.56
2:B7:167:VAL:HG23	3:C7:131:PHE:HA	1.88	0.56
2:B8:42:ALA:HB2	2:B9:97:ILE:HG23	1.88	0.56
3:C8:78:ASP:OD1	3:C8:207:GLU:HB3	2.05	0.56
3:C8:258:GLU:O	4:F9:102:ASN:ND2	2.33	0.56
2:B9:167:VAL:HG23	3:C9:131:PHE:HA	1.88	0.56
4:F9:132:MET:SD	4:F9:135:LEU:HB3	2.46	0.56
3:CD:78:ASP:OD1	3:CD:207:GLU:HB3	2.05	0.56
4:ED:121:ARG:HH22	4:FD:86:VAL:HA	1.71	0.56
3:CH:256:HIS:HB2	4:FI:104:TYR:CE2	2.41	0.56
4:FK:133:ARG:HH12	4:FK:137:ARG:HH11	1.54	0.56
3:CM:256:HIS:HB2	4:FN:104:TYR:CE2	2.41	0.56
1:AN:551:ILE:HD11	2:BN:29:LEU:HD11	1.87	0.56
1:AO:551:ILE:HD11	2:BO:29:LEU:HD11	1.86	0.56
3:CQ:78:ASP:OD1	3:CQ:207:GLU:HB3	2.06	0.56
3:CU:78:ASP:OD1	3:CU:207:GLU:HB3	2.05	0.56
3:CW:78:ASP:OD1	3:CW:207:GLU:HB3	2.05	0.56
3:CX:274:GLN:HA	3:CX:277:LYS:HE3	1.88	0.56
4:EY:121:ARG:HH22	4:FY:86:VAL:HA	1.71	0.56
3:C4:274:GLN:HA	3:C4:277:LYS:HE3	1.88	0.55
2:B6:106:GLY:O	2:B6:109:THR:OG1	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:245:ARG:HH21	2:B6:321:MET:HB3	1.70	0.55
4:D6:105:LEU:HB3	4:D6:126:ILE:HG21	1.87	0.55
4:F6:70:ARG:HH21	4:F6:137:ARG:HH22	1.54	0.55
2:B7:106:GLY:N	2:B7:180:ASN:OD1	2.39	0.55
4:E8:121:ARG:HH22	4:F8:86:VAL:HA	1.70	0.55
2:B9:110:LEU:HD11	2:B9:121:LEU:HD23	1.88	0.55
3:CA:283:VAL:HG21	4:DA:114:VAL:HG21	1.88	0.55
2:BD:41:MET:SD	2:BE:77:LEU:HD22	2.47	0.55
3:CD:233:ASN:C	3:CD:235:PRO:HD3	2.25	0.55
3:CD:302:LEU:HB3	3:CD:320:LEU:HD23	1.87	0.55
3:CG:101:ASN:OD1	3:CG:103:ASN:ND2	2.39	0.55
4:DH:105:LEU:HB3	4:DH:126:ILE:HG21	1.87	0.55
3:CJ:78:ASP:OD1	3:CJ:207:GLU:HB3	2.06	0.55
3:CJ:283:VAL:HG21	4:DJ:114:VAL:HG21	1.87	0.55
4:EK:121:ARG:HH22	4:FK:86:VAL:HA	1.71	0.55
3:CN:78:ASP:OD1	3:CN:207:GLU:HB3	2.05	0.55
3:CQ:256:HIS:HB2	4:FR:104:TYR:CE2	2.41	0.55
4:ER:74:THR:HG22	4:ER:75:ILE:H	1.70	0.55
3:CT:101:ASN:OD1	3:CT:103:ASN:ND2	2.39	0.55
3:CT:283:VAL:HG21	4:DT:114:VAL:HG21	1.87	0.55
2:BW:9:LYS:O	2:BW:13:LEU:HG	2.06	0.55
2:BW:106:GLY:O	2:BW:109:THR:OG1	2.16	0.55
3:CW:256:HIS:HB2	4:FX:104:TYR:CE2	2.42	0.55
4:EW:121:ARG:NH1	4:FW:85:SER:O	2.32	0.55
1:AX:551:ILE:HD11	2:BX:29:LEU:HD11	1.88	0.55
4:FX:132:MET:SD	4:FX:135:LEU:HB3	2.46	0.55
2:B1:97:ILE:HG23	2:BY:42:ALA:HB2	1.89	0.55
2:B3:106:GLY:O	2:B3:109:THR:OG1	2.15	0.55
1:A7:534:GLN:HG3	1:A7:537:ARG:HH21	1.71	0.55
4:E7:121:ARG:NH1	4:F7:85:SER:O	2.31	0.55
3:C9:101:ASN:OD1	3:C9:103:ASN:ND2	2.38	0.55
1:AG:552:ARG:HA	1:AG:555:MET:HE3	1.88	0.55
2:BJ:110:LEU:HD11	2:BJ:121:LEU:HD23	1.88	0.55
2:BK:9:LYS:O	2:BK:13:LEU:HG	2.06	0.55
3:CK:101:ASN:OD1	3:CK:103:ASN:ND2	2.39	0.55
3:CM:233:ASN:C	3:CM:235:PRO:HD3	2.25	0.55
4:FN:133:ARG:HH12	4:FN:137:ARG:HH11	1.52	0.55
2:BQ:9:LYS:O	2:BQ:13:LEU:HG	2.07	0.55
4:ER:75:ILE:HB	4:ER:76:LYS:NZ	2.21	0.55
3:CU:106:HIS:HD2	3:CU:113:THR:HG22	1.72	0.55
3:CU:274:GLN:HA	3:CU:277:LYS:HE3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EW:121:ARG:HH22	4:FW:86:VAL:HA	1.71	0.55
4:FW:132:MET:SD	4:FW:135:LEU:HB3	2.46	0.55
1:AY:534:GLN:HG3	1:AY:537:ARG:HH21	1.71	0.55
4:E3:121:ARG:HH22	4:F3:86:VAL:HA	1.71	0.55
2:B5:9:LYS:O	2:B5:13:LEU:HG	2.07	0.55
2:B7:229:ILE:O	2:B7:233:MET:HG2	2.05	0.55
3:C8:101:ASN:OD1	3:C8:103:ASN:ND2	2.38	0.55
2:B9:106:GLY:N	2:B9:180:ASN:OD1	2.39	0.55
2:B9:111:ASN:HD21	2:B9:138:LYS:HB2	1.70	0.55
4:EB:77:GLU:HA	4:EB:80:ARG:HB2	1.89	0.55
4:FB:134:ARG:HA	4:FB:137:ARG:HH12	1.71	0.55
2:BC:4:LEU:HD11	2:BC:47:ILE:HD11	1.87	0.55
3:CE:78:ASP:OD1	3:CE:207:GLU:HB3	2.05	0.55
3:CE:101:ASN:OD1	3:CE:103:ASN:ND2	2.39	0.55
3:CG:222:SER:HA	3:CG:225:GLU:HG2	1.89	0.55
4:EH:76:LYS:HZ3	4:FH:59:ASP:HA	1.71	0.55
3:CI:253:GLN:OE1	4:FJ:131:ARG:NH2	2.39	0.55
3:CI:297:ASP:OD2	4:EJ:72:ARG:NH2	2.39	0.55
1:AJ:534:GLN:HG3	1:AJ:537:ARG:HH21	1.72	0.55
3:CJ:101:ASN:OD1	3:CJ:103:ASN:ND2	2.39	0.55
2:BL:106:GLY:N	2:BL:180:ASN:OD1	2.40	0.55
2:BM:106:GLY:N	2:BM:180:ASN:OD1	2.39	0.55
2:BN:245:ARG:HH12	2:BN:249:ARG:HB2	1.70	0.55
3:CQ:191:ILE:HG23	3:CQ:192:THR:HG23	1.88	0.55
2:BU:9:LYS:O	2:BU:13:LEU:HG	2.05	0.55
3:CV:256:HIS:HB2	4:FW:104:TYR:CE2	2.42	0.55
4:DW:105:LEU:O	4:DW:131:ARG:NH2	2.35	0.55
4:FW:134:ARG:HA	4:FW:137:ARG:HH12	1.71	0.55
3:C2:297:ASP:OD2	4:E3:72:ARG:NH2	2.40	0.55
2:B3:9:LYS:O	2:B3:13:LEU:HG	2.07	0.55
4:D4:74:THR:N	4:D4:77:GLU:OE2	2.25	0.55
2:B5:110:LEU:HD11	2:B5:121:LEU:HD23	1.88	0.55
4:E7:121:ARG:HH22	4:F7:86:VAL:HA	1.71	0.55
3:C8:256:HIS:HB2	4:F9:104:TYR:CE2	2.42	0.55
2:BA:9:LYS:O	2:BA:13:LEU:HG	2.06	0.55
2:BE:111:ASN:HD21	2:BE:138:LYS:HB2	1.70	0.55
3:CE:258:GLU:OE1	4:DE:72:ARG:NH1	2.38	0.55
2:BF:157:VAL:O	2:BF:161:ILE:HG12	2.05	0.55
4:EG:121:ARG:HH22	4:FG:86:VAL:HA	1.71	0.55
1:AH:548:ALA:HA	2:BH:25:VAL:HG13	1.89	0.55
2:BI:245:ARG:HH21	2:BI:321:MET:HB3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:283:VAL:HG21	4:DL:114:VAL:HG21	1.87	0.55
2:BM:201:GLU:HA	2:BM:204:ASN:HD22	1.71	0.55
3:CM:78:ASP:OD1	3:CM:207:GLU:HB3	2.05	0.55
4:FM:132:MET:HE3	4:FM:135:LEU:HB3	1.87	0.55
3:CN:283:VAL:HG21	4:DN:114:VAL:HG21	1.87	0.55
4:EN:121:ARG:HH22	4:FN:86:VAL:HA	1.71	0.55
2:BP:111:ASN:HD21	2:BP:138:LYS:HB2	1.71	0.55
3:CS:191:ILE:HG23	3:CS:192:THR:HG23	1.88	0.55
3:CS:274:GLN:HA	3:CS:277:LYS:HE3	1.89	0.55
2:BV:110:LEU:HD11	2:BV:121:LEU:HD23	1.88	0.55
4:DV:101:ILE:HD13	4:EV:60:ILE:HD13	1.89	0.55
3:CX:256:HIS:HB2	4:FY:104:TYR:CE2	2.42	0.55
4:EX:75:ILE:HA	4:EX:78:LEU:HD12	1.88	0.55
4:FX:127:THR:HG23	4:FX:130:GLU:H	1.70	0.55
2:B1:106:GLY:N	2:B1:180:ASN:OD1	2.40	0.55
4:F1:104:TYR:CE2	3:CY:256:HIS:HB2	2.41	0.55
4:F2:132:MET:SD	4:F2:135:LEU:HB3	2.47	0.55
3:C4:302:LEU:HB3	3:C4:320:LEU:HD23	1.87	0.55
2:B9:9:LYS:O	2:B9:13:LEU:HG	2.07	0.55
4:D9:105:LEU:O	4:D9:131:ARG:NH2	2.32	0.55
3:CA:302:LEU:HB3	3:CA:320:LEU:HD23	1.88	0.55
3:CB:101:ASN:OD1	3:CB:103:ASN:ND2	2.38	0.55
3:CF:256:HIS:HB2	4:FG:104:TYR:CZ	2.41	0.55
1:AG:534:GLN:HG3	1:AG:537:ARG:HH21	1.71	0.55
3:CI:256:HIS:HB2	4:FJ:104:TYR:CE2	2.41	0.55
2:BM:14:LEU:O	2:BN:76:TYR:OH	2.15	0.55
2:BO:167:VAL:HG23	3:CO:131:PHE:HA	1.88	0.55
3:CU:283:VAL:HG21	4:DU:114:VAL:HG21	1.88	0.55
2:BW:68:ALA:O	2:BW:70:ASN:ND2	2.39	0.55
3:C2:78:ASP:OD1	3:C2:207:GLU:HB3	2.06	0.55
2:B3:110:LEU:HD11	2:B3:121:LEU:HD23	1.87	0.55
2:B7:9:LYS:O	2:B7:13:LEU:HG	2.07	0.55
1:A8:552:ARG:HA	1:A8:555:MET:HE3	1.88	0.55
4:FA:68:LEU:HA	4:FA:97:LEU:HD23	1.88	0.55
3:CC:300:PRO:HB2	3:CC:321:ILE:HG13	1.89	0.55
4:EC:128:PRO:HG3	4:EC:131:ARG:HH21	1.72	0.55
4:FC:90:ASP:OD2	4:FC:137:ARG:NE	2.30	0.55
2:BD:38:SER:HB3	2:BE:97:ILE:HD11	1.88	0.55
2:BG:9:LYS:O	2:BG:13:LEU:HG	2.06	0.55
1:AJ:532:MET:SD	2:BJ:56:LEU:HD13	2.47	0.55
3:CK:102:LEU:HD22	3:CK:115:LEU:HD21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CK:256:HIS:HB2	4:FL:104:TYR:CE2	2.41	0.55
3:CO:283:VAL:HG21	4:DO:114:VAL:HG21	1.87	0.55
3:CP:191:ILE:HG23	3:CP:192:THR:HG23	1.89	0.55
4:ER:121:ARG:NH1	4:FR:85:SER:O	2.31	0.55
3:C3:256:HIS:HB2	4:F4:104:TYR:CE2	2.42	0.55
4:F3:132:MET:SD	4:F3:135:LEU:HB3	2.46	0.55
2:B4:9:LYS:O	2:B4:13:LEU:HG	2.06	0.55
2:B4:106:GLY:O	2:B4:109:THR:OG1	2.17	0.55
2:B4:158:MET:HE1	2:B5:217:ALA:HB3	1.88	0.55
3:C4:297:ASP:OD2	4:E5:72:ARG:NH2	2.40	0.55
3:C7:78:ASP:OD1	3:C7:207:GLU:HB3	2.05	0.55
4:D9:101:ILE:HD13	4:E9:60:ILE:HD13	1.89	0.55
1:AD:548:ALA:HA	2:BD:25:VAL:HG13	1.89	0.55
4:EG:130:GLU:O	4:EG:133:ARG:HG2	2.07	0.55
2:BH:111:ASN:HD21	2:BH:138:LYS:HB2	1.72	0.55
4:DH:101:ILE:HD13	4:EH:60:ILE:HD13	1.89	0.55
2:BL:157:VAL:O	2:BL:161:ILE:HG12	2.07	0.55
3:CL:78:ASP:OD1	3:CL:207:GLU:HB3	2.05	0.55
3:CL:256:HIS:HB2	4:FM:104:TYR:CE2	2.42	0.55
2:BM:46:GLN:NE2	2:BM:47:ILE:O	2.39	0.55
4:DN:74:THR:N	4:DN:77:GLU:OE2	2.24	0.55
3:CQ:302:LEU:HB3	3:CQ:320:LEU:HD23	1.87	0.55
4:DR:101:ILE:HD13	4:ER:60:ILE:HD13	1.89	0.55
2:BS:218:VAL:HG11	2:BS:229:ILE:HD12	1.89	0.55
2:BU:110:LEU:HD11	2:BU:121:LEU:HD23	1.88	0.55
2:BW:106:GLY:N	2:BW:180:ASN:OD1	2.40	0.55
2:BX:229:ILE:O	2:BX:233:MET:HG2	2.07	0.55
3:C1:78:ASP:OD1	3:C1:207:GLU:HB3	2.05	0.55
4:E1:92:LEU:HA	4:F1:117:LYS:HD2	1.89	0.55
2:B2:9:LYS:O	2:B2:13:LEU:HG	2.07	0.55
2:B2:41:MET:HA	2:B2:44:VAL:HB	1.89	0.55
4:D3:74:THR:N	4:D3:77:GLU:OE2	2.25	0.55
4:E4:121:ARG:NH1	4:F4:85:SER:O	2.32	0.55
2:B5:111:ASN:HD21	2:B5:138:LYS:HB2	1.72	0.55
4:E5:121:ARG:HH22	4:F5:86:VAL:HA	1.70	0.55
3:C8:191:ILE:HG23	3:C8:192:THR:HG23	1.87	0.55
4:DB:105:LEU:O	4:DB:131:ARG:NH2	2.34	0.55
3:CC:106:HIS:HD2	3:CC:113:THR:HG22	1.72	0.55
1:AD:534:GLN:HG3	1:AD:537:ARG:HH21	1.71	0.55
3:CD:256:HIS:HB2	4:FE:104:TYR:CE2	2.41	0.55
1:AF:536:ILE:HD13	1:AF:539:MET:HE3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BH:106:GLY:N	2:BH:180:ASN:OD1	2.40	0.55
4:EI:64:LEU:HB3	4:FI:71:THR:HB	1.86	0.55
3:CK:78:ASP:OD1	3:CK:207:GLU:HB3	2.05	0.55
2:BL:9:LYS:O	2:BL:13:LEU:HG	2.06	0.55
2:BL:167:VAL:HG23	3:CL:131:PHE:HA	1.89	0.55
2:BP:110:LEU:HD11	2:BP:121:LEU:HD23	1.88	0.55
3:CP:102:LEU:HD22	3:CP:115:LEU:HD21	1.87	0.55
4:DP:104:TYR:CD2	4:EP:61:PRO:HG3	2.42	0.55
2:BQ:167:VAL:HG23	3:CQ:131:PHE:HA	1.89	0.55
4:FQ:126:ILE:HD11	4:FQ:131:ARG:HH21	1.72	0.55
3:CR:274:GLN:HA	3:CR:277:LYS:HE3	1.88	0.55
2:BS:97:ILE:O	2:BS:100:THR:OG1	2.20	0.55
2:BT:106:GLY:N	2:BT:180:ASN:OD1	2.40	0.55
2:BU:245:ARG:HH12	2:BU:249:ARG:HB2	1.72	0.55
4:EU:121:ARG:HH22	4:FU:86:VAL:HA	1.72	0.55
3:CV:302:LEU:HB3	3:CV:320:LEU:HD23	1.88	0.55
2:BW:149:PHE:O	2:BW:154:ARG:NH2	2.39	0.55
3:CW:106:HIS:HD2	3:CW:113:THR:HG22	1.72	0.55
2:BX:41:MET:HE1	2:BY:77:LEU:HB2	1.87	0.55
4:DY:105:LEU:HB3	4:DY:126:ILE:HG21	1.89	0.55
2:B1:9:LYS:O	2:B1:13:LEU:HG	2.07	0.55
3:C2:256:HIS:HB2	4:F3:104:TYR:CE2	2.42	0.55
2:B3:245:ARG:HH12	2:B3:249:ARG:HB2	1.72	0.55
2:B4:245:ARG:HH21	2:B4:321:MET:HB3	1.71	0.55
2:BA:111:ASN:HD21	2:BA:138:LYS:HB2	1.71	0.55
4:DE:105:LEU:O	4:DE:131:ARG:NH2	2.35	0.55
4:FE:105:LEU:HD22	4:FE:126:ILE:HD13	1.89	0.55
4:EF:121:ARG:NH1	4:FF:85:SER:O	2.40	0.55
2:BH:139:ARG:HH22	2:BI:198:THR:HG23	1.72	0.55
4:FH:104:TYR:OH	4:FH:131:ARG:NH1	2.39	0.55
2:BI:111:ASN:HD21	2:BI:138:LYS:HB2	1.70	0.55
2:BJ:46:GLN:NE2	2:BJ:47:ILE:O	2.40	0.55
4:EM:74:THR:HG22	4:EM:75:ILE:H	1.72	0.55
4:FQ:104:TYR:OH	4:FQ:131:ARG:NH1	2.40	0.55
4:DT:105:LEU:O	4:DT:131:ARG:NH2	2.36	0.55
3:CU:106:HIS:CD2	3:CU:113:THR:HG22	2.42	0.55
2:BW:201:GLU:HA	2:BW:204:ASN:HD22	1.72	0.55
2:B2:106:GLY:O	2:B2:109:THR:OG1	2.16	0.55
3:C3:101:ASN:OD1	3:C3:103:ASN:ND2	2.39	0.55
2:B8:245:ARG:HH12	2:B8:249:ARG:HB2	1.70	0.55
4:E8:90:ASP:O	4:F8:117:LYS:NZ	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F8:68:LEU:HA	4:F8:97:LEU:HD23	1.88	0.55
4:DC:101:ILE:HD13	4:EC:60:ILE:HD13	1.89	0.55
3:CF:101:ASN:OD1	3:CF:103:ASN:ND2	2.39	0.55
2:BG:245:ARG:HH21	2:BG:321:MET:HB3	1.72	0.55
2:BH:42:ALA:HB2	2:BI:97:ILE:HG23	1.88	0.55
2:BJ:103:THR:HG21	2:BJ:109:THR:HG23	1.89	0.55
3:CK:283:VAL:HG21	4:DK:114:VAL:HG21	1.88	0.55
1:AL:534:GLN:HG3	1:AL:537:ARG:HH21	1.71	0.55
2:BM:9:LYS:O	2:BM:13:LEU:HG	2.07	0.55
4:FR:99:ILE:HB	4:FR:107:ALA:HB3	1.89	0.55
2:BU:201:GLU:HA	2:BU:204:ASN:HD22	1.72	0.55
2:BV:43:ASN:O	2:BV:45:ARG:NH1	2.39	0.55
2:BX:103:THR:HG21	2:BX:109:THR:HG23	1.89	0.55
2:BY:106:GLY:O	2:BY:109:THR:OG1	2.16	0.55
4:E1:90:ASP:O	4:F1:117:LYS:NZ	2.40	0.54
2:B2:106:GLY:N	2:B2:180:ASN:OD1	2.39	0.54
3:C9:91:GLU:O	3:C9:94:ARG:HG2	2.07	0.54
2:BD:9:LYS:O	2:BD:13:LEU:HG	2.07	0.54
3:CD:297:ASP:OD2	4:EE:72:ARG:NH2	2.38	0.54
2:BF:167:VAL:HG23	3:CF:131:PHE:HA	1.88	0.54
4:DG:131:ARG:NH1	4:EG:59:ASP:OD2	2.40	0.54
4:EH:121:ARG:HH22	4:FH:86:VAL:HA	1.71	0.54
4:FL:133:ARG:HH12	4:FL:137:ARG:HH11	1.54	0.54
3:CM:238:ASN:ND2	3:CN:112:GLY:HA2	2.22	0.54
3:CM:274:GLN:HA	3:CM:277:LYS:HE3	1.88	0.54
2:BN:106:GLY:N	2:BN:180:ASN:OD1	2.39	0.54
3:CN:106:HIS:CD2	3:CN:113:THR:HG22	2.43	0.54
3:CP:256:HIS:HB2	4:FQ:104:TYR:CE2	2.42	0.54
3:CP:283:VAL:HG21	4:DP:114:VAL:HG21	1.88	0.54
3:CR:50:ARG:NH2	3:CR:52:GLN:OE1	2.40	0.54
3:CR:283:VAL:HG21	4:DR:114:VAL:HG21	1.88	0.54
4:DT:74:THR:N	4:DT:77:GLU:OE2	2.24	0.54
4:FT:99:ILE:HB	4:FT:107:ALA:HB3	1.88	0.54
3:CU:191:ILE:HG23	3:CU:192:THR:HG23	1.89	0.54
3:CV:106:HIS:CD2	3:CV:113:THR:HG22	2.42	0.54
2:BW:167:VAL:HG23	3:CW:131:PHE:HA	1.88	0.54
2:BX:9:LYS:O	2:BX:13:LEU:HG	2.07	0.54
2:BY:110:LEU:HD11	2:BY:121:LEU:HD23	1.89	0.54
3:CY:78:ASP:OD1	3:CY:207:GLU:HB3	2.06	0.54
4:F1:102:ASN:ND2	3:CY:258:GLU:O	2.33	0.54
4:E5:121:ARG:NH1	4:F5:85:SER:O	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C8:283:VAL:HG21	4:D8:114:VAL:HG21	1.89	0.54
3:CA:274:GLN:HA	3:CA:277:LYS:HE3	1.89	0.54
4:FA:133:ARG:HH12	4:FA:137:ARG:HH11	1.55	0.54
2:BB:167:VAL:HG23	3:CB:131:PHE:HA	1.88	0.54
4:EB:130:GLU:O	4:EB:133:ARG:HG2	2.07	0.54
1:AC:536:ILE:HA	1:AC:539:MET:HE3	1.90	0.54
3:CD:283:VAL:HG21	4:DD:114:VAL:HG21	1.89	0.54
4:DD:102:ASN:ND2	4:ED:61:PRO:O	2.39	0.54
3:CE:91:GLU:O	3:CE:94:ARG:HG2	2.08	0.54
3:CF:91:GLU:O	3:CF:94:ARG:HG2	2.07	0.54
3:CF:106:HIS:HD2	3:CF:113:THR:HG22	1.72	0.54
3:CH:91:GLU:O	3:CH:94:ARG:HG2	2.07	0.54
3:CL:191:ILE:HG23	3:CL:192:THR:HG23	1.89	0.54
3:CM:191:ILE:HG23	3:CM:192:THR:HG23	1.90	0.54
4:FR:126:ILE:HD11	4:FR:131:ARG:HH21	1.73	0.54
3:CS:283:VAL:HG21	4:DS:114:VAL:HG21	1.88	0.54
3:CT:191:ILE:HG23	3:CT:192:THR:HG23	1.90	0.54
1:AU:548:ALA:HA	2:BU:25:VAL:HG13	1.89	0.54
3:CU:297:ASP:OD2	4:EV:72:ARG:NH2	2.40	0.54
4:EU:59:ASP:HA	4:FU:76:LYS:HZ1	1.72	0.54
4:EV:121:ARG:NH1	4:FV:85:SER:O	2.30	0.54
2:B1:197:ARG:HA	2:B1:232:GLU:HG2	1.88	0.54
2:B1:245:ARG:HH21	2:B1:321:MET:HB3	1.72	0.54
2:B2:46:GLN:HE22	2:B3:70:ASN:HB3	1.73	0.54
2:B2:46:GLN:HB3	2:B3:66:PHE:CZ	2.42	0.54
3:C7:101:ASN:OD1	3:C7:103:ASN:ND2	2.39	0.54
2:B8:167:VAL:HG23	3:C8:131:PHE:HA	1.89	0.54
3:C9:274:GLN:HA	3:C9:277:LYS:HE3	1.88	0.54
4:FA:99:ILE:HB	4:FA:107:ALA:HB3	1.89	0.54
2:BC:218:VAL:HG11	2:BC:229:ILE:HD12	1.90	0.54
3:CH:191:ILE:HG23	3:CH:192:THR:HG23	1.89	0.54
3:CJ:106:HIS:HD2	3:CJ:113:THR:HG22	1.72	0.54
4:FK:68:LEU:HA	4:FK:97:LEU:HD23	1.89	0.54
4:FL:104:TYR:OH	4:FL:131:ARG:NH1	2.40	0.54
4:EO:74:THR:HG22	4:EO:75:ILE:H	1.73	0.54
2:BR:106:GLY:N	2:BR:180:ASN:OD1	2.40	0.54
4:DR:105:LEU:O	4:DR:131:ARG:NH2	2.34	0.54
3:CT:106:HIS:CD2	3:CT:113:THR:HG22	2.43	0.54
4:FU:99:ILE:HB	4:FU:107:ALA:HB3	1.89	0.54
3:CX:191:ILE:HG23	3:CX:192:THR:HG23	1.89	0.54
3:CY:106:HIS:HD2	3:CY:113:THR:HG22	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D1:105:LEU:HB3	4:D1:126:ILE:HG21	1.87	0.54
4:D1:131:ARG:NH1	4:E1:59:ASP:OD2	2.40	0.54
2:B4:4:LEU:HD11	2:B4:47:ILE:HD11	1.89	0.54
3:C5:91:GLU:O	3:C5:94:ARG:HG2	2.08	0.54
1:A6:536:ILE:HA	1:A6:539:MET:HE3	1.89	0.54
3:C6:273:SER:OG	4:D6:58:MET:O	2.12	0.54
4:F6:134:ARG:HA	4:F6:137:ARG:HH12	1.71	0.54
3:CB:91:GLU:O	3:CB:94:ARG:HG2	2.08	0.54
3:CE:106:HIS:HD2	3:CE:113:THR:HG22	1.72	0.54
2:BF:106:GLY:N	2:BF:180:ASN:OD1	2.41	0.54
3:CG:283:VAL:HG21	4:DG:114:VAL:HG21	1.89	0.54
3:CH:302:LEU:HB3	3:CH:320:LEU:HD23	1.88	0.54
3:CI:91:GLU:O	3:CI:94:ARG:HG2	2.08	0.54
3:CK:91:GLU:O	3:CK:94:ARG:HG2	2.08	0.54
4:FM:133:ARG:HH12	4:FM:137:ARG:HH11	1.55	0.54
3:CO:246:TRP:HZ2	4:FP:122:ILE:HD12	1.71	0.54
3:CQ:106:HIS:CD2	3:CQ:113:THR:HG22	2.43	0.54
2:BS:207:LYS:HE3	2:BS:209:GLN:H	1.72	0.54
1:AV:555:MET:HE1	2:BV:33:GLU:HB3	1.89	0.54
3:CY:91:GLU:O	3:CY:94:ARG:HG2	2.07	0.54
4:FY:68:LEU:HA	4:FY:97:LEU:HD23	1.90	0.54
4:F1:68:LEU:HA	4:F1:97:LEU:HD23	1.90	0.54
4:F3:99:ILE:HB	4:F3:107:ALA:HB3	1.89	0.54
3:C6:91:GLU:O	3:C6:94:ARG:HG2	2.08	0.54
1:A8:522:ARG:HD2	1:A8:526:ARG:HH21	1.73	0.54
1:A9:529:ALA:O	1:A9:532:MET:HE3	2.07	0.54
2:BB:106:GLY:N	2:BB:180:ASN:OD1	2.40	0.54
3:CC:91:GLU:O	3:CC:94:ARG:HG2	2.08	0.54
2:BF:9:LYS:O	2:BF:13:LEU:HG	2.07	0.54
2:BK:149:PHE:O	2:BK:154:ARG:NH2	2.40	0.54
3:CK:302:LEU:HB3	3:CK:320:LEU:HD23	1.88	0.54
3:CL:101:ASN:OD1	3:CL:103:ASN:ND2	2.41	0.54
3:CL:274:GLN:HA	3:CL:277:LYS:HE3	1.88	0.54
3:CO:256:HIS:HB2	4:FP:104:TYR:CE2	2.42	0.54
3:CP:302:LEU:HB3	3:CP:320:LEU:HD23	1.89	0.54
4:EP:90:ASP:O	4:FP:117:LYS:NZ	2.40	0.54
2:BR:42:ALA:HB2	2:BS:97:ILE:HG23	1.90	0.54
3:CR:297:ASP:OD2	4:ES:72:ARG:NH2	2.39	0.54
4:EU:90:ASP:O	4:FU:117:LYS:NZ	2.40	0.54
2:BW:14:LEU:HD13	2:BW:17:ILE:HD11	1.88	0.54
4:EX:121:ARG:HH22	4:FX:86:VAL:HA	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CY:106:HIS:CD2	3:CY:113:THR:HG22	2.43	0.54
3:CY:283:VAL:HG21	4:DY:114:VAL:HG21	1.90	0.54
2:B1:70:ASN:ND2	2:BY:46:GLN:HE21	2.05	0.54
2:B1:106:GLY:O	2:B1:109:THR:OG1	2.17	0.54
1:A2:536:ILE:HA	1:A2:539:MET:HE3	1.90	0.54
2:B4:97:ILE:O	2:B4:100:THR:OG1	2.25	0.54
3:C7:91:GLU:O	3:C7:94:ARG:HG2	2.08	0.54
2:B8:9:LYS:O	2:B8:13:LEU:HG	2.07	0.54
3:C8:91:GLU:O	3:C8:94:ARG:HG2	2.08	0.54
1:A9:536:ILE:HA	1:A9:539:MET:HE3	1.89	0.54
3:CA:53:ALA:O	3:CA:56:ILE:HG22	2.08	0.54
3:CA:91:GLU:O	3:CA:94:ARG:HG2	2.08	0.54
2:BB:9:LYS:O	2:BB:13:LEU:HG	2.08	0.54
1:AI:547:VAL:HG13	2:BI:25:VAL:HG22	1.90	0.54
3:CJ:91:GLU:O	3:CJ:94:ARG:HG2	2.08	0.54
3:CJ:106:HIS:CD2	3:CJ:113:THR:HG22	2.43	0.54
3:CM:106:HIS:CD2	3:CM:113:THR:HG22	2.43	0.54
2:BO:9:LYS:O	2:BO:13:LEU:HG	2.08	0.54
4:EO:121:ARG:HH22	4:FO:86:VAL:HA	1.71	0.54
4:EP:77:GLU:HA	4:EP:80:ARG:HB2	1.88	0.54
3:CQ:91:GLU:O	3:CQ:94:ARG:HG2	2.07	0.54
3:CQ:274:GLN:HA	3:CQ:277:LYS:HE3	1.89	0.54
1:AS:551:ILE:HD11	2:BS:29:LEU:HD11	1.89	0.54
4:FS:126:ILE:HD11	4:FS:131:ARG:HH21	1.73	0.54
2:BW:110:LEU:HD11	2:BW:121:LEU:HD23	1.89	0.54
2:BY:245:ARG:HH12	2:BY:249:ARG:HB2	1.72	0.54
3:C1:91:GLU:O	3:C1:94:ARG:HG2	2.08	0.54
4:E3:59:ASP:HA	4:F3:76:LYS:NZ	2.23	0.54
4:E5:90:ASP:O	4:F5:117:LYS:NZ	2.40	0.54
2:B8:139:ARG:HH12	2:B9:198:THR:HG23	1.72	0.54
4:F8:134:ARG:HA	4:F8:137:ARG:HH12	1.72	0.54
4:EA:92:LEU:HA	4:FA:117:LYS:HD2	1.89	0.54
3:CE:266:ALA:HB1	3:CE:286:ILE:HG12	1.89	0.54
3:CF:302:LEU:HB3	3:CF:320:LEU:HD23	1.89	0.54
3:CG:91:GLU:O	3:CG:94:ARG:HG2	2.08	0.54
3:CG:302:LEU:HB3	3:CG:320:LEU:HD23	1.88	0.54
2:BJ:9:LYS:O	2:BJ:13:LEU:HG	2.08	0.54
2:BJ:26:PHE:CD2	2:BK:84:ALA:HB1	2.43	0.54
3:CM:106:HIS:HD2	3:CM:113:THR:HG22	1.73	0.54
3:CM:302:LEU:HB3	3:CM:320:LEU:HD23	1.89	0.54
3:CN:256:HIS:HB2	4:FO:104:TYR:CE2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:267:GLU:HB3	2:BO:269:PRO:HD2	1.90	0.54
2:BQ:106:GLY:N	2:BQ:180:ASN:OD1	2.40	0.54
2:BT:161:ILE:HG22	2:BU:199:ALA:HB2	1.89	0.54
3:CT:106:HIS:HD2	3:CT:113:THR:HG22	1.73	0.54
4:FT:126:ILE:HD11	4:FT:131:ARG:HH21	1.73	0.54
1:AV:555:MET:CE	2:BV:33:GLU:HB3	2.38	0.54
2:BV:9:LYS:O	2:BV:13:LEU:HG	2.08	0.54
3:CW:283:VAL:HG21	4:DW:114:VAL:HG21	1.90	0.54
4:E1:72:ARG:NH2	3:CY:297:ASP:OD2	2.41	0.54
3:C4:91:GLU:O	3:C4:94:ARG:HG2	2.08	0.54
4:F5:96:PRO:HB2	4:F5:108:GLN:HB3	1.90	0.54
2:B6:167:VAL:HG23	3:C6:131:PHE:HA	1.89	0.54
3:C6:106:HIS:HD2	3:C6:113:THR:HG22	1.73	0.54
3:C7:238:ASN:HD22	3:C8:112:GLY:HA2	1.72	0.54
3:CD:274:GLN:HA	3:CD:277:LYS:HE3	1.88	0.54
4:EG:74:THR:HG22	4:EG:75:ILE:H	1.73	0.54
3:CH:99:PRO:HB2	3:CH:184:MET:SD	2.48	0.54
3:CJ:191:ILE:HG23	3:CJ:192:THR:HG23	1.90	0.54
3:CJ:302:LEU:HB3	3:CJ:320:LEU:HD23	1.89	0.54
2:BK:132:THR:O	2:BK:136:HIS:ND1	2.30	0.54
4:FO:126:ILE:HD11	4:FO:131:ARG:HH21	1.72	0.54
3:CR:91:GLU:O	3:CR:94:ARG:HG2	2.08	0.54
3:CS:91:GLU:O	3:CS:94:ARG:HG2	2.07	0.54
4:FV:68:LEU:HA	4:FV:97:LEU:HD23	1.90	0.54
3:CW:106:HIS:CD2	3:CW:113:THR:HG22	2.43	0.54
1:AX:552:ARG:HA	1:AX:555:MET:HE3	1.88	0.54
4:EY:59:ASP:HA	4:FY:76:LYS:NZ	2.23	0.54
4:F1:104:TYR:OH	4:F1:131:ARG:NH1	2.41	0.54
3:C3:191:ILE:HG23	3:C3:192:THR:HG23	1.89	0.54
2:B4:106:GLY:N	2:B4:180:ASN:OD1	2.41	0.54
4:F7:96:PRO:HB2	4:F7:108:GLN:HB3	1.88	0.54
3:CD:91:GLU:O	3:CD:94:ARG:HG2	2.08	0.54
3:CF:191:ILE:HG23	3:CF:192:THR:HG23	1.89	0.54
2:BG:26:PHE:CD2	2:BH:84:ALA:HB1	2.43	0.54
2:BG:106:GLY:N	2:BG:180:ASN:OD1	2.41	0.54
2:BG:111:ASN:HD21	2:BG:138:LYS:HB2	1.72	0.54
3:CG:191:ILE:HG23	3:CG:192:THR:HG23	1.89	0.54
2:BJ:139:ARG:HD2	2:BK:202:ILE:HG13	1.90	0.54
4:FJ:104:TYR:OH	4:FJ:131:ARG:NH1	2.40	0.54
2:BK:111:ASN:HD21	2:BK:138:LYS:HB2	1.71	0.54
3:CM:91:GLU:O	3:CM:94:ARG:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CN:91:GLU:O	3:CN:94:ARG:HG2	2.08	0.54
3:CN:106:HIS:HD2	3:CN:113:THR:HG22	1.72	0.54
3:CN:274:GLN:HA	3:CN:277:LYS:HE3	1.89	0.54
4:EN:121:ARG:NH1	4:FN:85:SER:O	2.31	0.54
4:EP:76:LYS:HZ3	4:FP:59:ASP:HA	1.73	0.54
4:ES:76:LYS:HZ3	4:FS:59:ASP:HA	1.73	0.54
2:BT:9:LYS:O	2:BT:13:LEU:HG	2.07	0.54
2:BU:167:VAL:HG23	3:CU:131:PHE:HA	1.89	0.54
3:CW:191:ILE:HG23	3:CW:192:THR:HG23	1.90	0.54
4:EW:90:ASP:O	4:FW:117:LYS:NZ	2.41	0.54
4:FW:99:ILE:HB	4:FW:107:ALA:HB3	1.88	0.54
3:CY:99:PRO:HB2	3:CY:184:MET:SD	2.48	0.54
4:E4:59:ASP:HA	4:F4:76:LYS:NZ	2.23	0.54
2:B5:78:ARG:HA	2:B5:94:LEU:HD11	1.90	0.54
2:B6:106:GLY:N	2:B6:180:ASN:OD1	2.40	0.54
3:C7:297:ASP:OD2	4:E8:72:ARG:NH2	2.41	0.54
2:B8:106:GLY:N	2:B8:180:ASN:OD1	2.41	0.54
3:C9:106:HIS:HD2	3:C9:113:THR:HG22	1.73	0.54
4:E9:121:ARG:HH22	4:F9:86:VAL:HA	1.71	0.54
4:EA:90:ASP:O	4:FA:117:LYS:NZ	2.40	0.54
4:EE:90:ASP:O	4:FE:117:LYS:NZ	2.40	0.54
4:FF:68:LEU:HA	4:FF:97:LEU:HD23	1.90	0.54
3:CG:274:GLN:HA	3:CG:277:LYS:HE3	1.88	0.54
2:BH:167:VAL:HG23	3:CH:131:PHE:HA	1.89	0.54
2:BI:9:LYS:O	2:BI:13:LEU:HG	2.08	0.54
4:EI:92:LEU:HA	4:FI:117:LYS:HD2	1.89	0.54
4:EI:121:ARG:NH1	4:FI:85:SER:O	2.31	0.54
3:CL:91:GLU:O	3:CL:94:ARG:HG2	2.08	0.54
4:EO:121:ARG:NH1	4:FO:85:SER:O	2.31	0.54
2:BP:9:LYS:O	2:BP:13:LEU:HG	2.07	0.54
2:BP:224:GLU:OE2	2:BP:228:LYS:HE3	2.08	0.54
3:CR:53:ALA:O	3:CR:56:ILE:HG22	2.08	0.54
2:BT:48:SER:HB3	2:BU:66:PHE:CD1	2.43	0.54
2:BT:111:ASN:HD21	2:BT:138:LYS:HB2	1.73	0.54
3:CU:256:HIS:HB2	4:FV:104:TYR:CE2	2.43	0.54
3:CX:91:GLU:O	3:CX:94:ARG:HG2	2.08	0.54
4:EY:90:ASP:O	4:FY:117:LYS:NZ	2.39	0.54
2:B1:66:PHE:CD1	2:BY:48:SER:HB3	2.43	0.53
3:C1:106:HIS:CD2	3:C1:113:THR:HG22	2.43	0.53
1:A2:534:GLN:HG3	1:A2:537:ARG:HH21	1.72	0.53
3:C2:106:HIS:HD2	3:C2:113:THR:HG22	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:191:ILE:HG23	3:C2:192:THR:HG23	1.89	0.53
4:D3:131:ARG:NH1	4:E3:59:ASP:OD2	2.41	0.53
4:F3:134:ARG:HA	4:F3:137:ARG:HH12	1.72	0.53
2:B4:209:GLN:O	2:B4:212:GLU:HG2	2.08	0.53
3:C6:99:PRO:HB2	3:C6:184:MET:SD	2.48	0.53
4:E6:121:ARG:HH22	4:F6:86:VAL:HA	1.71	0.53
3:C8:274:GLN:HA	3:C8:277:LYS:HE3	1.90	0.53
3:CB:274:GLN:HA	3:CB:277:LYS:HE3	1.89	0.53
1:AC:532:MET:HG2	2:BC:56:LEU:HD13	1.90	0.53
2:BC:106:GLY:N	2:BC:180:ASN:OD1	2.41	0.53
2:BF:218:VAL:HG11	2:BF:229:ILE:HD12	1.90	0.53
3:CI:112:GLY:HA3	3:CI:223:MET:HE3	1.90	0.53
2:BJ:109:THR:O	2:BJ:113:MET:HG3	2.08	0.53
3:CL:302:LEU:HB3	3:CL:320:LEU:HD23	1.89	0.53
3:CN:102:LEU:HD22	3:CN:115:LEU:HD21	1.89	0.53
4:FO:99:ILE:HB	4:FO:107:ALA:HB3	1.89	0.53
4:DP:105:LEU:O	4:DP:131:ARG:NH2	2.33	0.53
1:AS:552:ARG:HA	1:AS:555:MET:HE3	1.88	0.53
2:BS:9:LYS:O	2:BS:13:LEU:HG	2.08	0.53
4:ES:74:THR:HG22	4:ES:75:ILE:H	1.72	0.53
4:FU:126:ILE:HD11	4:FU:131:ARG:HH21	1.72	0.53
2:BV:42:ALA:HB2	2:BW:97:ILE:HG23	1.89	0.53
3:CV:99:PRO:HB2	3:CV:184:MET:SD	2.48	0.53
4:EV:59:ASP:HA	4:FV:76:LYS:NZ	2.23	0.53
4:EX:121:ARG:NH1	4:FX:85:SER:O	2.32	0.53
3:C2:106:HIS:CD2	3:C2:113:THR:HG22	2.43	0.53
2:B3:135:VAL:HG11	2:B4:194:GLY:HA3	1.89	0.53
1:A4:547:VAL:HG13	2:B4:25:VAL:HG22	1.90	0.53
3:C4:101:ASN:OD1	3:C4:103:ASN:ND2	2.40	0.53
4:D4:131:ARG:NH1	4:E4:59:ASP:OD2	2.41	0.53
1:A7:548:ALA:HA	2:B7:25:VAL:HG13	1.90	0.53
2:BB:157:VAL:O	2:BB:161:ILE:HG12	2.09	0.53
2:BC:167:VAL:HG23	3:CC:131:PHE:HA	1.89	0.53
3:CC:101:ASN:OD1	3:CC:103:ASN:ND2	2.40	0.53
4:EC:121:ARG:NH1	4:FC:85:SER:O	2.32	0.53
3:CE:106:HIS:CD2	3:CE:113:THR:HG22	2.42	0.53
3:CF:106:HIS:CD2	3:CF:113:THR:HG22	2.43	0.53
4:FG:133:ARG:HH12	4:FG:137:ARG:HH11	1.56	0.53
2:BI:230:ILE:HA	2:BI:233:MET:HG2	1.90	0.53
3:CK:253:GLN:OE1	4:FL:131:ARG:NH2	2.41	0.53
3:CM:253:GLN:OE1	4:FN:131:ARG:NH2	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DN:105:LEU:O	4:DN:131:ARG:NH2	2.37	0.53
2:BQ:46:GLN:NE2	2:BQ:47:ILE:O	2.34	0.53
2:BQ:224:GLU:OE2	2:BQ:228:LYS:HE3	2.09	0.53
4:EU:59:ASP:HA	4:FU:76:LYS:NZ	2.23	0.53
2:BX:209:GLN:O	2:BX:212:GLU:HG2	2.09	0.53
2:BY:167:VAL:HG23	3:CY:131:PHE:HA	1.89	0.53
3:C1:106:HIS:HD2	3:C1:113:THR:HG22	1.73	0.53
3:C2:91:GLU:O	3:C2:94:ARG:HG2	2.08	0.53
4:E2:59:ASP:HA	4:F2:76:LYS:NZ	2.24	0.53
3:C3:91:GLU:O	3:C3:94:ARG:HG2	2.08	0.53
4:E6:90:ASP:O	4:F6:117:LYS:NZ	2.41	0.53
4:F8:104:TYR:OH	4:F8:131:ARG:NH1	2.41	0.53
4:F9:68:LEU:HA	4:F9:97:LEU:HD23	1.90	0.53
3:CA:191:ILE:HG23	3:CA:192:THR:HG23	1.89	0.53
4:DA:131:ARG:NH1	4:EA:59:ASP:OD2	2.41	0.53
3:CC:106:HIS:CD2	3:CC:113:THR:HG22	2.43	0.53
4:EE:59:ASP:HA	4:FE:76:LYS:NZ	2.24	0.53
4:FE:126:ILE:HD11	4:FE:131:ARG:HH21	1.73	0.53
2:BG:109:THR:O	2:BG:113:MET:HG3	2.09	0.53
4:EG:121:ARG:NH1	4:FG:85:SER:O	2.33	0.53
4:FH:99:ILE:HB	4:FH:107:ALA:HB3	1.89	0.53
1:AI:548:ALA:HA	2:BI:25:VAL:HG13	1.91	0.53
2:BJ:43:ASN:O	2:BJ:45:ARG:NH1	2.40	0.53
4:FL:68:LEU:HA	4:FL:97:LEU:HD23	1.90	0.53
3:CN:99:PRO:HB2	3:CN:184:MET:SD	2.48	0.53
3:CN:266:ALA:HB1	3:CN:286:ILE:HG12	1.91	0.53
4:FO:105:LEU:HD22	4:FO:126:ILE:HD13	1.89	0.53
2:BQ:81:LEU:HD12	2:BQ:94:LEU:HG	1.90	0.53
4:EQ:59:ASP:HA	4:FQ:76:LYS:NZ	2.24	0.53
3:CR:258:GLU:HA	4:DR:74:THR:HG22	1.90	0.53
2:BS:167:VAL:HG23	3:CS:131:PHE:HA	1.90	0.53
3:CS:106:HIS:HD2	3:CS:113:THR:HG22	1.73	0.53
3:CV:266:ALA:HB1	3:CV:286:ILE:HG12	1.90	0.53
4:EV:59:ASP:HA	4:FV:76:LYS:HZ1	1.74	0.53
3:CW:91:GLU:O	3:CW:94:ARG:HG2	2.08	0.53
2:BX:103:THR:OG1	2:BX:105:SER:O	2.25	0.53
4:DY:106:ILE:HD13	4:EY:60:ILE:HD11	1.90	0.53
2:B1:224:GLU:OE2	2:B1:228:LYS:HE3	2.09	0.53
2:B7:267:GLU:HB3	2:B7:269:PRO:HD2	1.89	0.53
4:E7:90:ASP:O	4:F7:117:LYS:NZ	2.41	0.53
4:E9:90:ASP:O	4:F9:117:LYS:NZ	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:167:VAL:HG23	3:CE:131:PHE:HA	1.89	0.53
3:CI:106:HIS:CD2	3:CI:113:THR:HG22	2.43	0.53
2:BL:209:GLN:O	2:BL:212:GLU:HG2	2.09	0.53
2:BN:9:LYS:O	2:BN:13:LEU:HG	2.07	0.53
3:CO:91:GLU:O	3:CO:94:ARG:HG2	2.08	0.53
3:CQ:281:GLY:HA2	4:DQ:121:ARG:HE	1.72	0.53
3:CW:297:ASP:OD2	4:EX:72:ARG:NH2	2.42	0.53
4:EX:74:THR:HG22	4:EX:75:ILE:H	1.72	0.53
2:BY:43:ASN:O	2:BY:45:ARG:NH1	2.38	0.53
4:FY:134:ARG:HA	4:FY:137:ARG:HH12	1.73	0.53
4:D1:74:THR:N	4:D1:77:GLU:OE2	2.25	0.53
2:B3:207:LYS:HE3	2:B3:209:GLN:H	1.71	0.53
2:B4:224:GLU:OE2	2:B4:228:LYS:HE3	2.08	0.53
1:A5:536:ILE:HA	1:A5:539:MET:HE3	1.90	0.53
1:A6:547:VAL:HG13	2:B6:25:VAL:HG22	1.90	0.53
3:C6:106:HIS:CD2	3:C6:113:THR:HG22	2.43	0.53
3:C9:106:HIS:CD2	3:C9:113:THR:HG22	2.43	0.53
4:EA:59:ASP:HA	4:FA:76:LYS:NZ	2.24	0.53
3:CC:191:ILE:HG23	3:CC:192:THR:HG23	1.90	0.53
2:BG:295:PRO:HB2	2:BH:330:TYR:HB3	1.90	0.53
4:EH:121:ARG:NH1	4:FH:85:SER:O	2.33	0.53
2:BK:167:VAL:HG23	3:CK:131:PHE:HA	1.90	0.53
3:CM:99:PRO:HB2	3:CM:184:MET:SD	2.48	0.53
1:AO:548:ALA:HA	2:BO:25:VAL:HG13	1.90	0.53
2:BO:110:LEU:HD11	2:BO:121:LEU:HD23	1.89	0.53
3:CP:91:GLU:O	3:CP:94:ARG:HG2	2.08	0.53
3:CQ:53:ALA:O	3:CQ:56:ILE:HG22	2.08	0.53
2:BU:218:VAL:HG11	2:BU:229:ILE:HD12	1.91	0.53
4:FV:133:ARG:HH12	4:FV:137:ARG:HH11	1.55	0.53
2:BX:106:GLY:O	2:BX:109:THR:OG1	2.18	0.53
2:B3:149:PHE:O	2:B3:154:ARG:NH2	2.40	0.53
3:C4:258:GLU:O	4:F5:102:ASN:ND2	2.34	0.53
1:A5:522:ARG:HD2	1:A5:526:ARG:HH21	1.74	0.53
4:F5:132:MET:SD	4:F5:135:LEU:HB3	2.49	0.53
1:A6:522:ARG:HD2	1:A6:526:ARG:HH21	1.74	0.53
1:A8:553:GLN:O	1:A8:557:ASN:ND2	2.42	0.53
2:B8:116:GLN:HA	2:B8:148:LEU:HD13	1.91	0.53
4:E8:59:ASP:HA	4:F8:76:LYS:NZ	2.24	0.53
2:BB:166:GLY:O	2:BC:190:ARG:NE	2.31	0.53
2:BD:246:SER:HB3	2:BD:321:MET:HE3	1.89	0.53
3:CD:99:PRO:HB2	3:CD:184:MET:SD	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:179:TYR:OH	3:CD:182:SER:OG	2.23	0.53
3:CD:191:ILE:HG23	3:CD:192:THR:HG23	1.89	0.53
4:FE:133:ARG:HH12	4:FE:137:ARG:HH11	1.57	0.53
4:FE:134:ARG:HA	4:FE:137:ARG:HH12	1.73	0.53
3:CH:106:HIS:CD2	3:CH:113:THR:HG22	2.43	0.53
4:FH:68:LEU:HA	4:FH:97:LEU:HD23	1.89	0.53
2:BJ:245:ARG:HH12	2:BJ:249:ARG:HB2	1.73	0.53
3:CM:53:ALA:O	3:CM:56:ILE:HG22	2.09	0.53
4:EN:90:ASP:O	4:FN:117:LYS:NZ	2.41	0.53
3:CO:102:LEU:HD22	3:CO:115:LEU:HD21	1.89	0.53
1:AQ:534:GLN:HG3	1:AQ:537:ARG:HH21	1.73	0.53
2:BR:132:THR:O	2:BR:136:HIS:ND1	2.39	0.53
2:BT:167:VAL:HG23	3:CT:131:PHE:HA	1.89	0.53
4:DT:131:ARG:NH1	4:ET:59:ASP:OD2	2.41	0.53
3:CV:91:GLU:O	3:CV:94:ARG:HG2	2.08	0.53
4:FW:126:ILE:HD11	4:FW:131:ARG:HH21	1.74	0.53
2:B1:41:MET:HA	2:B1:44:VAL:HB	1.90	0.53
1:A2:522:ARG:HD2	1:A2:526:ARG:HH21	1.74	0.53
2:B3:267:GLU:HB3	2:B3:269:PRO:HD2	1.90	0.53
2:B6:103:THR:HG21	2:B6:109:THR:HG23	1.91	0.53
3:C8:106:HIS:CD2	3:C8:113:THR:HG22	2.44	0.53
4:F9:96:PRO:HB2	4:F9:108:GLN:HB3	1.91	0.53
1:AA:522:ARG:HD2	1:AA:526:ARG:HH21	1.74	0.53
3:CA:50:ARG:NH2	3:CA:52:GLN:OE1	2.41	0.53
4:DB:131:ARG:NH1	4:EB:59:ASP:OD2	2.42	0.53
3:CD:106:HIS:CD2	3:CD:113:THR:HG22	2.42	0.53
2:BE:116:GLN:HA	2:BE:148:LEU:HD13	1.90	0.53
3:CI:191:ILE:HG23	3:CI:192:THR:HG23	1.91	0.53
4:EI:132:MET:N	4:EI:132:MET:SD	2.80	0.53
2:BK:150:ASP:N	2:BK:150:ASP:OD1	2.41	0.53
4:EL:74:THR:HG22	4:EL:75:ILE:H	1.74	0.53
3:CM:179:TYR:OH	3:CM:182:SER:OG	2.23	0.53
2:BO:78:ARG:HA	2:BO:94:LEU:HD11	1.90	0.53
4:EO:90:ASP:O	4:FO:117:LYS:NZ	2.40	0.53
2:BQ:110:LEU:HD11	2:BQ:121:LEU:HD23	1.91	0.53
1:AS:522:ARG:HD2	1:AS:526:ARG:HH21	1.74	0.53
4:ES:121:ARG:NH1	4:FS:85:SER:O	2.31	0.53
3:CT:274:GLN:HA	3:CT:277:LYS:HE3	1.90	0.53
3:C2:53:ALA:O	3:C2:56:ILE:HG22	2.09	0.53
2:B8:103:THR:HG21	2:B8:109:THR:HG23	1.90	0.53
1:AC:547:VAL:HG13	2:BC:25:VAL:HG22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:90:ASP:O	4:FC:117:LYS:NZ	2.41	0.53
1:AF:522:ARG:HD2	1:AF:526:ARG:HH21	1.74	0.53
1:AH:553:GLN:O	1:AH:557:ASN:ND2	2.41	0.53
2:BH:245:ARG:HH12	2:BH:249:ARG:HB2	1.72	0.53
1:AK:522:ARG:HD2	1:AK:526:ARG:HH21	1.74	0.53
1:AM:522:ARG:HD2	1:AM:526:ARG:HH21	1.74	0.53
4:EM:59:ASP:HA	4:FM:76:LYS:NZ	2.24	0.53
1:AN:522:ARG:HD2	1:AN:526:ARG:HH21	1.74	0.53
3:CN:179:TYR:OH	3:CN:182:SER:OG	2.22	0.53
4:DO:131:ARG:NH1	4:EO:59:ASP:OD2	2.42	0.53
4:FO:134:ARG:HA	4:FO:137:ARG:HH12	1.74	0.53
4:EP:121:ARG:NH1	4:FP:85:SER:O	2.31	0.53
3:CS:53:ALA:O	3:CS:56:ILE:HG22	2.09	0.53
3:CS:106:HIS:CD2	3:CS:113:THR:HG22	2.43	0.53
4:ES:90:ASP:O	4:FS:117:LYS:NZ	2.40	0.53
4:FS:134:ARG:HA	4:FS:137:ARG:HH12	1.74	0.53
2:BT:229:ILE:O	2:BT:233:MET:HG2	2.08	0.53
3:CT:91:GLU:O	3:CT:94:ARG:HG2	2.08	0.53
3:CU:99:PRO:HB2	3:CU:184:MET:SD	2.48	0.53
3:CV:106:HIS:HD2	3:CV:113:THR:HG22	1.72	0.53
3:CY:191:ILE:HG23	3:CY:192:THR:HG23	1.91	0.53
1:A4:534:GLN:HG3	1:A4:537:ARG:HH21	1.74	0.53
3:C4:53:ALA:O	3:C4:56:ILE:HG22	2.09	0.53
3:C5:191:ILE:HG23	3:C5:192:THR:HG23	1.90	0.53
4:E5:59:ASP:HA	4:F5:76:LYS:NZ	2.24	0.53
1:A6:532:MET:HG2	2:B6:56:LEU:HD13	1.91	0.53
3:C7:191:ILE:HG23	3:C7:192:THR:HG23	1.90	0.53
3:C7:266:ALA:HB1	3:C7:286:ILE:HG12	1.90	0.53
4:F7:134:ARG:HA	4:F7:137:ARG:HH12	1.73	0.53
2:B9:245:ARG:HH12	2:B9:249:ARG:HB2	1.73	0.53
1:AC:522:ARG:HD2	1:AC:526:ARG:HH21	1.74	0.53
2:BD:106:GLY:N	2:BD:180:ASN:OD1	2.42	0.53
2:BE:43:ASN:O	2:BE:45:ARG:NH1	2.42	0.53
2:BE:103:THR:HG21	2:BE:109:THR:HG23	1.91	0.53
3:CG:53:ALA:O	3:CG:56:ILE:HG22	2.09	0.53
1:AH:522:ARG:HD2	1:AH:526:ARG:HH21	1.74	0.53
3:CH:106:HIS:HD2	3:CH:113:THR:HG22	1.74	0.53
2:BK:109:THR:O	2:BK:113:MET:HG3	2.09	0.53
4:EK:121:ARG:NH1	4:FK:85:SER:O	2.32	0.53
1:AL:522:ARG:HD2	1:AL:526:ARG:HH21	1.74	0.53
2:BM:78:ARG:HA	2:BM:94:LEU:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:238:ASN:HD22	3:CN:112:GLY:HA2	1.74	0.53
4:FP:133:ARG:HH12	4:FP:137:ARG:HH11	1.55	0.53
4:ER:90:ASP:O	4:FR:117:LYS:NZ	2.40	0.53
4:ER:92:LEU:HA	4:FR:117:LYS:HD2	1.90	0.53
2:BS:139:ARG:HG2	2:BT:202:ILE:HG12	1.90	0.53
4:ET:90:ASP:O	4:FT:117:LYS:NZ	2.42	0.53
2:BV:106:GLY:O	2:BV:109:THR:OG1	2.20	0.53
2:BX:218:VAL:HG11	2:BX:229:ILE:HD12	1.91	0.53
4:EX:90:ASP:O	4:FX:117:LYS:NZ	2.41	0.53
3:C1:274:GLN:HA	3:C1:277:LYS:HE3	1.90	0.53
2:B3:46:GLN:HB2	1:A4:549:LEU:HD22	1.89	0.53
4:F4:126:ILE:HD11	4:F4:131:ARG:HH21	1.73	0.53
3:C6:53:ALA:O	3:C6:56:ILE:HG22	2.09	0.53
3:C6:191:ILE:HG23	3:C6:192:THR:HG23	1.90	0.53
2:B7:253:GLU:OE1	2:B7:314:ARG:NH2	2.42	0.53
2:B8:110:LEU:HD11	2:B8:121:LEU:HD23	1.90	0.53
2:B8:218:VAL:HG11	2:B8:229:ILE:HD12	1.90	0.53
4:E9:74:THR:HG22	4:E9:75:ILE:H	1.74	0.53
4:FD:68:LEU:HA	4:FD:97:LEU:HD23	1.91	0.53
4:FF:133:ARG:HH12	4:FF:137:ARG:HH11	1.57	0.53
1:AG:522:ARG:HD2	1:AG:526:ARG:HH21	1.74	0.53
4:DG:101:ILE:HG22	4:DG:106:ILE:HB	1.91	0.53
2:BL:201:GLU:HA	2:BL:204:ASN:HD22	1.72	0.53
1:AO:522:ARG:HD2	1:AO:526:ARG:HH21	1.74	0.53
4:EO:128:PRO:HG3	4:EO:131:ARG:HH21	1.74	0.53
2:BP:305:GLN:O	2:BP:309:LEU:HG	2.09	0.53
4:FP:99:ILE:HB	4:FP:107:ALA:HB3	1.90	0.53
2:BR:37:LEU:O	2:BR:41:MET:HG2	2.10	0.53
4:FR:65:THR:HG23	4:FR:100:LEU:HB2	1.91	0.53
1:AS:536:ILE:HA	1:AS:539:MET:HE3	1.91	0.53
3:CU:91:GLU:O	3:CU:94:ARG:HG2	2.08	0.53
4:DV:106:ILE:HD13	4:EV:60:ILE:HD11	1.91	0.53
3:CW:53:ALA:O	3:CW:56:ILE:HG22	2.09	0.53
3:CX:297:ASP:OD2	4:EY:72:ARG:NH2	2.42	0.53
4:DY:99:ILE:HD12	4:DY:107:ALA:HB3	1.91	0.53
4:DY:101:ILE:HD13	4:EY:60:ILE:HD13	1.91	0.53
4:E6:121:ARG:NH1	4:F6:85:SER:O	2.32	0.52
1:A8:534:GLN:HG3	1:A8:537:ARG:HH21	1.74	0.52
3:C9:53:ALA:O	3:C9:56:ILE:HG22	2.09	0.52
3:CA:106:HIS:CD2	3:CA:113:THR:HG22	2.44	0.52
1:AD:522:ARG:HD2	1:AD:526:ARG:HH21	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:113:MET:HE1	2:BG:117:SER:HB2	1.91	0.52
4:FG:96:PRO:HB2	4:FG:108:GLN:HB3	1.90	0.52
1:AH:551:ILE:HD11	2:BH:29:LEU:HD11	1.89	0.52
2:BH:218:VAL:HG11	2:BH:229:ILE:HD12	1.91	0.52
3:CI:53:ALA:O	3:CI:56:ILE:HG22	2.09	0.52
4:FI:132:MET:SD	4:FI:135:LEU:HB3	2.49	0.52
1:AJ:552:ARG:HH11	1:AJ:555:MET:HE3	1.74	0.52
4:EJ:90:ASP:O	4:FJ:117:LYS:NZ	2.41	0.52
2:BK:85:LEU:HB3	2:BK:89:ARG:HB2	1.91	0.52
4:EK:75:ILE:HA	4:EK:78:LEU:HD12	1.90	0.52
1:AM:548:ALA:HA	2:BM:25:VAL:HG13	1.90	0.52
2:BM:42:ALA:HB2	2:BN:97:ILE:HG23	1.91	0.52
4:EM:59:ASP:HA	4:FM:76:LYS:HZ1	1.75	0.52
4:EM:90:ASP:O	4:FM:117:LYS:NZ	2.41	0.52
4:FN:65:THR:HG23	4:FN:100:LEU:HB2	1.90	0.52
4:EO:59:ASP:HA	4:FO:76:LYS:NZ	2.24	0.52
1:AP:553:GLN:O	1:AP:557:ASN:ND2	2.41	0.52
2:BP:103:THR:HG21	2:BP:109:THR:HG23	1.90	0.52
2:BR:9:LYS:O	2:BR:13:LEU:HG	2.08	0.52
3:CR:102:LEU:HD22	3:CR:115:LEU:HD21	1.90	0.52
3:CR:106:HIS:CD2	3:CR:113:THR:HG22	2.44	0.52
1:AT:522:ARG:HD2	1:AT:526:ARG:HH21	1.74	0.52
2:BX:42:ALA:HB2	2:BY:97:ILE:HG23	1.91	0.52
2:BX:116:GLN:HA	2:BX:148:LEU:HD13	1.91	0.52
3:C1:53:ALA:O	3:C1:56:ILE:HG22	2.10	0.52
2:B2:224:GLU:OE2	2:B2:228:LYS:HE3	2.09	0.52
1:A3:552:ARG:HA	1:A3:555:MET:HE3	1.90	0.52
2:B3:109:THR:O	2:B3:113:MET:HG3	2.09	0.52
3:C5:99:PRO:HB2	3:C5:184:MET:SD	2.49	0.52
1:A7:551:ILE:HD11	2:B7:29:LEU:HD11	1.90	0.52
3:C7:53:ALA:O	3:C7:56:ILE:HG22	2.09	0.52
2:B8:139:ARG:HG2	2:B9:201:GLU:HG2	1.90	0.52
3:CB:266:ALA:HB1	3:CB:286:ILE:HG12	1.90	0.52
1:AC:553:GLN:O	1:AC:557:ASN:ND2	2.43	0.52
2:BD:167:VAL:HG23	3:CD:131:PHE:HA	1.90	0.52
3:CE:53:ALA:O	3:CE:56:ILE:HG22	2.09	0.52
1:AG:547:VAL:HG13	2:BG:25:VAL:HG22	1.91	0.52
1:AH:536:ILE:HA	1:AH:539:MET:HE3	1.91	0.52
3:CI:106:HIS:HD2	3:CI:113:THR:HG22	1.74	0.52
2:BK:46:GLN:HB2	1:AL:549:LEU:HD22	1.92	0.52
2:BK:297:ARG:HG3	2:BK:299:SER:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EL:59:ASP:HA	4:FL:76:LYS:NZ	2.24	0.52
4:DM:104:TYR:CD2	4:EM:61:PRO:HG3	2.44	0.52
1:AU:522:ARG:HD2	1:AU:526:ARG:HH21	1.74	0.52
4:EX:55:ASP:HB3	4:EX:57:ILE:HD12	1.91	0.52
2:B1:116:GLN:HA	2:B1:148:LEU:HD13	1.91	0.52
3:C1:191:ILE:HG23	3:C1:192:THR:HG23	1.91	0.52
2:B2:167:VAL:HG23	3:C2:131:PHE:HA	1.90	0.52
3:C3:106:HIS:CD2	3:C3:113:THR:HG22	2.44	0.52
1:A4:522:ARG:HD2	1:A4:526:ARG:HH21	1.74	0.52
2:B4:109:THR:O	2:B4:113:MET:HG3	2.10	0.52
2:B5:161:ILE:HG22	2:B6:199:ALA:HB2	1.91	0.52
2:B7:245:ARG:HH12	2:B7:249:ARG:HB2	1.74	0.52
4:EG:90:ASP:O	4:FG:117:LYS:NZ	2.42	0.52
3:CK:106:HIS:CD2	3:CK:113:THR:HG22	2.44	0.52
2:BN:116:GLN:HA	2:BN:148:LEU:HD13	1.90	0.52
2:BO:157:VAL:O	2:BO:161:ILE:HG12	2.08	0.52
4:ES:59:ASP:HA	4:FS:76:LYS:NZ	2.23	0.52
2:BT:109:THR:O	2:BT:113:MET:HG3	2.09	0.52
2:BT:136:HIS:HE1	2:BT:172:LEU:HD11	1.75	0.52
2:BU:209:GLN:O	2:BU:212:GLU:HG2	2.10	0.52
3:CV:53:ALA:O	3:CV:56:ILE:HG22	2.09	0.52
2:BX:106:GLY:N	2:BX:180:ASN:OD1	2.42	0.52
4:FX:134:ARG:HA	4:FX:137:ARG:HH12	1.73	0.52
4:DY:74:THR:N	4:DY:77:GLU:OE2	2.25	0.52
2:B1:46:GLN:HB2	1:A2:549:LEU:HD13	1.90	0.52
2:B1:111:ASN:HD21	2:B1:138:LYS:HB2	1.74	0.52
3:C1:297:ASP:OD2	4:E2:72:ARG:NH2	2.43	0.52
4:E2:55:ASP:HB3	4:E2:57:ILE:HD12	1.91	0.52
2:B4:103:THR:HG21	2:B4:109:THR:HG23	1.91	0.52
1:A5:547:VAL:HG13	2:B5:25:VAL:HG22	1.90	0.52
3:C5:53:ALA:O	3:C5:56:ILE:HG22	2.10	0.52
4:D5:104:TYR:HB3	4:D5:131:ARG:NH2	2.25	0.52
4:F5:68:LEU:HA	4:F5:97:LEU:HD23	1.90	0.52
3:C7:106:HIS:CD2	3:C7:113:THR:HG22	2.45	0.52
3:C9:191:ILE:HG23	3:C9:192:THR:HG23	1.90	0.52
1:AB:522:ARG:HD2	1:AB:526:ARG:HH21	1.74	0.52
2:BB:218:VAL:HG11	2:BB:229:ILE:HD12	1.90	0.52
2:BC:109:THR:O	2:BC:113:MET:HG3	2.10	0.52
3:CD:106:HIS:HD2	3:CD:113:THR:HG22	1.73	0.52
2:BE:224:GLU:OE2	2:BE:228:LYS:HE3	2.10	0.52
4:DF:105:LEU:O	4:DF:131:ARG:NH2	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FG:68:LEU:HA	4:FG:97:LEU:HD23	1.90	0.52
4:EJ:128:PRO:HG3	4:EJ:131:ARG:HH21	1.74	0.52
2:BK:113:MET:HE1	2:BK:117:SER:HB2	1.91	0.52
2:BM:111:ASN:HD21	2:BM:138:LYS:HB2	1.73	0.52
3:CP:257:SER:HB2	4:FQ:102:ASN:HB2	1.91	0.52
2:BR:210:GLN:O	2:BR:214:VAL:HG23	2.09	0.52
2:BS:46:GLN:HB2	1:AT:549:LEU:HD22	1.91	0.52
1:AW:522:ARG:HD2	1:AW:526:ARG:HH21	1.74	0.52
3:CX:53:ALA:O	3:CX:56:ILE:HG22	2.10	0.52
4:DX:131:ARG:NH1	4:EX:59:ASP:OD2	2.42	0.52
1:AY:553:GLN:O	1:AY:557:ASN:ND2	2.42	0.52
4:FY:96:PRO:HB2	4:FY:108:GLN:HB3	1.91	0.52
1:A1:522:ARG:HD2	1:A1:526:ARG:HH21	1.75	0.52
4:E1:121:ARG:NH1	4:F1:85:SER:O	2.31	0.52
2:B2:31:THR:O	2:B2:35:GLN:HG2	2.10	0.52
2:B3:150:ASP:OD1	2:B3:150:ASP:N	2.41	0.52
2:B3:224:GLU:OE2	2:B3:228:LYS:HE3	2.10	0.52
2:B5:106:GLY:N	2:B5:180:ASN:OD1	2.42	0.52
2:B5:167:VAL:HG23	3:C5:131:PHE:HA	1.91	0.52
1:A7:522:ARG:HD2	1:A7:526:ARG:HH21	1.74	0.52
2:B8:46:GLN:NE2	2:B9:68:ALA:O	2.29	0.52
1:A9:547:VAL:HG13	2:B9:25:VAL:HG22	1.91	0.52
2:B9:116:GLN:HA	2:B9:148:LEU:HD13	1.92	0.52
2:BA:4:LEU:HD11	2:BA:47:ILE:HD11	1.91	0.52
2:BB:151:GLU:HG2	2:BB:155:HIS:CE1	2.45	0.52
3:CB:106:HIS:CD2	3:CB:113:THR:HG22	2.44	0.52
2:BC:113:MET:HE1	2:BC:117:SER:HB2	1.91	0.52
4:EH:74:THR:HG22	4:EH:75:ILE:H	1.75	0.52
4:EI:95:GLU:OE1	4:EI:95:GLU:N	2.36	0.52
1:AJ:549:LEU:HA	1:AJ:552:ARG:HB2	1.90	0.52
4:FN:104:TYR:OH	4:FN:131:ARG:NH1	2.43	0.52
2:BO:253:GLU:OE1	2:BO:314:ARG:NH2	2.43	0.52
4:FS:68:LEU:HA	4:FS:97:LEU:HD23	1.92	0.52
3:CV:191:ILE:HG23	3:CV:192:THR:HG23	1.92	0.52
4:FW:68:LEU:HA	4:FW:97:LEU:HD23	1.92	0.52
4:EX:59:ASP:HA	4:FX:76:LYS:NZ	2.24	0.52
4:EY:59:ASP:HA	4:FY:76:LYS:HZ1	1.75	0.52
4:F1:134:ARG:HA	4:F1:137:ARG:HH12	1.74	0.52
2:B2:109:THR:O	2:B2:113:MET:HG3	2.10	0.52
1:A4:548:ALA:HA	2:B4:25:VAL:HG13	1.91	0.52
4:F4:68:LEU:HA	4:F4:97:LEU:HD23	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:116:GLN:HA	2:B7:148:LEU:HD13	1.92	0.52
3:C7:256:HIS:HB2	4:F8:104:TYR:CE2	2.45	0.52
4:F7:68:LEU:HA	4:F7:97:LEU:HD23	1.92	0.52
3:C8:53:ALA:O	3:C8:56:ILE:HG22	2.10	0.52
4:DD:105:LEU:HB2	4:DD:131:ARG:HE	1.74	0.52
4:DE:104:TYR:HB3	4:DE:131:ARG:NH2	2.25	0.52
1:AJ:536:ILE:HD13	1:AJ:539:MET:HE3	1.92	0.52
4:EK:59:ASP:HA	4:FK:76:LYS:NZ	2.24	0.52
4:FK:105:LEU:HD22	4:FK:126:ILE:HD13	1.91	0.52
2:BL:14:LEU:O	2:BM:76:TYR:OH	2.18	0.52
3:CL:53:ALA:O	3:CL:56:ILE:HG22	2.10	0.52
1:AP:522:ARG:HD2	1:AP:526:ARG:HH21	1.74	0.52
4:FQ:68:LEU:HA	4:FQ:97:LEU:HD23	1.92	0.52
2:BS:43:ASN:O	2:BS:45:ARG:NH1	2.40	0.52
4:FT:68:LEU:HA	4:FT:97:LEU:HD23	1.92	0.52
4:EV:128:PRO:HG3	4:EV:131:ARG:HH21	1.75	0.52
4:FX:68:LEU:HA	4:FX:97:LEU:HD23	1.90	0.52
1:A1:548:ALA:HA	2:B1:25:VAL:HG13	1.92	0.52
4:F1:132:MET:SD	4:F1:135:LEU:HB3	2.50	0.52
2:B2:157:VAL:O	2:B2:161:ILE:HG12	2.10	0.52
4:F2:70:ARG:HH21	4:F2:137:ARG:HH22	1.57	0.52
4:F2:134:ARG:HA	4:F2:137:ARG:HH12	1.74	0.52
3:C3:53:ALA:O	3:C3:56:ILE:HG22	2.10	0.52
2:B4:14:LEU:O	2:B5:76:TYR:OH	2.16	0.52
2:B4:167:VAL:HG23	3:C4:131:PHE:HA	1.91	0.52
4:F5:134:ARG:HA	4:F5:137:ARG:HH12	1.74	0.52
1:A6:522:ARG:HD3	2:B7:64:GLU:HG3	1.90	0.52
2:B6:116:GLN:HA	2:B6:148:LEU:HD13	1.91	0.52
1:A9:522:ARG:HD2	1:A9:526:ARG:HH21	1.75	0.52
2:BB:37:LEU:O	2:BB:41:MET:HG2	2.09	0.52
2:BB:201:GLU:HA	2:BB:204:ASN:HD22	1.74	0.52
4:FC:70:ARG:HH21	4:FC:137:ARG:HH22	1.56	0.52
2:BD:116:GLN:HA	2:BD:148:LEU:HD13	1.92	0.52
4:FD:133:ARG:HH12	4:FD:137:ARG:HH11	1.58	0.52
1:AE:522:ARG:HD2	1:AE:526:ARG:HH21	1.74	0.52
4:EE:74:THR:HG22	4:EE:75:ILE:H	1.75	0.52
1:AH:532:MET:HG2	2:BH:56:LEU:HD13	1.91	0.52
4:EH:59:ASP:HA	4:FH:76:LYS:NZ	2.25	0.52
4:FH:133:ARG:HH12	4:FH:137:ARG:HH11	1.57	0.52
1:AJ:522:ARG:HD2	1:AJ:526:ARG:HH21	1.74	0.52
3:CK:53:ALA:O	3:CK:56:ILE:HG22	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:547:VAL:HG13	2:BO:25:VAL:HG22	1.91	0.52
4:DP:74:THR:N	4:DP:77:GLU:OE2	2.24	0.52
2:BR:297:ARG:HG3	2:BR:299:SER:H	1.75	0.52
1:A1:532:MET:HG2	2:B1:56:LEU:HD13	1.91	0.52
2:B1:31:THR:O	2:B1:35:GLN:HG2	2.10	0.52
2:B7:41:MET:HA	2:B7:44:VAL:HB	1.91	0.52
4:E7:59:ASP:HA	4:F7:76:LYS:NZ	2.25	0.52
2:BA:245:ARG:HH12	2:BA:249:ARG:HB2	1.75	0.52
4:FB:65:THR:HG23	4:FB:100:LEU:HB2	1.91	0.52
4:FB:105:LEU:HD22	4:FB:126:ILE:HD13	1.92	0.52
2:BE:11:VAL:O	2:BE:15:MET:HG2	2.09	0.52
3:CF:256:HIS:HB2	4:FG:104:TYR:CE2	2.45	0.52
1:AI:522:ARG:HD2	1:AI:526:ARG:HH21	1.75	0.52
3:CJ:256:HIS:HB2	4:FK:104:TYR:CE2	2.44	0.52
3:CK:106:HIS:HD2	3:CK:113:THR:HG22	1.75	0.52
4:EK:74:THR:HG22	4:EK:75:ILE:H	1.75	0.52
3:CN:53:ALA:O	3:CN:56:ILE:HG22	2.10	0.52
3:CN:101:ASN:OD1	3:CN:103:ASN:ND2	2.43	0.52
2:BO:111:ASN:HD21	2:BO:138:LYS:HB2	1.75	0.52
2:BO:245:ARG:HH12	2:BO:249:ARG:HB2	1.74	0.52
2:BQ:245:ARG:HH21	2:BQ:321:MET:HB2	1.74	0.52
1:AR:522:ARG:HD2	1:AR:526:ARG:HH21	1.74	0.52
1:AR:553:GLN:O	1:AR:557:ASN:ND2	2.42	0.52
2:BR:267:GLU:HB3	2:BR:269:PRO:HD2	1.92	0.52
3:CR:271:ARG:HB2	3:CR:274:GLN:OE1	2.10	0.52
3:CU:179:TYR:OH	3:CU:182:SER:OG	2.24	0.52
2:BV:167:VAL:HG23	3:CV:131:PHE:HA	1.91	0.52
4:DV:74:THR:N	4:DV:77:GLU:OE2	2.25	0.52
4:DV:132:MET:HE1	4:EW:131:ARG:HD2	1.92	0.52
2:BW:245:ARG:HH12	2:BW:249:ARG:HB2	1.75	0.52
4:DW:74:THR:N	4:DW:77:GLU:OE2	2.25	0.52
4:DW:101:ILE:HD13	4:EW:60:ILE:HD13	1.92	0.52
4:DX:74:THR:N	4:DX:77:GLU:OE2	2.25	0.52
4:E1:75:ILE:HA	4:E1:78:LEU:HD12	1.92	0.52
3:C4:106:HIS:HD2	3:C4:113:THR:HG22	1.75	0.52
4:F4:96:PRO:HB2	4:F4:108:GLN:HB3	1.92	0.52
3:C8:297:ASP:OD2	4:E9:72:ARG:NH2	2.42	0.52
2:B9:297:ARG:NH2	2:BA:243:ASP:OD2	2.43	0.52
3:C9:281:GLY:HA2	4:D9:121:ARG:HE	1.75	0.52
4:F9:134:ARG:HA	4:F9:137:ARG:HH12	1.74	0.52
2:BA:74:ASN:O	2:BA:77:LEU:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:166:GLY:O	2:BB:190:ARG:NE	2.42	0.52
3:CB:191:ILE:HG23	3:CB:192:THR:HG23	1.91	0.52
4:FB:96:PRO:HB2	4:FB:108:GLN:HB3	1.92	0.52
3:CC:274:GLN:HA	3:CC:277:LYS:HE3	1.90	0.52
4:DE:78:LEU:HA	4:DE:81:LEU:HD23	1.91	0.52
3:CF:53:ALA:O	3:CF:56:ILE:HG22	2.10	0.52
2:BH:43:ASN:O	2:BH:45:ARG:NH1	2.41	0.52
3:CH:53:ALA:O	3:CH:56:ILE:HG22	2.10	0.52
4:EJ:121:ARG:HH22	4:FJ:86:VAL:HA	1.74	0.52
4:EP:128:PRO:HG3	4:EP:131:ARG:HH21	1.74	0.52
1:AQ:553:GLN:O	1:AQ:557:ASN:ND2	2.42	0.52
3:CR:106:HIS:HD2	3:CR:113:THR:HG22	1.75	0.52
2:BS:31:THR:O	2:BS:35:GLN:HG2	2.08	0.52
2:BU:31:THR:O	2:BU:35:GLN:HG2	2.09	0.52
2:BW:224:GLU:OE2	2:BW:228:LYS:HE3	2.09	0.52
4:FW:134:ARG:HA	4:FW:137:ARG:NH1	2.25	0.52
2:BX:245:ARG:HH12	2:BX:249:ARG:HB2	1.75	0.52
2:B3:78:ARG:HA	2:B3:94:LEU:HD11	1.91	0.52
2:B3:166:GLY:O	2:B4:190:ARG:NH1	2.33	0.52
3:C3:106:HIS:HD2	3:C3:113:THR:HG22	1.75	0.52
3:C3:297:ASP:OD2	4:E4:72:ARG:NH2	2.43	0.52
2:B4:78:ARG:HG3	2:B4:94:LEU:HD11	1.91	0.52
3:C4:281:GLY:HA2	4:D4:121:ARG:HE	1.75	0.52
1:A7:553:GLN:O	1:A7:557:ASN:ND2	2.43	0.52
3:C7:106:HIS:HD2	3:C7:113:THR:HG22	1.75	0.52
4:F8:132:MET:SD	4:F8:135:LEU:HB3	2.50	0.52
1:AA:536:ILE:HD13	1:AA:539:MET:HE3	1.92	0.52
3:CC:299:VAL:HA	4:FC:132:MET:HE1	1.90	0.52
3:CD:238:ASN:ND2	3:CE:112:GLY:HA2	2.25	0.52
3:CG:86:ILE:HD13	3:CG:200:VAL:HG22	1.92	0.52
2:BH:267:GLU:HB3	2:BH:269:PRO:HD2	1.92	0.52
4:EJ:59:ASP:HA	4:FJ:76:LYS:NZ	2.25	0.52
2:BL:166:GLY:O	2:BM:190:ARG:NE	2.31	0.52
3:CO:106:HIS:CD2	3:CO:113:THR:HG22	2.45	0.52
2:BP:21:ARG:O	2:BP:25:VAL:HG23	2.10	0.52
4:DQ:101:ILE:HG22	4:DQ:106:ILE:HB	1.92	0.52
3:CU:86:ILE:HD13	3:CU:200:VAL:HG22	1.92	0.52
4:EW:74:THR:HG22	4:EW:75:ILE:H	1.74	0.52
4:F3:105:LEU:HD22	4:F3:126:ILE:HD13	1.93	0.51
4:D9:104:TYR:HB3	4:D9:131:ARG:NH2	2.25	0.51
4:FA:105:LEU:HD22	4:FA:126:ILE:HD13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DF:131:ARG:NH1	4:EF:59:ASP:OD2	2.43	0.51
2:BG:167:VAL:HG23	3:CG:131:PHE:HA	1.91	0.51
2:BK:38:SER:HA	2:BK:41:MET:HG2	1.92	0.51
2:BK:224:GLU:OE2	2:BK:228:LYS:HE3	2.10	0.51
4:FK:99:ILE:HB	4:FK:107:ALA:HB3	1.92	0.51
3:CP:53:ALA:O	3:CP:56:ILE:HG22	2.10	0.51
4:FR:70:ARG:HH21	4:FR:137:ARG:HH22	1.58	0.51
3:CT:271:ARG:HB2	3:CT:274:GLN:OE1	2.10	0.51
3:CW:271:ARG:HB2	3:CW:274:GLN:OE1	2.11	0.51
4:EX:59:ASP:HA	4:FX:76:LYS:HZ1	1.75	0.51
4:F2:99:ILE:HB	4:F2:107:ALA:HB3	1.90	0.51
4:F6:68:LEU:HA	4:F6:97:LEU:HD23	1.92	0.51
3:C7:273:SER:OG	4:D7:58:MET:O	2.15	0.51
3:CB:53:ALA:O	3:CB:56:ILE:HG22	2.10	0.51
4:EB:59:ASP:HA	4:FB:76:LYS:NZ	2.26	0.51
4:FC:133:ARG:HH12	4:FC:137:ARG:HH11	1.58	0.51
1:AD:553:GLN:O	1:AD:557:ASN:ND2	2.44	0.51
2:BF:116:GLN:HA	2:BF:148:LEU:HD13	1.91	0.51
4:EI:59:ASP:HA	4:FI:76:LYS:NZ	2.25	0.51
4:FJ:96:PRO:HB2	4:FJ:108:GLN:HB3	1.91	0.51
3:CM:86:ILE:HD13	3:CM:200:VAL:HG22	1.92	0.51
4:EM:128:PRO:HG3	4:EM:131:ARG:HH21	1.74	0.51
4:FM:105:LEU:HD22	4:FM:126:ILE:HD13	1.92	0.51
3:CO:53:ALA:O	3:CO:56:ILE:HG22	2.09	0.51
2:BQ:42:ALA:HB2	2:BR:97:ILE:HG23	1.92	0.51
2:BS:157:VAL:O	2:BS:161:ILE:HG12	2.09	0.51
2:BT:297:ARG:HG3	2:BT:299:SER:H	1.76	0.51
2:BU:139:ARG:HD2	2:BV:202:ILE:HA	1.91	0.51
3:CY:53:ALA:O	3:CY:56:ILE:HG22	2.11	0.51
3:CY:101:ASN:OD1	3:CY:103:ASN:ND2	2.43	0.51
2:B4:116:GLN:HA	2:B4:148:LEU:HD13	1.92	0.51
4:DB:101:ILE:HD13	4:EB:60:ILE:HD13	1.92	0.51
3:CD:112:GLY:HA3	3:CD:223:MET:HE3	1.91	0.51
1:AF:553:GLN:O	1:AF:557:ASN:ND2	2.44	0.51
4:FH:105:LEU:HD22	4:FH:126:ILE:HD13	1.92	0.51
3:CI:266:ALA:HB1	3:CI:286:ILE:HG12	1.92	0.51
2:BK:161:ILE:HG22	2:BL:199:ALA:HB2	1.93	0.51
3:CL:106:HIS:HD2	3:CL:113:THR:HG22	1.75	0.51
2:BO:224:GLU:OE2	2:BO:228:LYS:HE3	2.10	0.51
3:CQ:247:ARG:CZ	4:ER:79:LEU:HB3	2.40	0.51
1:AS:547:VAL:HG23	2:BS:59:PHE:CZ	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BT:42:ALA:HB2	2:BU:97:ILE:HG23	1.93	0.51
2:BT:245:ARG:HH12	2:BT:249:ARG:HB2	1.76	0.51
3:CT:148:HIS:O	3:CT:152:ARG:HG2	2.10	0.51
1:AV:536:ILE:HD13	1:AV:539:MET:HE3	1.91	0.51
3:CV:86:ILE:HD13	3:CV:200:VAL:HG22	1.93	0.51
3:CX:86:ILE:HD13	3:CX:200:VAL:HG22	1.93	0.51
2:B1:136:HIS:HE1	2:B1:172:LEU:HD11	1.75	0.51
4:E2:74:THR:HG22	4:E2:75:ILE:H	1.74	0.51
3:C4:191:ILE:HG23	3:C4:192:THR:HG23	1.92	0.51
3:C5:281:GLY:HA2	4:D5:121:ARG:HE	1.76	0.51
4:F5:105:LEU:HD22	4:F5:126:ILE:HD13	1.93	0.51
4:E8:55:ASP:HB3	4:E8:57:ILE:HD12	1.93	0.51
1:AA:553:GLN:O	1:AA:557:ASN:ND2	2.44	0.51
2:BD:218:VAL:HG11	2:BD:229:ILE:HD12	1.92	0.51
3:CF:238:ASN:ND2	3:CG:112:GLY:HA2	2.25	0.51
4:EF:76:LYS:HZ3	4:FF:59:ASP:HA	1.74	0.51
3:CH:266:ALA:HB1	3:CH:286:ILE:HG12	1.93	0.51
4:DH:131:ARG:NH1	4:EH:59:ASP:OD2	2.44	0.51
2:BI:218:VAL:HG11	2:BI:229:ILE:HD12	1.92	0.51
2:BJ:97:ILE:O	2:BJ:100:THR:OG1	2.28	0.51
4:FJ:68:LEU:HA	4:FJ:97:LEU:HD23	1.90	0.51
3:CL:57:ILE:HG21	3:CL:169:TRP:CD1	2.46	0.51
2:BN:157:VAL:O	2:BN:161:ILE:HG12	2.10	0.51
3:CN:86:ILE:HD13	3:CN:200:VAL:HG22	1.92	0.51
2:BO:116:GLN:HA	2:BO:148:LEU:HD13	1.91	0.51
3:CP:266:ALA:HB1	3:CP:286:ILE:HG12	1.92	0.51
4:FP:104:TYR:OH	4:FP:131:ARG:NH1	2.43	0.51
2:BR:295:PRO:HB2	2:BS:330:TYR:HB3	1.92	0.51
2:BS:267:GLU:HB3	2:BS:269:PRO:HD2	1.93	0.51
3:CV:105:ILE:HG21	3:CV:162:LEU:HD21	1.93	0.51
4:EV:90:ASP:O	4:FV:117:LYS:NZ	2.42	0.51
2:BX:31:THR:O	2:BX:35:GLN:HG2	2.11	0.51
4:FY:70:ARG:HH21	4:FY:137:ARG:HH22	1.57	0.51
4:FY:132:MET:SD	4:FY:135:LEU:HB3	2.50	0.51
4:E3:59:ASP:HA	4:F3:76:LYS:HZ1	1.75	0.51
4:F3:68:LEU:HA	4:F3:97:LEU:HD23	1.93	0.51
4:F3:96:PRO:HB2	4:F3:108:GLN:HB3	1.92	0.51
3:C6:281:GLY:HA2	4:D6:121:ARG:HE	1.76	0.51
4:E7:75:ILE:HA	4:E7:78:LEU:HD12	1.93	0.51
1:AD:547:VAL:HG13	2:BD:25:VAL:HG22	1.92	0.51
4:FE:96:PRO:HB2	4:FE:108:GLN:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:134:ARG:HA	4:FI:137:ARG:HH12	1.76	0.51
4:FJ:105:LEU:HD22	4:FJ:126:ILE:HD13	1.92	0.51
3:CO:274:GLN:HA	3:CO:277:LYS:HE3	1.92	0.51
3:CQ:106:HIS:HD2	3:CQ:113:THR:HG22	1.74	0.51
2:BS:38:SER:HB3	2:BT:97:ILE:HD11	1.93	0.51
1:AT:553:GLN:O	1:AT:557:ASN:ND2	2.43	0.51
3:CU:271:ARG:HB2	3:CU:274:GLN:OE1	2.11	0.51
2:BV:218:VAL:HG11	2:BV:229:ILE:HD12	1.93	0.51
4:EV:74:THR:HG22	4:EV:75:ILE:H	1.74	0.51
1:AX:522:ARG:HD2	1:AX:526:ARG:HH21	1.74	0.51
1:AX:547:VAL:HG23	2:BX:59:PHE:CZ	2.41	0.51
4:EY:74:THR:HG22	4:EY:75:ILE:H	1.74	0.51
4:D2:105:LEU:O	4:D2:131:ARG:NH2	2.38	0.51
3:C6:266:ALA:HB1	3:C6:286:ILE:HG12	1.91	0.51
2:B7:218:VAL:HG11	2:B7:229:ILE:HD12	1.92	0.51
2:BA:224:GLU:OE2	2:BA:228:LYS:HE3	2.10	0.51
2:BB:116:GLN:HA	2:BB:148:LEU:HD13	1.92	0.51
3:CB:281:GLY:HA2	4:DB:121:ARG:HE	1.76	0.51
2:BD:161:ILE:HG22	2:BE:199:ALA:HB2	1.92	0.51
1:AG:553:GLN:O	1:AG:557:ASN:ND2	2.44	0.51
2:BG:21:ARG:O	2:BG:25:VAL:HG23	2.11	0.51
3:CH:271:ARG:HB2	3:CH:274:GLN:OE1	2.11	0.51
2:BI:167:VAL:HG23	3:CI:131:PHE:HA	1.91	0.51
2:BJ:166:GLY:O	2:BK:190:ARG:NE	2.32	0.51
2:BK:267:GLU:HB3	2:BK:269:PRO:HD2	1.93	0.51
3:CL:281:GLY:HA2	4:DL:121:ARG:HE	1.76	0.51
4:EL:59:ASP:HA	4:FL:76:LYS:HZ1	1.76	0.51
2:BM:116:GLN:HA	2:BM:148:LEU:HD13	1.91	0.51
3:CM:247:ARG:CZ	4:EN:79:LEU:HB3	2.41	0.51
1:AN:536:ILE:HA	1:AN:539:MET:HE3	1.91	0.51
3:CN:271:ARG:HB2	3:CN:274:GLN:OE1	2.10	0.51
3:CP:148:HIS:O	3:CP:152:ARG:HG2	2.11	0.51
3:CR:148:HIS:O	3:CR:152:ARG:HG2	2.10	0.51
4:FR:105:LEU:HD22	4:FR:126:ILE:HD13	1.92	0.51
2:BU:46:GLN:NE2	2:BV:68:ALA:O	2.31	0.51
3:CU:53:ALA:O	3:CU:56:ILE:HG22	2.11	0.51
1:AV:544:PRO:HA	1:AV:547:VAL:HG12	1.92	0.51
2:BW:111:ASN:HD21	2:BW:138:LYS:HB2	1.75	0.51
1:AY:522:ARG:HD2	1:AY:526:ARG:HH21	1.75	0.51
4:EY:121:ARG:NH1	4:FY:85:SER:O	2.33	0.51
1:A3:522:ARG:HD2	1:A3:526:ARG:HH21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F4:105:LEU:HD22	4:F4:126:ILE:HD13	1.93	0.51
2:B5:68:ALA:O	2:B5:70:ASN:ND2	2.44	0.51
4:D8:131:ARG:NH1	4:E8:59:ASP:OD2	2.43	0.51
4:F8:70:ARG:HH21	4:F8:137:ARG:HH22	1.57	0.51
1:AC:548:ALA:HA	2:BC:25:VAL:HG13	1.92	0.51
3:CD:266:ALA:HB1	3:CD:286:ILE:HG12	1.93	0.51
4:ED:92:LEU:HA	4:FD:117:LYS:HD2	1.93	0.51
2:BE:166:GLY:HA3	2:BF:190:ARG:HG2	1.93	0.51
3:CE:191:ILE:HG23	3:CE:192:THR:HG23	1.92	0.51
2:BG:224:GLU:OE2	2:BG:228:LYS:HE3	2.10	0.51
4:EH:90:ASP:O	4:FH:117:LYS:NZ	2.44	0.51
4:FI:126:ILE:HD11	4:FI:131:ARG:HH21	1.76	0.51
2:BJ:139:ARG:HH12	2:BK:198:THR:HA	1.75	0.51
3:CJ:53:ALA:O	3:CJ:56:ILE:HG22	2.10	0.51
3:CK:266:ALA:HB1	3:CK:286:ILE:HG12	1.93	0.51
2:BM:245:ARG:HH12	2:BM:249:ARG:HB2	1.75	0.51
3:CQ:271:ARG:HB2	3:CQ:274:GLN:OE1	2.10	0.51
4:FR:96:PRO:HB2	4:FR:108:GLN:HB3	1.91	0.51
3:CS:271:ARG:HB2	3:CS:274:GLN:OE1	2.11	0.51
3:CU:148:HIS:O	3:CU:152:ARG:HG2	2.11	0.51
1:AV:522:ARG:HD2	1:AV:526:ARG:HH21	1.75	0.51
2:BX:167:VAL:HG23	3:CX:131:PHE:HA	1.91	0.51
2:B1:167:VAL:HG23	3:C1:131:PHE:HA	1.92	0.51
3:C1:271:ARG:HB2	3:C1:274:GLN:OE1	2.11	0.51
4:E2:90:ASP:O	4:F2:117:LYS:NZ	2.42	0.51
4:E3:74:THR:HG22	4:E3:75:ILE:H	1.74	0.51
4:F5:70:ARG:HH21	4:F5:137:ARG:HH22	1.57	0.51
1:A9:534:GLN:HG3	1:A9:537:ARG:HH21	1.76	0.51
1:A9:553:GLN:O	1:A9:557:ASN:ND2	2.44	0.51
3:CB:271:ARG:HB2	3:CB:274:GLN:OE1	2.10	0.51
3:CF:266:ALA:HB1	3:CF:286:ILE:HG12	1.93	0.51
2:BH:38:SER:HB3	2:BI:97:ILE:HD11	1.93	0.51
3:CH:281:GLY:HA2	4:DH:121:ARG:HE	1.76	0.51
3:CJ:258:GLU:HA	4:DJ:74:THR:HA	1.93	0.51
3:CJ:266:ALA:HB1	3:CJ:286:ILE:HG12	1.93	0.51
2:BK:31:THR:O	2:BK:35:GLN:HG2	2.10	0.51
3:CN:148:HIS:O	3:CN:152:ARG:HG2	2.11	0.51
3:CN:238:ASN:ND2	3:CO:112:GLY:HA2	2.25	0.51
3:CN:302:LEU:HB3	3:CN:320:LEU:HD23	1.93	0.51
3:CS:297:ASP:OD2	4:ET:72:ARG:NH2	2.43	0.51
3:CV:148:HIS:O	3:CV:152:ARG:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BW:116:GLN:HA	2:BW:148:LEU:HD13	1.92	0.51
4:DX:101:ILE:HD13	4:EX:60:ILE:HD13	1.93	0.51
4:FX:96:PRO:HB2	4:FX:108:GLN:HB3	1.92	0.51
4:F1:126:ILE:HD11	4:F1:131:ARG:HH21	1.75	0.51
3:C2:271:ARG:HB2	3:C2:274:GLN:OE1	2.11	0.51
4:F2:68:LEU:HA	4:F2:97:LEU:HD23	1.92	0.51
2:B3:253:GLU:OE1	2:B3:314:ARG:NH2	2.43	0.51
3:C3:271:ARG:HB2	3:C3:274:GLN:OE1	2.10	0.51
3:C6:101:ASN:OD1	3:C6:103:ASN:ND2	2.43	0.51
3:C7:271:ARG:HB2	3:C7:274:GLN:OE1	2.11	0.51
4:E9:76:LYS:HZ3	4:F9:59:ASP:HA	1.76	0.51
2:BA:21:ARG:O	2:BA:25:VAL:HG23	2.11	0.51
3:CC:53:ALA:O	3:CC:56:ILE:HG22	2.10	0.51
4:DD:105:LEU:HB3	4:DD:126:ILE:HG21	1.92	0.51
4:EF:55:ASP:HB3	4:EF:57:ILE:HD12	1.93	0.51
4:FF:132:MET:HE3	4:FF:132:MET:O	2.11	0.51
3:CG:148:HIS:O	3:CG:152:ARG:HG2	2.11	0.51
4:FI:65:THR:HG23	4:FI:100:LEU:HB2	1.91	0.51
3:CJ:57:ILE:HG21	3:CJ:169:TRP:CD1	2.46	0.51
1:AL:544:PRO:HA	1:AL:547:VAL:HG12	1.93	0.51
4:FL:105:LEU:HD22	4:FL:126:ILE:HD13	1.93	0.51
2:BN:224:GLU:OE2	2:BN:228:LYS:HE3	2.11	0.51
3:CP:271:ARG:HB2	3:CP:274:GLN:OE1	2.11	0.51
4:EQ:67:GLU:OE1	4:EQ:70:ARG:HD2	2.11	0.51
2:BU:267:GLU:HB3	2:BU:269:PRO:HD2	1.93	0.51
4:FV:104:TYR:OH	4:FV:131:ARG:NH1	2.44	0.51
4:FW:105:LEU:HD22	4:FW:126:ILE:HD13	1.93	0.51
3:C1:281:GLY:HA2	4:D1:121:ARG:HE	1.76	0.51
2:B3:127:PRO:HB2	2:B3:160:ARG:NE	2.26	0.51
3:C4:57:ILE:HG21	3:C4:169:TRP:CD1	2.46	0.51
2:B9:201:GLU:HA	2:B9:204:ASN:HD22	1.76	0.51
3:CA:238:ASN:HD22	3:CB:112:GLY:HA2	1.76	0.51
3:CA:271:ARG:HB2	3:CA:274:GLN:OE1	2.10	0.51
2:BC:9:LYS:HA	2:BC:12:ILE:HD12	1.93	0.51
3:CD:53:ALA:O	3:CD:56:ILE:HG22	2.10	0.51
4:ED:67:GLU:OE1	4:ED:70:ARG:HD2	2.11	0.51
2:BH:245:ARG:HH21	2:BH:321:MET:HB2	1.76	0.51
3:CH:101:ASN:OD1	3:CH:103:ASN:ND2	2.44	0.51
2:BK:14:LEU:O	2:BL:76:TYR:OH	2.17	0.51
3:CO:247:ARG:CZ	4:EP:79:LEU:HB3	2.41	0.51
4:EQ:76:LYS:HZ3	4:FQ:59:ASP:HA	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DS:74:THR:N	4:DS:77:GLU:OE2	2.25	0.51
4:FT:134:ARG:HA	4:FT:137:ARG:NH1	2.25	0.51
4:FW:96:PRO:HB2	4:FW:108:GLN:HB3	1.92	0.51
1:AX:553:GLN:O	1:AX:557:ASN:ND2	2.43	0.51
2:BY:127:PRO:HB2	2:BY:160:ARG:NE	2.26	0.51
2:BY:267:GLU:HB3	2:BY:269:PRO:HD2	1.92	0.51
4:E1:59:ASP:HA	4:F1:76:LYS:NZ	2.25	0.50
4:E4:90:ASP:O	4:F4:117:LYS:NZ	2.43	0.50
3:C5:271:ARG:HB2	3:C5:274:GLN:OE1	2.11	0.50
3:C7:274:GLN:HA	3:C7:277:LYS:HE3	1.92	0.50
2:B8:31:THR:O	2:B8:35:GLN:HG2	2.10	0.50
3:C9:148:HIS:O	3:C9:152:ARG:HG2	2.11	0.50
4:F9:105:LEU:HD22	4:F9:126:ILE:HD13	1.93	0.50
2:BA:103:THR:HG21	2:BA:109:THR:HG23	1.91	0.50
4:DA:60:ILE:O	4:DA:62:VAL:HG13	2.12	0.50
2:BD:245:ARG:HH12	2:BD:249:ARG:HB2	1.75	0.50
2:BE:46:GLN:HB2	1:AF:549:LEU:HD22	1.93	0.50
3:CE:57:ILE:HG21	3:CE:169:TRP:CD1	2.45	0.50
3:CE:300:PRO:HD2	4:FE:132:MET:HE2	1.94	0.50
4:EE:55:ASP:HB3	4:EE:57:ILE:HD12	1.93	0.50
2:BF:103:THR:HG21	2:BF:109:THR:HG23	1.92	0.50
1:AH:547:VAL:HG13	2:BH:25:VAL:HG22	1.92	0.50
1:AH:549:LEU:HA	1:AH:552:ARG:HB2	1.92	0.50
2:BH:116:GLN:HA	2:BH:148:LEU:HD13	1.92	0.50
2:BI:46:GLN:OE1	1:AJ:549:LEU:HD11	2.11	0.50
3:CL:266:ALA:HB1	3:CL:286:ILE:HG12	1.93	0.50
4:FL:96:PRO:HB2	4:FL:108:GLN:HB3	1.92	0.50
3:CM:57:ILE:HG21	3:CM:169:TRP:CD1	2.46	0.50
3:CM:101:ASN:OD1	3:CM:103:ASN:ND2	2.44	0.50
3:CO:57:ILE:HG21	3:CO:169:TRP:CD1	2.46	0.50
3:CQ:238:ASN:HD22	3:CR:112:GLY:HA2	1.76	0.50
2:BR:297:ARG:CZ	2:BS:328:ASP:HB3	2.41	0.50
1:AS:544:PRO:HB2	2:BS:24:GLU:CD	2.31	0.50
3:CS:148:HIS:O	3:CS:152:ARG:HG2	2.11	0.50
4:DT:60:ILE:O	4:DT:62:VAL:HG13	2.11	0.50
4:DU:74:THR:N	4:DU:77:GLU:OE2	2.25	0.50
4:DU:106:ILE:HD13	4:EU:60:ILE:HD11	1.93	0.50
4:EU:67:GLU:OE1	4:EU:70:ARG:HD2	2.12	0.50
4:EW:55:ASP:HB3	4:EW:57:ILE:HD12	1.93	0.50
4:EW:59:ASP:HA	4:FW:76:LYS:NZ	2.25	0.50
2:BY:116:GLN:HA	2:BY:148:LEU:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:238:ASN:ND2	3:C2:112:GLY:HA2	2.26	0.50
4:D2:60:ILE:O	4:D2:62:VAL:HG13	2.11	0.50
4:E2:59:ASP:HA	4:F2:76:LYS:HZ1	1.76	0.50
4:E2:67:GLU:OE1	4:E2:70:ARG:HD2	2.12	0.50
4:E3:90:ASP:O	4:F3:117:LYS:NZ	2.43	0.50
1:A6:555:MET:SD	2:B6:33:GLU:HB3	2.51	0.50
2:B6:166:GLY:HA3	2:B7:190:ARG:HG2	1.92	0.50
3:C9:271:ARG:HB2	3:C9:274:GLN:OE1	2.11	0.50
3:CA:73:LEU:HB3	3:CA:129:ASN:ND2	2.26	0.50
3:CA:106:HIS:HD2	3:CA:113:THR:HG22	1.76	0.50
3:CA:266:ALA:HB1	3:CA:286:ILE:HG12	1.93	0.50
4:FE:134:ARG:HA	4:FE:137:ARG:NH1	2.26	0.50
4:EF:121:ARG:CZ	4:FF:84:GLY:H	2.24	0.50
4:FF:99:ILE:HB	4:FF:107:ALA:HB3	1.93	0.50
3:CG:57:ILE:HG21	3:CG:169:TRP:CD1	2.46	0.50
4:EI:55:ASP:HB3	4:EI:57:ILE:HD12	1.94	0.50
4:FI:105:LEU:HD22	4:FI:126:ILE:HD13	1.92	0.50
3:CJ:238:ASN:HD22	3:CK:112:GLY:HA2	1.76	0.50
2:BM:31:THR:O	2:BM:35:GLN:HG2	2.11	0.50
4:DM:60:ILE:O	4:DM:62:VAL:HG13	2.12	0.50
3:CN:281:GLY:HA2	4:DN:121:ARG:HE	1.76	0.50
1:AO:553:GLN:O	1:AO:557:ASN:ND2	2.44	0.50
2:BO:103:THR:HG21	2:BO:109:THR:HG23	1.93	0.50
4:DO:60:ILE:O	4:DO:62:VAL:HG13	2.11	0.50
2:BP:166:GLY:HA3	2:BQ:190:ARG:HG2	1.93	0.50
2:BQ:139:ARG:HD2	2:BR:202:ILE:HG13	1.93	0.50
2:BR:218:VAL:HG11	2:BR:229:ILE:HD12	1.93	0.50
2:BS:41:MET:SD	2:BT:77:LEU:HD22	2.52	0.50
2:BS:224:GLU:OE2	2:BS:228:LYS:HE3	2.11	0.50
3:CS:281:GLY:HA2	4:DS:121:ARG:HE	1.76	0.50
3:CT:53:ALA:O	3:CT:56:ILE:HG22	2.11	0.50
1:AU:553:GLN:O	1:AU:557:ASN:ND2	2.44	0.50
2:BV:267:GLU:HB3	2:BV:269:PRO:HD2	1.93	0.50
3:CW:148:HIS:O	3:CW:152:ARG:HG2	2.11	0.50
3:C2:238:ASN:HD22	3:C3:112:GLY:HA2	1.75	0.50
2:B3:31:THR:O	2:B3:35:GLN:HG2	2.12	0.50
2:B3:251:LEU:HD22	2:B3:278:MET:CG	2.41	0.50
2:B6:224:GLU:OE2	2:B6:228:LYS:HE3	2.11	0.50
3:C6:271:ARG:HB2	3:C6:274:GLN:OE1	2.11	0.50
3:C7:86:ILE:HD13	3:C7:200:VAL:HG22	1.93	0.50
2:B8:242:VAL:O	2:B8:246:SER:OG	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C9:266:ALA:HB1	3:C9:286:ILE:HG12	1.93	0.50
4:DB:60:ILE:O	4:DB:62:VAL:HG13	2.11	0.50
2:BC:93:LEU:O	2:BC:97:ILE:HG12	2.12	0.50
3:CC:271:ARG:HB2	3:CC:274:GLN:OE1	2.11	0.50
3:CE:56:ILE:HD11	3:CF:188:PHE:CD1	2.46	0.50
4:DF:60:ILE:O	4:DF:62:VAL:HG13	2.12	0.50
4:EF:59:ASP:HA	4:FF:76:LYS:NZ	2.26	0.50
2:BG:267:GLU:HB3	2:BG:269:PRO:HD2	1.93	0.50
4:EG:55:ASP:HB3	4:EG:57:ILE:HD12	1.94	0.50
3:CK:57:ILE:HG21	3:CK:169:TRP:CD1	2.46	0.50
4:DK:74:THR:N	4:DK:77:GLU:OE2	2.25	0.50
4:EK:75:ILE:HG13	4:FK:58:MET:HG2	1.94	0.50
1:AL:536:ILE:HA	1:AL:539:MET:HE3	1.93	0.50
2:BL:111:ASN:HD21	2:BL:138:LYS:HB2	1.76	0.50
3:CM:266:ALA:HB1	3:CM:286:ILE:HG12	1.93	0.50
4:EM:73:MET:HB3	4:FM:64:LEU:HD23	1.93	0.50
4:FM:96:PRO:HB2	4:FM:108:GLN:HB3	1.92	0.50
4:FN:105:LEU:HD22	4:FN:126:ILE:HD13	1.92	0.50
4:FP:96:PRO:HB2	4:FP:108:GLN:HB3	1.92	0.50
4:FQ:70:ARG:HH21	4:FQ:137:ARG:NH2	2.10	0.50
2:BR:207:LYS:HE3	2:BR:209:GLN:H	1.77	0.50
3:CT:260:GLU:OE1	4:DT:72:ARG:NH2	2.45	0.50
3:CU:238:ASN:ND2	3:CV:112:GLY:HA2	2.25	0.50
3:CU:253:GLN:NE2	4:FV:106:ILE:O	2.43	0.50
1:AW:553:GLN:O	1:AW:557:ASN:ND2	2.44	0.50
3:CW:56:ILE:HD11	3:CX:188:PHE:CD1	2.46	0.50
2:B1:43:ASN:O	2:B1:45:ARG:NH1	2.42	0.50
3:C2:56:ILE:HD11	3:C3:188:PHE:CD1	2.46	0.50
2:B3:43:ASN:O	2:B3:45:ARG:NH1	2.43	0.50
4:E4:74:THR:HG22	4:E4:75:ILE:H	1.75	0.50
3:C5:106:HIS:CD2	3:C5:113:THR:HG22	2.46	0.50
3:C6:57:ILE:HG21	3:C6:169:TRP:CD1	2.46	0.50
4:D9:60:ILE:O	4:D9:62:VAL:HG13	2.12	0.50
3:CD:271:ARG:HB2	3:CD:274:GLN:OE1	2.11	0.50
3:CE:148:HIS:O	3:CE:152:ARG:HG2	2.10	0.50
3:CE:254:VAL:O	4:DE:75:ILE:HD13	2.11	0.50
2:BF:245:ARG:HH12	2:BF:249:ARG:HB2	1.75	0.50
3:CF:148:HIS:O	3:CF:152:ARG:HG2	2.11	0.50
3:CG:271:ARG:HB2	3:CG:274:GLN:OE1	2.12	0.50
4:DH:60:ILE:O	4:DH:62:VAL:HG13	2.12	0.50
4:EI:75:ILE:HG13	4:FI:58:MET:HG2	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:547:VAL:HG13	2:BJ:25:VAL:HG22	1.93	0.50
2:BK:127:PRO:HB2	2:BK:160:ARG:NE	2.26	0.50
3:CK:271:ARG:HB2	3:CK:274:GLN:OE1	2.11	0.50
4:EK:59:ASP:HA	4:FK:76:LYS:HZ1	1.76	0.50
4:EK:67:GLU:OE1	4:EK:70:ARG:HD2	2.11	0.50
2:BL:31:THR:O	2:BL:35:GLN:HG2	2.11	0.50
4:DL:104:TYR:CD2	4:EL:61:PRO:HG3	2.46	0.50
3:CM:271:ARG:HB2	3:CM:274:GLN:OE1	2.10	0.50
3:CN:57:ILE:HG21	3:CN:169:TRP:CD1	2.46	0.50
4:EN:67:GLU:OE1	4:EN:70:ARG:HD2	2.11	0.50
2:BO:251:LEU:HD22	2:BO:278:MET:CG	2.42	0.50
3:CO:259:LEU:HD21	4:FP:60:ILE:HG21	1.94	0.50
3:CO:266:ALA:HB1	3:CO:286:ILE:HG12	1.93	0.50
4:FP:68:LEU:HA	4:FP:97:LEU:HD23	1.93	0.50
2:BQ:37:LEU:O	2:BQ:41:MET:HG2	2.11	0.50
3:CS:56:ILE:HD11	3:CT:188:PHE:CD1	2.47	0.50
4:FU:68:LEU:HA	4:FU:97:LEU:HD23	1.92	0.50
2:BW:31:THR:O	2:BW:35:GLN:HG2	2.11	0.50
2:BX:267:GLU:HB3	2:BX:269:PRO:HD2	1.93	0.50
4:DX:101:ILE:HG22	4:DX:106:ILE:HB	1.91	0.50
2:B1:190:ARG:HG2	2:BY:166:GLY:HA3	1.92	0.50
3:C2:266:ALA:HB1	3:C2:286:ILE:HG12	1.93	0.50
2:B3:111:ASN:HD21	2:B3:138:LYS:HB2	1.77	0.50
2:B7:43:ASN:O	2:B7:45:ARG:NH1	2.43	0.50
2:B7:251:LEU:HD22	2:B7:278:MET:CG	2.42	0.50
4:D7:104:TYR:CD2	4:E7:61:PRO:HG3	2.47	0.50
3:C8:271:ARG:HB2	3:C8:274:GLN:OE1	2.11	0.50
2:B9:245:ARG:HH21	2:B9:321:MET:HB2	1.76	0.50
2:BA:46:GLN:CG	2:BB:70:ASN:HD22	2.24	0.50
2:BB:267:GLU:HB3	2:BB:269:PRO:HD2	1.94	0.50
2:BC:116:GLN:HA	2:BC:148:LEU:HD13	1.93	0.50
3:CF:86:ILE:HD13	3:CF:200:VAL:HG22	1.93	0.50
2:BG:15:MET:HE3	2:BG:41:MET:HG3	1.92	0.50
2:BG:305:GLN:O	2:BG:309:LEU:HG	2.12	0.50
3:CG:266:ALA:HB1	3:CG:286:ILE:HG12	1.94	0.50
3:CG:281:GLY:HA2	4:DG:121:ARG:HE	1.77	0.50
4:FI:68:LEU:HA	4:FI:97:LEU:HD23	1.92	0.50
2:BJ:305:GLN:O	2:BJ:309:LEU:HG	2.12	0.50
4:DK:60:ILE:O	4:DK:62:VAL:HG13	2.11	0.50
2:BM:305:GLN:O	2:BM:309:LEU:HG	2.12	0.50
4:FN:96:PRO:HB2	4:FN:108:GLN:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:246:SER:HB3	2:BO:321:MET:HE3	1.92	0.50
3:CO:106:HIS:HD2	3:CO:113:THR:HG22	1.76	0.50
4:FO:96:PRO:HB2	4:FO:108:GLN:HB3	1.92	0.50
2:BP:267:GLU:HB3	2:BP:269:PRO:HD2	1.94	0.50
2:BQ:305:GLN:O	2:BQ:309:LEU:HG	2.12	0.50
2:BR:305:GLN:O	2:BR:309:LEU:HG	2.11	0.50
1:AS:544:PRO:HB2	2:BS:24:GLU:OE2	2.12	0.50
2:BS:305:GLN:O	2:BS:309:LEU:HG	2.12	0.50
4:DS:60:ILE:O	4:DS:62:VAL:HG13	2.11	0.50
2:BT:209:GLN:O	2:BT:212:GLU:HG2	2.11	0.50
3:CT:266:ALA:HB1	3:CT:286:ILE:HG12	1.93	0.50
4:FT:96:PRO:HB2	4:FT:108:GLN:HB3	1.92	0.50
4:DU:60:ILE:O	4:DU:62:VAL:HG13	2.11	0.50
4:DU:104:TYR:CE1	4:EU:61:PRO:HG3	2.46	0.50
3:CX:148:HIS:O	3:CX:152:ARG:HG2	2.11	0.50
4:FX:70:ARG:HH21	4:FX:137:ARG:HH22	1.59	0.50
2:BY:305:GLN:O	2:BY:309:LEU:HG	2.12	0.50
3:C1:112:GLY:HA3	3:C1:223:MET:HE3	1.93	0.50
4:F2:104:TYR:OH	4:F2:131:ARG:NH1	2.45	0.50
2:B4:305:GLN:O	2:B4:309:LEU:HG	2.12	0.50
3:C6:56:ILE:HD11	3:C7:188:PHE:CD1	2.47	0.50
4:D6:104:TYR:HB3	4:D6:131:ARG:NH2	2.27	0.50
4:E8:93:ALA:HB3	4:F8:116:ASP:OD1	2.12	0.50
2:B9:305:GLN:O	2:B9:309:LEU:HG	2.12	0.50
2:BA:116:GLN:HA	2:BA:148:LEU:HD13	1.92	0.50
3:CA:274:GLN:O	3:CA:278:LEU:HB2	2.11	0.50
3:CC:57:ILE:HG21	3:CC:169:TRP:CD1	2.46	0.50
2:BE:305:GLN:O	2:BE:309:LEU:HG	2.12	0.50
4:DG:60:ILE:O	4:DG:62:VAL:HG13	2.12	0.50
2:BH:31:THR:O	2:BH:35:GLN:HG2	2.12	0.50
4:EH:92:LEU:HA	4:FH:117:LYS:HD2	1.93	0.50
2:BI:78:ARG:HA	2:BI:94:LEU:HD11	1.94	0.50
2:BK:305:GLN:O	2:BK:309:LEU:HG	2.12	0.50
4:FO:65:THR:HG23	4:FO:100:LEU:HB2	1.92	0.50
2:BQ:111:ASN:HD21	2:BQ:138:LYS:HB2	1.77	0.50
2:BR:38:SER:HA	2:BR:41:MET:HG2	1.93	0.50
2:BT:218:VAL:HG11	2:BT:229:ILE:HD12	1.93	0.50
4:ET:74:THR:HG22	4:ET:75:ILE:H	1.74	0.50
4:EU:55:ASP:HB3	4:EU:57:ILE:HD12	1.93	0.50
2:BV:245:ARG:HH12	2:BV:249:ARG:HB2	1.76	0.50
2:BV:305:GLN:O	2:BV:309:LEU:HG	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CW:57:ILE:HG21	3:CW:169:TRP:CD1	2.46	0.50
3:CW:316:ARG:HA	4:DW:86:VAL:HA	1.94	0.50
4:EX:67:GLU:OE1	4:EX:70:ARG:HD2	2.12	0.50
3:CY:274:GLN:HA	3:CY:277:LYS:HE3	1.94	0.50
4:FY:105:LEU:HD22	4:FY:126:ILE:HD13	1.93	0.50
3:C3:57:ILE:HG21	3:C3:169:TRP:CD1	2.47	0.50
4:E3:55:ASP:HB3	4:E3:57:ILE:HD12	1.94	0.50
3:C4:238:ASN:ND2	3:C5:112:GLY:HA2	2.27	0.50
4:E5:55:ASP:HB3	4:E5:57:ILE:HD12	1.94	0.50
4:E7:67:GLU:OE1	4:E7:70:ARG:HD2	2.11	0.50
1:A8:547:VAL:HG23	2:B8:59:PHE:CZ	2.43	0.50
2:B8:229:ILE:O	2:B8:233:MET:HG2	2.11	0.50
3:C8:57:ILE:HG21	3:C8:169:TRP:CD1	2.46	0.50
3:CB:297:ASP:OD2	4:EC:72:ARG:NH2	2.44	0.50
2:BC:161:ILE:HG22	2:BD:199:ALA:HB2	1.93	0.50
3:CD:148:HIS:O	3:CD:152:ARG:HG2	2.11	0.50
4:EE:59:ASP:HA	4:FE:76:LYS:HZ1	1.76	0.50
4:EH:67:GLU:OE1	4:EH:70:ARG:HD2	2.12	0.50
2:BI:116:GLN:HA	2:BI:148:LEU:HD13	1.92	0.50
2:BI:166:GLY:HA3	2:BJ:190:ARG:HG2	1.93	0.50
2:BJ:38:SER:HA	2:BJ:41:MET:HG3	1.93	0.50
2:BK:246:SER:O	2:BK:250:LEU:HD23	2.12	0.50
4:EL:67:GLU:OE1	4:EL:70:ARG:HD2	2.12	0.50
2:BM:267:GLU:HB3	2:BM:269:PRO:HD2	1.94	0.50
3:CM:148:HIS:O	3:CM:152:ARG:HG2	2.11	0.50
2:BN:267:GLU:HB3	2:BN:269:PRO:HD2	1.94	0.50
4:EN:92:LEU:HA	4:FN:117:LYS:HD2	1.92	0.50
4:EO:74:THR:O	4:EO:78:LEU:HG	2.11	0.50
4:EP:93:ALA:HB3	4:FP:116:ASP:OD1	2.12	0.50
2:BR:111:ASN:HD21	2:BR:138:LYS:HB2	1.77	0.50
4:DR:78:LEU:HA	4:DR:81:LEU:HD23	1.93	0.50
4:FS:65:THR:HG23	4:FS:100:LEU:HB2	1.94	0.50
2:BT:127:PRO:HB2	2:BT:160:ARG:NE	2.27	0.50
2:BT:305:GLN:O	2:BT:309:LEU:HG	2.11	0.50
3:CV:57:ILE:HG21	3:CV:169:TRP:CD1	2.46	0.50
4:FV:96:PRO:HB2	4:FV:108:GLN:HB3	1.92	0.50
4:FW:70:ARG:HH21	4:FW:137:ARG:HH22	1.59	0.50
1:AX:544:PRO:HA	1:AX:547:VAL:HG12	1.94	0.50
2:BX:161:ILE:HG22	2:BY:199:ALA:HB2	1.94	0.50
3:CX:266:ALA:HB1	3:CX:286:ILE:HG12	1.93	0.50
2:BY:245:ARG:HH21	2:BY:321:MET:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CY:57:ILE:HG21	3:CY:169:TRP:CD1	2.46	0.50
3:C1:112:GLY:HA2	3:CY:238:ASN:ND2	2.27	0.50
3:C3:148:HIS:O	3:C3:152:ARG:HG2	2.11	0.50
4:F4:70:ARG:HH21	4:F4:137:ARG:HH22	1.59	0.50
2:B5:305:GLN:O	2:B5:309:LEU:HG	2.12	0.50
4:E6:77:GLU:HA	4:E6:80:ARG:HB2	1.92	0.50
1:A7:547:VAL:HG13	2:B7:25:VAL:HG22	1.93	0.50
3:C7:57:ILE:HG21	3:C7:169:TRP:CD1	2.46	0.50
2:B8:305:GLN:O	2:B8:309:LEU:HG	2.12	0.50
3:C8:148:HIS:O	3:C8:152:ARG:HG2	2.11	0.50
4:D8:60:ILE:O	4:D8:62:VAL:HG13	2.12	0.50
4:EB:74:THR:HG1	4:EB:77:GLU:CD	2.15	0.50
4:DC:60:ILE:O	4:DC:62:VAL:HG13	2.11	0.50
4:ED:90:ASP:O	4:FD:117:LYS:NZ	2.42	0.50
2:BE:267:GLU:HB3	2:BE:269:PRO:HD2	1.94	0.50
3:CF:57:ILE:HG21	3:CF:169:TRP:CD1	2.46	0.50
3:CF:250:LEU:HD21	4:EG:78:LEU:O	2.12	0.50
4:EF:67:GLU:OE1	4:EF:70:ARG:HD2	2.11	0.50
2:BH:103:THR:HG21	2:BH:109:THR:HG23	1.93	0.50
2:BH:305:GLN:O	2:BH:309:LEU:HG	2.12	0.50
4:DI:60:ILE:O	4:DI:62:VAL:HG13	2.12	0.50
3:CJ:271:ARG:HB2	3:CJ:274:GLN:OE1	2.11	0.50
3:CK:274:GLN:HA	3:CK:277:LYS:HE3	1.94	0.50
2:BM:218:VAL:HG11	2:BM:229:ILE:HD12	1.94	0.50
3:CM:299:VAL:HG22	4:FM:132:MET:HE2	1.93	0.50
4:DM:105:LEU:O	4:DM:131:ARG:NH2	2.38	0.50
4:FM:68:LEU:HA	4:FM:97:LEU:HD23	1.92	0.50
2:BN:42:ALA:HB2	2:BO:97:ILE:HG23	1.94	0.50
2:BP:31:THR:O	2:BP:35:GLN:HG2	2.11	0.50
2:BP:116:GLN:HA	2:BP:148:LEU:HD13	1.92	0.50
3:CP:51:LEU:HD22	3:CP:231:LEU:HB3	1.94	0.50
1:AQ:522:ARG:HD2	1:AQ:526:ARG:HH21	1.75	0.50
2:BQ:31:THR:O	2:BQ:35:GLN:HG2	2.11	0.50
4:FQ:96:PRO:HB2	4:FQ:108:GLN:HB3	1.92	0.50
2:BU:11:VAL:O	2:BU:15:MET:HG2	2.12	0.50
4:DV:60:ILE:O	4:DV:62:VAL:HG13	2.12	0.50
4:EV:67:GLU:OE1	4:EV:70:ARG:HD2	2.12	0.50
3:CX:57:ILE:HG21	3:CX:169:TRP:CD1	2.46	0.50
2:BY:11:VAL:O	2:BY:15:MET:HG2	2.11	0.50
2:B1:305:GLN:O	2:B1:309:LEU:HG	2.12	0.50
3:C1:266:ALA:HB1	3:C1:286:ILE:HG12	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E1:74:THR:HG22	4:E1:75:ILE:H	1.77	0.50
4:F1:96:PRO:HB2	4:F1:108:GLN:HB3	1.93	0.50
2:B2:305:GLN:O	2:B2:309:LEU:HG	2.12	0.50
3:C2:148:HIS:O	3:C2:152:ARG:HG2	2.11	0.50
3:C5:148:HIS:O	3:C5:152:ARG:HG2	2.11	0.50
2:B6:267:GLU:HB3	2:B6:269:PRO:HD2	1.94	0.50
3:C7:148:HIS:O	3:C7:152:ARG:HG2	2.11	0.50
1:A8:532:MET:HG2	1:A8:535:ARG:HH21	1.76	0.50
2:B8:267:GLU:HB3	2:B8:269:PRO:HD2	1.94	0.50
4:F9:70:ARG:HH21	4:F9:137:ARG:HH22	1.59	0.50
3:CA:148:HIS:O	3:CA:152:ARG:HG2	2.12	0.50
3:CB:106:HIS:HD2	3:CB:113:THR:HG22	1.77	0.50
4:FB:70:ARG:HH21	4:FB:137:ARG:NH2	2.10	0.50
4:DD:60:ILE:O	4:DD:62:VAL:HG13	2.11	0.50
1:AE:522:ARG:HD3	2:BF:64:GLU:HG3	1.93	0.50
3:CE:105:ILE:HG21	3:CE:162:LEU:HD21	1.94	0.50
3:CE:238:ASN:ND2	3:CF:112:GLY:HA2	2.27	0.50
4:DE:60:ILE:O	4:DE:62:VAL:HG13	2.11	0.50
2:BI:209:GLN:O	2:BI:212:GLU:HG2	2.12	0.50
2:BI:305:GLN:O	2:BI:309:LEU:HG	2.12	0.50
4:EI:74:THR:HA	4:FI:61:PRO:HA	1.93	0.50
2:BJ:157:VAL:O	2:BJ:161:ILE:HG12	2.11	0.50
4:EJ:74:THR:HG22	4:EJ:75:ILE:H	1.77	0.50
4:EK:90:ASP:O	4:FK:117:LYS:NZ	2.44	0.50
2:BL:267:GLU:HB3	2:BL:269:PRO:HD2	1.93	0.50
3:CL:271:ARG:HB2	3:CL:274:GLN:OE1	2.12	0.50
4:DL:60:ILE:O	4:DL:62:VAL:HG13	2.12	0.50
4:FN:70:ARG:HH21	4:FN:137:ARG:NH2	2.10	0.50
2:BP:37:LEU:O	2:BP:41:MET:HG2	2.11	0.50
2:BQ:127:PRO:HB2	2:BQ:160:ARG:NE	2.27	0.50
3:CQ:148:HIS:O	3:CQ:152:ARG:HG2	2.11	0.50
3:CS:57:ILE:HG21	3:CS:169:TRP:CD1	2.46	0.50
1:AT:534:GLN:HG3	1:AT:537:ARG:HH21	1.77	0.50
2:BT:150:ASP:N	2:BT:150:ASP:OD1	2.41	0.50
4:EV:55:ASP:HB3	4:EV:57:ILE:HD12	1.93	0.50
4:EW:67:GLU:OE1	4:EW:70:ARG:HD2	2.12	0.50
4:FX:105:LEU:HD22	4:FX:126:ILE:HD13	1.94	0.50
2:BY:78:ARG:HA	2:BY:94:LEU:HD11	1.93	0.50
3:CY:105:ILE:HG21	3:CY:162:LEU:HD21	1.94	0.50
4:EY:55:ASP:HB3	4:EY:57:ILE:HD12	1.94	0.50
2:B1:113:MET:SD	2:B1:118:ALA:HB2	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E3:67:GLU:OE1	4:E3:70:ARG:HD2	2.12	0.49
3:C4:266:ALA:HB1	3:C4:286:ILE:HG12	1.93	0.49
4:E5:128:PRO:HG3	4:E5:131:ARG:HH21	1.76	0.49
2:B6:125:GLU:HA	3:C6:147:THR:HG21	1.94	0.49
1:AA:551:ILE:HD11	2:BA:29:LEU:HD11	1.93	0.49
2:BA:9:LYS:HA	2:BA:12:ILE:HD12	1.94	0.49
2:BA:305:GLN:O	2:BA:309:LEU:HG	2.12	0.49
3:CC:56:ILE:HD11	3:CD:188:PHE:CD1	2.47	0.49
4:DD:104:TYR:HB3	4:DD:131:ARG:NH2	2.26	0.49
3:CE:271:ARG:HB2	3:CE:274:GLN:OE1	2.12	0.49
4:EE:76:LYS:HZ3	4:FE:59:ASP:HA	1.77	0.49
2:BF:21:ARG:O	2:BF:25:VAL:HG23	2.12	0.49
3:CH:148:HIS:O	3:CH:152:ARG:HG2	2.11	0.49
2:BI:113:MET:SD	2:BI:118:ALA:HB2	2.52	0.49
4:EL:90:ASP:O	4:FL:117:LYS:NZ	2.44	0.49
2:BM:62:GLU:O	2:BM:65:GLN:HG3	2.12	0.49
4:EM:55:ASP:HB3	4:EM:57:ILE:HD12	1.94	0.49
3:CN:247:ARG:CZ	4:EO:79:LEU:HB3	2.42	0.49
4:FN:68:LEU:HA	4:FN:97:LEU:HD23	1.93	0.49
2:BP:127:PRO:HB2	2:BP:160:ARG:NE	2.27	0.49
4:DP:60:ILE:O	4:DP:62:VAL:HG13	2.12	0.49
4:FQ:105:LEU:HD22	4:FQ:126:ILE:HD13	1.93	0.49
4:ER:128:PRO:HG3	4:ER:131:ARG:HH21	1.75	0.49
4:FR:68:LEU:HA	4:FR:97:LEU:HD23	1.93	0.49
2:BS:38:SER:HA	2:BS:41:MET:HG2	1.94	0.49
2:BS:139:ARG:HG3	2:BT:201:GLU:OE1	2.12	0.49
3:CS:266:ALA:HB1	3:CS:286:ILE:HG12	1.93	0.49
4:DS:102:ASN:ND2	4:ES:61:PRO:O	2.45	0.49
3:CT:238:ASN:ND2	3:CU:112:GLY:HA2	2.27	0.49
4:ET:67:GLU:OE1	4:ET:70:ARG:HD2	2.12	0.49
4:FT:65:THR:HG23	4:FT:100:LEU:HB2	1.94	0.49
4:EU:74:THR:HG22	4:EU:75:ILE:H	1.74	0.49
4:FU:105:LEU:HD22	4:FU:126:ILE:HD13	1.93	0.49
4:FU:134:ARG:HA	4:FU:137:ARG:HH12	1.77	0.49
1:AV:532:MET:O	1:AV:535:ARG:HB2	2.12	0.49
4:DW:60:ILE:O	4:DW:62:VAL:HG13	2.12	0.49
2:BX:305:GLN:O	2:BX:309:LEU:HG	2.12	0.49
3:CX:105:ILE:HG21	3:CX:162:LEU:HD21	1.94	0.49
4:FX:134:ARG:HA	4:FX:137:ARG:NH1	2.27	0.49
3:CY:271:ARG:HB2	3:CY:274:GLN:OE1	2.11	0.49
2:B1:210:GLN:O	2:B1:214:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:78:ARG:HA	2:B2:94:LEU:HD11	1.94	0.49
3:C2:281:GLY:HA2	4:D2:121:ARG:HE	1.77	0.49
4:F2:126:ILE:HD11	4:F2:131:ARG:HH21	1.76	0.49
2:B3:305:GLN:O	2:B3:309:LEU:HG	2.12	0.49
4:F3:134:ARG:HA	4:F3:137:ARG:NH1	2.27	0.49
2:B4:11:VAL:O	2:B4:15:MET:HG2	2.11	0.49
4:D4:60:ILE:O	4:D4:62:VAL:HG13	2.12	0.49
3:C5:266:ALA:HB1	3:C5:286:ILE:HG12	1.93	0.49
2:B6:62:GLU:O	2:B6:65:GLN:HG3	2.12	0.49
4:E7:55:ASP:HB3	4:E7:57:ILE:HD12	1.94	0.49
2:BA:26:PHE:CE2	2:BB:84:ALA:HB1	2.47	0.49
2:BB:125:GLU:HA	3:CB:147:THR:HG21	1.94	0.49
2:BB:154:ARG:O	2:BB:158:MET:HG2	2.12	0.49
2:BB:209:GLN:O	2:BB:212:GLU:HG2	2.12	0.49
2:BB:305:GLN:O	2:BB:309:LEU:HG	2.12	0.49
2:BC:267:GLU:HB3	2:BC:269:PRO:HD2	1.94	0.49
3:CC:148:HIS:O	3:CC:152:ARG:HG2	2.11	0.49
4:FC:70:ARG:HH21	4:FC:137:ARG:NH2	2.09	0.49
4:DD:74:THR:N	4:DD:77:GLU:OE2	2.25	0.49
3:CE:281:GLY:HA2	4:DE:121:ARG:HE	1.77	0.49
2:BG:41:MET:HA	2:BG:44:VAL:HB	1.94	0.49
2:BH:161:ILE:HG22	2:BI:199:ALA:HB2	1.94	0.49
1:AI:522:ARG:HD3	2:BJ:64:GLU:HG3	1.93	0.49
2:BJ:267:GLU:HB3	2:BJ:269:PRO:HD2	1.94	0.49
4:EJ:55:ASP:HB3	4:EJ:57:ILE:HD12	1.95	0.49
3:CN:112:GLY:HA3	3:CN:223:MET:HE3	1.94	0.49
4:EQ:90:ASP:O	4:FQ:117:LYS:NZ	2.43	0.49
2:BS:166:GLY:HA3	2:BT:190:ARG:HG2	1.93	0.49
2:BT:246:SER:O	2:BT:250:LEU:HD23	2.12	0.49
2:BT:267:GLU:HB3	2:BT:269:PRO:HD2	1.93	0.49
2:BU:12:ILE:HD11	2:BU:47:ILE:HG12	1.94	0.49
2:BU:305:GLN:O	2:BU:309:LEU:HG	2.12	0.49
3:CU:101:ASN:OD1	3:CU:103:ASN:ND2	2.45	0.49
3:CU:260:GLU:OE1	4:DU:72:ARG:NH2	2.45	0.49
4:FU:70:ARG:HH21	4:FU:137:ARG:HH22	1.60	0.49
3:CV:316:ARG:HA	4:DV:86:VAL:HA	1.94	0.49
2:BX:246:SER:O	2:BX:250:LEU:HD23	2.12	0.49
3:CX:238:ASN:ND2	3:CY:112:GLY:HA2	2.27	0.49
2:B1:46:GLN:NE2	2:B1:47:ILE:O	2.45	0.49
3:C1:316:ARG:HA	4:D1:86:VAL:HA	1.94	0.49
3:C2:57:ILE:HG21	3:C2:169:TRP:CD1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F2:96:PRO:HB2	4:F2:108:GLN:HB3	1.93	0.49
2:B4:12:ILE:HG23	2:B5:69:LEU:HD11	1.94	0.49
3:C4:316:ARG:HA	4:D4:86:VAL:HA	1.94	0.49
2:B7:78:ARG:HA	2:B7:94:LEU:HD11	1.94	0.49
2:B7:305:GLN:O	2:B7:309:LEU:HG	2.12	0.49
3:C8:266:ALA:HB1	3:C8:286:ILE:HG12	1.93	0.49
3:C8:281:GLY:HA2	4:D8:121:ARG:HE	1.78	0.49
2:B9:166:GLY:HA3	2:BA:190:ARG:HG2	1.95	0.49
4:EA:59:ASP:HA	4:FA:76:LYS:HZ1	1.77	0.49
4:EA:67:GLU:OE1	4:EA:70:ARG:HD2	2.12	0.49
2:BC:305:GLN:O	2:BC:309:LEU:HG	2.11	0.49
4:FC:134:ARG:HA	4:FC:137:ARG:HH12	1.76	0.49
2:BE:127:PRO:HB2	2:BE:160:ARG:NE	2.28	0.49
3:CE:255:GLN:HA	4:DE:75:ILE:HB	1.93	0.49
4:EE:93:ALA:HB3	4:FE:116:ASP:OD1	2.12	0.49
2:BF:246:SER:HB3	2:BF:321:MET:HE3	1.94	0.49
3:CF:271:ARG:HB2	3:CF:274:GLN:OE1	2.11	0.49
2:BG:161:ILE:HG22	2:BH:199:ALA:HB2	1.95	0.49
2:BH:251:LEU:HA	2:BH:254:VAL:HG12	1.94	0.49
2:BI:245:ARG:HH12	2:BI:249:ARG:HB2	1.77	0.49
3:CJ:148:HIS:O	3:CJ:152:ARG:HG2	2.11	0.49
2:BK:166:GLY:HA3	2:BL:190:ARG:HG2	1.94	0.49
2:BN:41:MET:CE	2:BO:77:LEU:HD23	2.42	0.49
2:BN:305:GLN:O	2:BN:309:LEU:HG	2.12	0.49
4:DN:60:ILE:O	4:DN:62:VAL:HG13	2.12	0.49
2:BP:209:GLN:O	2:BP:212:GLU:HG2	2.12	0.49
4:EP:67:GLU:OE1	4:EP:70:ARG:HD2	2.12	0.49
2:BQ:166:GLY:HA3	2:BR:190:ARG:HG2	1.93	0.49
4:DR:60:ILE:O	4:DR:62:VAL:HG13	2.12	0.49
4:FS:105:LEU:HD22	4:FS:126:ILE:HD13	1.93	0.49
4:DV:104:TYR:CD2	4:EV:61:PRO:HG3	2.46	0.49
2:BW:127:PRO:HB2	2:BW:160:ARG:NE	2.27	0.49
3:CW:238:ASN:ND2	3:CX:112:GLY:HA2	2.26	0.49
4:EW:93:ALA:HB3	4:FW:116:ASP:OD1	2.12	0.49
3:CY:316:ARG:HA	4:DY:86:VAL:HA	1.94	0.49
2:B2:267:GLU:HB3	2:B2:269:PRO:HD2	1.94	0.49
4:F3:70:ARG:HH21	4:F3:137:ARG:HH22	1.57	0.49
4:D4:105:LEU:O	4:D4:131:ARG:NH2	2.34	0.49
2:B5:267:GLU:HB3	2:B5:269:PRO:HD2	1.94	0.49
4:D5:60:ILE:O	4:D5:62:VAL:HG13	2.12	0.49
2:B6:127:PRO:HB2	2:B6:160:ARG:NE	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D7:60:ILE:O	4:D7:62:VAL:HG13	2.12	0.49
2:B9:267:GLU:HB3	2:B9:269:PRO:HD2	1.94	0.49
2:BA:48:SER:HB3	2:BB:66:PHE:CD1	2.47	0.49
4:DA:74:THR:N	4:DA:77:GLU:OE2	2.25	0.49
1:AB:548:ALA:HA	2:BB:25:VAL:HG13	1.95	0.49
2:BB:127:PRO:HB2	2:BB:160:ARG:NE	2.27	0.49
3:CB:256:HIS:HB2	4:FC:104:TYR:CE2	2.48	0.49
4:FD:70:ARG:HH21	4:FD:137:ARG:NH2	2.11	0.49
1:AG:536:ILE:HA	1:AG:539:MET:HE3	1.94	0.49
2:BG:103:THR:HG21	2:BG:109:THR:HG23	1.94	0.49
4:EG:67:GLU:OE1	4:EG:70:ARG:HD2	2.12	0.49
3:CH:274:GLN:HA	3:CH:277:LYS:HE3	1.95	0.49
4:DH:102:ASN:ND2	4:EH:61:PRO:O	2.44	0.49
2:BI:127:PRO:HB2	2:BI:160:ARG:NE	2.27	0.49
3:CI:148:HIS:O	3:CI:152:ARG:HG2	2.11	0.49
3:CI:238:ASN:ND2	3:CJ:112:GLY:HA2	2.27	0.49
3:CI:260:GLU:OE1	4:DI:72:ARG:NH2	2.46	0.49
2:BK:209:GLN:O	2:BK:212:GLU:HG2	2.12	0.49
4:EK:55:ASP:HB3	4:EK:57:ILE:HD12	1.94	0.49
4:DL:74:THR:N	4:DL:77:GLU:OE2	2.25	0.49
4:EM:67:GLU:OE1	4:EM:70:ARG:HD2	2.12	0.49
2:BO:201:GLU:HA	2:BO:204:ASN:HD22	1.77	0.49
2:BO:209:GLN:O	2:BO:212:GLU:HG2	2.13	0.49
3:CO:105:ILE:HG21	3:CO:162:LEU:HD21	1.94	0.49
3:CO:271:ARG:HB2	3:CO:274:GLN:OE1	2.11	0.49
1:AQ:532:MET:O	1:AQ:535:ARG:HB2	2.12	0.49
4:DQ:60:ILE:O	4:DQ:62:VAL:HG13	2.12	0.49
4:FR:134:ARG:HA	4:FR:137:ARG:HH12	1.77	0.49
2:BT:31:THR:O	2:BT:35:GLN:HG2	2.11	0.49
4:FT:133:ARG:HH12	4:FT:137:ARG:HH11	1.61	0.49
2:BU:103:THR:HG21	2:BU:109:THR:HG23	1.93	0.49
3:CU:254:VAL:O	4:DU:75:ILE:HD12	2.12	0.49
3:CV:271:ARG:HB2	3:CV:274:GLN:OE1	2.12	0.49
2:BY:209:GLN:O	2:BY:212:GLU:HG2	2.13	0.49
1:A2:544:PRO:HA	1:A2:547:VAL:HG12	1.94	0.49
2:B3:209:GLN:O	2:B3:212:GLU:HG2	2.12	0.49
3:C3:51:LEU:HD22	3:C3:231:LEU:HB3	1.93	0.49
3:C3:274:GLN:HA	3:C3:277:LYS:HE3	1.95	0.49
3:C3:316:ARG:HA	4:D3:86:VAL:HA	1.94	0.49
3:C8:51:LEU:HD22	3:C8:231:LEU:HB3	1.94	0.49
4:E8:128:PRO:HG3	4:E8:131:ARG:HH21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B9:157:VAL:O	2:B9:161:ILE:HG12	2.12	0.49
3:CB:57:ILE:HG21	3:CB:169:TRP:CD1	2.47	0.49
2:BC:246:SER:O	2:BC:250:LEU:HD23	2.12	0.49
4:FD:105:LEU:HD22	4:FD:126:ILE:HD13	1.94	0.49
4:FD:134:ARG:HA	4:FD:137:ARG:HH12	1.77	0.49
4:EG:75:ILE:HG13	4:FG:58:MET:HG2	1.94	0.49
2:BI:267:GLU:HB3	2:BI:269:PRO:HD2	1.93	0.49
4:FI:70:ARG:HH21	4:FI:137:ARG:HH22	1.59	0.49
2:BJ:204:ASN:HD21	2:BJ:233:MET:HA	1.77	0.49
2:BJ:251:LEU:HA	2:BJ:254:VAL:HG12	1.94	0.49
3:CK:260:GLU:OE1	4:DK:72:ARG:NH2	2.46	0.49
3:CK:281:GLY:HA2	4:DK:121:ARG:HE	1.78	0.49
3:CL:106:HIS:CD2	3:CL:113:THR:HG22	2.47	0.49
3:CM:260:GLU:OE1	4:DM:72:ARG:NH2	2.46	0.49
2:BN:31:THR:O	2:BN:35:GLN:HG2	2.12	0.49
2:BO:305:GLN:O	2:BO:309:LEU:HG	2.12	0.49
4:EO:55:ASP:HB3	4:EO:57:ILE:HD12	1.94	0.49
2:BP:38:SER:HA	2:BP:41:MET:HG2	1.94	0.49
3:CP:281:GLY:HA2	4:DP:121:ARG:HE	1.77	0.49
4:EP:75:ILE:HB	4:EP:76:LYS:HZ2	1.78	0.49
4:FP:70:ARG:HH21	4:FP:137:ARG:NH2	2.11	0.49
2:BR:31:THR:O	2:BR:35:GLN:HG2	2.11	0.49
4:ER:67:GLU:OE1	4:ER:70:ARG:HD2	2.12	0.49
1:AT:544:PRO:HA	1:AT:547:VAL:HG12	1.94	0.49
3:CU:266:ALA:HB1	3:CU:286:ILE:HG12	1.93	0.49
2:BV:103:THR:HG21	2:BV:109:THR:HG23	1.93	0.49
2:BV:209:GLN:O	2:BV:212:GLU:HG2	2.13	0.49
2:BW:41:MET:HE1	2:BX:77:LEU:HB2	1.95	0.49
4:FW:65:THR:HG23	4:FW:100:LEU:HB2	1.94	0.49
3:C4:148:HIS:O	3:C4:152:ARG:HG2	2.12	0.49
3:C4:271:ARG:HB2	3:C4:274:GLN:OE1	2.12	0.49
4:F5:133:ARG:HH12	4:F5:137:ARG:HH11	1.61	0.49
2:B6:26:PHE:CE2	2:B7:84:ALA:HB1	2.47	0.49
2:B6:245:ARG:HH12	2:B6:249:ARG:HB2	1.78	0.49
2:B7:125:GLU:HA	3:C7:147:THR:HG21	1.95	0.49
3:C7:281:GLY:HA2	4:D7:121:ARG:HE	1.76	0.49
4:E7:74:THR:HG22	4:E7:75:ILE:H	1.76	0.49
4:F7:70:ARG:HH21	4:F7:137:ARG:HH22	1.59	0.49
2:B8:166:GLY:HA3	2:B9:190:ARG:HG2	1.95	0.49
2:B8:209:GLN:O	2:B8:212:GLU:HG2	2.13	0.49
1:A9:548:ALA:HA	2:B9:25:VAL:HG13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:85:LEU:HB3	2:BA:89:ARG:HB2	1.94	0.49
3:CA:54:LEU:HB2	3:CA:231:LEU:HD23	1.94	0.49
4:EA:55:ASP:HB3	4:EA:57:ILE:HD12	1.95	0.49
4:FA:70:ARG:HH21	4:FA:137:ARG:HH22	1.59	0.49
2:BB:31:THR:O	2:BB:35:GLN:HG2	2.12	0.49
3:CB:148:HIS:O	3:CB:152:ARG:HG2	2.12	0.49
2:BD:305:GLN:O	2:BD:309:LEU:HG	2.13	0.49
4:DE:131:ARG:NH1	4:EE:59:ASP:OD2	2.45	0.49
3:CF:316:ARG:HA	4:DF:86:VAL:HA	1.94	0.49
4:FF:96:PRO:HB2	4:FF:108:GLN:HB3	1.94	0.49
2:BG:78:ARG:HA	2:BG:94:LEU:HD11	1.95	0.49
3:CH:105:ILE:HG21	3:CH:162:LEU:HD21	1.94	0.49
4:EH:55:ASP:HB3	4:EH:57:ILE:HD12	1.95	0.49
3:CJ:260:GLU:OE1	4:DJ:72:ARG:NH2	2.46	0.49
4:DJ:60:ILE:O	4:DJ:62:VAL:HG13	2.12	0.49
2:BL:250:LEU:O	2:BL:254:VAL:HG12	2.12	0.49
2:BL:305:GLN:O	2:BL:309:LEU:HG	2.12	0.49
3:CL:148:HIS:O	3:CL:152:ARG:HG2	2.11	0.49
4:DM:74:THR:N	4:DM:77:GLU:OE2	2.25	0.49
4:FM:132:MET:HE2	4:FM:136:SER:HB3	1.95	0.49
4:DO:74:THR:N	4:DO:77:GLU:OE2	2.25	0.49
2:BQ:93:LEU:O	2:BQ:97:ILE:HG12	2.12	0.49
4:FQ:70:ARG:HH21	4:FQ:137:ARG:HH22	1.58	0.49
2:BS:209:GLN:O	2:BS:212:GLU:HG2	2.13	0.49
2:BU:166:GLY:HA3	2:BV:190:ARG:HG2	1.94	0.49
3:CU:316:ARG:HA	4:DU:86:VAL:HA	1.95	0.49
1:AV:551:ILE:HD11	2:BV:29:LEU:HD11	1.93	0.49
2:BW:157:VAL:O	2:BW:161:ILE:HG12	2.13	0.49
2:B1:209:GLN:O	2:B1:212:GLU:HG2	2.12	0.49
3:C1:148:HIS:O	3:C1:152:ARG:HG2	2.11	0.49
2:B2:209:GLN:O	2:B2:212:GLU:HG2	2.13	0.49
3:C2:316:ARG:HA	4:D2:86:VAL:HA	1.94	0.49
3:C3:260:GLU:OE1	4:D3:72:ARG:NH2	2.45	0.49
3:C4:106:HIS:CD2	3:C4:113:THR:HG22	2.47	0.49
4:E4:59:ASP:HA	4:F4:76:LYS:HZ1	1.77	0.49
3:C5:51:LEU:HD22	3:C5:231:LEU:HB3	1.95	0.49
1:A6:553:GLN:O	1:A6:557:ASN:ND2	2.46	0.49
2:B6:81:LEU:HD13	2:B6:93:LEU:HB2	1.94	0.49
2:B6:305:GLN:O	2:B6:309:LEU:HG	2.12	0.49
4:F6:105:LEU:HD22	4:F6:126:ILE:HD13	1.94	0.49
1:A7:547:VAL:HG23	2:B7:59:PHE:CZ	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C7:316:ARG:HA	4:D7:86:VAL:HA	1.94	0.49
2:B8:11:VAL:O	2:B8:15:MET:HG2	2.12	0.49
4:E9:67:GLU:OE1	4:E9:70:ARG:HD2	2.12	0.49
1:AA:536:ILE:HA	1:AA:539:MET:HE3	1.95	0.49
4:FA:96:PRO:HB2	4:FA:108:GLN:HB3	1.95	0.49
3:CB:56:ILE:HD11	3:CC:188:PHE:CD1	2.48	0.49
4:EB:93:ALA:HB3	4:FB:116:ASP:OD1	2.13	0.49
2:BE:41:MET:HE2	2:BF:77:LEU:HB2	1.93	0.49
4:FE:68:LEU:HA	4:FE:97:LEU:HD23	1.94	0.49
1:AH:544:PRO:HA	1:AH:547:VAL:HG12	1.94	0.49
4:FH:70:ARG:HH21	4:FH:137:ARG:NH2	2.11	0.49
2:BI:41:MET:CE	2:BJ:77:LEU:HB2	2.43	0.49
3:CJ:56:ILE:HD11	3:CK:188:PHE:CD1	2.48	0.49
4:DJ:104:TYR:HB3	4:DJ:131:ARG:NH2	2.28	0.49
4:DK:104:TYR:CD2	4:EK:61:PRO:HG3	2.48	0.49
4:FK:70:ARG:HH21	4:FK:137:ARG:HH22	1.59	0.49
1:AL:547:VAL:HG13	2:BL:25:VAL:HG22	1.94	0.49
3:CL:259:LEU:HD21	4:FM:60:ILE:HG21	1.95	0.49
2:BO:43:ASN:O	2:BO:45:ARG:NH1	2.46	0.49
3:CO:260:GLU:OE1	4:DO:72:ARG:NH2	2.46	0.49
4:DQ:67:GLU:HG3	4:DQ:98:ASP:HB3	1.93	0.49
2:BR:209:GLN:O	2:BR:212:GLU:HG2	2.13	0.49
3:CR:266:ALA:HB1	3:CR:286:ILE:HG12	1.95	0.49
3:CR:316:ARG:HA	4:DR:86:VAL:HA	1.94	0.49
4:ER:76:LYS:HZ3	4:FR:59:ASP:HA	1.77	0.49
2:BS:93:LEU:O	2:BS:97:ILE:HG12	2.12	0.49
2:BS:127:PRO:HB2	2:BS:160:ARG:NE	2.28	0.49
3:CS:316:ARG:HA	4:DS:86:VAL:HA	1.94	0.49
3:CT:105:ILE:HG21	3:CT:162:LEU:HD21	1.94	0.49
3:CT:316:ARG:HA	4:DT:86:VAL:HA	1.94	0.49
3:CU:57:ILE:HG21	3:CU:169:TRP:CD1	2.47	0.49
3:CV:51:LEU:HD22	3:CV:231:LEU:HB3	1.94	0.49
3:CV:281:GLY:HA2	4:DV:121:ARG:HE	1.77	0.49
2:BW:43:ASN:HB3	2:BX:101:ARG:NH2	2.27	0.49
2:BW:305:GLN:O	2:BW:309:LEU:HG	2.12	0.49
3:CX:106:HIS:HD2	3:CX:113:THR:HG22	1.76	0.49
3:CX:281:GLY:HA2	4:DX:121:ARG:HE	1.77	0.49
4:EX:75:ILE:HG13	4:FX:58:MET:HG2	1.94	0.49
2:BY:251:LEU:HA	2:BY:254:VAL:HG12	1.94	0.49
3:CY:260:GLU:OE1	4:DY:72:ARG:NH2	2.46	0.49
3:C1:274:GLN:O	3:C1:278:LEU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F3:126:ILE:HD11	4:F3:131:ARG:HH21	1.77	0.49
3:C5:101:ASN:OD1	3:C5:103:ASN:ND2	2.45	0.49
3:C7:255:GLN:HA	4:D7:75:ILE:HB	1.94	0.49
4:E8:67:GLU:OE1	4:E8:70:ARG:HD2	2.13	0.49
1:AB:547:VAL:HG13	2:BB:25:VAL:HG22	1.95	0.49
4:EC:93:ALA:HB3	4:FC:116:ASP:OD1	2.13	0.49
2:BD:209:GLN:O	2:BD:212:GLU:HG2	2.13	0.49
2:BD:267:GLU:HB3	2:BD:269:PRO:HD2	1.94	0.49
3:CD:281:GLY:HA2	4:DD:121:ARG:HE	1.78	0.49
2:BE:41:MET:O	2:BE:44:VAL:HG12	2.13	0.49
3:CE:51:LEU:HD22	3:CE:231:LEU:HB3	1.94	0.49
3:CH:316:ARG:HA	4:DH:86:VAL:HA	1.94	0.49
2:BI:41:MET:HA	2:BI:44:VAL:HB	1.95	0.49
2:BI:43:ASN:HB3	2:BJ:101:ARG:NH2	2.27	0.49
2:BI:125:GLU:HA	3:CI:147:THR:HG21	1.94	0.49
4:DI:104:TYR:HB3	4:DI:131:ARG:NH2	2.28	0.49
4:FI:96:PRO:HB2	4:FI:108:GLN:HB3	1.93	0.49
3:CJ:105:ILE:HG21	3:CJ:162:LEU:HD21	1.95	0.49
2:BL:10:SER:HA	2:BL:13:LEU:HD12	1.95	0.49
2:BL:218:VAL:HG11	2:BL:229:ILE:HD12	1.94	0.49
3:CM:51:LEU:HD22	3:CM:231:LEU:HB3	1.94	0.49
4:FM:65:THR:HG23	4:FM:100:LEU:HB2	1.94	0.49
2:BN:38:SER:HB3	2:BO:97:ILE:HD11	1.94	0.49
2:BN:242:VAL:O	2:BN:243:ASP:OD1	2.31	0.49
2:BP:298:LEU:HD11	2:BQ:329:THR:HB	1.93	0.49
3:CQ:260:GLU:HA	4:DQ:72:ARG:HH22	1.78	0.49
4:EQ:92:LEU:HA	4:FQ:117:LYS:HD2	1.94	0.49
3:CU:51:LEU:HD22	3:CU:231:LEU:HB3	1.94	0.49
2:BV:246:SER:O	2:BV:250:LEU:HD23	2.12	0.49
4:EV:125:ILE:O	4:EV:126:ILE:HB	2.13	0.49
3:CX:260:GLU:OE1	4:DX:72:ARG:NH2	2.46	0.49
4:EY:67:GLU:OE1	4:EY:70:ARG:HD2	2.12	0.49
4:E1:55:ASP:HB3	4:E1:57:ILE:HD12	1.95	0.49
1:A3:551:ILE:HD11	2:B3:29:LEU:HD11	1.94	0.49
2:B3:125:GLU:HA	3:C3:147:THR:HG21	1.95	0.49
4:D3:60:ILE:O	4:D3:62:VAL:HG13	2.12	0.49
1:A5:548:ALA:HA	2:B5:25:VAL:HG13	1.94	0.49
2:B5:125:GLU:HA	3:C5:147:THR:HG21	1.95	0.49
2:B5:166:GLY:HA3	2:B6:190:ARG:HG2	1.95	0.49
2:B5:209:GLN:O	2:B5:212:GLU:HG2	2.13	0.49
4:D5:131:ARG:NH1	4:E5:59:ASP:OD2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F5:70:ARG:HH21	4:F5:137:ARG:NH2	2.11	0.49
2:B8:157:VAL:O	2:B8:161:ILE:HG12	2.13	0.49
4:E8:59:ASP:HA	4:F8:76:LYS:HZ1	1.77	0.49
2:B9:103:THR:HG21	2:B9:109:THR:HG23	1.95	0.49
2:B9:127:PRO:HB2	2:B9:160:ARG:NE	2.28	0.49
2:BA:81:LEU:HD12	2:BA:94:LEU:HG	1.94	0.49
2:BA:267:GLU:HB3	2:BA:269:PRO:HD2	1.94	0.49
3:CA:281:GLY:HA2	4:DA:121:ARG:HE	1.78	0.49
3:CB:51:LEU:HD22	3:CB:231:LEU:HB3	1.95	0.49
4:FB:126:ILE:HD11	4:FB:131:ARG:HH21	1.77	0.49
4:DC:78:LEU:HA	4:DC:81:LEU:HD23	1.94	0.49
4:EC:59:ASP:HA	4:FC:76:LYS:NZ	2.28	0.49
3:CF:56:ILE:HD11	3:CG:188:PHE:CD1	2.48	0.49
3:CF:281:GLY:HA2	4:DF:121:ARG:HE	1.77	0.49
3:CH:260:GLU:OE1	4:DH:72:ARG:NH2	2.46	0.49
2:BK:245:ARG:HH12	2:BK:249:ARG:HB2	1.76	0.49
3:CK:51:LEU:HD22	3:CK:231:LEU:HB3	1.93	0.49
3:CK:146:PHE:HA	3:CK:150:GLU:OE1	2.13	0.49
4:EL:92:LEU:HA	4:FL:117:LYS:HD2	1.94	0.49
4:EL:125:ILE:O	4:EL:126:ILE:HB	2.13	0.49
2:BM:103:THR:HG21	2:BM:109:THR:HG23	1.95	0.49
3:CM:281:GLY:HA2	4:DM:121:ARG:HE	1.76	0.49
4:DM:105:LEU:HB2	4:DM:131:ARG:HE	1.78	0.49
2:BQ:267:GLU:HB3	2:BQ:269:PRO:HD2	1.94	0.49
3:CQ:272:LEU:HB2	4:DQ:60:ILE:HB	1.95	0.49
2:BR:1:MET:HA	2:BR:51:GLN:HE22	1.78	0.49
4:DR:104:TYR:HB3	4:DR:131:ARG:NH2	2.28	0.49
4:FS:134:ARG:HA	4:FS:137:ARG:NH1	2.28	0.49
3:CT:274:GLN:O	3:CT:278:LEU:HB2	2.13	0.49
4:FU:133:ARG:HH12	4:FU:137:ARG:HH11	1.59	0.49
2:BV:116:GLN:HA	2:BV:148:LEU:HD13	1.94	0.49
2:BW:14:LEU:O	2:BX:76:TYR:OH	2.19	0.49
3:CW:260:GLU:OE1	4:DW:72:ARG:NH2	2.46	0.49
3:CX:316:ARG:HA	4:DX:86:VAL:HA	1.95	0.49
3:CY:281:GLY:HA2	4:DY:121:ARG:HE	1.77	0.49
4:DY:60:ILE:O	4:DY:62:VAL:HG13	2.12	0.49
3:C1:260:GLU:OE1	4:D1:72:ARG:NH2	2.46	0.49
4:D1:60:ILE:O	4:D1:62:VAL:HG13	2.12	0.49
4:E1:67:GLU:OE1	4:E1:70:ARG:HD2	2.13	0.49
4:F2:70:ARG:HH21	4:F2:137:ARG:NH2	2.11	0.49
2:B5:218:VAL:HG11	2:B5:229:ILE:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D6:60:ILE:O	4:D6:62:VAL:HG13	2.12	0.49
3:C7:105:ILE:HG21	3:C7:162:LEU:HD21	1.93	0.49
3:C7:238:ASN:ND2	3:C8:112:GLY:HA2	2.27	0.49
3:C7:253:GLN:HG3	4:F8:131:ARG:HH22	1.78	0.49
4:DA:105:LEU:HB3	4:DA:126:ILE:HG21	1.95	0.49
2:BF:267:GLU:HB3	2:BF:269:PRO:HD2	1.95	0.49
2:BF:305:GLN:O	2:BF:309:LEU:HG	2.12	0.49
4:DI:131:ARG:NH1	4:EI:59:ASP:OD2	2.45	0.49
3:CJ:281:GLY:HA2	4:DJ:121:ARG:HE	1.77	0.49
3:CJ:300:PRO:HD2	4:FJ:132:MET:SD	2.52	0.49
4:EJ:67:GLU:OE1	4:EJ:70:ARG:HD2	2.12	0.49
3:CL:238:ASN:ND2	3:CM:112:GLY:HA2	2.27	0.49
2:BM:251:LEU:HA	2:BM:254:VAL:HG12	1.95	0.49
4:EM:125:ILE:O	4:EM:126:ILE:HB	2.13	0.49
3:CN:105:ILE:HG21	3:CN:162:LEU:HD21	1.95	0.49
3:CO:255:GLN:HA	4:DO:75:ILE:HB	1.94	0.49
4:FO:133:ARG:HH12	4:FO:137:ARG:HH11	1.60	0.49
4:FO:134:ARG:HA	4:FO:137:ARG:NH1	2.28	0.49
4:EQ:74:THR:HG22	4:EQ:75:ILE:H	1.76	0.49
4:FR:70:ARG:HH21	4:FR:137:ARG:NH2	2.11	0.49
2:BT:41:MET:HE1	2:BU:77:LEU:HB2	1.95	0.49
4:FU:70:ARG:HH21	4:FU:137:ARG:NH2	2.11	0.49
4:EV:93:ALA:HB3	4:FV:116:ASP:OD2	2.13	0.49
4:DW:131:ARG:NH1	4:EW:59:ASP:OD2	2.46	0.49
1:A1:544:PRO:HA	1:A1:547:VAL:HG12	1.94	0.48
4:D1:104:TYR:HB3	4:D1:131:ARG:NH2	2.28	0.48
1:A2:553:GLN:O	1:A2:557:ASN:ND2	2.45	0.48
1:A3:553:GLN:O	1:A3:557:ASN:ND2	2.45	0.48
3:C3:281:GLY:HA2	4:D3:121:ARG:HE	1.77	0.48
4:F3:70:ARG:HH21	4:F3:137:ARG:NH2	2.11	0.48
4:E4:55:ASP:HB3	4:E4:57:ILE:HD12	1.95	0.48
4:F4:133:ARG:HH12	4:F4:137:ARG:HH11	1.60	0.48
3:C6:148:HIS:O	3:C6:152:ARG:HG2	2.11	0.48
4:E6:67:GLU:OE1	4:E6:70:ARG:HD2	2.12	0.48
3:C8:238:ASN:ND2	3:C9:112:GLY:HA2	2.27	0.48
1:A9:536:ILE:HD13	1:A9:539:MET:HE3	1.95	0.48
2:B9:135:VAL:HG11	2:BA:194:GLY:HA3	1.94	0.48
2:BA:41:MET:HA	2:BA:44:VAL:HB	1.95	0.48
2:BB:103:THR:HG21	2:BB:109:THR:HG23	1.95	0.48
2:BB:155:HIS:HA	2:BB:158:MET:CE	2.40	0.48
4:DB:104:TYR:HB3	4:DB:131:ARG:NH2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FD:70:ARG:HH21	4:FD:137:ARG:HH22	1.60	0.48
2:BE:209:GLN:O	2:BE:212:GLU:HG2	2.13	0.48
2:BF:46:GLN:NE2	2:BG:70:ASN:HD22	2.10	0.48
4:FF:70:ARG:HH21	4:FF:137:ARG:NH2	2.11	0.48
2:BG:166:GLY:HA3	2:BH:190:ARG:HG2	1.95	0.48
3:CG:106:HIS:HD2	3:CG:113:THR:HG22	1.77	0.48
4:EG:92:LEU:HA	4:FG:117:LYS:HD2	1.94	0.48
2:BL:103:THR:HG21	2:BL:109:THR:HG23	1.94	0.48
4:EM:126:ILE:O	4:EM:128:PRO:HD3	2.13	0.48
1:AN:544:PRO:HA	1:AN:547:VAL:HG12	1.94	0.48
1:AN:553:GLN:O	1:AN:557:ASN:ND2	2.45	0.48
3:CN:255:GLN:HA	4:DN:75:ILE:HB	1.95	0.48
3:CN:316:ARG:HA	4:DN:86:VAL:HA	1.94	0.48
4:EO:92:LEU:HA	4:FO:117:LYS:HD2	1.94	0.48
3:CP:238:ASN:ND2	3:CQ:112:GLY:HA2	2.27	0.48
3:CP:260:GLU:OE1	4:DP:72:ARG:NH2	2.46	0.48
1:AS:522:ARG:HD3	2:BT:64:GLU:HG3	1.95	0.48
2:BS:116:GLN:HA	2:BS:148:LEU:HD13	1.93	0.48
3:CT:281:GLY:HA2	4:DT:121:ARG:HE	1.77	0.48
2:BV:135:VAL:HG23	2:BV:161:ILE:HD12	1.95	0.48
3:CV:101:ASN:OD1	3:CV:103:ASN:ND2	2.46	0.48
2:BW:11:VAL:O	2:BW:15:MET:HG2	2.13	0.48
2:BW:267:GLU:HB3	2:BW:269:PRO:HD2	1.94	0.48
3:CX:51:LEU:HD22	3:CX:231:LEU:HB3	1.94	0.48
1:A1:532:MET:SD	2:B1:56:LEU:HD13	2.53	0.48
2:B1:41:MET:HE2	2:B2:77:LEU:HD22	1.95	0.48
4:F1:70:ARG:HH21	4:F1:137:ARG:NH2	2.11	0.48
3:C2:238:ASN:ND2	3:C3:112:GLY:HA2	2.28	0.48
4:F2:65:THR:HG23	4:F2:100:LEU:HB2	1.95	0.48
4:F2:100:LEU:HA	4:F2:105:LEU:HA	1.94	0.48
4:F2:134:ARG:HA	4:F2:137:ARG:NH1	2.28	0.48
3:C3:271:ARG:HH21	4:D3:59:ASP:HB2	1.79	0.48
3:C3:274:GLN:O	3:C3:278:LEU:HB2	2.13	0.48
1:A4:544:PRO:HA	1:A4:547:VAL:HG12	1.95	0.48
4:D4:101:ILE:HD13	4:E4:60:ILE:HD13	1.95	0.48
2:B5:21:ARG:O	2:B5:25:VAL:HG23	2.13	0.48
4:E5:93:ALA:HB3	4:F5:116:ASP:OD1	2.13	0.48
2:B7:21:ARG:O	2:B7:25:VAL:HG23	2.13	0.48
4:F7:134:ARG:HA	4:F7:137:ARG:NH1	2.27	0.48
1:A8:544:PRO:HA	1:A8:547:VAL:HG12	1.94	0.48
2:B8:242:VAL:O	2:B8:243:ASP:OD1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E8:75:ILE:HA	4:E8:78:LEU:HD12	1.94	0.48
2:B9:251:LEU:HA	2:B9:254:VAL:HG12	1.94	0.48
3:CA:247:ARG:CZ	4:EB:79:LEU:HB3	2.42	0.48
3:CA:316:ARG:HA	4:DA:86:VAL:HA	1.94	0.48
1:AB:553:GLN:O	1:AB:557:ASN:ND2	2.46	0.48
2:BC:31:THR:O	2:BC:35:GLN:HG2	2.13	0.48
3:CC:260:GLU:OE1	4:DC:72:ARG:NH2	2.44	0.48
2:BD:196:VAL:C	2:BD:198:THR:H	2.16	0.48
3:CE:316:ARG:HA	4:DE:86:VAL:HA	1.94	0.48
4:DE:74:THR:O	4:DE:78:LEU:HB2	2.13	0.48
1:AG:544:PRO:HA	1:AG:547:VAL:HG12	1.95	0.48
3:CG:238:ASN:ND2	3:CH:112:GLY:HA2	2.27	0.48
3:CH:238:ASN:ND2	3:CI:112:GLY:HA2	2.28	0.48
3:CI:271:ARG:HB2	3:CI:274:GLN:OE1	2.13	0.48
2:BJ:31:THR:O	2:BJ:35:GLN:HG2	2.13	0.48
3:CJ:238:ASN:ND2	3:CK:112:GLY:HA2	2.28	0.48
4:DJ:74:THR:N	4:DJ:77:GLU:OE2	2.26	0.48
4:FJ:70:ARG:HH21	4:FJ:137:ARG:NH2	2.12	0.48
1:AK:553:GLN:O	1:AK:557:ASN:ND2	2.45	0.48
2:BK:42:ALA:HB2	2:BL:97:ILE:HG23	1.96	0.48
3:CK:274:GLN:O	3:CK:278:LEU:HB2	2.13	0.48
3:CK:316:ARG:HA	4:DK:86:VAL:HA	1.94	0.48
4:EK:92:LEU:HA	4:FK:117:LYS:HD2	1.95	0.48
4:EL:55:ASP:HB3	4:EL:57:ILE:HD12	1.96	0.48
1:AO:544:PRO:HA	1:AO:547:VAL:HG12	1.94	0.48
3:CO:316:ARG:HA	4:DO:86:VAL:HA	1.94	0.48
1:AP:544:PRO:HA	1:AP:547:VAL:HG12	1.94	0.48
3:CP:316:ARG:HA	4:DP:86:VAL:HA	1.94	0.48
4:EP:125:ILE:O	4:EP:126:ILE:HB	2.13	0.48
3:CQ:266:ALA:HB1	3:CQ:286:ILE:HG12	1.96	0.48
1:AS:553:GLN:O	1:AS:557:ASN:ND2	2.46	0.48
4:ES:67:GLU:OE1	4:ES:70:ARG:HD2	2.12	0.48
3:CV:238:ASN:ND2	3:CW:112:GLY:HA2	2.27	0.48
4:EY:92:LEU:HA	4:FY:117:LYS:HD2	1.95	0.48
4:E2:92:LEU:HA	4:F2:117:LYS:HD2	1.95	0.48
2:B4:166:GLY:HA3	2:B5:190:ARG:HG2	1.95	0.48
3:C4:73:LEU:HB3	3:C4:129:ASN:ND2	2.29	0.48
3:C5:316:ARG:HA	4:D5:86:VAL:HA	1.95	0.48
4:E5:67:GLU:OE1	4:E5:70:ARG:HD2	2.13	0.48
2:B7:103:THR:HG21	2:B7:109:THR:HG23	1.95	0.48
3:C7:56:ILE:HD11	3:C8:188:PHE:CD1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F7:132:MET:SD	4:F7:135:LEU:HB3	2.53	0.48
2:BC:103:THR:HG21	2:BC:109:THR:HG23	1.95	0.48
2:BC:166:GLY:HA3	2:BD:190:ARG:HG2	1.94	0.48
3:CC:258:GLU:OE2	4:DC:73:MET:N	2.46	0.48
3:CC:266:ALA:HB1	3:CC:286:ILE:HG12	1.95	0.48
3:CC:281:GLY:HA2	4:DC:121:ARG:HE	1.78	0.48
4:EC:55:ASP:HB3	4:EC:57:ILE:HD12	1.95	0.48
2:BD:103:THR:HG21	2:BD:109:THR:HG23	1.95	0.48
3:CD:51:LEU:HD22	3:CD:231:LEU:HB3	1.95	0.48
3:CD:101:ASN:OD1	3:CD:103:ASN:ND2	2.46	0.48
3:CE:250:LEU:HD21	4:EF:78:LEU:O	2.13	0.48
4:FF:133:ARG:HH12	4:FF:137:ARG:NH1	2.12	0.48
2:BG:209:GLN:O	2:BG:212:GLU:HG2	2.13	0.48
3:CG:51:LEU:HD22	3:CG:231:LEU:HB3	1.94	0.48
3:CG:260:GLU:OE1	4:DG:72:ARG:NH2	2.46	0.48
4:EG:75:ILE:HA	4:EG:78:LEU:HD12	1.94	0.48
4:EG:125:ILE:O	4:EG:126:ILE:HB	2.14	0.48
2:BH:209:GLN:O	2:BH:212:GLU:HG2	2.13	0.48
3:CH:51:LEU:HD22	3:CH:231:LEU:HB3	1.94	0.48
4:FH:65:THR:HG23	4:FH:100:LEU:HB2	1.94	0.48
3:CL:247:ARG:CZ	4:EM:79:LEU:HB3	2.43	0.48
2:BM:12:ILE:HD11	2:BM:47:ILE:HG12	1.95	0.48
4:EM:93:ALA:HB3	4:FM:116:ASP:OD2	2.13	0.48
1:AN:552:ARG:HH11	1:AN:555:MET:HE3	1.78	0.48
4:DP:101:ILE:HG22	4:DP:106:ILE:HB	1.94	0.48
2:BS:125:GLU:HA	3:CS:147:THR:HG21	1.95	0.48
3:CT:299:VAL:HA	4:FT:132:MET:CE	2.41	0.48
2:BV:127:PRO:HB2	2:BV:160:ARG:NE	2.27	0.48
3:CV:260:GLU:OE1	4:DV:72:ARG:NH2	2.46	0.48
1:AW:536:ILE:HD13	1:AW:539:MET:HE3	1.94	0.48
2:BY:2:SER:H	2:BY:51:GLN:NE2	2.12	0.48
4:D1:99:ILE:HD12	4:D1:107:ALA:HB3	1.96	0.48
4:E1:105:LEU:HD22	4:E1:134:ARG:HH12	1.77	0.48
2:B2:116:GLN:HA	2:B2:148:LEU:HD13	1.96	0.48
3:C2:51:LEU:HD22	3:C2:231:LEU:HB3	1.95	0.48
3:C2:274:GLN:HA	3:C2:277:LYS:HE3	1.94	0.48
4:E3:71:THR:HB	4:F3:64:LEU:HD11	1.96	0.48
4:E3:131:ARG:HA	4:E3:134:ARG:NH1	2.28	0.48
2:B6:31:THR:O	2:B6:35:GLN:HG2	2.13	0.48
3:C6:316:ARG:HA	4:D6:86:VAL:HA	1.95	0.48
2:B8:21:ARG:O	2:B8:25:VAL:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C9:51:LEU:HD22	3:C9:231:LEU:HB3	1.94	0.48
4:D9:74:THR:N	4:D9:77:GLU:OE2	2.26	0.48
4:F9:70:ARG:HH21	4:F9:137:ARG:NH2	2.12	0.48
2:BA:93:LEU:O	2:BA:97:ILE:HG12	2.14	0.48
2:BB:81:LEU:HD13	2:BB:93:LEU:HB2	1.95	0.48
4:FB:68:LEU:HA	4:FB:97:LEU:HD23	1.94	0.48
2:BC:81:LEU:HD12	2:BC:94:LEU:HG	1.94	0.48
4:EC:67:GLU:OE1	4:EC:70:ARG:HD2	2.12	0.48
4:ED:55:ASP:HB3	4:ED:57:ILE:HD12	1.96	0.48
4:ED:128:PRO:HG3	4:ED:131:ARG:HH21	1.78	0.48
2:BF:31:THR:O	2:BF:35:GLN:HG2	2.13	0.48
2:BF:209:GLN:O	2:BF:212:GLU:HG2	2.13	0.48
3:CG:105:ILE:HG21	3:CG:162:LEU:HD21	1.94	0.48
4:FG:70:ARG:HH21	4:FG:137:ARG:NH2	2.11	0.48
2:BH:242:VAL:O	2:BH:243:ASP:OD1	2.32	0.48
3:CI:316:ARG:HA	4:DI:86:VAL:HA	1.95	0.48
4:EI:105:LEU:HD22	4:EI:134:ARG:HH12	1.78	0.48
2:BJ:166:GLY:HA3	2:BK:190:ARG:HG2	1.96	0.48
3:CJ:274:GLN:HA	3:CJ:277:LYS:HE3	1.94	0.48
3:CJ:316:ARG:HA	4:DJ:86:VAL:HA	1.94	0.48
3:CK:73:LEU:HB3	3:CK:129:ASN:ND2	2.29	0.48
2:BL:43:ASN:O	2:BL:45:ARG:NH1	2.44	0.48
2:BL:110:LEU:HA	2:BL:113:MET:HG3	1.95	0.48
2:BL:161:ILE:HG21	2:BM:202:ILE:HD12	1.95	0.48
2:BO:166:GLY:HA3	2:BP:190:ARG:HG2	1.95	0.48
4:FO:70:ARG:HH21	4:FO:137:ARG:NH2	2.11	0.48
2:BQ:21:ARG:O	2:BQ:25:VAL:HG23	2.13	0.48
2:BQ:209:GLN:O	2:BQ:212:GLU:HG2	2.13	0.48
3:CQ:73:LEU:HB3	3:CQ:129:ASN:ND2	2.28	0.48
4:FQ:133:ARG:HH12	4:FQ:137:ARG:HH11	1.60	0.48
2:BR:212:GLU:HA	2:BR:215:ILE:HG12	1.94	0.48
4:ER:125:ILE:O	4:ER:126:ILE:HB	2.14	0.48
3:CS:51:LEU:HD22	3:CS:231:LEU:HB3	1.95	0.48
4:FS:96:PRO:HB2	4:FS:108:GLN:HB3	1.94	0.48
3:CT:250:LEU:HD21	4:EU:78:LEU:O	2.13	0.48
3:CT:251:VAL:O	3:CT:255:GLN:HG3	2.14	0.48
2:BU:116:GLN:HA	2:BU:148:LEU:HD13	1.95	0.48
2:BU:157:VAL:O	2:BU:161:ILE:HG12	2.13	0.48
3:CX:271:ARG:HB2	3:CX:274:GLN:OE1	2.12	0.48
4:DX:60:ILE:O	4:DX:62:VAL:HG13	2.12	0.48
4:FX:126:ILE:HD11	4:FX:131:ARG:HH21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:532:MET:O	1:AY:535:ARG:HB2	2.13	0.48
2:BY:62:GLU:O	2:BY:65:GLN:HG3	2.13	0.48
2:B1:103:THR:HG21	2:B1:109:THR:HG23	1.95	0.48
2:B1:267:GLU:HB3	2:B1:269:PRO:HD2	1.93	0.48
1:A3:558:ASP:OD1	2:B3:6:GLY:HA3	2.14	0.48
4:E4:67:GLU:OE1	4:E4:70:ARG:HD2	2.13	0.48
4:E4:125:ILE:O	4:E4:126:ILE:HB	2.13	0.48
3:C5:106:HIS:HD2	3:C5:113:THR:HG22	1.78	0.48
4:E5:59:ASP:HA	4:F5:76:LYS:HZ1	1.77	0.48
1:A8:548:ALA:HA	2:B8:25:VAL:HG13	1.95	0.48
4:F8:70:ARG:HH21	4:F8:137:ARG:NH2	2.12	0.48
4:F8:105:LEU:HD22	4:F8:126:ILE:HD13	1.96	0.48
2:B9:242:VAL:O	2:B9:243:ASP:OD1	2.32	0.48
2:BA:125:GLU:HA	3:CA:147:THR:HG21	1.95	0.48
3:CA:238:ASN:ND2	3:CB:112:GLY:HA2	2.28	0.48
4:EA:125:ILE:O	4:EA:126:ILE:HB	2.14	0.48
3:CC:316:ARG:HA	4:DC:86:VAL:HA	1.94	0.48
4:ED:58:MET:HG2	4:FD:76:LYS:HZ1	1.77	0.48
4:DE:99:ILE:HD12	4:DE:107:ALA:HB3	1.96	0.48
1:AF:544:PRO:HA	1:AF:547:VAL:HG12	1.96	0.48
3:CI:107:LEU:HD11	3:CI:219:LEU:HD22	1.95	0.48
3:CI:255:GLN:HA	4:DI:75:ILE:HB	1.96	0.48
3:CI:281:GLY:HA2	4:DI:121:ARG:HE	1.78	0.48
2:BJ:116:GLN:HA	2:BJ:148:LEU:HD13	1.95	0.48
4:DL:99:ILE:HD12	4:DL:107:ALA:HB3	1.96	0.48
4:DM:106:ILE:HD13	4:EM:60:ILE:HD11	1.95	0.48
4:FM:70:ARG:HH21	4:FM:137:ARG:NH2	2.11	0.48
4:FM:70:ARG:HH21	4:FM:137:ARG:HH22	1.60	0.48
2:BN:209:GLN:O	2:BN:212:GLU:HG2	2.13	0.48
2:BP:242:VAL:O	2:BP:243:ASP:OD1	2.32	0.48
4:FP:65:THR:HG23	4:FP:100:LEU:HB2	1.95	0.48
3:CQ:316:ARG:HA	4:DQ:86:VAL:HA	1.95	0.48
2:BR:103:THR:HG21	2:BR:109:THR:HG23	1.95	0.48
2:BR:113:MET:SD	2:BR:118:ALA:HB2	2.53	0.48
3:CR:57:ILE:HG21	3:CR:169:TRP:CD1	2.48	0.48
4:ER:55:ASP:HB3	4:ER:57:ILE:HD12	1.96	0.48
4:DS:105:LEU:O	4:DS:131:ARG:NH2	2.40	0.48
4:DS:105:LEU:HB2	4:DS:131:ARG:HE	1.78	0.48
4:FS:70:ARG:HH21	4:FS:137:ARG:HH22	1.60	0.48
2:BU:62:GLU:O	2:BU:65:GLN:HG3	2.13	0.48
4:FU:65:THR:HG23	4:FU:100:LEU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:31:THR:O	2:BV:35:GLN:HG2	2.13	0.48
4:FV:70:ARG:HH21	4:FV:137:ARG:HH22	1.60	0.48
4:FV:132:MET:HE2	4:FV:136:SER:HB3	1.94	0.48
3:CW:107:LEU:HD11	3:CW:219:LEU:HD22	1.96	0.48
3:CY:266:ALA:HB1	3:CY:286:ILE:HG12	1.94	0.48
2:B1:139:ARG:HD2	2:B2:202:ILE:HA	1.96	0.48
3:C1:107:LEU:HD11	3:C1:219:LEU:HD22	1.95	0.48
1:A2:558:ASP:OD1	2:B2:6:GLY:HA3	2.14	0.48
2:B2:125:GLU:HA	3:C2:147:THR:HG21	1.95	0.48
2:B2:166:GLY:HA3	2:B3:190:ARG:HG2	1.94	0.48
1:A3:552:ARG:HH11	1:A3:555:MET:HE3	1.79	0.48
2:B3:103:THR:HG21	2:B3:109:THR:HG23	1.95	0.48
2:B4:267:GLU:HB3	2:B4:269:PRO:HD2	1.94	0.48
3:C4:238:ASN:HD22	3:C5:112:GLY:HA2	1.76	0.48
3:C4:260:GLU:OE1	4:D4:72:ARG:NH2	2.46	0.48
3:C5:179:TYR:OH	3:C5:182:SER:OG	2.23	0.48
3:C6:256:HIS:HB2	4:F7:104:TYR:CE2	2.48	0.48
4:D7:106:ILE:HD13	4:E7:60:ILE:HD11	1.95	0.48
3:C8:316:ARG:HA	4:D8:86:VAL:HA	1.95	0.48
3:CA:255:GLN:HA	4:DA:75:ILE:HB	1.96	0.48
4:DB:74:THR:N	4:DB:77:GLU:OE2	2.25	0.48
2:BC:125:GLU:HA	3:CC:147:THR:HG21	1.96	0.48
2:BC:210:GLN:O	2:BC:214:VAL:HG23	2.13	0.48
2:BC:245:ARG:HH12	2:BC:249:ARG:HB2	1.77	0.48
3:CE:293:ILE:HD12	3:CE:302:LEU:O	2.14	0.48
4:FK:70:ARG:HH21	4:FK:137:ARG:NH2	2.12	0.48
1:AM:558:ASP:OD1	2:BM:6:GLY:HA3	2.14	0.48
2:BM:209:GLN:O	2:BM:212:GLU:HG2	2.13	0.48
2:BN:312:VAL:HG13	2:BN:321:MET:HE1	1.96	0.48
4:FN:133:ARG:HH12	4:FN:137:ARG:NH1	2.11	0.48
3:CO:51:LEU:HD22	3:CO:231:LEU:HB3	1.95	0.48
3:CO:238:ASN:ND2	3:CP:112:GLY:HA2	2.27	0.48
4:DP:99:ILE:HD12	4:DP:107:ALA:HB3	1.96	0.48
3:CR:281:GLY:HA2	4:DR:121:ARG:HE	1.77	0.48
2:BS:245:ARG:HH12	2:BS:249:ARG:HB2	1.78	0.48
3:CS:238:ASN:ND2	3:CT:112:GLY:HA2	2.28	0.48
4:FS:100:LEU:HA	4:FS:105:LEU:HA	1.95	0.48
4:FS:132:MET:SD	4:FS:135:LEU:HB3	2.53	0.48
2:BT:295:PRO:HB2	2:BU:330:TYR:HB3	1.96	0.48
3:CT:51:LEU:HD22	3:CT:231:LEU:HB3	1.95	0.48
4:FT:70:ARG:HH21	4:FT:137:ARG:HH22	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FT:70:ARG:HH21	4:FT:137:ARG:NH2	2.12	0.48
3:CV:56:ILE:HD11	3:CW:188:PHE:CD1	2.48	0.48
3:CV:146:PHE:HA	3:CV:150:GLU:OE1	2.14	0.48
2:BY:157:VAL:O	2:BY:161:ILE:HG12	2.13	0.48
3:CY:51:LEU:HD22	3:CY:231:LEU:HB3	1.94	0.48
2:B3:21:ARG:O	2:B3:25:VAL:HG23	2.14	0.48
2:B4:139:ARG:NH1	2:B5:201:GLU:HB3	2.29	0.48
2:B4:245:ARG:HH12	2:B4:249:ARG:HB2	1.78	0.48
3:C4:274:GLN:O	3:C4:278:LEU:HB2	2.14	0.48
2:B5:31:THR:O	2:B5:35:GLN:HG2	2.14	0.48
4:D5:99:ILE:HD12	4:D5:107:ALA:HB3	1.96	0.48
2:B6:14:LEU:HB3	2:B7:76:TYR:OH	2.14	0.48
4:E6:93:ALA:HB3	4:F6:116:ASP:OD2	2.13	0.48
3:C7:51:LEU:HD22	3:C7:231:LEU:HB3	1.95	0.48
2:B8:127:PRO:HB2	2:B8:160:ARG:NE	2.28	0.48
2:B9:14:LEU:O	2:BA:76:TYR:OH	2.19	0.48
4:F9:126:ILE:HD11	4:F9:131:ARG:HH21	1.78	0.48
2:BB:78:ARG:HD2	2:BB:79:SER:N	2.28	0.48
3:CB:260:GLU:OE1	4:DB:72:ARG:NH2	2.46	0.48
3:CB:299:VAL:HA	4:FB:132:MET:CE	2.43	0.48
4:EB:67:GLU:OE1	4:EB:70:ARG:HD2	2.13	0.48
4:EB:125:ILE:O	4:EB:126:ILE:HB	2.14	0.48
3:CD:316:ARG:HA	4:DD:86:VAL:HA	1.95	0.48
3:CE:271:ARG:HH21	4:DE:59:ASP:HB2	1.79	0.48
4:DF:74:THR:N	4:DF:77:GLU:OE2	2.25	0.48
1:AG:536:ILE:HD13	1:AG:539:MET:HE3	1.96	0.48
3:CH:255:GLN:HA	4:DH:75:ILE:HB	1.96	0.48
4:FI:134:ARG:HA	4:FI:137:ARG:NH1	2.29	0.48
4:EJ:125:ILE:O	4:EJ:126:ILE:HB	2.13	0.48
2:BK:46:GLN:HG2	1:AL:549:LEU:HD13	1.95	0.48
2:BK:207:LYS:HG3	2:BK:209:GLN:H	1.78	0.48
2:BL:139:ARG:HH22	2:BM:198:THR:HG23	1.78	0.48
3:CL:316:ARG:HA	4:DL:86:VAL:HA	1.95	0.48
4:FL:70:ARG:HH21	4:FL:137:ARG:NH2	2.12	0.48
1:AM:553:GLN:O	1:AM:557:ASN:ND2	2.45	0.48
3:CM:56:ILE:HD11	3:CN:188:PHE:CD1	2.49	0.48
3:CM:255:GLN:HA	4:DM:75:ILE:HB	1.96	0.48
3:CM:259:LEU:HD21	4:FN:60:ILE:HG21	1.96	0.48
2:BN:135:VAL:HG11	2:BO:194:GLY:HA3	1.94	0.48
1:AP:551:ILE:HD11	2:BP:29:LEU:HD11	1.94	0.48
2:BP:171:ALA:HB1	3:CP:131:PHE:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DP:104:TYR:HB3	4:DP:131:ARG:NH2	2.29	0.48
3:CS:73:LEU:HB3	3:CS:129:ASN:ND2	2.29	0.48
4:ES:55:ASP:HB3	4:ES:57:ILE:HD12	1.95	0.48
4:FT:105:LEU:HD22	4:FT:126:ILE:HD13	1.94	0.48
4:DU:105:LEU:HB2	4:DU:131:ARG:HE	1.78	0.48
4:FU:96:PRO:HB2	4:FU:108:GLN:HB3	1.94	0.48
2:BW:41:MET:HA	2:BW:44:VAL:HB	1.96	0.48
3:CX:274:GLN:O	3:CX:278:LEU:HB2	2.14	0.48
1:AY:547:VAL:HG13	2:BY:25:VAL:HG22	1.95	0.48
3:CY:148:HIS:O	3:CY:152:ARG:HG2	2.14	0.48
3:CY:280:PRO:HG3	4:DY:125:ILE:HG13	1.95	0.48
2:B1:62:GLU:O	2:B1:65:GLN:HG3	2.13	0.48
4:F1:70:ARG:HH21	4:F1:137:ARG:HH22	1.60	0.48
1:A2:522:ARG:HD3	2:B3:64:GLU:HG3	1.96	0.48
4:D2:102:ASN:ND2	4:E2:61:PRO:O	2.46	0.48
1:A3:532:MET:O	1:A3:535:ARG:HB2	2.13	0.48
4:D3:101:ILE:HG22	4:D3:106:ILE:HB	1.94	0.48
3:C4:51:LEU:HD22	3:C4:231:LEU:HB3	1.95	0.48
2:B5:103:THR:HG21	2:B5:109:THR:HG23	1.96	0.48
4:D7:99:ILE:HD12	4:D7:107:ALA:HB3	1.95	0.48
4:F7:70:ARG:HH21	4:F7:137:ARG:NH2	2.12	0.48
3:C8:106:HIS:HD2	3:C8:113:THR:HG22	1.79	0.48
4:D8:74:THR:N	4:D8:77:GLU:OE2	2.25	0.48
4:D8:104:TYR:HB3	4:D8:131:ARG:NH2	2.29	0.48
4:E8:117:LYS:HA	4:E8:117:LYS:HD2	1.71	0.48
3:C9:255:GLN:HA	4:D9:75:ILE:HB	1.96	0.48
2:BB:21:ARG:O	2:BB:25:VAL:HG23	2.14	0.48
2:BB:166:GLY:HA3	2:BC:190:ARG:HG2	1.95	0.48
3:CB:238:ASN:ND2	3:CC:112:GLY:HA2	2.27	0.48
3:CC:274:GLN:O	3:CC:278:LEU:HB2	2.13	0.48
2:BD:31:THR:O	2:BD:35:GLN:HG2	2.14	0.48
3:CD:184:MET:H	3:CD:188:PHE:HD2	1.62	0.48
4:FD:74:THR:HG23	4:FD:76:LYS:H	1.78	0.48
4:DH:74:THR:N	4:DH:77:GLU:OE2	2.25	0.48
4:EI:67:GLU:OE1	4:EI:70:ARG:HD2	2.13	0.48
2:BJ:62:GLU:O	2:BJ:65:GLN:HG3	2.13	0.48
4:EJ:126:ILE:O	4:EJ:128:PRO:HD3	2.14	0.48
2:BK:103:THR:HG21	2:BK:109:THR:HG23	1.95	0.48
3:CK:56:ILE:HD11	3:CL:188:PHE:CD1	2.48	0.48
3:CK:148:HIS:O	3:CK:152:ARG:HG2	2.14	0.48
3:CK:255:GLN:HA	4:DK:75:ILE:HB	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:116:GLN:HA	2:BL:148:LEU:HD13	1.94	0.48
3:CL:274:GLN:O	3:CL:278:LEU:HB2	2.14	0.48
2:BM:37:LEU:O	2:BM:41:MET:HG2	2.13	0.48
2:BM:96:ASP:O	2:BM:100:THR:HG23	2.13	0.48
3:CM:73:LEU:HB3	3:CM:129:ASN:ND2	2.29	0.48
4:EN:59:ASP:HA	4:FN:76:LYS:NZ	2.29	0.48
4:FP:126:ILE:HD11	4:FP:131:ARG:HH21	1.79	0.48
2:BQ:242:VAL:O	2:BQ:243:ASP:OD1	2.32	0.48
3:CQ:51:LEU:HD22	3:CQ:231:LEU:HB3	1.96	0.48
2:BR:245:ARG:HH12	2:BR:249:ARG:HB2	1.78	0.48
4:ES:126:ILE:O	4:ES:128:PRO:HD3	2.14	0.48
2:BU:253:GLU:OE1	2:BU:314:ARG:NH2	2.47	0.48
4:DV:104:TYR:HB3	4:DV:131:ARG:NH2	2.29	0.48
4:FV:70:ARG:HH21	4:FV:137:ARG:NH2	2.11	0.48
3:CW:251:VAL:O	3:CW:255:GLN:HG3	2.14	0.48
4:EW:125:ILE:O	4:EW:126:ILE:HB	2.14	0.48
4:F1:105:LEU:HD22	4:F1:126:ILE:HD13	1.95	0.48
4:F1:134:ARG:HA	4:F1:137:ARG:NH1	2.29	0.48
2:B2:103:THR:HG21	2:B2:109:THR:HG23	1.96	0.48
4:E4:126:ILE:O	4:E4:128:PRO:HD3	2.13	0.48
3:C5:105:ILE:HG21	3:C5:162:LEU:HD21	1.95	0.48
1:A6:532:MET:SD	2:B6:56:LEU:HD13	2.53	0.48
4:F6:70:ARG:HH21	4:F6:137:ARG:NH2	2.11	0.48
3:C8:274:GLN:O	3:C8:278:LEU:HB2	2.14	0.48
3:C9:73:LEU:HB3	3:C9:129:ASN:ND2	2.29	0.48
3:C9:316:ARG:HA	4:D9:86:VAL:HA	1.95	0.48
2:BA:113:MET:SD	2:BA:118:ALA:HB2	2.54	0.48
2:BB:26:PHE:CD2	2:BC:84:ALA:HB1	2.49	0.48
3:CD:255:GLN:HA	4:DD:75:ILE:HB	1.96	0.48
1:AE:553:GLN:O	1:AE:557:ASN:ND2	2.47	0.48
2:BG:116:GLN:HA	2:BG:148:LEU:HD13	1.95	0.48
3:CG:255:GLN:HA	4:DG:75:ILE:HB	1.96	0.48
3:CG:316:ARG:HA	4:DG:86:VAL:HA	1.95	0.48
2:BH:166:GLY:HA3	2:BI:190:ARG:HG2	1.95	0.48
2:BI:103:THR:HG21	2:BI:109:THR:HG23	1.95	0.48
1:AJ:553:GLN:O	1:AJ:557:ASN:ND2	2.46	0.48
4:EJ:59:ASP:HA	4:FJ:76:LYS:HZ1	1.79	0.48
1:AK:547:VAL:HG23	2:BK:59:PHE:CZ	2.44	0.48
1:AK:558:ASP:OD1	2:BK:6:GLY:HA3	2.14	0.48
3:CL:51:LEU:HD22	3:CL:231:LEU:HB3	1.95	0.48
2:BM:166:GLY:HA3	2:BN:190:ARG:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:112:GLY:HA3	3:CM:223:MET:HE3	1.96	0.48
2:BN:103:THR:HG21	2:BN:109:THR:HG23	1.94	0.48
3:CN:89:TYR:HD2	3:CN:195:PRO:HA	1.79	0.48
3:CN:260:GLU:OE1	4:DN:72:ARG:NH2	2.47	0.48
3:CO:148:HIS:O	3:CO:152:ARG:HG2	2.13	0.48
2:BP:134:LEU:HD13	2:BP:146:LEU:HD11	1.96	0.48
2:BQ:30:SER:O	2:BQ:34:VAL:HG23	2.14	0.48
2:BQ:103:THR:HG21	2:BQ:109:THR:HG23	1.96	0.48
4:FQ:65:THR:HG23	4:FQ:100:LEU:HB2	1.96	0.48
4:FR:134:ARG:HA	4:FR:137:ARG:NH1	2.29	0.48
2:BU:242:VAL:O	2:BU:243:ASP:OD1	2.31	0.48
2:BV:78:ARG:HA	2:BV:94:LEU:HD11	1.96	0.48
3:CX:73:LEU:HB3	3:CX:129:ASN:ND2	2.29	0.48
2:BY:77:LEU:HD21	2:BY:97:ILE:HG13	1.96	0.48
3:CY:271:ARG:HH21	4:DY:59:ASP:HB2	1.79	0.48
1:A1:553:GLN:O	1:A1:557:ASN:ND2	2.47	0.48
3:C1:250:LEU:HD21	4:E2:78:LEU:O	2.13	0.48
3:C3:146:PHE:HA	3:C3:150:GLU:OE1	2.14	0.48
4:F3:65:THR:HG23	4:F3:100:LEU:HB2	1.95	0.48
2:B4:125:GLU:HA	3:C4:147:THR:HG21	1.96	0.48
4:D4:99:ILE:HD12	4:D4:107:ALA:HB3	1.96	0.48
3:C6:105:ILE:HG21	3:C6:162:LEU:HD21	1.95	0.48
3:C6:238:ASN:HD22	3:C7:112:GLY:HA2	1.78	0.48
2:B7:268:PRO:HG3	2:B7:271:ARG:HH21	1.79	0.48
4:F7:133:ARG:HH12	4:F7:137:ARG:HH11	1.62	0.48
3:C8:260:GLU:OE1	4:D8:72:ARG:NH2	2.45	0.48
2:BA:166:GLY:O	3:CA:132:GLY:HA2	2.14	0.48
4:EA:75:ILE:HG13	4:FA:58:MET:HG2	1.95	0.48
1:AB:547:VAL:HG23	2:BB:59:PHE:CZ	2.43	0.48
3:CC:73:LEU:HB3	3:CC:129:ASN:ND2	2.29	0.48
4:EC:74:THR:HG22	4:EC:75:ILE:H	1.78	0.48
2:BD:166:GLY:HA3	2:BE:190:ARG:HG2	1.95	0.48
3:CD:105:ILE:HG21	3:CD:162:LEU:HD21	1.95	0.48
3:CG:73:LEU:HB3	3:CG:129:ASN:ND2	2.29	0.48
4:DG:74:THR:N	4:DG:77:GLU:OE2	2.25	0.48
4:FH:70:ARG:HH21	4:FH:137:ARG:HH22	1.61	0.48
3:CI:73:LEU:HB3	3:CI:129:ASN:ND2	2.29	0.48
4:FJ:133:ARG:HH12	4:FJ:137:ARG:NH1	2.12	0.48
1:AK:522:ARG:HD3	2:BL:64:GLU:HG3	1.95	0.48
3:CK:238:ASN:HD22	3:CL:112:GLY:HA2	1.79	0.48
2:BL:166:GLY:HA3	2:BM:190:ARG:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:260:GLU:OE1	4:DL:72:ARG:NH2	2.47	0.48
4:DL:101:ILE:HD13	4:EL:60:ILE:HD13	1.96	0.48
3:CM:316:ARG:HA	4:DM:86:VAL:HA	1.94	0.48
4:DM:104:TYR:CE2	4:EM:61:PRO:HG3	2.48	0.48
4:FO:70:ARG:HH21	4:FO:137:ARG:HH22	1.60	0.48
2:BQ:38:SER:HA	2:BQ:41:MET:HG2	1.96	0.48
2:BQ:157:VAL:O	2:BQ:161:ILE:HG12	2.14	0.48
3:CQ:251:VAL:O	3:CQ:255:GLN:HG3	2.14	0.48
2:BR:21:ARG:O	2:BR:25:VAL:HG23	2.13	0.48
3:CS:251:VAL:O	3:CS:255:GLN:HG3	2.14	0.48
4:ET:59:ASP:HA	4:FT:76:LYS:NZ	2.28	0.48
3:CU:146:PHE:HA	3:CU:150:GLU:OE1	2.13	0.48
2:BV:46:GLN:NE2	2:BV:47:ILE:O	2.47	0.48
2:BW:26:PHE:HD1	2:BW:29:LEU:HD12	1.77	0.48
2:BW:46:GLN:NE2	2:BX:68:ALA:H	2.12	0.48
3:CW:281:GLY:HA2	4:DW:121:ARG:HE	1.78	0.48
4:FX:70:ARG:HH21	4:FX:137:ARG:NH2	2.12	0.48
3:CY:73:LEU:HB3	3:CY:129:ASN:ND2	2.29	0.48
2:B2:46:GLN:HB2	1:A3:549:LEU:HD13	1.95	0.47
3:C2:274:GLN:O	3:C2:278:LEU:HB2	2.14	0.47
2:B3:251:LEU:HD22	2:B3:278:MET:HG2	1.96	0.47
4:F4:134:ARG:HA	4:F4:137:ARG:HH12	1.78	0.47
3:C6:260:GLU:OE1	4:D6:72:ARG:NH2	2.46	0.47
4:F6:134:ARG:HA	4:F6:137:ARG:NH1	2.28	0.47
2:B7:38:SER:HB3	2:B8:97:ILE:HD11	1.96	0.47
2:B7:166:GLY:HA3	2:B8:190:ARG:HG2	1.96	0.47
4:E7:126:ILE:O	4:E7:128:PRO:HD3	2.14	0.47
2:B8:245:ARG:NH1	2:B8:249:ARG:HB2	2.28	0.47
3:C8:250:LEU:HD21	4:E9:78:LEU:O	2.14	0.47
4:E8:125:ILE:O	4:E8:126:ILE:HB	2.14	0.47
2:B9:78:ARG:HA	2:B9:94:LEU:HD11	1.96	0.47
3:C9:251:VAL:O	3:C9:255:GLN:HG3	2.14	0.47
3:CA:251:VAL:O	3:CA:255:GLN:HG3	2.14	0.47
2:BC:41:MET:HG3	2:BD:77:LEU:HD21	1.95	0.47
2:BC:209:GLN:O	2:BC:212:GLU:HG2	2.14	0.47
3:CD:146:PHE:HA	3:CD:150:GLU:OE1	2.13	0.47
3:CF:107:LEU:HD11	3:CF:219:LEU:HD22	1.96	0.47
3:CG:250:LEU:HD21	4:EH:78:LEU:O	2.14	0.47
3:CH:112:GLY:HA3	3:CH:223:MET:HE3	1.96	0.47
3:CH:274:GLN:O	3:CH:278:LEU:HB2	2.14	0.47
4:DI:74:THR:N	4:DI:77:GLU:OE2	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BJ:242:VAL:O	2:BJ:243:ASP:OD1	2.32	0.47
2:BJ:312:VAL:HG13	2:BJ:321:MET:HE1	1.96	0.47
4:EJ:92:LEU:HA	4:FJ:117:LYS:HD2	1.95	0.47
3:CL:73:LEU:HB3	3:CL:129:ASN:ND2	2.29	0.47
3:CL:255:GLN:HA	4:DL:75:ILE:HB	1.96	0.47
3:CO:251:VAL:O	3:CO:255:GLN:HG3	2.14	0.47
3:CO:281:GLY:HA2	4:DO:121:ARG:HE	1.78	0.47
4:DQ:98:ASP:OD1	4:DQ:99:ILE:N	2.46	0.47
1:AR:544:PRO:HA	1:AR:547:VAL:HG12	1.96	0.47
3:CR:73:LEU:HB3	3:CR:129:ASN:ND2	2.29	0.47
4:ER:130:GLU:HA	4:ER:133:ARG:HE	1.79	0.47
3:CS:89:TYR:HD2	3:CS:195:PRO:HA	1.79	0.47
3:CS:255:GLN:HA	4:DS:75:ILE:HB	1.95	0.47
4:ES:125:ILE:O	4:ES:126:ILE:HB	2.13	0.47
2:BT:116:GLN:HA	2:BT:148:LEU:HD13	1.95	0.47
4:DT:78:LEU:HA	4:DT:81:LEU:HD23	1.95	0.47
3:CU:73:LEU:HB3	3:CU:129:ASN:ND2	2.29	0.47
3:CV:251:VAL:O	3:CV:255:GLN:HG3	2.14	0.47
4:DV:99:ILE:HD12	4:DV:107:ALA:HB3	1.96	0.47
1:AW:522:ARG:HD3	2:BX:64:GLU:HG3	1.96	0.47
2:BW:90:ALA:O	2:BW:94:LEU:HG	2.14	0.47
2:BW:268:PRO:HG3	2:BW:271:ARG:HH21	1.79	0.47
1:AX:536:ILE:HA	1:AX:539:MET:HG2	1.96	0.47
2:BX:125:GLU:HA	3:CX:147:THR:HG21	1.96	0.47
2:BY:111:ASN:HD21	2:BY:138:LYS:HB2	1.79	0.47
2:B1:42:ALA:HB2	2:B2:97:ILE:HG23	1.96	0.47
3:C2:73:LEU:HB3	3:C2:129:ASN:ND2	2.29	0.47
3:C2:105:ILE:HG21	3:C2:162:LEU:HD21	1.95	0.47
3:C2:250:LEU:HD21	4:E3:78:LEU:O	2.13	0.47
3:C3:73:LEU:HB3	3:C3:129:ASN:ND2	2.29	0.47
1:A4:522:ARG:HD3	2:B5:64:GLU:HG3	1.96	0.47
4:F4:65:THR:HG23	4:F4:100:LEU:HB2	1.95	0.47
1:A5:544:PRO:HA	1:A5:547:VAL:HG12	1.96	0.47
2:B5:116:GLN:HA	2:B5:148:LEU:HD13	1.96	0.47
3:C7:73:LEU:HB3	3:C7:129:ASN:ND2	2.29	0.47
4:D7:74:THR:N	4:D7:77:GLU:OE2	2.25	0.47
1:A8:540:SER:OG	2:B8:21:ARG:HD3	2.14	0.47
4:D8:99:ILE:HD12	4:D8:107:ALA:HB3	1.96	0.47
3:C9:75:ARG:HD3	3:C9:129:ASN:ND2	2.29	0.47
4:D9:99:ILE:HD12	4:D9:107:ALA:HB3	1.96	0.47
2:BB:139:ARG:HD2	2:BC:202:ILE:CA	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:316:ARG:HA	4:DB:86:VAL:HA	1.95	0.47
2:BC:268:PRO:HG3	2:BC:271:ARG:HH21	1.79	0.47
3:CC:238:ASN:ND2	3:CD:112:GLY:HA2	2.29	0.47
3:CE:299:VAL:HA	4:FE:132:MET:CE	2.44	0.47
4:EG:59:ASP:HA	4:FG:76:LYS:NZ	2.29	0.47
4:EH:125:ILE:O	4:EH:126:ILE:HB	2.14	0.47
1:AI:553:GLN:O	1:AI:557:ASN:ND2	2.47	0.47
4:FI:70:ARG:HH21	4:FI:137:ARG:NH2	2.11	0.47
3:CJ:228:ARG:O	3:CJ:232:VAL:HG23	2.14	0.47
3:CK:228:ARG:O	3:CK:232:VAL:HG23	2.14	0.47
2:BL:242:VAL:O	2:BL:243:ASP:OD1	2.33	0.47
3:CP:240:ARG:N	3:CP:242:GLU:OE1	2.40	0.47
2:BQ:201:GLU:HA	2:BQ:204:ASN:HD22	1.79	0.47
3:CQ:228:ARG:O	3:CQ:232:VAL:HG23	2.14	0.47
3:CQ:280:PRO:HG3	4:DQ:125:ILE:HG13	1.95	0.47
4:FQ:134:ARG:HA	4:FQ:137:ARG:HH12	1.79	0.47
2:BS:103:THR:HG21	2:BS:109:THR:HG23	1.94	0.47
3:CS:260:GLU:OE1	4:DS:72:ARG:NH2	2.47	0.47
2:BU:46:GLN:NE2	2:BU:47:ILE:O	2.47	0.47
3:CU:281:GLY:HA2	4:DU:121:ARG:HE	1.78	0.47
3:CV:271:ARG:HH21	4:DV:59:ASP:HB2	1.79	0.47
2:BW:9:LYS:HA	2:BW:12:ILE:HD12	1.97	0.47
3:CW:259:LEU:HD21	4:FX:60:ILE:HG21	1.96	0.47
4:EW:126:ILE:O	4:EW:128:PRO:HD3	2.14	0.47
2:B1:125:GLU:HA	3:C1:147:THR:HG21	1.96	0.47
2:B2:46:GLN:NE2	1:A3:549:LEU:HD12	2.29	0.47
2:B2:245:ARG:HH12	2:B2:249:ARG:HB2	1.78	0.47
4:F4:132:MET:SD	4:F4:135:LEU:HB3	2.54	0.47
3:C5:73:LEU:HB3	3:C5:129:ASN:ND2	2.29	0.47
3:C5:238:ASN:ND2	3:C6:112:GLY:HA2	2.27	0.47
3:C6:51:LEU:HD22	3:C6:231:LEU:HB3	1.95	0.47
3:C6:179:TYR:OH	3:C6:182:SER:OG	2.23	0.47
2:B7:110:LEU:HA	2:B7:113:MET:HG3	1.95	0.47
1:A8:558:ASP:OD1	2:B8:6:GLY:HA3	2.13	0.47
2:B9:26:PHE:CD2	2:BA:84:ALA:HB1	2.50	0.47
2:B9:125:GLU:HA	3:C9:147:THR:HG21	1.96	0.47
4:E9:92:LEU:HA	4:F9:117:LYS:HD2	1.96	0.47
1:AA:522:ARG:HD3	2:BB:64:GLU:HG3	1.95	0.47
2:BA:209:GLN:O	2:BA:212:GLU:HG2	2.15	0.47
2:BC:43:ASN:O	2:BC:45:ARG:NH1	2.46	0.47
3:CC:51:LEU:HD22	3:CC:231:LEU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:73:LEU:HB3	3:CD:129:ASN:ND2	2.30	0.47
3:CD:250:LEU:HD21	4:EE:78:LEU:O	2.14	0.47
3:CD:260:GLU:OE1	4:DD:72:ARG:NH2	2.47	0.47
2:BE:41:MET:CE	2:BF:77:LEU:HB2	2.44	0.47
4:FE:70:ARG:HH21	4:FE:137:ARG:HH22	1.60	0.47
2:BG:72:ASN:O	2:BG:76:TYR:HB2	2.13	0.47
3:CM:251:VAL:O	3:CM:255:GLN:HG3	2.14	0.47
3:CN:296:VAL:HG23	3:CN:301:VAL:HG21	1.96	0.47
4:DO:99:ILE:HD12	4:DO:107:ALA:HB3	1.97	0.47
2:BP:30:SER:O	2:BP:34:VAL:HG23	2.14	0.47
4:EP:55:ASP:HB3	4:EP:57:ILE:HD12	1.97	0.47
3:CR:228:ARG:O	3:CR:232:VAL:HG23	2.14	0.47
2:BS:171:ALA:HB1	3:CS:131:PHE:CE1	2.49	0.47
4:ES:93:ALA:HB3	4:FS:116:ASP:OD1	2.14	0.47
4:FS:70:ARG:HH21	4:FS:137:ARG:NH2	2.11	0.47
2:BT:18:GLY:O	2:BU:76:TYR:OH	2.32	0.47
3:CT:258:GLU:OE1	4:DT:73:MET:N	2.47	0.47
2:BU:251:LEU:HA	2:BU:254:VAL:HG12	1.94	0.47
3:CU:105:ILE:HG21	3:CU:162:LEU:HD21	1.95	0.47
4:EU:125:ILE:O	4:EU:126:ILE:HB	2.15	0.47
1:AV:536:ILE:HA	1:AV:539:MET:HE3	1.96	0.47
3:CV:184:MET:H	3:CV:188:PHE:HD2	1.63	0.47
1:AW:544:PRO:HA	1:AW:547:VAL:HG12	1.94	0.47
2:BW:246:SER:HB3	2:BW:321:MET:HE3	1.96	0.47
3:CW:73:LEU:HB3	3:CW:129:ASN:ND2	2.29	0.47
2:BY:1:MET:HA	2:BY:51:GLN:HE22	1.79	0.47
4:EY:76:LYS:HZ3	4:FY:59:ASP:HA	1.80	0.47
4:FY:134:ARG:HA	4:FY:137:ARG:NH1	2.28	0.47
2:B1:251:LEU:HA	2:B1:254:VAL:HG12	1.96	0.47
3:C1:51:LEU:HD22	3:C1:231:LEU:HB3	1.95	0.47
2:B3:2:SER:H	2:B3:51:GLN:NE2	2.13	0.47
3:C3:273:SER:OG	4:D3:58:MET:O	2.15	0.47
4:D3:99:ILE:HD12	4:D3:107:ALA:HB3	1.96	0.47
4:E3:76:LYS:HZ3	4:F3:59:ASP:HA	1.80	0.47
3:C5:255:GLN:HA	4:D5:75:ILE:HB	1.96	0.47
4:D6:99:ILE:HD12	4:D6:107:ALA:HB3	1.96	0.47
3:C8:105:ILE:HG21	3:C8:162:LEU:HD21	1.96	0.47
2:BB:245:ARG:HH12	2:BB:249:ARG:HB2	1.78	0.47
4:FB:132:MET:SD	4:FB:135:LEU:HB3	2.54	0.47
4:FB:134:ARG:HA	4:FB:137:ARG:NH1	2.29	0.47
1:AC:532:MET:SD	2:BC:56:LEU:HD13	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:146:PHE:HA	3:CC:150:GLU:OE1	2.15	0.47
3:CC:253:GLN:HG3	4:FD:125:ILE:HD11	1.96	0.47
4:DF:99:ILE:HD12	4:DF:107:ALA:HB3	1.97	0.47
4:EF:75:ILE:HG13	4:FF:58:MET:HG2	1.95	0.47
4:EF:125:ILE:O	4:EF:126:ILE:HB	2.14	0.47
2:BG:125:GLU:HA	3:CG:147:THR:HG21	1.96	0.47
2:BH:113:MET:HE2	2:BH:117:SER:HB2	1.97	0.47
3:CI:271:ARG:HH21	4:DI:59:ASP:HB2	1.79	0.47
4:FI:133:ARG:HH12	4:FI:137:ARG:HH11	1.62	0.47
4:DJ:102:ASN:ND2	4:EJ:61:PRO:O	2.45	0.47
4:FJ:70:ARG:HH21	4:FJ:137:ARG:HH22	1.61	0.47
4:DK:131:ARG:NH1	4:EK:59:ASP:OD2	2.47	0.47
2:BO:93:LEU:O	2:BO:97:ILE:HG12	2.14	0.47
3:CO:73:LEU:HB3	3:CO:129:ASN:ND2	2.29	0.47
2:BQ:110:LEU:HA	2:BQ:113:MET:HG3	1.95	0.47
4:DQ:130:GLU:HG3	4:DQ:134:ARG:HD2	1.95	0.47
4:EQ:125:ILE:O	4:EQ:126:ILE:HB	2.15	0.47
4:ER:126:ILE:O	4:ER:128:PRO:HD3	2.15	0.47
2:BT:46:GLN:HE21	2:BU:70:ASN:ND2	2.12	0.47
4:EU:131:ARG:HA	4:EU:134:ARG:NH1	2.29	0.47
2:BV:11:VAL:O	2:BV:15:MET:HG2	2.14	0.47
1:AW:547:VAL:HG23	2:BW:59:PHE:CZ	2.44	0.47
1:AY:555:MET:SD	2:BY:33:GLU:HB3	2.55	0.47
2:BY:242:VAL:O	2:BY:243:ASP:OD1	2.32	0.47
3:CY:274:GLN:O	3:CY:278:LEU:HB2	2.14	0.47
2:B1:68:ALA:O	2:B1:70:ASN:ND2	2.48	0.47
2:B1:194:GLY:HA3	2:BY:135:VAL:HG11	1.95	0.47
2:B2:11:VAL:O	2:B2:15:MET:HG2	2.14	0.47
4:F4:70:ARG:HH21	4:F4:137:ARG:NH2	2.11	0.47
4:D6:102:ASN:ND2	4:E6:61:PRO:O	2.37	0.47
2:B7:209:GLN:O	2:B7:212:GLU:HG2	2.15	0.47
3:C7:260:GLU:OE1	4:D7:72:ARG:NH2	2.46	0.47
2:B9:21:ARG:O	2:B9:25:VAL:HG23	2.15	0.47
2:B9:209:GLN:O	2:B9:212:GLU:HG2	2.13	0.47
4:F9:134:ARG:HA	4:F9:137:ARG:NH1	2.28	0.47
2:BA:31:THR:O	2:BA:35:GLN:HG2	2.14	0.47
3:CA:293:ILE:HD12	3:CA:302:LEU:O	2.15	0.47
4:FA:70:ARG:HH21	4:FA:137:ARG:NH2	2.12	0.47
3:CB:250:LEU:HD21	4:EC:78:LEU:O	2.14	0.47
2:BE:242:VAL:O	2:BE:243:ASP:OD1	2.32	0.47
3:CE:73:LEU:HB3	3:CE:129:ASN:ND2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:81:LEU:HD13	2:BF:93:LEU:HB2	1.96	0.47
4:DF:104:TYR:HB3	4:DF:131:ARG:NH2	2.29	0.47
2:BG:10:SER:HA	2:BG:13:LEU:HD12	1.97	0.47
2:BG:251:LEU:HA	2:BG:254:VAL:HG12	1.96	0.47
4:DG:99:ILE:HD12	4:DG:107:ALA:HB3	1.97	0.47
2:BH:9:LYS:HA	2:BH:12:ILE:HD12	1.95	0.47
2:BH:110:LEU:HA	2:BH:113:MET:HG3	1.96	0.47
3:CH:73:LEU:HB3	3:CH:129:ASN:ND2	2.30	0.47
4:DH:99:ILE:HD12	4:DH:107:ALA:HB3	1.97	0.47
3:CI:56:ILE:HD11	3:CJ:188:PHE:CD1	2.50	0.47
3:CL:228:ARG:O	3:CL:232:VAL:HG23	2.14	0.47
3:CN:146:PHE:HA	3:CN:150:GLU:OE1	2.15	0.47
2:BP:46:GLN:HB2	1:AQ:549:LEU:HD22	1.97	0.47
3:CP:228:ARG:O	3:CP:232:VAL:HG23	2.15	0.47
1:AS:534:GLN:HG3	1:AS:537:ARG:HH21	1.78	0.47
4:DT:102:ASN:ND2	4:ET:61:PRO:O	2.47	0.47
4:ET:93:ALA:HB3	4:FT:116:ASP:OD1	2.13	0.47
2:BW:103:THR:HG21	2:BW:109:THR:HG23	1.95	0.47
2:BX:253:GLU:OE1	2:BX:314:ARG:NH2	2.48	0.47
3:CX:222:SER:HA	3:CX:225:GLU:HG2	1.96	0.47
4:DX:99:ILE:HD12	4:DX:107:ALA:HB3	1.97	0.47
2:BY:103:THR:HG21	2:BY:109:THR:HG23	1.95	0.47
4:FY:126:ILE:HD11	4:FY:131:ARG:HH21	1.78	0.47
4:D1:101:ILE:HG22	4:D1:106:ILE:HB	1.96	0.47
3:C2:146:PHE:HA	3:C2:150:GLU:OE1	2.14	0.47
3:C3:56:ILE:HD11	3:C4:188:PHE:CD1	2.48	0.47
3:C3:251:VAL:O	3:C3:255:GLN:HG3	2.15	0.47
3:C4:255:GLN:HA	4:D4:75:ILE:HB	1.96	0.47
2:B5:242:VAL:O	2:B5:243:ASP:OD1	2.33	0.47
1:A7:544:PRO:HA	1:A7:547:VAL:HG12	1.96	0.47
2:B7:93:LEU:O	2:B7:97:ILE:HG12	2.14	0.47
4:E7:125:ILE:O	4:E7:126:ILE:HB	2.14	0.47
3:C8:73:LEU:HB3	3:C8:129:ASN:ND2	2.29	0.47
2:B9:246:SER:O	2:B9:250:LEU:HD23	2.14	0.47
3:CA:105:ILE:HG21	3:CA:162:LEU:HD21	1.96	0.47
4:EA:126:ILE:O	4:EA:128:PRO:HD3	2.14	0.47
1:AC:549:LEU:HA	1:AC:552:ARG:HB2	1.96	0.47
4:EC:126:ILE:O	4:EC:128:PRO:HD3	2.15	0.47
2:BD:110:LEU:HA	2:BD:113:MET:HG3	1.96	0.47
4:DE:101:ILE:HG22	4:DE:106:ILE:HB	1.96	0.47
4:FE:65:THR:HG23	4:FE:100:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:31:THR:O	2:BG:35:GLN:HG2	2.13	0.47
4:EH:105:LEU:HD21	4:EH:108:GLN:NE2	2.30	0.47
2:BI:93:LEU:O	2:BI:97:ILE:HG12	2.15	0.47
3:CI:228:ARG:O	3:CI:232:VAL:HG23	2.14	0.47
4:EI:59:ASP:HA	4:FI:76:LYS:HZ1	1.80	0.47
2:BJ:125:GLU:HA	3:CJ:147:THR:HG21	1.95	0.47
2:BK:81:LEU:HD12	2:BK:94:LEU:HG	1.96	0.47
3:CK:271:ARG:HH21	4:DK:59:ASP:HB2	1.80	0.47
4:EM:74:THR:O	4:EM:78:LEU:HG	2.14	0.47
2:BO:31:THR:O	2:BO:35:GLN:HG2	2.15	0.47
3:CO:228:ARG:O	3:CO:232:VAL:HG23	2.14	0.47
3:CP:255:GLN:HA	4:DP:75:ILE:HB	1.97	0.47
3:CR:238:ASN:ND2	3:CS:112:GLY:HA2	2.27	0.47
4:ER:76:LYS:NZ	4:FR:59:ASP:HA	2.30	0.47
4:FR:133:ARG:HH12	4:FR:137:ARG:HH11	1.61	0.47
2:BS:69:LEU:HG	2:BS:70:ASN:N	2.30	0.47
3:CS:228:ARG:O	3:CS:232:VAL:HG23	2.14	0.47
4:DU:130:GLU:HG3	4:DU:134:ARG:HD2	1.96	0.47
2:BW:10:SER:HA	2:BW:13:LEU:HD12	1.97	0.47
2:BW:81:LEU:HD13	2:BW:93:LEU:HB2	1.97	0.47
2:BX:21:ARG:O	2:BX:25:VAL:HG23	2.15	0.47
2:BY:31:THR:O	2:BY:35:GLN:HG2	2.14	0.47
3:CY:89:TYR:HD2	3:CY:195:PRO:HA	1.80	0.47
3:C1:73:LEU:HB3	3:C1:129:ASN:ND2	2.30	0.47
3:C1:255:GLN:HA	4:D1:75:ILE:HB	1.96	0.47
3:C2:260:GLU:OE1	4:D2:72:ARG:NH2	2.47	0.47
1:A3:547:VAL:HG23	2:B3:59:PHE:CZ	2.47	0.47
2:B3:207:LYS:HG3	2:B3:209:GLN:H	1.79	0.47
3:C3:266:ALA:HB1	3:C3:286:ILE:HG12	1.96	0.47
2:B4:78:ARG:HG3	2:B4:94:LEU:CD1	2.44	0.47
2:B4:113:MET:CE	2:B4:117:SER:HB2	2.45	0.47
2:B4:206:MET:HB2	2:B4:211:GLU:HB3	1.96	0.47
3:C4:56:ILE:HD11	3:C5:188:PHE:CD1	2.50	0.47
3:C4:251:VAL:O	3:C4:255:GLN:HG3	2.15	0.47
2:B5:26:PHE:HA	2:B5:29:LEU:HD12	1.97	0.47
2:B5:41:MET:CE	2:B6:77:LEU:HB2	2.43	0.47
3:C5:253:GLN:HG3	4:F6:125:ILE:HD11	1.96	0.47
4:F5:100:LEU:HA	4:F5:105:LEU:HA	1.97	0.47
3:C6:73:LEU:HB3	3:C6:129:ASN:ND2	2.30	0.47
3:C7:271:ARG:HH21	4:D7:59:ASP:HB2	1.80	0.47
3:C8:75:ARG:HD3	3:C8:129:ASN:ND2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B9:253:GLU:OE1	2:B9:314:ARG:NH2	2.48	0.47
4:D9:101:ILE:HG22	4:D9:106:ILE:HB	1.96	0.47
4:FA:100:LEU:HA	4:FA:105:LEU:HA	1.97	0.47
2:BB:38:SER:HA	2:BB:41:MET:HG2	1.97	0.47
3:CB:75:ARG:HD3	3:CB:129:ASN:ND2	2.30	0.47
4:DB:99:ILE:HD12	4:DB:107:ALA:HB3	1.97	0.47
1:AC:522:ARG:HD3	2:BD:64:GLU:HG3	1.95	0.47
1:AC:544:PRO:HA	1:AC:547:VAL:HG12	1.97	0.47
2:BC:21:ARG:O	2:BC:25:VAL:HG23	2.14	0.47
2:BC:26:PHE:CD2	2:BD:84:ALA:HB1	2.50	0.47
1:AD:549:LEU:HA	1:AD:552:ARG:HB2	1.96	0.47
2:BD:81:LEU:HD12	2:BD:94:LEU:HG	1.96	0.47
2:BD:246:SER:O	2:BD:250:LEU:HD23	2.14	0.47
3:CD:75:ARG:HD3	3:CD:129:ASN:ND2	2.30	0.47
3:CD:272:LEU:HB2	4:DD:60:ILE:HB	1.97	0.47
4:ED:125:ILE:O	4:ED:126:ILE:HB	2.13	0.47
1:AE:532:MET:O	1:AE:536:ILE:HG12	2.15	0.47
4:EE:125:ILE:O	4:EE:126:ILE:HB	2.14	0.47
2:BF:93:LEU:O	2:BF:97:ILE:HG12	2.14	0.47
2:BF:110:LEU:HA	2:BF:113:MET:HG3	1.96	0.47
2:BF:166:GLY:HA3	2:BG:190:ARG:HG2	1.97	0.47
2:BF:268:PRO:HG3	2:BF:271:ARG:HH21	1.80	0.47
3:CF:51:LEU:HD22	3:CF:231:LEU:HB3	1.95	0.47
2:BG:113:MET:CE	2:BG:117:SER:HB2	2.45	0.47
2:BG:246:SER:O	2:BG:250:LEU:HD23	2.15	0.47
3:CG:251:VAL:O	3:CG:255:GLN:HG3	2.15	0.47
3:CG:274:GLN:O	3:CG:278:LEU:HB2	2.14	0.47
4:DG:101:ILE:HD13	4:EG:60:ILE:HD13	1.97	0.47
4:FG:133:ARG:HH12	4:FG:137:ARG:NH1	2.12	0.47
3:CH:271:ARG:HH21	4:DH:59:ASP:HB2	1.79	0.47
3:CI:251:VAL:O	3:CI:255:GLN:HG3	2.15	0.47
4:DI:99:ILE:HD12	4:DI:107:ALA:HB3	1.97	0.47
1:AJ:536:ILE:HA	1:AJ:539:MET:HE3	1.95	0.47
2:BJ:139:ARG:HG2	2:BK:201:GLU:OE1	2.15	0.47
3:CJ:73:LEU:HB3	3:CJ:129:ASN:ND2	2.29	0.47
2:BL:203:ILE:HG12	2:BL:214:VAL:HG11	1.96	0.47
3:CL:56:ILE:HD11	3:CM:188:PHE:CD1	2.50	0.47
4:EL:126:ILE:O	4:EL:128:PRO:HD3	2.14	0.47
1:AM:522:ARG:HD3	2:BN:64:GLU:HG3	1.97	0.47
1:AM:547:VAL:HG23	2:BM:59:PHE:CZ	2.41	0.47
2:BM:125:GLU:HA	3:CM:147:THR:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:131:ALA:O	2:BM:135:VAL:HG23	2.14	0.47
2:BM:207:LYS:HG3	2:BM:209:GLN:H	1.78	0.47
2:BM:242:VAL:O	2:BM:243:ASP:OD1	2.33	0.47
4:FM:133:ARG:HH12	4:FM:137:ARG:NH1	2.13	0.47
1:AN:558:ASP:OD1	2:BN:6:GLY:HA3	2.15	0.47
2:BN:171:ALA:HB1	3:CN:131:PHE:CE1	2.49	0.47
3:CN:73:LEU:HB3	3:CN:129:ASN:ND2	2.30	0.47
3:CN:272:LEU:HB2	4:DN:60:ILE:HB	1.97	0.47
3:CN:274:GLN:O	3:CN:278:LEU:HB2	2.15	0.47
2:BO:273:LYS:HA	2:BO:276:ARG:NH1	2.30	0.47
3:CO:146:PHE:HA	3:CO:150:GLU:OE1	2.14	0.47
3:CP:75:ARG:HD3	3:CP:129:ASN:ND2	2.29	0.47
4:EP:126:ILE:O	4:EP:128:PRO:HD3	2.14	0.47
1:AQ:558:ASP:OD1	2:BQ:6:GLY:HA3	2.15	0.47
3:CQ:75:ARG:HD3	3:CQ:129:ASN:ND2	2.29	0.47
2:BR:157:VAL:O	2:BR:161:ILE:HG12	2.15	0.47
3:CR:260:GLU:HA	4:DR:72:ARG:HH22	1.79	0.47
3:CS:146:PHE:HA	3:CS:150:GLU:OE1	2.14	0.47
3:CS:274:GLN:O	3:CS:278:LEU:HB2	2.15	0.47
3:CT:73:LEU:HB3	3:CT:129:ASN:ND2	2.30	0.47
4:ET:55:ASP:HB3	4:ET:57:ILE:HD12	1.97	0.47
1:AU:522:ARG:HD3	2:BV:64:GLU:HG3	1.97	0.47
1:AU:558:ASP:OD1	2:BU:6:GLY:HA3	2.14	0.47
1:AV:534:GLN:HG3	1:AV:537:ARG:HH21	1.79	0.47
3:CV:125:ILE:HG12	3:CV:211:LEU:HD13	1.97	0.47
3:CW:51:LEU:HD22	3:CW:231:LEU:HB3	1.95	0.47
3:CW:228:ARG:O	3:CW:232:VAL:HG23	2.14	0.47
3:CW:271:ARG:HH21	4:DW:59:ASP:HB2	1.80	0.47
2:BX:62:GLU:O	2:BX:65:GLN:HG3	2.14	0.47
2:BX:166:GLY:HA3	2:BY:190:ARG:HG2	1.95	0.47
3:CX:228:ARG:O	3:CX:232:VAL:HG23	2.14	0.47
4:DX:130:GLU:HG3	4:DX:134:ARG:HD2	1.97	0.47
1:AY:558:ASP:OD1	2:BY:6:GLY:HA3	2.15	0.47
2:BY:268:PRO:HG3	2:BY:271:ARG:HH21	1.80	0.47
3:CY:125:ILE:HG12	3:CY:211:LEU:HD13	1.97	0.47
3:CY:146:PHE:HA	3:CY:150:GLU:OE1	2.14	0.47
3:CY:228:ARG:O	3:CY:232:VAL:HG23	2.14	0.47
4:FY:70:ARG:HH21	4:FY:137:ARG:NH2	2.12	0.47
2:B1:76:TYR:OH	2:BY:14:LEU:O	2.23	0.47
4:E1:125:ILE:O	4:E1:126:ILE:HB	2.14	0.47
2:B2:253:GLU:HG3	2:B2:315:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:179:TYR:OH	3:C2:182:SER:OG	2.24	0.47
2:B3:161:ILE:HG22	2:B4:199:ALA:HB2	1.96	0.47
4:E3:125:ILE:O	4:E3:126:ILE:HB	2.15	0.47
2:B4:93:LEU:O	2:B4:97:ILE:HG12	2.15	0.47
4:D4:130:GLU:HG3	4:D4:134:ARG:HD2	1.96	0.47
4:E6:55:ASP:HB3	4:E6:57:ILE:HD12	1.97	0.47
3:C7:75:ARG:HD3	3:C7:129:ASN:ND2	2.30	0.47
2:B8:110:LEU:HA	2:B8:113:MET:HG3	1.96	0.47
4:E8:126:ILE:O	4:E8:128:PRO:HD3	2.14	0.47
1:A9:544:PRO:HA	1:A9:547:VAL:HG12	1.97	0.47
3:C9:146:PHE:HA	3:C9:150:GLU:OE1	2.15	0.47
4:E9:125:ILE:O	4:E9:126:ILE:HB	2.15	0.47
1:AA:558:ASP:OD1	2:BA:6:GLY:HA3	2.15	0.47
2:BA:11:VAL:O	2:BA:15:MET:HG2	2.15	0.47
2:BA:229:ILE:O	2:BA:233:MET:HG2	2.15	0.47
4:DA:99:ILE:HD12	4:DA:107:ALA:HB3	1.97	0.47
4:EA:75:ILE:HA	4:EA:78:LEU:HD12	1.95	0.47
2:BB:110:LEU:HA	2:BB:113:MET:HG3	1.96	0.47
3:CC:75:ARG:HD3	3:CC:129:ASN:ND2	2.30	0.47
3:CF:146:PHE:HA	3:CF:150:GLU:OE1	2.15	0.47
4:FF:134:ARG:HA	4:FF:137:ARG:HH12	1.80	0.47
2:BG:268:PRO:HG3	2:BG:271:ARG:HH21	1.80	0.47
4:DG:130:GLU:HG3	4:DG:134:ARG:HD2	1.97	0.47
4:DH:104:TYR:HB3	4:DH:131:ARG:NH2	2.30	0.47
3:CJ:274:GLN:O	3:CJ:278:LEU:HB2	2.15	0.47
1:AK:548:ALA:HA	2:BK:25:VAL:HG13	1.97	0.47
2:BN:21:ARG:O	2:BN:25:VAL:HG23	2.14	0.47
2:BN:245:ARG:NH1	2:BN:249:ARG:HB2	2.29	0.47
3:CN:56:ILE:HD11	3:CO:188:PHE:CD1	2.50	0.47
4:EO:125:ILE:O	4:EO:126:ILE:HB	2.14	0.47
3:CP:106:HIS:HD2	3:CP:113:THR:HG22	1.78	0.47
3:CQ:238:ASN:ND2	3:CR:112:GLY:HA2	2.29	0.47
3:CR:54:LEU:HB2	3:CR:231:LEU:HD23	1.96	0.47
3:CR:240:ARG:N	3:CR:242:GLU:OE1	2.40	0.47
1:AT:536:ILE:HD13	1:AT:539:MET:HE3	1.95	0.47
2:BT:21:ARG:O	2:BT:25:VAL:HG23	2.15	0.47
2:BT:93:LEU:O	2:BT:97:ILE:HG12	2.13	0.47
3:CT:107:LEU:HD11	3:CT:219:LEU:HD22	1.97	0.47
3:CT:254:VAL:O	4:DT:75:ILE:HD12	2.15	0.47
2:BU:246:SER:O	2:BU:250:LEU:HD23	2.14	0.47
2:BV:12:ILE:HD11	2:BV:47:ILE:HG12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:207:LYS:HG3	2:BV:209:GLN:H	1.78	0.47
2:BV:268:PRO:HG3	2:BV:271:ARG:HH21	1.80	0.47
3:CW:89:TYR:HD2	3:CW:195:PRO:HA	1.80	0.47
3:CX:250:LEU:HD21	4:EY:78:LEU:O	2.14	0.47
4:FX:76:LYS:O	4:FX:79:LEU:HG	2.15	0.47
3:CY:251:VAL:O	3:CY:255:GLN:HG3	2.15	0.47
3:CY:302:LEU:HD13	3:CY:317:VAL:HG13	1.97	0.47
2:B1:199:ALA:HB2	2:BY:161:ILE:HG22	1.97	0.47
3:C2:255:GLN:HA	4:D2:75:ILE:HB	1.96	0.47
4:E2:125:ILE:O	4:E2:126:ILE:HB	2.15	0.47
1:A4:547:VAL:HG23	2:B4:59:PHE:CZ	2.47	0.47
3:C4:146:PHE:HA	3:C4:150:GLU:OE1	2.15	0.47
2:B5:110:LEU:HA	2:B5:113:MET:HG3	1.96	0.47
2:B5:113:MET:CE	2:B5:117:SER:HB2	2.45	0.47
3:C5:75:ARG:HD3	3:C5:129:ASN:ND2	2.30	0.47
2:B7:246:SER:O	2:B7:250:LEU:HD23	2.15	0.47
2:B8:268:PRO:HG3	2:B8:271:ARG:HH21	1.80	0.47
3:C8:255:GLN:HA	4:D8:75:ILE:HB	1.97	0.47
2:B9:268:PRO:HG3	2:B9:271:ARG:HH21	1.80	0.47
3:CB:146:PHE:HA	3:CB:150:GLU:OE1	2.14	0.47
3:CC:250:LEU:HD21	4:ED:78:LEU:O	2.14	0.47
3:CD:228:ARG:O	3:CD:232:VAL:HG23	2.14	0.47
3:CD:251:VAL:O	3:CD:255:GLN:HG3	2.15	0.47
4:ED:74:THR:HG22	4:ED:75:ILE:H	1.79	0.47
2:BE:171:ALA:HB1	3:CE:131:PHE:CE1	2.49	0.47
4:FF:70:ARG:HH21	4:FF:137:ARG:HH22	1.62	0.47
3:CH:107:LEU:HD11	3:CH:219:LEU:HD22	1.95	0.47
2:BI:21:ARG:O	2:BI:25:VAL:HG23	2.15	0.47
4:DI:101:ILE:HG22	4:DI:106:ILE:HB	1.96	0.47
2:BJ:113:MET:CE	2:BJ:117:SER:HB2	2.45	0.47
2:BJ:218:VAL:HG11	2:BJ:229:ILE:HD12	1.96	0.47
4:DJ:99:ILE:HD12	4:DJ:107:ALA:HB3	1.97	0.47
4:FJ:134:ARG:HA	4:FJ:137:ARG:HH12	1.80	0.47
3:CK:251:VAL:O	3:CK:255:GLN:HG3	2.15	0.47
4:EL:117:LYS:HD2	4:EL:117:LYS:HA	1.71	0.47
2:BN:37:LEU:O	2:BN:41:MET:HG2	2.15	0.47
2:BN:125:GLU:HA	3:CN:147:THR:HG21	1.96	0.47
2:BN:127:PRO:HB2	2:BN:160:ARG:NE	2.29	0.47
4:FO:68:LEU:HA	4:FO:97:LEU:HD23	1.96	0.47
1:AP:558:ASP:OD1	2:BP:6:GLY:HA3	2.14	0.47
3:CP:73:LEU:HB3	3:CP:129:ASN:ND2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BQ:245:ARG:NH1	2:BQ:249:ARG:HB2	2.30	0.47
3:CR:89:TYR:HD2	3:CR:195:PRO:HA	1.79	0.47
3:CS:250:LEU:HD21	4:ET:78:LEU:O	2.15	0.47
3:CT:146:PHE:HA	3:CT:150:GLU:OE1	2.15	0.47
4:DT:104:TYR:HB3	4:DT:131:ARG:NH2	2.30	0.47
3:CU:75:ARG:HD3	3:CU:129:ASN:ND2	2.30	0.47
3:CV:250:LEU:HD21	4:EW:78:LEU:O	2.14	0.47
4:EV:126:ILE:O	4:EV:128:PRO:HD3	2.14	0.47
3:CX:271:ARG:HH21	4:DX:59:ASP:HB2	1.80	0.47
4:EX:76:LYS:HZ3	4:FX:59:ASP:HA	1.80	0.47
4:EX:125:ILE:O	4:EX:126:ILE:HB	2.15	0.47
1:A1:540:SER:OG	2:B1:21:ARG:HD3	2.15	0.47
2:B1:245:ARG:HH12	2:B1:249:ARG:HB2	1.80	0.47
2:B2:308:ILE:O	2:B2:312:VAL:HG23	2.15	0.47
3:C3:250:LEU:HD21	4:E4:78:LEU:O	2.14	0.47
2:B4:21:ARG:O	2:B4:25:VAL:HG23	2.15	0.47
3:C4:271:ARG:HH21	4:D4:59:ASP:HB2	1.80	0.47
4:D7:101:ILE:HD13	4:E7:60:ILE:HD13	1.96	0.47
1:A8:546:VAL:HG22	2:B8:70:ASN:HD21	1.79	0.47
4:F8:134:ARG:HA	4:F8:137:ARG:NH1	2.28	0.47
3:C9:246:TRP:HZ2	4:FA:122:ILE:HD12	1.80	0.47
2:BA:308:ILE:O	2:BA:312:VAL:HG23	2.15	0.47
2:BB:159:LEU:HB3	3:CB:137:PHE:CE2	2.50	0.47
2:BB:308:ILE:O	2:BB:312:VAL:HG23	2.15	0.47
4:EB:126:ILE:O	4:EB:128:PRO:HD3	2.15	0.47
4:FB:133:ARG:HH12	4:FB:137:ARG:HH11	1.63	0.47
1:AD:544:PRO:HA	1:AD:547:VAL:HG12	1.97	0.47
1:AE:547:VAL:HG23	2:BE:59:PHE:CZ	2.46	0.47
2:BE:96:ASP:O	2:BE:100:THR:HG23	2.14	0.47
2:BE:268:PRO:HG3	2:BE:271:ARG:HH21	1.79	0.47
1:AF:547:VAL:HG23	2:BF:59:PHE:CZ	2.47	0.47
2:BF:46:GLN:NE2	2:BG:70:ASN:HB3	2.30	0.47
3:CI:51:LEU:HD22	3:CI:231:LEU:HB3	1.95	0.47
3:CI:75:ARG:HD3	3:CI:129:ASN:ND2	2.30	0.47
4:EI:125:ILE:O	4:EI:126:ILE:HB	2.14	0.47
3:CJ:146:PHE:HA	3:CJ:150:GLU:OE1	2.15	0.47
3:CL:251:VAL:O	3:CL:255:GLN:HG3	2.15	0.47
4:FL:100:LEU:HA	4:FL:105:LEU:HA	1.97	0.47
4:DM:99:ILE:HD12	4:DM:107:ALA:HB3	1.97	0.47
2:BN:166:GLY:HA3	2:BO:190:ARG:HG2	1.96	0.47
3:CN:51:LEU:HD22	3:CN:231:LEU:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EN:125:ILE:O	4:EN:126:ILE:HB	2.15	0.47
3:CO:75:ARG:HD3	3:CO:129:ASN:ND2	2.30	0.47
4:DP:130:GLU:HG3	4:DP:134:ARG:HD2	1.97	0.47
2:BQ:139:ARG:HD2	2:BR:202:ILE:CG1	2.45	0.47
4:EQ:71:THR:HB	4:FQ:64:LEU:HD11	1.97	0.47
1:AR:558:ASP:OD1	2:BR:6:GLY:HA3	2.14	0.47
2:BR:251:LEU:HA	2:BR:254:VAL:HG12	1.96	0.47
3:CR:251:VAL:O	3:CR:255:GLN:HG3	2.13	0.47
1:AS:544:PRO:HA	1:AS:547:VAL:HG12	1.97	0.47
2:BS:246:SER:O	2:BS:250:LEU:HD23	2.15	0.47
2:BT:103:THR:HG21	2:BT:109:THR:HG23	1.95	0.47
3:CT:75:ARG:HD3	3:CT:129:ASN:ND2	2.30	0.47
3:CU:255:GLN:HA	4:DU:75:ILE:HB	1.97	0.47
4:DU:131:ARG:NH1	4:EU:59:ASP:OD2	2.47	0.47
2:BW:166:GLY:HA3	2:BX:190:ARG:HG2	1.96	0.47
2:BW:209:GLN:O	2:BW:212:GLU:HG2	2.14	0.47
3:CW:302:LEU:HD13	3:CW:317:VAL:HG13	1.97	0.47
2:BX:268:PRO:HG3	2:BX:271:ARG:HH21	1.80	0.47
2:BY:253:GLU:OE1	2:BY:314:ARG:NH2	2.48	0.47
4:EY:126:ILE:O	4:EY:128:PRO:HD3	2.14	0.47
2:B1:246:SER:O	2:B1:250:LEU:HD23	2.15	0.46
4:E1:78:LEU:O	3:CY:250:LEU:HD21	2.15	0.46
4:F2:133:ARG:HH12	4:F2:137:ARG:HH11	1.62	0.46
2:B4:10:SER:HA	2:B4:13:LEU:HD12	1.97	0.46
1:A5:553:GLN:O	1:A5:557:ASN:ND2	2.47	0.46
2:B5:246:SER:O	2:B5:250:LEU:HD23	2.14	0.46
2:B5:268:PRO:HG3	2:B5:271:ARG:HH21	1.80	0.46
4:D5:105:LEU:O	4:D5:131:ARG:NH2	2.36	0.46
4:E5:125:ILE:O	4:E5:126:ILE:HB	2.13	0.46
3:C6:146:PHE:HA	3:C6:150:GLU:OE1	2.15	0.46
4:E6:73:MET:SD	4:E6:74:THR:N	2.88	0.46
2:B7:31:THR:O	2:B7:35:GLN:HG2	2.15	0.46
3:C7:146:PHE:HA	3:C7:150:GLU:OE1	2.15	0.46
2:B8:146:LEU:O	2:B8:154:ARG:NE	2.47	0.46
3:C8:56:ILE:HD11	3:C9:188:PHE:CD1	2.50	0.46
2:B9:31:THR:O	2:B9:35:GLN:HG2	2.15	0.46
4:DA:102:ASN:ND2	4:EA:61:PRO:O	2.43	0.46
4:DA:104:TYR:HB3	4:DA:131:ARG:NH2	2.31	0.46
1:AB:558:ASP:OD1	2:BB:6:GLY:HA3	2.15	0.46
2:BD:125:GLU:HA	3:CD:147:THR:HG21	1.97	0.46
2:BE:246:SER:O	2:BE:250:LEU:HD23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:17:ILE:O	2:BF:21:ARG:HD2	2.15	0.46
2:BG:245:ARG:HH12	2:BG:249:ARG:HB2	1.80	0.46
4:EG:126:ILE:O	4:EG:128:PRO:HD3	2.15	0.46
1:AH:540:SER:OG	2:BH:21:ARG:HD3	2.15	0.46
4:EH:59:ASP:HA	4:FH:76:LYS:HZ1	1.80	0.46
1:AI:544:PRO:HA	1:AI:547:VAL:HG12	1.97	0.46
2:BI:26:PHE:CE2	2:BJ:84:ALA:HB1	2.50	0.46
2:BI:157:VAL:O	2:BI:161:ILE:HG12	2.15	0.46
2:BJ:113:MET:HE1	2:BJ:117:SER:HB2	1.96	0.46
3:CJ:246:TRP:HZ2	4:FK:122:ILE:HD12	1.80	0.46
2:BK:125:GLU:HA	3:CK:147:THR:HG21	1.97	0.46
4:EK:125:ILE:O	4:EK:126:ILE:HB	2.15	0.46
2:BM:113:MET:CE	2:BM:117:SER:HB2	2.45	0.46
2:BN:41:MET:HE2	2:BO:77:LEU:HD23	1.97	0.46
3:CN:125:ILE:HG12	3:CN:211:LEU:HD13	1.97	0.46
1:AP:540:SER:OG	2:BP:21:ARG:HD3	2.15	0.46
2:BQ:116:GLN:HA	2:BQ:148:LEU:HD13	1.96	0.46
2:BR:9:LYS:HA	2:BR:12:ILE:HD12	1.97	0.46
2:BR:171:ALA:HB1	3:CR:131:PHE:CE1	2.50	0.46
4:FR:100:LEU:HA	4:FR:105:LEU:HA	1.97	0.46
2:BS:62:GLU:O	2:BS:65:GLN:HG3	2.15	0.46
2:BU:110:LEU:HA	2:BU:113:MET:HG3	1.97	0.46
3:CU:228:ARG:O	3:CU:232:VAL:HG23	2.14	0.46
2:BV:166:GLY:HA3	2:BW:190:ARG:HG2	1.96	0.46
3:CV:255:GLN:HA	4:DV:75:ILE:HB	1.96	0.46
4:DW:99:ILE:HD12	4:DW:107:ALA:HB3	1.98	0.46
3:CX:251:VAL:O	3:CX:255:GLN:HG3	2.15	0.46
4:EX:93:ALA:HB3	4:FX:116:ASP:OD1	2.15	0.46
2:BY:246:SER:O	2:BY:250:LEU:HD23	2.15	0.46
3:CY:179:TYR:OH	3:CY:182:SER:OG	2.23	0.46
2:B2:26:PHE:HD1	2:B2:29:LEU:HD12	1.80	0.46
3:C2:251:VAL:O	3:C2:255:GLN:HG3	2.15	0.46
2:B4:31:THR:O	2:B4:35:GLN:HG2	2.15	0.46
3:C4:75:ARG:HD3	3:C4:129:ASN:ND2	2.30	0.46
3:C5:260:GLU:OE1	4:D5:72:ARG:NH2	2.47	0.46
4:D5:74:THR:N	4:D5:77:GLU:OE2	2.25	0.46
2:B6:209:GLN:O	2:B6:212:GLU:HG2	2.15	0.46
3:C7:228:ARG:O	3:C7:232:VAL:HG23	2.14	0.46
2:B8:125:GLU:HA	3:C8:147:THR:HG21	1.97	0.46
4:F8:133:ARG:HH12	4:F8:137:ARG:HH11	1.63	0.46
3:C9:107:LEU:HD11	3:C9:219:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E9:59:ASP:HA	4:F9:76:LYS:NZ	2.30	0.46
1:AA:544:PRO:HA	1:AA:547:VAL:HG12	1.97	0.46
1:AA:546:VAL:HG22	2:BA:70:ASN:HD21	1.78	0.46
3:CB:73:LEU:HB3	3:CB:129:ASN:ND2	2.29	0.46
3:CC:228:ARG:O	3:CC:232:VAL:HG23	2.14	0.46
3:CF:73:LEU:HB3	3:CF:129:ASN:ND2	2.31	0.46
3:CF:75:ARG:HD3	3:CF:129:ASN:ND2	2.30	0.46
3:CI:299:VAL:HA	4:FI:132:MET:CE	2.45	0.46
4:EI:75:ILE:O	4:EI:79:LEU:HG	2.14	0.46
2:BJ:268:PRO:HG3	2:BJ:271:ARG:HH21	1.80	0.46
3:CJ:51:LEU:HD22	3:CJ:231:LEU:HB3	1.96	0.46
4:FJ:100:LEU:HA	4:FJ:105:LEU:HA	1.98	0.46
2:BK:113:MET:CE	2:BK:117:SER:HB2	2.46	0.46
3:CL:75:ARG:HD3	3:CL:129:ASN:ND2	2.30	0.46
4:DL:106:ILE:HD13	4:EL:60:ILE:HD11	1.95	0.46
2:BN:110:LEU:HA	2:BN:113:MET:HG3	1.96	0.46
3:CN:228:ARG:O	3:CN:232:VAL:HG23	2.14	0.46
2:BO:21:ARG:O	2:BO:25:VAL:HG23	2.14	0.46
2:BO:127:PRO:HB2	2:BO:160:ARG:NE	2.30	0.46
3:CP:105:ILE:HG21	3:CP:162:LEU:HD21	1.96	0.46
4:EP:59:ASP:HA	4:FP:76:LYS:NZ	2.30	0.46
4:FP:70:ARG:HH21	4:FP:137:ARG:HH22	1.61	0.46
4:EQ:55:ASP:HB3	4:EQ:57:ILE:HD12	1.97	0.46
3:CR:75:ARG:HD3	3:CR:129:ASN:ND2	2.30	0.46
3:CS:75:ARG:HD3	3:CS:129:ASN:ND2	2.30	0.46
3:CU:302:LEU:HD13	3:CU:317:VAL:HG13	1.96	0.46
2:BV:2:SER:H	2:BV:51:GLN:NE2	2.13	0.46
2:BV:245:ARG:NH2	2:BV:320:GLU:O	2.48	0.46
1:AW:548:ALA:HA	2:BW:25:VAL:HG13	1.97	0.46
2:BW:110:LEU:HA	2:BW:113:MET:HG3	1.96	0.46
3:CX:125:ILE:HG12	3:CX:211:LEU:HD13	1.97	0.46
2:BY:113:MET:CE	2:BY:117:SER:HB2	2.45	0.46
3:CY:75:ARG:HD3	3:CY:129:ASN:ND2	2.30	0.46
3:C1:75:ARG:HD3	3:C1:129:ASN:ND2	2.30	0.46
2:B2:127:PRO:HB2	2:B2:160:ARG:NE	2.31	0.46
2:B2:161:ILE:HG21	2:B3:202:ILE:HD12	1.97	0.46
2:B2:246:SER:O	2:B2:250:LEU:HD23	2.15	0.46
3:C2:75:ARG:HD3	3:C2:129:ASN:ND2	2.30	0.46
4:E2:131:ARG:HA	4:E2:134:ARG:NH1	2.29	0.46
3:C3:255:GLN:HA	4:D3:75:ILE:HB	1.97	0.46
2:B4:139:ARG:HH22	2:B5:198:THR:HG23	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F4:134:ARG:HA	4:F4:137:ARG:NH1	2.30	0.46
3:C5:228:ARG:O	3:C5:232:VAL:HG23	2.14	0.46
4:E5:75:ILE:HG13	4:F5:58:MET:HG2	1.96	0.46
2:B6:11:VAL:O	2:B6:15:MET:HG2	2.15	0.46
3:C6:228:ARG:O	3:C6:232:VAL:HG23	2.14	0.46
3:C6:254:VAL:O	4:D6:75:ILE:HD12	2.15	0.46
2:B7:135:VAL:HG11	2:B8:194:GLY:HA3	1.98	0.46
3:C8:205:HIS:HE2	3:C8:212:THR:HG1	1.59	0.46
4:E8:74:THR:HG22	4:E8:75:ILE:H	1.79	0.46
4:E9:131:ARG:HA	4:E9:134:ARG:NH1	2.30	0.46
4:EC:125:ILE:O	4:EC:126:ILE:HB	2.13	0.46
3:CD:125:ILE:HG12	3:CD:211:LEU:HD13	1.97	0.46
2:BE:12:ILE:HD11	2:BE:47:ILE:HG12	1.98	0.46
3:CE:75:ARG:HD3	3:CE:129:ASN:ND2	2.31	0.46
3:CE:302:LEU:HD13	3:CE:317:VAL:HG13	1.98	0.46
4:DE:102:ASN:ND2	4:EE:61:PRO:O	2.39	0.46
1:AF:558:ASP:OD1	2:BF:6:GLY:HA3	2.15	0.46
3:CF:228:ARG:O	3:CF:232:VAL:HG23	2.14	0.46
3:CH:75:ARG:HD3	3:CH:129:ASN:ND2	2.30	0.46
3:CH:228:ARG:O	3:CH:232:VAL:HG23	2.15	0.46
3:CJ:251:VAL:O	3:CJ:255:GLN:HG3	2.15	0.46
1:AK:544:PRO:HA	1:AK:547:VAL:HG12	1.95	0.46
2:BL:21:ARG:O	2:BL:25:VAL:HG23	2.15	0.46
3:CL:146:PHE:HA	3:CL:150:GLU:OE1	2.15	0.46
2:BN:11:VAL:O	2:BN:15:MET:HG2	2.16	0.46
2:BN:268:PRO:HG3	2:BN:271:ARG:HH21	1.80	0.46
2:BP:157:VAL:O	2:BP:161:ILE:HG12	2.16	0.46
3:CP:146:PHE:HA	3:CP:150:GLU:OE1	2.16	0.46
4:FP:134:ARG:HA	4:FP:137:ARG:HH12	1.81	0.46
2:BR:246:SER:O	2:BR:250:LEU:HD23	2.16	0.46
2:BR:268:PRO:HG3	2:BR:271:ARG:HH21	1.80	0.46
2:BR:308:ILE:O	2:BR:312:VAL:HG23	2.15	0.46
3:CT:228:ARG:O	3:CT:232:VAL:HG23	2.14	0.46
4:ET:125:ILE:O	4:ET:126:ILE:HB	2.15	0.46
2:BU:10:SER:O	2:BU:14:LEU:HD23	2.16	0.46
3:CU:250:LEU:HD21	4:EV:78:LEU:O	2.15	0.46
4:EU:75:ILE:HB	4:EU:76:LYS:NZ	2.31	0.46
4:FU:134:ARG:HA	4:FU:137:ARG:NH1	2.30	0.46
1:AV:553:GLN:O	1:AV:557:ASN:ND2	2.48	0.46
2:BV:242:VAL:O	2:BV:243:ASP:OD1	2.34	0.46
3:CV:75:ARG:HD3	3:CV:129:ASN:ND2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:228:ARG:O	3:CV:232:VAL:HG23	2.15	0.46
3:CW:125:ILE:HG12	3:CW:211:LEU:HD13	1.97	0.46
3:CW:154:ILE:HA	3:CW:157:MET:HG2	1.97	0.46
2:BY:110:LEU:HA	2:BY:113:MET:HG3	1.97	0.46
3:CY:255:GLN:HA	4:DY:75:ILE:HB	1.96	0.46
2:B1:268:PRO:HG3	2:B1:271:ARG:HH21	1.81	0.46
4:E1:106:ILE:HD12	4:E1:125:ILE:HD11	1.98	0.46
3:C3:179:TYR:OH	3:C3:182:SER:OG	2.24	0.46
4:D3:104:TYR:HB3	4:D3:131:ARG:NH2	2.31	0.46
1:A4:553:GLN:O	1:A4:557:ASN:ND2	2.48	0.46
2:B4:127:PRO:HB2	2:B4:160:ARG:NE	2.30	0.46
3:C4:89:TYR:HD2	3:C4:195:PRO:HA	1.81	0.46
3:C4:125:ILE:HG12	3:C4:211:LEU:HD13	1.97	0.46
4:D4:104:TYR:HB3	4:D4:131:ARG:NH2	2.30	0.46
4:E4:76:LYS:HZ3	4:F4:59:ASP:HA	1.80	0.46
4:E5:117:LYS:HA	4:E5:117:LYS:HD2	1.71	0.46
4:E5:126:ILE:O	4:E5:128:PRO:HD3	2.14	0.46
3:C6:302:LEU:HD13	3:C6:317:VAL:HG13	1.98	0.46
3:C7:125:ILE:HG12	3:C7:211:LEU:HD13	1.97	0.46
3:C8:271:ARG:HH21	4:D8:59:ASP:HB2	1.80	0.46
4:F9:100:LEU:HA	4:F9:105:LEU:HA	1.98	0.46
2:BA:127:PRO:HB2	2:BA:160:ARG:NE	2.31	0.46
2:BB:253:GLU:HG3	2:BB:315:LEU:HD11	1.97	0.46
4:DC:105:LEU:HB2	4:DC:131:ARG:HE	1.80	0.46
4:EC:58:MET:SD	4:FC:75:ILE:HG13	2.55	0.46
1:AD:536:ILE:HA	1:AD:539:MET:HG2	1.97	0.46
2:BD:253:GLU:OE1	2:BD:314:ARG:NH2	2.48	0.46
3:CD:107:LEU:HD11	3:CD:219:LEU:HD22	1.97	0.46
4:DD:101:ILE:HD13	4:ED:60:ILE:HD13	1.97	0.46
1:AE:548:ALA:HA	2:BE:25:VAL:HG13	1.98	0.46
3:CE:89:TYR:HD2	3:CE:195:PRO:HA	1.81	0.46
3:CE:228:ARG:O	3:CE:232:VAL:HG23	2.15	0.46
3:CF:89:TYR:HD2	3:CF:195:PRO:HA	1.80	0.46
1:AG:547:VAL:HG23	2:BG:59:PHE:CZ	2.45	0.46
3:CG:228:ARG:O	3:CG:232:VAL:HG23	2.14	0.46
3:CG:271:ARG:HH21	4:DG:59:ASP:HB2	1.80	0.46
2:BI:62:GLU:O	2:BI:65:GLN:HG3	2.15	0.46
3:CJ:271:ARG:HH21	4:DJ:59:ASP:HB2	1.80	0.46
2:BK:93:LEU:O	2:BK:97:ILE:HG12	2.15	0.46
3:CK:75:ARG:HD3	3:CK:129:ASN:ND2	2.30	0.46
1:AM:544:PRO:HA	1:AM:547:VAL:HG12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:146:PHE:HA	3:CM:150:GLU:OE1	2.15	0.46
3:CN:251:VAL:O	3:CN:255:GLN:HG3	2.15	0.46
2:BO:110:LEU:HA	2:BO:113:MET:HG3	1.96	0.46
4:EO:71:THR:HB	4:FO:64:LEU:HD21	1.96	0.46
1:AQ:522:ARG:HD3	2:BR:64:GLU:HG3	1.98	0.46
2:BQ:139:ARG:HG2	2:BR:201:GLU:OE1	2.15	0.46
3:CQ:146:PHE:HA	3:CQ:150:GLU:OE1	2.15	0.46
3:CR:271:ARG:HH21	4:DR:59:ASP:HB2	1.80	0.46
4:ER:74:THR:O	4:ER:78:LEU:HG	2.15	0.46
4:FR:132:MET:SD	4:FR:135:LEU:HB3	2.56	0.46
2:BS:113:MET:CE	2:BS:117:SER:HB2	2.45	0.46
2:BT:125:GLU:HA	3:CT:147:THR:HG21	1.96	0.46
2:BT:161:ILE:O	2:BU:195:GLY:HA2	2.15	0.46
2:BU:46:GLN:HG2	2:BV:70:ASN:HD22	1.80	0.46
2:BU:127:PRO:HB2	2:BU:160:ARG:NE	2.30	0.46
3:CU:271:ARG:HH21	4:DU:59:ASP:HB2	1.81	0.46
1:AW:532:MET:O	1:AW:536:ILE:HG12	2.16	0.46
3:CW:255:GLN:HA	4:DW:75:ILE:HB	1.96	0.46
4:FW:70:ARG:HH21	4:FW:137:ARG:NH2	2.12	0.46
2:BX:48:SER:HB3	2:BY:66:PHE:CD1	2.50	0.46
3:CX:75:ARG:HD3	3:CX:129:ASN:ND2	2.30	0.46
4:EY:125:ILE:O	4:EY:126:ILE:HB	2.13	0.46
4:E3:75:ILE:HG13	4:F3:58:MET:HG2	1.96	0.46
4:F5:126:ILE:HD11	4:F5:131:ARG:HH21	1.80	0.46
3:C6:125:ILE:HG12	3:C6:211:LEU:HD13	1.98	0.46
2:B7:273:LYS:HA	2:B7:276:ARG:NH1	2.30	0.46
4:D8:101:ILE:HG22	4:D8:106:ILE:HB	1.97	0.46
1:A9:547:VAL:HG23	2:B9:59:PHE:CZ	2.47	0.46
2:BA:253:GLU:HG3	2:BA:315:LEU:HD11	1.98	0.46
2:BB:268:PRO:HG3	2:BB:271:ARG:HH21	1.81	0.46
3:CC:302:LEU:HD13	3:CC:317:VAL:HG13	1.98	0.46
2:BD:268:PRO:HG3	2:BD:271:ARG:HH21	1.81	0.46
4:FE:70:ARG:HH21	4:FE:137:ARG:NH2	2.14	0.46
1:AF:548:ALA:HA	2:BF:25:VAL:HG13	1.97	0.46
2:BH:246:SER:O	2:BH:250:LEU:HD23	2.15	0.46
4:FJ:76:LYS:O	4:FJ:79:LEU:HG	2.14	0.46
1:AK:540:SER:OG	2:BK:21:ARG:HD3	2.15	0.46
2:BK:251:LEU:HA	2:BK:254:VAL:HG12	1.98	0.46
2:BK:268:PRO:HG3	2:BK:271:ARG:HH21	1.80	0.46
3:CK:238:ASN:ND2	3:CL:112:GLY:HA2	2.30	0.46
4:FK:110:GLU:OE1	4:FK:121:ARG:NH1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:139:ARG:HG3	2:BM:205:LEU:CD1	2.45	0.46
3:CL:125:ILE:HG12	3:CL:211:LEU:HD13	1.97	0.46
2:BM:207:LYS:HE3	2:BM:209:GLN:H	1.81	0.46
2:BM:246:SER:O	2:BM:250:LEU:HD23	2.15	0.46
3:CM:228:ARG:O	3:CM:232:VAL:HG23	2.15	0.46
2:BP:113:MET:CE	2:BP:117:SER:HB2	2.46	0.46
4:EP:76:LYS:NZ	4:FP:59:ASP:HA	2.31	0.46
3:CQ:107:LEU:HD11	3:CQ:219:LEU:HD22	1.97	0.46
4:DQ:99:ILE:HD12	4:DQ:107:ALA:HB3	1.98	0.46
2:BR:297:ARG:NH2	2:BS:328:ASP:HB3	2.30	0.46
2:BS:10:SER:O	2:BS:14:LEU:HD23	2.15	0.46
3:CT:125:ILE:HG12	3:CT:211:LEU:HD13	1.97	0.46
2:BU:245:ARG:NH1	2:BU:249:ARG:HB2	2.30	0.46
2:BU:268:PRO:HG3	2:BU:271:ARG:HH21	1.80	0.46
4:EV:75:ILE:O	4:EV:79:LEU:HG	2.16	0.46
4:DW:102:ASN:ND2	4:EW:61:PRO:O	2.42	0.46
2:B1:97:ILE:HG22	2:B1:101:ARG:HH12	1.80	0.46
3:C1:271:ARG:HH21	4:D1:59:ASP:HB2	1.80	0.46
2:B2:21:ARG:O	2:B2:25:VAL:HG23	2.16	0.46
4:E2:75:ILE:O	4:E2:79:LEU:HG	2.16	0.46
2:B3:268:PRO:HG3	2:B3:271:ARG:HH21	1.80	0.46
3:C3:238:ASN:HD22	3:C4:112:GLY:HA2	1.80	0.46
3:C4:228:ARG:O	3:C4:232:VAL:HG23	2.14	0.46
4:E4:75:ILE:O	4:E4:79:LEU:HG	2.16	0.46
2:B6:110:LEU:HA	2:B6:113:MET:HG3	1.97	0.46
3:C6:75:ARG:HD3	3:C6:129:ASN:ND2	2.31	0.46
4:E9:75:ILE:HG13	4:F9:58:MET:HG2	1.97	0.46
3:CA:146:PHE:HA	3:CA:150:GLU:OE1	2.15	0.46
3:CB:228:ARG:O	3:CB:232:VAL:HG23	2.14	0.46
4:EB:55:ASP:HB3	4:EB:57:ILE:HD12	1.98	0.46
4:DC:104:TYR:HB3	4:DC:131:ARG:NH2	2.31	0.46
2:BD:127:PRO:HB2	2:BD:160:ARG:NE	2.31	0.46
2:BF:246:SER:O	2:BF:250:LEU:HD23	2.15	0.46
2:BG:253:GLU:OE1	2:BG:314:ARG:NH2	2.48	0.46
3:CG:56:ILE:HD11	3:CH:188:PHE:CD1	2.50	0.46
4:FG:70:ARG:HH21	4:FG:137:ARG:HH22	1.63	0.46
2:BH:19:GLU:OE1	2:BI:79:SER:OG	2.32	0.46
4:FH:134:ARG:HA	4:FH:137:ARG:HH12	1.80	0.46
2:BI:31:THR:O	2:BI:35:GLN:HG2	2.15	0.46
2:BJ:246:SER:O	2:BJ:250:LEU:HD23	2.15	0.46
1:AL:553:GLN:O	1:AL:557:ASN:ND2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:85:LEU:HD23	2:BL:89:ARG:NH2	2.30	0.46
2:BL:125:GLU:HA	3:CL:147:THR:HG21	1.96	0.46
3:CM:75:ARG:HD3	3:CM:129:ASN:ND2	2.30	0.46
4:FM:134:ARG:HA	4:FM:137:ARG:HH12	1.81	0.46
1:AN:540:SER:OG	2:BN:21:ARG:HD3	2.16	0.46
2:BN:174:GLU:HA	2:BN:177:GLU:HG2	1.98	0.46
2:BP:245:ARG:NH1	2:BP:249:ARG:HB2	2.30	0.46
1:AQ:544:PRO:HA	1:AQ:547:VAL:HG12	1.96	0.46
2:BR:30:SER:O	2:BR:34:VAL:HG23	2.15	0.46
4:ER:75:ILE:HB	4:ER:76:LYS:HZ2	1.80	0.46
3:CS:125:ILE:HG12	3:CS:211:LEU:HD13	1.98	0.46
4:ET:75:ILE:O	4:ET:79:LEU:HG	2.16	0.46
3:CU:56:ILE:HD11	3:CV:188:PHE:CD1	2.50	0.46
2:BV:207:LYS:HE3	2:BV:209:GLN:H	1.80	0.46
3:CV:73:LEU:HB3	3:CV:129:ASN:ND2	2.30	0.46
3:CV:259:LEU:HD21	4:FW:60:ILE:HG21	1.97	0.46
4:EV:75:ILE:HG13	4:FV:58:MET:HG2	1.97	0.46
1:AW:536:ILE:HA	1:AW:539:MET:HE3	1.98	0.46
2:BW:21:ARG:O	2:BW:25:VAL:HG23	2.15	0.46
2:B1:198:THR:HG23	2:BY:139:ARG:CZ	2.45	0.46
2:B2:212:GLU:HA	2:B2:215:ILE:HG12	1.98	0.46
2:B3:246:SER:O	2:B3:250:LEU:HD23	2.15	0.46
3:C3:125:ILE:HG12	3:C3:211:LEU:HD13	1.98	0.46
2:B4:161:ILE:HG22	2:B5:199:ALA:HB2	1.98	0.46
2:B4:246:SER:O	2:B4:250:LEU:HD23	2.16	0.46
2:B5:93:LEU:O	2:B5:97:ILE:HG12	2.16	0.46
2:B5:166:GLY:O	2:B6:190:ARG:NE	2.30	0.46
3:C5:293:ILE:HD12	3:C5:302:LEU:O	2.15	0.46
3:C5:302:LEU:HD13	3:C5:317:VAL:HG13	1.98	0.46
2:B6:268:PRO:HG3	2:B6:271:ARG:HH21	1.81	0.46
3:C6:253:GLN:NE2	4:F7:126:ILE:O	2.49	0.46
3:C8:228:ARG:O	3:C8:232:VAL:HG23	2.14	0.46
3:C8:251:VAL:O	3:C8:255:GLN:HG3	2.15	0.46
4:E8:130:GLU:HA	4:E8:133:ARG:HE	1.80	0.46
2:B9:17:ILE:O	2:B9:21:ARG:HD2	2.15	0.46
2:BA:17:ILE:O	2:BA:21:ARG:HD2	2.16	0.46
2:BA:161:ILE:HG22	2:BB:199:ALA:HB2	1.97	0.46
4:FA:110:GLU:OE1	4:FA:121:ARG:NH1	2.49	0.46
3:CB:246:TRP:HZ2	4:FC:122:ILE:HD12	1.81	0.46
3:CB:255:GLN:HA	4:DB:75:ILE:HB	1.98	0.46
2:BC:253:GLU:OE1	2:BC:314:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:251:VAL:O	3:CC:255:GLN:HG3	2.16	0.46
2:BE:157:VAL:O	2:BE:161:ILE:HG12	2.16	0.46
3:CF:101:ASN:HB3	3:CF:118:PHE:HB2	1.98	0.46
3:CF:125:ILE:HG12	3:CF:211:LEU:HD13	1.98	0.46
3:CF:293:ILE:HD12	3:CF:302:LEU:O	2.15	0.46
3:CG:75:ARG:HD3	3:CG:129:ASN:ND2	2.31	0.46
4:FG:134:ARG:HA	4:FG:137:ARG:HH12	1.80	0.46
1:AH:532:MET:SD	2:BH:56:LEU:HD13	2.56	0.46
3:CH:251:VAL:O	3:CH:255:GLN:HG3	2.15	0.46
4:EH:75:ILE:HG13	4:FH:58:MET:HG2	1.98	0.46
2:BJ:209:GLN:O	2:BJ:212:GLU:HG2	2.15	0.46
3:CJ:75:ARG:HD3	3:CJ:129:ASN:ND2	2.30	0.46
4:FK:133:ARG:HH12	4:FK:137:ARG:NH1	2.14	0.46
4:FL:70:ARG:HH21	4:FL:137:ARG:HH22	1.62	0.46
3:CN:75:ARG:HD3	3:CN:129:ASN:ND2	2.30	0.46
1:AO:558:ASP:OD1	2:BO:6:GLY:HA3	2.16	0.46
2:BO:268:PRO:HG3	2:BO:271:ARG:HH21	1.80	0.46
4:FO:132:MET:SD	4:FO:135:LEU:HB3	2.55	0.46
3:CP:246:TRP:HZ2	4:FQ:122:ILE:HD12	1.81	0.46
3:CQ:56:ILE:HD11	3:CR:188:PHE:CD1	2.50	0.46
3:CQ:89:TYR:HD2	3:CQ:195:PRO:HA	1.80	0.46
4:EQ:75:ILE:O	4:EQ:79:LEU:HG	2.16	0.46
2:BR:93:LEU:O	2:BR:97:ILE:HG12	2.15	0.46
3:CR:146:PHE:HA	3:CR:150:GLU:OE1	2.15	0.46
2:BS:253:GLU:HG3	2:BS:315:LEU:HD11	1.96	0.46
2:BS:268:PRO:HG3	2:BS:271:ARG:HH21	1.80	0.46
1:AU:555:MET:SD	2:BU:33:GLU:HB3	2.55	0.46
2:BV:21:ARG:O	2:BV:25:VAL:HG23	2.15	0.46
2:BV:110:LEU:HA	2:BV:113:MET:HG3	1.97	0.46
4:DV:104:TYR:CE2	4:EV:61:PRO:HG3	2.50	0.46
2:BW:125:GLU:HA	3:CW:147:THR:HG21	1.97	0.46
3:CW:146:PHE:HA	3:CW:150:GLU:OE1	2.15	0.46
2:BX:113:MET:HE1	2:BX:117:SER:HB2	1.98	0.46
2:BY:125:GLU:HA	3:CY:147:THR:HG21	1.98	0.46
3:C2:89:TYR:HD2	3:C2:195:PRO:HA	1.81	0.46
4:D4:101:ILE:HG22	4:D4:106:ILE:HB	1.96	0.46
4:D6:101:ILE:HG22	4:D6:106:ILE:HB	1.96	0.46
1:A8:552:ARG:HH11	1:A8:555:MET:HE3	1.81	0.46
2:B8:77:LEU:HB3	2:B8:94:LEU:HD21	1.97	0.46
2:B8:135:VAL:HG11	2:B9:194:GLY:HA3	1.98	0.46
2:B9:26:PHE:HA	2:B9:29:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B9:110:LEU:HA	2:B9:113:MET:HG3	1.96	0.46
2:BB:246:SER:O	2:BB:250:LEU:HD23	2.15	0.46
2:BC:113:MET:CE	2:BC:117:SER:HB2	2.46	0.46
4:DC:99:ILE:HD12	4:DC:107:ALA:HB3	1.98	0.46
2:BD:46:GLN:NE2	2:BD:47:ILE:O	2.49	0.46
2:BE:171:ALA:O	2:BE:174:GLU:HG3	2.16	0.46
3:CF:251:VAL:O	3:CF:255:GLN:HG3	2.16	0.46
2:BH:78:ARG:HA	2:BH:94:LEU:HD11	1.98	0.46
1:AJ:558:ASP:OD1	2:BJ:6:GLY:HA3	2.15	0.46
4:FJ:132:MET:HE2	4:FJ:136:SER:HB3	1.97	0.46
4:EN:55:ASP:HB3	4:EN:57:ILE:HD12	1.98	0.46
2:BO:96:ASP:O	2:BO:100:THR:HG23	2.16	0.46
2:BO:203:ILE:HG12	2:BO:214:VAL:HG11	1.97	0.46
3:CO:271:ARG:HH21	4:DO:59:ASP:HB2	1.80	0.46
4:DO:101:ILE:HG22	4:DO:106:ILE:HB	1.97	0.46
2:BP:113:MET:SD	2:BP:118:ALA:HB2	2.56	0.46
2:BP:171:ALA:O	2:BP:174:GLU:HG3	2.16	0.46
2:BS:174:GLU:HA	2:BS:177:GLU:HG2	1.98	0.46
1:AT:558:ASP:OD1	2:BT:6:GLY:HA3	2.16	0.46
3:CT:293:ILE:HD12	3:CT:302:LEU:O	2.15	0.46
1:AU:544:PRO:HA	1:AU:547:VAL:HG12	1.96	0.46
2:BU:113:MET:CE	2:BU:117:SER:HB2	2.46	0.46
1:AV:555:MET:HA	1:AV:558:ASP:OD2	2.16	0.46
2:BV:125:GLU:HA	3:CV:147:THR:HG21	1.98	0.46
4:EV:117:LYS:HA	4:EV:117:LYS:HD2	1.71	0.46
2:BX:127:PRO:HB2	2:BX:160:ARG:NE	2.31	0.46
3:CX:56:ILE:HD11	3:CY:188:PHE:CD1	2.50	0.46
3:CX:255:GLN:HA	4:DX:75:ILE:HB	1.96	0.46
4:DY:98:ASP:OD1	4:DY:99:ILE:N	2.49	0.46
2:B1:127:PRO:HB2	2:B1:160:ARG:NE	2.31	0.46
3:C1:146:PHE:HA	3:C1:150:GLU:OE1	2.16	0.46
3:C1:228:ARG:O	3:C1:232:VAL:HG23	2.15	0.46
3:C1:251:VAL:O	3:C1:255:GLN:HG3	2.16	0.46
4:E2:76:LYS:HZ3	4:F2:59:ASP:HA	1.81	0.46
4:F2:76:LYS:O	4:F2:79:LEU:HG	2.16	0.46
3:C3:75:ARG:HD3	3:C3:129:ASN:ND2	2.31	0.46
2:B4:268:PRO:HG3	2:B4:271:ARG:HH21	1.81	0.46
3:C5:146:PHE:HA	3:C5:150:GLU:OE1	2.15	0.46
4:F5:134:ARG:HA	4:F5:137:ARG:NH1	2.30	0.46
3:C6:89:TYR:HD2	3:C6:195:PRO:HA	1.81	0.46
3:C6:250:LEU:HD21	4:E7:78:LEU:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E7:75:ILE:HG12	4:F7:60:ILE:O	2.16	0.46
4:F7:104:TYR:CE2	4:F7:106:ILE:HG22	2.51	0.46
2:BB:135:VAL:HG11	2:BC:194:GLY:HA3	1.97	0.46
3:CB:274:GLN:O	3:CB:278:LEU:HB2	2.15	0.46
3:CC:89:TYR:HD2	3:CC:195:PRO:HA	1.81	0.46
3:CC:125:ILE:HG12	3:CC:211:LEU:HD13	1.98	0.46
3:CC:271:ARG:HH21	4:DC:59:ASP:HB2	1.81	0.46
3:CD:271:ARG:HH21	4:DD:59:ASP:HB2	1.81	0.46
2:BE:174:GLU:HA	2:BE:177:GLU:HG2	1.98	0.46
4:EE:67:GLU:OE1	4:EE:70:ARG:HD2	2.16	0.46
4:EE:75:ILE:HG13	4:FE:58:MET:HG2	1.97	0.46
2:BF:42:ALA:HB2	2:BG:97:ILE:HG23	1.96	0.46
2:BG:12:ILE:HD11	2:BG:47:ILE:HG12	1.97	0.46
3:CG:125:ILE:HG12	3:CG:211:LEU:HD13	1.98	0.46
3:CG:246:TRP:HZ2	4:FH:122:ILE:HD12	1.81	0.46
2:BH:113:MET:CE	2:BH:117:SER:HB2	2.46	0.46
2:BK:253:GLU:OE1	2:BK:314:ARG:NH2	2.48	0.46
3:CK:125:ILE:HG12	3:CK:211:LEU:HD13	1.98	0.46
2:BL:247:ILE:HD11	2:BL:273:LYS:HG3	1.97	0.46
2:BM:268:PRO:HG3	2:BM:271:ARG:HH21	1.80	0.46
4:EM:75:ILE:HG12	4:FM:60:ILE:O	2.16	0.46
2:BP:81:LEU:HD13	2:BP:93:LEU:HB2	1.97	0.46
2:BP:174:GLU:HA	2:BP:177:GLU:HG2	1.98	0.46
3:CP:89:TYR:HD2	3:CP:195:PRO:HA	1.81	0.46
3:CQ:125:ILE:HG12	3:CQ:211:LEU:HD13	1.98	0.46
3:CQ:271:ARG:NH2	4:DQ:59:ASP:HB2	2.31	0.46
4:FQ:134:ARG:HA	4:FQ:137:ARG:NH1	2.31	0.46
2:BR:174:GLU:HA	2:BR:177:GLU:HG2	1.98	0.46
4:DR:99:ILE:HD12	4:DR:107:ALA:HB3	1.98	0.46
2:BS:110:LEU:HA	2:BS:113:MET:HG3	1.98	0.46
2:BS:135:VAL:HG11	2:BT:194:GLY:HA3	1.97	0.46
4:ES:76:LYS:NZ	4:FS:59:ASP:HA	2.30	0.46
4:FS:133:ARG:HH12	4:FS:137:ARG:HH11	1.62	0.46
4:DT:105:LEU:HB2	4:DT:131:ARG:HE	1.81	0.46
4:FU:100:LEU:HA	4:FU:105:LEU:HA	1.97	0.46
3:CV:293:ILE:HD12	3:CV:302:LEU:O	2.15	0.46
2:BX:96:ASP:O	2:BX:100:THR:HG23	2.16	0.46
2:BX:113:MET:CE	2:BX:117:SER:HB2	2.46	0.46
2:BX:251:LEU:HA	2:BX:254:VAL:HG12	1.96	0.46
4:EY:75:ILE:HG13	4:FY:58:MET:HG2	1.97	0.46
2:B2:13:LEU:HD13	2:B2:59:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:536:ILE:HA	1:A3:539:MET:HG2	1.98	0.46
1:A3:544:PRO:HA	1:A3:547:VAL:HG12	1.97	0.46
2:B3:30:SER:O	2:B3:34:VAL:HG23	2.15	0.46
4:D5:101:ILE:HG22	4:D5:106:ILE:HB	1.96	0.46
3:C6:251:VAL:O	3:C6:255:GLN:HG3	2.16	0.46
4:F6:101:ILE:N	4:F6:104:TYR:O	2.33	0.46
4:F6:126:ILE:HD12	4:F6:131:ARG:HB2	1.98	0.46
2:B7:62:GLU:O	2:B7:65:GLN:HG3	2.16	0.46
3:C9:228:ARG:O	3:C9:232:VAL:HG23	2.14	0.46
4:F9:133:ARG:HH12	4:F9:137:ARG:HH11	1.64	0.46
3:CA:75:ARG:HD3	3:CA:129:ASN:ND2	2.32	0.46
2:BB:69:LEU:HG	2:BB:70:ASN:N	2.31	0.46
1:AC:558:ASP:OD1	2:BC:6:GLY:HA3	2.16	0.46
2:BC:17:ILE:O	2:BC:21:ARG:HD2	2.16	0.46
2:BC:203:ILE:HG12	2:BC:214:VAL:HG11	1.96	0.46
1:AE:547:VAL:HG13	2:BE:25:VAL:HG22	1.98	0.46
3:CE:125:ILE:HG12	3:CE:211:LEU:HD13	1.98	0.46
4:EF:58:MET:SD	4:FF:75:ILE:HG13	2.56	0.46
1:AG:558:ASP:OD1	2:BG:6:GLY:HA3	2.16	0.46
2:BG:230:ILE:O	2:BG:233:MET:HB2	2.16	0.46
2:BH:62:GLU:O	2:BH:65:GLN:HG3	2.16	0.46
4:FH:96:PRO:HB2	4:FH:108:GLN:HB3	1.97	0.46
2:BI:26:PHE:HA	2:BI:29:LEU:HD12	1.98	0.46
3:CK:250:LEU:HD21	4:EL:78:LEU:O	2.15	0.46
3:CK:272:LEU:HB2	4:DK:60:ILE:HB	1.98	0.46
2:BL:96:ASP:O	2:BL:100:THR:HG23	2.16	0.46
4:EL:75:ILE:O	4:EL:79:LEU:HG	2.16	0.46
2:BN:14:LEU:HD13	2:BN:17:ILE:HD11	1.98	0.46
3:CP:251:VAL:O	3:CP:255:GLN:HG3	2.15	0.46
4:FP:133:ARG:HH12	4:FP:137:ARG:NH1	2.14	0.46
2:BQ:113:MET:CE	2:BQ:117:SER:HB2	2.46	0.46
4:EQ:131:ARG:HA	4:EQ:134:ARG:NH1	2.30	0.46
1:AS:532:MET:O	1:AS:536:ILE:HG12	2.16	0.46
4:DS:99:ILE:HD12	4:DS:107:ALA:HB3	1.99	0.46
1:AT:548:ALA:HA	2:BT:25:VAL:HG13	1.97	0.46
2:BU:97:ILE:HG22	2:BU:101:ARG:HH12	1.81	0.46
4:EU:75:ILE:O	4:EU:79:LEU:HG	2.16	0.46
2:BV:113:MET:CE	2:BV:117:SER:HB2	2.46	0.46
2:BV:229:ILE:O	2:BV:233:MET:HG2	2.15	0.46
2:BW:246:SER:O	2:BW:250:LEU:HD23	2.15	0.46
3:CX:146:PHE:HA	3:CX:150:GLU:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EX:131:ARG:HA	4:EX:134:ARG:NH1	2.31	0.46
4:FY:100:LEU:HA	4:FY:105:LEU:HA	1.98	0.46
4:F1:100:LEU:HA	4:F1:105:LEU:HA	1.98	0.45
3:C2:125:ILE:HG12	3:C2:211:LEU:HD13	1.98	0.45
4:D2:131:ARG:NH1	4:E2:59:ASP:OD2	2.49	0.45
4:E3:75:ILE:O	4:E3:79:LEU:HG	2.17	0.45
2:B6:113:MET:CE	2:B6:117:SER:HB2	2.46	0.45
4:E6:75:ILE:O	4:E6:79:LEU:HG	2.15	0.45
4:E6:125:ILE:O	4:E6:126:ILE:HB	2.15	0.45
2:B7:10:SER:HA	2:B7:13:LEU:HD12	1.98	0.45
4:E7:59:ASP:HA	4:F7:76:LYS:HZ1	1.80	0.45
3:C8:146:PHE:HA	3:C8:150:GLU:OE1	2.16	0.45
3:C9:125:ILE:HG12	3:C9:211:LEU:HD13	1.98	0.45
3:C9:302:LEU:HD13	3:C9:317:VAL:HG13	1.98	0.45
4:E9:55:ASP:HB3	4:E9:57:ILE:HD12	1.98	0.45
3:CA:228:ARG:O	3:CA:232:VAL:HG23	2.14	0.45
4:DB:102:ASN:ND2	4:EB:61:PRO:O	2.44	0.45
2:BE:110:LEU:HA	2:BE:113:MET:HG3	1.98	0.45
3:CF:112:GLY:HA3	3:CF:223:MET:HE3	1.97	0.45
3:CF:271:ARG:HH21	4:DF:59:ASP:HB2	1.81	0.45
2:BG:229:ILE:O	2:BG:233:MET:HG2	2.17	0.45
3:CG:53:ALA:HB1	3:CG:172:ILE:HD13	1.98	0.45
2:BH:127:PRO:HB2	2:BH:160:ARG:NE	2.30	0.45
3:CH:146:PHE:HA	3:CH:150:GLU:OE1	2.16	0.45
2:BI:96:ASP:O	2:BI:100:THR:HG23	2.16	0.45
2:BI:246:SER:O	2:BI:250:LEU:HD23	2.16	0.45
2:BJ:127:PRO:HB2	2:BJ:160:ARG:NE	2.30	0.45
1:AK:547:VAL:HG13	2:BK:25:VAL:HG22	1.98	0.45
2:BK:38:SER:HB3	2:BL:97:ILE:HD11	1.98	0.45
3:CN:271:ARG:NH2	4:DN:59:ASP:HB2	2.32	0.45
2:BO:62:GLU:O	2:BO:65:GLN:HG3	2.16	0.45
2:BO:242:VAL:O	2:BO:243:ASP:OD1	2.34	0.45
1:AP:547:VAL:HG23	2:BP:59:PHE:CZ	2.43	0.45
3:CP:293:ILE:HD12	3:CP:302:LEU:O	2.16	0.45
2:BR:127:PRO:HB2	2:BR:160:ARG:NE	2.31	0.45
2:BR:171:ALA:O	2:BR:174:GLU:HG3	2.16	0.45
2:BS:139:ARG:NH2	2:BT:205:LEU:H	2.04	0.45
2:BS:212:GLU:HA	2:BS:215:ILE:HG12	1.97	0.45
2:BS:251:LEU:HA	2:BS:254:VAL:HG12	1.97	0.45
1:AT:536:ILE:HA	1:AT:539:MET:HE3	1.97	0.45
4:DT:99:ILE:HD12	4:DT:107:ALA:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:536:ILE:HA	1:AU:539:MET:HG2	1.98	0.45
3:CU:125:ILE:HG12	3:CU:211:LEU:HD13	1.98	0.45
3:CU:271:ARG:NH2	4:DU:59:ASP:HB2	2.31	0.45
4:FU:76:LYS:O	4:FU:79:LEU:HG	2.16	0.45
2:BV:93:LEU:O	2:BV:97:ILE:HG12	2.15	0.45
4:FV:134:ARG:HA	4:FV:137:ARG:HH12	1.82	0.45
2:BW:10:SER:O	2:BW:14:LEU:HD23	2.16	0.45
2:BW:62:GLU:O	2:BW:65:GLN:HG3	2.16	0.45
2:BW:113:MET:CE	2:BW:117:SER:HB2	2.46	0.45
1:AX:558:ASP:OD1	2:BX:6:GLY:HA3	2.15	0.45
2:B2:139:ARG:HD2	2:B3:202:ILE:HG12	1.97	0.45
4:D2:99:ILE:HD12	4:D2:107:ALA:HB3	1.98	0.45
2:B3:113:MET:CE	2:B3:117:SER:HB2	2.46	0.45
4:E4:75:ILE:HG13	4:F4:58:MET:HG2	1.97	0.45
3:C6:293:ILE:HD12	3:C6:302:LEU:O	2.15	0.45
2:B7:81:LEU:HD13	2:B7:93:LEU:HB2	1.98	0.45
4:F8:76:LYS:O	4:F8:79:LEU:HG	2.17	0.45
1:A9:532:MET:SD	1:A9:532:MET:C	2.94	0.45
2:BB:12:ILE:HD11	2:BB:47:ILE:HG12	1.97	0.45
2:BB:62:GLU:O	2:BB:65:GLN:HG3	2.15	0.45
2:BB:113:MET:SD	2:BB:118:ALA:HB2	2.56	0.45
3:CB:251:VAL:O	3:CB:255:GLN:HG3	2.16	0.45
3:CB:253:GLN:HG3	4:FC:125:ILE:HD11	1.99	0.45
4:FC:104:TYR:CE2	4:FC:106:ILE:HG22	2.52	0.45
4:DD:99:ILE:HD12	4:DD:107:ALA:HB3	1.98	0.45
3:CE:260:GLU:HA	4:DE:72:ARG:HH22	1.82	0.45
1:AF:532:MET:O	1:AF:536:ILE:HG12	2.16	0.45
2:BF:26:PHE:CE2	2:BG:84:ALA:HB1	2.51	0.45
2:BG:207:LYS:HG3	2:BG:209:GLN:H	1.81	0.45
4:EG:75:ILE:O	4:EG:79:LEU:HG	2.16	0.45
2:BH:268:PRO:HG3	2:BH:271:ARG:HH21	1.80	0.45
3:CH:125:ILE:HG12	3:CH:211:LEU:HD13	1.98	0.45
4:FH:110:GLU:OE1	4:FH:121:ARG:NH1	2.49	0.45
2:BM:161:ILE:O	2:BN:195:GLY:HA2	2.17	0.45
4:EM:117:LYS:HA	4:EM:117:LYS:HD2	1.71	0.45
2:BN:46:GLN:HE22	2:BO:68:ALA:C	2.19	0.45
2:BN:98:LEU:HA	2:BN:101:ARG:NH2	2.32	0.45
2:BN:113:MET:SD	2:BN:118:ALA:HB2	2.57	0.45
2:BN:161:ILE:HG22	2:BO:199:ALA:HB2	1.97	0.45
4:DN:104:TYR:CD2	4:EN:61:PRO:HG3	2.51	0.45
4:EN:131:ARG:HA	4:EN:134:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:113:MET:CE	2:BO:117:SER:HB2	2.47	0.45
2:BQ:125:GLU:HA	3:CQ:147:THR:HG21	1.97	0.45
2:BQ:159:LEU:HB3	3:CQ:137:PHE:CE2	2.51	0.45
3:CQ:240:ARG:N	3:CQ:242:GLU:OE1	2.41	0.45
3:CQ:271:ARG:HH21	4:DQ:59:ASP:HB2	1.80	0.45
2:BT:166:GLY:HA3	2:BU:190:ARG:HG2	1.98	0.45
3:CU:89:TYR:HD2	3:CU:195:PRO:HA	1.81	0.45
2:BV:113:MET:SD	2:BV:118:ALA:HB2	2.56	0.45
3:CW:75:ARG:HD3	3:CW:129:ASN:ND2	2.31	0.45
4:FW:133:ARG:HH12	4:FW:137:ARG:HH11	1.64	0.45
3:CX:154:ILE:HA	3:CX:157:MET:HG2	1.98	0.45
4:FY:116:ASP:OD1	4:FY:116:ASP:O	2.34	0.45
4:F1:133:ARG:HH12	4:F1:137:ARG:HH11	1.64	0.45
2:B2:268:PRO:HG3	2:B2:271:ARG:HH21	1.81	0.45
2:B3:158:MET:HE3	2:B4:214:VAL:HG13	1.98	0.45
4:E4:128:PRO:HG3	4:E4:131:ARG:HH21	1.82	0.45
2:B5:127:PRO:HB2	2:B5:160:ARG:NE	2.31	0.45
2:B7:127:PRO:HB2	2:B7:160:ARG:NE	2.31	0.45
2:B7:242:VAL:O	2:B7:243:ASP:OD1	2.35	0.45
4:E7:93:ALA:HB3	4:F7:116:ASP:OD1	2.15	0.45
2:B8:247:ILE:HD11	2:B8:273:LYS:HG3	1.97	0.45
3:C8:293:ILE:HD12	3:C8:302:LEU:O	2.16	0.45
4:F8:110:GLU:OE1	4:F8:121:ARG:NH1	2.49	0.45
2:BD:242:VAL:O	2:BD:243:ASP:OD1	2.34	0.45
4:FD:134:ARG:HA	4:FD:137:ARG:NH1	2.31	0.45
3:CE:260:GLU:OE1	4:DE:72:ARG:NH2	2.49	0.45
2:BF:90:ALA:O	2:BF:94:LEU:HG	2.16	0.45
2:BG:11:VAL:O	2:BG:15:MET:HG2	2.16	0.45
2:BG:42:ALA:HB2	2:BH:97:ILE:HG23	1.97	0.45
3:CG:293:ILE:HD12	3:CG:302:LEU:O	2.16	0.45
4:EG:76:LYS:NZ	4:FG:59:ASP:HA	2.31	0.45
4:DH:101:ILE:HG22	4:DH:106:ILE:HB	1.98	0.45
4:EH:131:ARG:HA	4:EH:134:ARG:NH1	2.31	0.45
4:FH:76:LYS:O	4:FH:79:LEU:HG	2.16	0.45
2:BI:97:ILE:HG22	2:BI:101:ARG:HH12	1.82	0.45
3:CI:146:PHE:HA	3:CI:150:GLU:OE1	2.16	0.45
1:AJ:549:LEU:O	1:AJ:552:ARG:HB2	2.16	0.45
4:DJ:101:ILE:HG22	4:DJ:106:ILE:HB	1.98	0.45
2:BO:14:LEU:O	2:BP:76:TYR:OH	2.21	0.45
2:BO:125:GLU:HA	3:CO:147:THR:HG21	1.97	0.45
1:AQ:515:ASP:OD2	1:AR:535:ARG:NH2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BQ:62:GLU:O	2:BQ:65:GLN:HG3	2.16	0.45
2:BQ:268:PRO:HG3	2:BQ:271:ARG:HH21	1.80	0.45
2:BR:62:GLU:O	2:BR:65:GLN:HG3	2.16	0.45
4:DR:105:LEU:HB2	4:DR:131:ARG:HE	1.81	0.45
4:DR:130:GLU:HG3	4:DR:134:ARG:HD2	1.98	0.45
1:AS:558:ASP:OD1	2:BS:6:GLY:HA3	2.16	0.45
2:BS:11:VAL:O	2:BS:15:MET:HG2	2.17	0.45
2:BT:171:ALA:O	2:BT:174:GLU:HG3	2.15	0.45
2:BT:212:GLU:HA	2:BT:215:ILE:HG12	1.98	0.45
2:BV:253:GLU:OE1	2:BV:314:ARG:NH2	2.50	0.45
3:CW:53:ALA:HB1	3:CW:172:ILE:HD13	1.99	0.45
2:B1:96:ASP:O	2:B1:100:THR:HG23	2.16	0.45
2:B1:212:GLU:HA	2:B1:215:ILE:HG12	1.98	0.45
3:C1:125:ILE:HG12	3:C1:211:LEU:HD13	1.98	0.45
4:E1:59:ASP:HA	4:F1:76:LYS:HZ1	1.81	0.45
2:B2:19:GLU:OE2	2:B3:79:SER:HB3	2.15	0.45
2:B2:113:MET:CE	2:B2:117:SER:HB2	2.45	0.45
3:C2:228:ARG:O	3:C2:232:VAL:HG23	2.14	0.45
4:D2:74:THR:N	4:D2:77:GLU:OE2	2.25	0.45
4:E2:75:ILE:HG13	4:F2:58:MET:HG2	1.97	0.45
3:C3:238:ASN:ND2	3:C4:112:GLY:HA2	2.32	0.45
3:C5:125:ILE:HG12	3:C5:211:LEU:HD13	1.97	0.45
2:B6:166:GLY:O	2:B7:190:ARG:NE	2.31	0.45
2:B6:246:SER:O	2:B6:250:LEU:HD23	2.16	0.45
2:B7:113:MET:SD	2:B7:118:ALA:HB2	2.57	0.45
2:B8:212:GLU:HA	2:B8:215:ILE:HG12	1.98	0.45
3:C8:89:TYR:HD2	3:C8:195:PRO:HA	1.82	0.45
2:B9:10:SER:HA	2:B9:13:LEU:HD12	1.98	0.45
3:C9:238:ASN:HD22	3:CA:112:GLY:HA2	1.80	0.45
3:C9:299:VAL:HA	4:F9:132:MET:CE	2.44	0.45
2:BA:268:PRO:HG3	2:BA:271:ARG:HH21	1.80	0.45
3:CA:51:LEU:HD22	3:CA:231:LEU:HB3	1.98	0.45
3:CA:89:TYR:HD2	3:CA:195:PRO:HA	1.82	0.45
4:EA:117:LYS:HD2	4:EA:117:LYS:HA	1.71	0.45
2:BB:98:LEU:HA	2:BB:101:ARG:NH2	2.32	0.45
2:BB:251:LEU:HA	2:BB:254:VAL:HG12	1.98	0.45
3:CB:271:ARG:HH21	4:DB:59:ASP:HB2	1.82	0.45
2:BD:62:GLU:O	2:BD:65:GLN:HG3	2.15	0.45
1:AE:546:VAL:HG22	2:BE:70:ASN:HD21	1.81	0.45
4:EE:75:ILE:O	4:EE:79:LEU:HG	2.16	0.45
2:BF:38:SER:HB3	2:BG:97:ILE:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:253:GLU:OE1	2:BF:314:ARG:NH2	2.50	0.45
2:BI:161:ILE:O	2:BJ:195:GLY:HA2	2.17	0.45
4:DI:102:ASN:ND2	4:EI:61:PRO:O	2.41	0.45
4:DI:130:GLU:HG3	4:DI:134:ARG:HD2	1.98	0.45
4:FI:76:LYS:O	4:FI:79:LEU:HG	2.17	0.45
2:BJ:161:ILE:HG22	2:BK:199:ALA:HB2	1.99	0.45
4:DJ:131:ARG:NH1	4:EJ:59:ASP:OD2	2.49	0.45
4:FL:134:ARG:HA	4:FL:137:ARG:HH12	1.82	0.45
2:BN:42:ALA:CB	2:BO:97:ILE:HG23	2.47	0.45
4:EN:74:THR:O	4:EN:78:LEU:HG	2.16	0.45
4:EO:67:GLU:OE1	4:EO:70:ARG:HD2	2.17	0.45
1:AP:532:MET:O	1:AP:536:ILE:HG12	2.17	0.45
4:EP:58:MET:SD	4:FP:75:ILE:HG13	2.57	0.45
4:FP:76:LYS:O	4:FP:79:LEU:HG	2.16	0.45
3:CR:51:LEU:HD22	3:CR:231:LEU:HB3	1.98	0.45
3:CR:271:ARG:NH2	4:DR:59:ASP:HB2	2.32	0.45
3:CS:271:ARG:NH2	4:DS:59:ASP:HB2	2.32	0.45
4:ES:75:ILE:HB	4:ES:76:LYS:NZ	2.31	0.45
2:BT:171:ALA:HB1	3:CT:131:PHE:CE1	2.51	0.45
2:BU:96:ASP:O	2:BU:100:THR:HG23	2.16	0.45
4:DU:99:ILE:HD12	4:DU:107:ALA:HB3	1.99	0.45
2:BV:14:LEU:HD13	2:BV:17:ILE:HD11	1.97	0.45
2:BW:242:VAL:O	2:BW:243:ASP:OD1	2.35	0.45
3:CW:266:ALA:HB1	3:CW:286:ILE:HG12	1.99	0.45
4:EW:59:ASP:HA	4:FW:76:LYS:HZ1	1.81	0.45
1:AY:540:SER:OG	2:BY:21:ARG:HD3	2.16	0.45
2:BY:41:MET:HA	2:BY:44:VAL:HB	1.98	0.45
4:DY:129:SER:O	4:DY:133:ARG:HD3	2.16	0.45
4:EY:75:ILE:O	4:EY:79:LEU:HG	2.16	0.45
2:B1:195:GLY:HA2	2:BY:161:ILE:O	2.16	0.45
2:B1:253:GLU:OE1	2:B1:314:ARG:NH2	2.49	0.45
3:C1:42:THR:HG22	3:C1:44:ARG:HG3	1.99	0.45
3:C2:53:ALA:HB1	3:C2:172:ILE:HD13	1.99	0.45
4:D2:101:ILE:HD13	4:E2:60:ILE:HD13	1.98	0.45
2:B3:93:LEU:O	2:B3:97:ILE:HG12	2.16	0.45
2:B4:113:MET:HE1	2:B4:117:SER:HB2	1.98	0.45
4:F7:116:ASP:OD1	4:F7:116:ASP:O	2.35	0.45
3:C8:271:ARG:NH2	4:D8:59:ASP:HB2	2.31	0.45
2:BA:242:VAL:O	2:BA:243:ASP:OD1	2.35	0.45
2:BC:10:SER:O	2:BC:14:LEU:HD23	2.16	0.45
3:CD:271:ARG:NH2	4:DD:59:ASP:HB2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EE:58:MET:SD	4:FE:75:ILE:HG13	2.57	0.45
4:EE:117:LYS:HD2	4:EE:117:LYS:HA	1.71	0.45
3:CF:53:ALA:HB1	3:CF:172:ILE:HD13	1.99	0.45
4:EF:99:ILE:HG12	4:EF:120:VAL:HG21	1.98	0.45
1:AG:522:ARG:HD3	2:BH:64:GLU:HG3	1.97	0.45
1:AH:558:ASP:OD1	2:BH:6:GLY:HA3	2.16	0.45
3:CH:272:LEU:HB2	4:DH:60:ILE:HB	1.99	0.45
2:BI:17:ILE:O	2:BI:21:ARG:HD2	2.17	0.45
2:BI:159:LEU:HB3	3:CI:137:PHE:CE2	2.51	0.45
2:BI:268:PRO:HG3	2:BI:271:ARG:HH21	1.80	0.45
2:BJ:139:ARG:NH1	2:BK:201:GLU:HB3	2.32	0.45
2:BM:10:SER:O	2:BM:14:LEU:HD23	2.16	0.45
2:BM:204:ASN:HD21	2:BM:233:MET:HA	1.81	0.45
3:CM:271:ARG:NH2	4:DM:59:ASP:HB2	2.32	0.45
2:BN:81:LEU:HD12	2:BN:94:LEU:HG	1.99	0.45
2:BO:113:MET:SD	2:BO:118:ALA:HB2	2.57	0.45
2:BO:212:GLU:HA	2:BO:215:ILE:HG12	1.99	0.45
4:EO:126:ILE:O	4:EO:128:PRO:HD3	2.17	0.45
3:CP:250:LEU:HD21	4:EQ:78:LEU:O	2.16	0.45
2:BS:113:MET:SD	2:BS:118:ALA:HB2	2.56	0.45
4:ES:75:ILE:O	4:ES:79:LEU:HG	2.17	0.45
1:AT:529:ALA:O	1:AT:533:SER:OG	2.31	0.45
2:BT:41:MET:CE	2:BU:77:LEU:HB2	2.46	0.45
2:BT:242:VAL:O	2:BT:243:ASP:OD1	2.35	0.45
3:CT:42:THR:HG22	3:CT:44:ARG:HG3	1.99	0.45
3:CT:302:LEU:HD13	3:CT:317:VAL:HG13	1.99	0.45
2:BU:125:GLU:HA	3:CU:147:THR:HG21	1.99	0.45
3:CU:107:LEU:HD11	3:CU:219:LEU:HD22	1.99	0.45
3:CU:251:VAL:HA	3:CU:254:VAL:HG22	1.98	0.45
4:EV:58:MET:SD	4:FV:75:ILE:HG13	2.57	0.45
2:BW:93:LEU:O	2:BW:97:ILE:HG12	2.17	0.45
2:BW:113:MET:SD	2:BW:118:ALA:HB2	2.57	0.45
2:BX:110:LEU:HA	2:BX:113:MET:HG3	1.97	0.45
4:FX:100:LEU:HA	4:FX:105:LEU:HA	1.98	0.45
2:BY:10:SER:O	2:BY:14:LEU:HD23	2.16	0.45
2:BY:81:LEU:HD13	2:BY:93:LEU:HB2	1.98	0.45
2:BY:212:GLU:HA	2:BY:215:ILE:HG12	1.98	0.45
4:EY:117:LYS:HA	4:EY:117:LYS:HD2	1.71	0.45
4:D1:102:ASN:ND2	4:E1:61:PRO:O	2.40	0.45
4:E1:118:TYR:CG	4:F1:68:LEU:HD21	2.52	0.45
2:B2:93:LEU:O	2:B2:97:ILE:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D2:105:LEU:HB2	4:D2:131:ARG:HE	1.82	0.45
3:C3:228:ARG:O	3:C3:232:VAL:HG23	2.14	0.45
4:F3:133:ARG:HH12	4:F3:137:ARG:HH11	1.65	0.45
3:C4:250:LEU:HD21	4:E5:78:LEU:O	2.15	0.45
2:B5:17:ILE:O	2:B5:21:ARG:HD2	2.17	0.45
3:C5:246:TRP:HZ2	4:F6:122:ILE:HD12	1.81	0.45
4:E5:75:ILE:O	4:E5:79:LEU:HG	2.16	0.45
2:B6:157:VAL:O	2:B6:161:ILE:HG12	2.16	0.45
3:C6:42:THR:HG22	3:C6:44:ARG:HG3	1.99	0.45
3:C6:271:ARG:HH21	4:D6:59:ASP:HB2	1.82	0.45
3:C8:246:TRP:HZ2	4:F9:122:ILE:HD12	1.82	0.45
4:E9:75:ILE:O	4:E9:79:LEU:HG	2.17	0.45
4:DA:101:ILE:HG22	4:DA:106:ILE:HB	1.98	0.45
2:BB:93:LEU:O	2:BB:97:ILE:HG12	2.16	0.45
2:BB:96:ASP:O	2:BB:100:THR:HG23	2.17	0.45
2:BB:242:VAL:O	2:BB:243:ASP:OD1	2.35	0.45
4:EB:71:THR:HB	4:FB:64:LEU:HD21	1.99	0.45
2:BC:62:GLU:O	2:BC:65:GLN:HG3	2.15	0.45
2:BC:242:VAL:O	2:BC:243:ASP:OD1	2.35	0.45
4:DC:101:ILE:HG22	4:DC:106:ILE:HB	1.97	0.45
2:BD:96:ASP:O	2:BD:100:THR:HG23	2.17	0.45
2:BD:98:LEU:HA	2:BD:101:ARG:NH2	2.31	0.45
3:CD:293:ILE:HD12	3:CD:302:LEU:O	2.16	0.45
4:FD:101:ILE:N	4:FD:104:TYR:O	2.33	0.45
2:BE:31:THR:O	2:BE:35:GLN:HG2	2.17	0.45
3:CE:251:VAL:O	3:CE:255:GLN:HG3	2.16	0.45
2:BF:242:VAL:O	2:BF:243:ASP:OD1	2.35	0.45
3:CF:255:GLN:HA	4:DF:75:ILE:HB	1.99	0.45
4:DF:106:ILE:HD13	4:EF:60:ILE:HD11	1.97	0.45
2:BG:10:SER:O	2:BG:14:LEU:HD23	2.15	0.45
2:BG:62:GLU:O	2:BG:65:GLN:HG3	2.16	0.45
2:BG:127:PRO:HB2	2:BG:160:ARG:NE	2.31	0.45
2:BH:14:LEU:O	2:BI:76:TYR:OH	2.16	0.45
2:BH:157:VAL:O	2:BH:161:ILE:HG12	2.17	0.45
4:EH:75:ILE:O	4:EH:79:LEU:HG	2.16	0.45
3:CI:125:ILE:HG12	3:CI:211:LEU:HD13	1.99	0.45
3:CI:250:LEU:HD21	4:EJ:78:LEU:O	2.14	0.45
4:EI:106:ILE:HD12	4:EI:125:ILE:HD11	1.99	0.45
3:CJ:108:LYS:O	3:CJ:175:LEU:HB2	2.17	0.45
3:CJ:272:LEU:HB2	4:DJ:60:ILE:HB	1.99	0.45
3:CK:53:ALA:HB1	3:CK:172:ILE:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:113:MET:CE	2:BL:117:SER:HB2	2.46	0.45
2:BL:268:PRO:HG3	2:BL:271:ARG:HH21	1.80	0.45
3:CL:271:ARG:HH21	4:DL:59:ASP:HB2	1.81	0.45
2:BM:38:SER:HA	2:BM:41:MET:HG2	1.98	0.45
3:CM:274:GLN:O	3:CM:278:LEU:HB2	2.17	0.45
3:CM:293:ILE:HD12	3:CM:302:LEU:O	2.16	0.45
4:DM:131:ARG:NH1	4:EM:59:ASP:OD2	2.49	0.45
3:CN:108:LYS:O	3:CN:175:LEU:HB2	2.17	0.45
3:CN:112:GLY:HA3	3:CN:223:MET:CE	2.46	0.45
2:BO:251:LEU:HD22	2:BO:278:MET:HG3	1.98	0.45
2:BQ:246:SER:O	2:BQ:250:LEU:HD23	2.17	0.45
2:BR:125:GLU:HA	3:CR:147:THR:HG21	1.97	0.45
2:BR:161:ILE:HG22	2:BS:199:ALA:HB2	1.99	0.45
4:ER:93:ALA:HB3	4:FR:116:ASP:OD1	2.17	0.45
3:CS:108:LYS:O	3:CS:175:LEU:HB2	2.17	0.45
2:BT:158:MET:HE3	2:BU:214:VAL:HG13	1.98	0.45
3:CT:112:GLY:HA3	3:CT:223:MET:HE3	1.98	0.45
1:AW:558:ASP:OD1	2:BW:6:GLY:HA3	2.17	0.45
2:BW:158:MET:CE	2:BX:214:VAL:HG13	2.47	0.45
4:EW:58:MET:SD	4:FW:75:ILE:HG13	2.57	0.45
4:EW:75:ILE:O	4:EW:79:LEU:HG	2.17	0.45
2:BY:68:ALA:O	2:BY:70:ASN:ND2	2.50	0.45
3:CY:108:LYS:O	3:CY:175:LEU:HB2	2.17	0.45
4:FY:133:ARG:HH12	4:FY:137:ARG:HH11	1.64	0.45
2:B1:206:MET:HB2	2:B1:211:GLU:HB3	1.97	0.45
2:B5:81:LEU:HD13	2:B5:93:LEU:HB2	1.99	0.45
2:B5:196:VAL:C	2:B5:198:THR:H	2.19	0.45
2:B6:195:GLY:O	2:B6:198:THR:HB	2.16	0.45
3:C6:299:VAL:HA	4:F6:132:MET:CE	2.45	0.45
1:A7:549:LEU:HA	1:A7:552:ARG:HB2	1.98	0.45
2:B7:17:ILE:O	2:B7:21:ARG:HD2	2.17	0.45
4:E8:75:ILE:O	4:E8:79:LEU:HG	2.16	0.45
1:AA:547:VAL:HG13	2:BA:25:VAL:HG22	1.99	0.45
3:CA:125:ILE:HG12	3:CA:211:LEU:HD13	1.99	0.45
4:FA:76:LYS:O	4:FA:79:LEU:HG	2.17	0.45
3:CB:125:ILE:HG12	3:CB:211:LEU:HD13	1.98	0.45
4:DB:101:ILE:HG22	4:DB:106:ILE:HB	1.98	0.45
2:BC:15:MET:HB3	2:BD:69:LEU:HD11	1.99	0.45
2:BC:251:LEU:HA	2:BC:254:VAL:HG12	1.98	0.45
3:CD:89:TYR:HD2	3:CD:195:PRO:HA	1.81	0.45
3:CE:146:PHE:HA	3:CE:150:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:75:ILE:O	4:EF:79:LEU:HG	2.17	0.45
4:EF:117:LYS:HD2	4:EF:117:LYS:HA	1.69	0.45
3:CH:293:ILE:HD12	3:CH:302:LEU:O	2.17	0.45
2:BL:10:SER:O	2:BL:14:LEU:HD23	2.16	0.45
3:CL:53:ALA:HB1	3:CL:172:ILE:HD13	1.99	0.45
2:BM:127:PRO:HB2	2:BM:160:ARG:NE	2.31	0.45
2:BN:62:GLU:O	2:BN:65:GLN:HG3	2.17	0.45
2:BN:96:ASP:O	2:BN:100:THR:HG23	2.17	0.45
3:CO:89:TYR:HD2	3:CO:195:PRO:HA	1.81	0.45
3:CO:272:LEU:HB2	4:DO:60:ILE:HB	1.98	0.45
4:EO:69:GLY:C	4:EO:70:ARG:HD3	2.37	0.45
2:BP:110:LEU:HA	2:BP:113:MET:HG3	1.97	0.45
2:BP:135:VAL:HG11	2:BQ:194:GLY:HA3	1.98	0.45
2:BP:212:GLU:HA	2:BP:215:ILE:HG12	1.98	0.45
2:BP:297:ARG:NH2	2:BQ:329:THR:O	2.35	0.45
4:DQ:126:ILE:HD13	4:DQ:131:ARG:HH21	1.81	0.45
3:CR:42:THR:HG22	3:CR:44:ARG:HG3	1.98	0.45
2:BS:171:ALA:O	2:BS:174:GLU:HG3	2.17	0.45
3:CS:107:LEU:HD11	3:CS:219:LEU:HD22	1.98	0.45
2:BT:62:GLU:O	2:BT:65:GLN:HG3	2.17	0.45
3:CT:271:ARG:NH2	4:DT:59:ASP:HB2	2.32	0.45
4:ET:76:LYS:NZ	4:FT:59:ASP:HA	2.32	0.45
3:CV:272:LEU:HB2	4:DV:60:ILE:HB	1.99	0.45
4:DW:101:ILE:HG22	4:DW:106:ILE:HB	1.99	0.45
2:BX:242:VAL:O	2:BX:243:ASP:OD1	2.35	0.45
4:EX:58:MET:SD	4:FX:75:ILE:HG13	2.57	0.45
4:EX:76:LYS:NZ	4:FX:59:ASP:HA	2.32	0.45
3:CY:293:ILE:HD12	3:CY:302:LEU:O	2.16	0.45
1:A1:547:VAL:HG23	2:B1:59:PHE:CZ	2.44	0.45
1:A3:540:SER:OG	2:B3:21:ARG:HD3	2.16	0.45
2:B3:116:GLN:HA	2:B3:148:LEU:HD13	1.98	0.45
2:B3:171:ALA:HB1	3:C3:131:PHE:CE1	2.51	0.45
4:E3:117:LYS:HD2	4:E3:117:LYS:HA	1.71	0.45
2:B4:204:ASN:HD21	2:B4:233:MET:HA	1.81	0.45
4:E4:71:THR:HB	4:F4:64:LEU:HD11	1.99	0.45
4:F4:76:LYS:O	4:F4:79:LEU:HG	2.17	0.45
2:B5:113:MET:SD	2:B5:118:ALA:HB2	2.57	0.45
3:C5:42:THR:HG22	3:C5:44:ARG:HG3	1.99	0.45
3:C5:271:ARG:NH2	4:D5:59:ASP:HB2	2.32	0.45
3:C5:299:VAL:HA	4:F5:132:MET:HE2	1.98	0.45
2:B6:161:ILE:O	2:B7:195:GLY:HA2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:251:LEU:HD22	2:B7:278:MET:HG3	1.98	0.45
3:C7:251:VAL:O	3:C7:255:GLN:HG3	2.16	0.45
4:F7:76:LYS:O	4:F7:79:LEU:HG	2.17	0.45
1:A8:549:LEU:HA	1:A8:552:ARG:HB2	1.98	0.45
2:B8:62:GLU:O	2:B8:65:GLN:HG3	2.17	0.45
2:B9:93:LEU:O	2:B9:97:ILE:HG12	2.16	0.45
2:BA:26:PHE:CD2	2:BB:84:ALA:HB1	2.52	0.45
4:EB:69:GLY:C	4:EB:70:ARG:HD3	2.37	0.45
3:CC:271:ARG:NH2	4:DC:59:ASP:HB2	2.32	0.45
4:FC:134:ARG:HA	4:FC:137:ARG:NH1	2.31	0.45
2:BE:93:LEU:O	2:BE:97:ILE:HG12	2.17	0.45
2:BF:96:ASP:O	2:BF:100:THR:HG23	2.17	0.45
2:BF:229:ILE:O	2:BF:233:MET:HG2	2.17	0.45
3:CF:253:GLN:HG3	4:FG:125:ILE:HD11	1.99	0.45
2:BG:17:ILE:O	2:BG:21:ARG:HD2	2.16	0.45
2:BG:77:LEU:HB3	2:BG:94:LEU:HD21	1.98	0.45
1:AI:549:LEU:HA	1:AI:552:ARG:HB2	1.98	0.45
2:BI:196:VAL:C	2:BI:198:THR:H	2.19	0.45
3:CI:54:LEU:HB2	3:CI:231:LEU:HD23	1.99	0.45
4:EI:58:MET:SD	4:FI:75:ILE:HG13	2.57	0.45
2:BJ:245:ARG:NH1	2:BJ:249:ARG:HB2	2.31	0.45
3:CJ:53:ALA:HB1	3:CJ:172:ILE:HD13	1.99	0.45
3:CJ:293:ILE:HD12	3:CJ:302:LEU:O	2.16	0.45
3:CK:89:TYR:HD2	3:CK:195:PRO:HA	1.82	0.45
2:BL:11:VAL:HG22	2:BL:41:MET:HB2	1.99	0.45
2:BL:74:ASN:O	2:BL:77:LEU:HB2	2.17	0.45
3:CM:53:ALA:HB1	3:CM:172:ILE:HD13	1.99	0.45
3:CM:108:LYS:O	3:CM:175:LEU:HB2	2.17	0.45
3:CN:42:THR:HG22	3:CN:44:ARG:HG3	1.99	0.45
1:AO:522:ARG:HD3	2:BP:64:GLU:HG3	1.98	0.45
3:CP:42:THR:HG22	3:CP:44:ARG:HG3	1.99	0.45
3:CP:271:ARG:HH21	4:DP:59:ASP:HB2	1.81	0.45
3:CP:271:ARG:NH2	4:DP:59:ASP:HB2	2.32	0.45
2:BQ:139:ARG:NH1	2:BR:201:GLU:HB3	2.32	0.45
4:FQ:76:LYS:O	4:FQ:79:LEU:HG	2.17	0.45
2:BR:42:ALA:CB	2:BS:97:ILE:HG23	2.47	0.45
2:BR:242:VAL:O	2:BR:243:ASP:OD1	2.35	0.45
4:DR:101:ILE:HG22	4:DR:106:ILE:HB	1.97	0.45
2:BT:26:PHE:HD1	2:BT:29:LEU:HD12	1.82	0.45
3:CU:42:THR:HG22	3:CU:44:ARG:HG3	1.99	0.45
3:CU:53:ALA:HB1	3:CU:172:ILE:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:53:ALA:HB1	3:CV:172:ILE:HD13	1.99	0.45
4:DV:131:ARG:NH1	4:EV:59:ASP:OD2	2.49	0.45
4:EW:75:ILE:HA	4:EW:78:LEU:HD12	1.99	0.45
2:BY:245:ARG:NH1	2:BY:249:ARG:HB2	2.32	0.45
4:E1:58:MET:SD	4:F1:75:ILE:HG13	2.57	0.45
2:B3:157:VAL:O	2:B3:161:ILE:HG12	2.16	0.45
3:C4:53:ALA:HB1	3:C4:172:ILE:HD13	1.99	0.45
2:B6:10:SER:O	2:B6:14:LEU:HD23	2.16	0.45
4:F6:133:ARG:HH12	4:F6:137:ARG:HH11	1.65	0.45
2:B7:11:VAL:O	2:B7:15:MET:HG2	2.17	0.45
2:B9:62:GLU:O	2:B9:65:GLN:HG3	2.16	0.45
2:B9:159:LEU:HB3	3:C9:137:PHE:CE2	2.52	0.45
2:B9:196:VAL:C	2:B9:198:THR:H	2.20	0.45
3:CA:271:ARG:HH21	4:DA:59:ASP:HB2	1.82	0.45
2:BB:42:ALA:CB	2:BC:97:ILE:HG23	2.47	0.45
3:CB:271:ARG:NH2	4:DB:59:ASP:HB2	2.32	0.45
3:CC:254:VAL:O	4:DC:75:ILE:HD12	2.16	0.45
4:DC:102:ASN:ND2	4:EC:61:PRO:O	2.43	0.45
2:BD:212:GLU:HA	2:BD:215:ILE:HG12	1.98	0.45
2:BD:251:LEU:HA	2:BD:254:VAL:HG12	1.98	0.45
3:CE:53:ALA:HB1	3:CE:172:ILE:HD13	1.99	0.45
3:CE:271:ARG:NH2	4:DE:59:ASP:HB2	2.32	0.45
4:DE:73:MET:SD	4:DE:78:LEU:HD12	2.56	0.45
2:BF:127:PRO:HB2	2:BF:160:ARG:NE	2.31	0.45
2:BF:251:LEU:HA	2:BF:254:VAL:HG12	1.99	0.45
4:FF:132:MET:HE3	4:FF:136:SER:HB3	1.99	0.45
4:FG:104:TYR:CE2	4:FG:106:ILE:HG22	2.52	0.45
2:BH:96:ASP:O	2:BH:100:THR:HG23	2.16	0.45
2:BH:125:GLU:HA	3:CH:147:THR:HG21	1.98	0.45
3:CH:89:TYR:HD2	3:CH:195:PRO:HA	1.81	0.45
2:BI:239:LEU:HD23	2:BI:239:LEU:HA	1.86	0.45
1:AJ:544:PRO:HA	1:AJ:547:VAL:HG12	1.99	0.45
3:CJ:255:GLN:HA	4:DJ:75:ILE:HB	1.99	0.45
4:FJ:134:ARG:HA	4:FJ:137:ARG:NH1	2.32	0.45
2:BK:242:VAL:O	2:BK:243:ASP:OD1	2.35	0.45
3:CK:293:ILE:HD12	3:CK:302:LEU:O	2.15	0.45
2:BL:26:PHE:HD1	2:BL:29:LEU:HD12	1.82	0.45
2:BL:127:PRO:HB2	2:BL:160:ARG:NE	2.31	0.45
3:CM:89:TYR:HD2	3:CM:195:PRO:HA	1.82	0.45
2:BN:97:ILE:HG22	2:BN:101:ARG:HH12	1.81	0.45
2:BN:171:ALA:O	2:BN:174:GLU:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CO:56:ILE:HD11	3:CP:188:PHE:CD1	2.52	0.45
3:CO:253:GLN:OE1	4:FP:125:ILE:HG12	2.16	0.45
4:EQ:117:LYS:HA	4:EQ:117:LYS:HD2	1.71	0.45
2:BR:78:ARG:HA	2:BR:94:LEU:HD11	1.98	0.45
2:BR:116:GLN:HA	2:BR:148:LEU:HD13	1.97	0.45
2:BT:268:PRO:HG3	2:BT:271:ARG:HH21	1.80	0.45
2:BV:161:ILE:HG22	2:BW:199:ALA:HB2	1.98	0.45
2:BV:212:GLU:HA	2:BV:215:ILE:HG12	1.99	0.45
3:CV:300:PRO:HD2	4:FV:132:MET:SD	2.57	0.45
3:CX:53:ALA:HB1	3:CX:172:ILE:HD13	1.99	0.45
2:B3:62:GLU:O	2:B3:65:GLN:HG3	2.17	0.45
4:F4:100:LEU:HA	4:F4:105:LEU:HA	1.99	0.45
2:B5:26:PHE:CD2	2:B6:84:ALA:HB1	2.51	0.45
3:C6:108:LYS:O	3:C6:175:LEU:HB2	2.17	0.45
4:E6:117:LYS:HD2	4:E6:117:LYS:HA	1.71	0.45
2:B7:113:MET:CE	2:B7:117:SER:HB2	2.47	0.45
1:A8:547:VAL:HG13	2:B8:25:VAL:HG22	1.99	0.45
2:B8:12:ILE:HD11	2:B8:47:ILE:HG12	1.99	0.45
2:BD:113:MET:SD	2:BD:118:ALA:HB2	2.57	0.45
2:BE:10:SER:HA	2:BE:13:LEU:HD12	1.99	0.45
2:BE:10:SER:O	2:BE:14:LEU:HD23	2.16	0.45
2:BE:113:MET:SD	2:BE:118:ALA:HB2	2.57	0.45
2:BE:212:GLU:HA	2:BE:215:ILE:HG12	1.98	0.45
2:BF:125:GLU:HA	3:CF:147:THR:HG21	1.99	0.45
2:BF:230:ILE:O	2:BF:233:MET:HB2	2.16	0.45
2:BH:11:VAL:O	2:BH:15:MET:HG2	2.17	0.45
3:CI:293:ILE:HD12	3:CI:302:LEU:O	2.17	0.45
3:CJ:247:ARG:CZ	4:EK:79:LEU:HB3	2.47	0.45
2:BL:206:MET:HG3	2:BL:210:GLN:HB2	1.98	0.45
4:FL:76:LYS:O	4:FL:79:LEU:HG	2.17	0.45
3:CN:107:LEU:HD11	3:CN:219:LEU:HD22	1.98	0.45
2:BO:81:LEU:HD12	2:BO:94:LEU:HG	1.99	0.45
3:CO:125:ILE:HG12	3:CO:211:LEU:HD13	1.98	0.45
2:BS:139:ARG:NH1	2:BT:205:LEU:HB2	2.23	0.45
2:BS:242:VAL:O	2:BS:243:ASP:OD1	2.35	0.45
2:BT:273:LYS:HA	2:BT:276:ARG:NH1	2.32	0.45
3:CU:108:LYS:O	3:CU:175:LEU:HB2	2.17	0.45
4:EU:76:LYS:NZ	4:FU:59:ASP:HA	2.32	0.45
2:BV:53:THR:HA	2:BV:56:LEU:HD21	1.99	0.45
3:CV:108:LYS:O	3:CV:175:LEU:HB2	2.17	0.45
1:AX:540:SER:OG	2:BX:21:ARG:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CX:42:THR:HG22	3:CX:44:ARG:HG3	1.99	0.45
4:EX:75:ILE:O	4:EX:79:LEU:HG	2.17	0.45
2:BY:113:MET:SD	2:BY:118:ALA:HB2	2.57	0.45
4:F1:76:LYS:O	4:F1:79:LEU:HG	2.17	0.44
4:E2:58:MET:SD	4:F2:75:ILE:HG13	2.57	0.44
2:B3:41:MET:HA	2:B3:44:VAL:HB	1.99	0.44
3:C3:53:ALA:HB1	3:C3:172:ILE:HD13	1.99	0.44
2:B4:9:LYS:HA	2:B4:12:ILE:HD12	1.99	0.44
1:A5:555:MET:HA	1:A5:558:ASP:OD2	2.17	0.44
2:B6:113:MET:SD	2:B6:118:ALA:HB2	2.57	0.44
1:A7:546:VAL:HG22	2:B7:70:ASN:HD21	1.81	0.44
4:D7:105:LEU:HB2	4:D7:131:ARG:HE	1.82	0.44
2:BA:230:ILE:O	2:BA:233:MET:HB2	2.18	0.44
3:CA:42:THR:HG22	3:CA:44:ARG:HG3	1.98	0.44
3:CA:272:LEU:HB2	4:DA:60:ILE:HB	1.99	0.44
4:EA:93:ALA:HB3	4:FA:116:ASP:OD2	2.17	0.44
2:BB:113:MET:CE	2:BB:117:SER:HB2	2.47	0.44
2:BC:11:VAL:O	2:BC:15:MET:HG2	2.17	0.44
2:BC:127:PRO:HB2	2:BC:160:ARG:NE	2.31	0.44
2:BD:14:LEU:O	2:BE:76:TYR:OH	2.30	0.44
3:CE:108:LYS:O	3:CE:175:LEU:HB2	2.17	0.44
3:CG:179:TYR:OH	3:CG:182:SER:OG	2.25	0.44
2:BH:113:MET:SD	2:BH:118:ALA:HB2	2.57	0.44
4:FH:100:LEU:HA	4:FH:105:LEU:HA	2.00	0.44
4:EI:117:LYS:HA	4:EI:117:LYS:HD2	1.71	0.44
3:CJ:271:ARG:NH2	4:DJ:59:ASP:HB2	2.33	0.44
2:BK:116:GLN:HA	2:BK:148:LEU:HD13	1.97	0.44
2:BN:113:MET:CE	2:BN:117:SER:HB2	2.47	0.44
1:AO:532:MET:O	1:AO:536:ILE:HG12	2.17	0.44
3:CO:53:ALA:HB1	3:CO:172:ILE:HD13	1.99	0.44
2:BP:14:LEU:O	2:BQ:76:TYR:OH	2.17	0.44
2:BP:62:GLU:O	2:BP:65:GLN:HG3	2.17	0.44
2:BP:93:LEU:O	2:BP:97:ILE:HG12	2.17	0.44
2:BP:125:GLU:HA	3:CP:147:THR:HG21	1.97	0.44
3:CQ:293:ILE:HD12	3:CQ:302:LEU:O	2.17	0.44
1:AR:548:ALA:HA	2:BR:25:VAL:HG13	1.99	0.44
2:BR:166:GLY:HA3	2:BS:190:ARG:HG2	1.98	0.44
3:CR:234:PRO:O	3:CR:236:LEU:N	2.44	0.44
3:CS:42:THR:HG22	3:CS:44:ARG:HG3	1.99	0.44
1:AT:547:VAL:HG13	2:BT:25:VAL:HG22	1.99	0.44
2:BT:143:ALA:HB1	2:BU:206:MET:HG3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BT:253:GLU:OE1	2:BT:314:ARG:NH2	2.49	0.44
3:CU:249:ASN:O	3:CU:253:GLN:HG3	2.17	0.44
4:EU:93:ALA:HB3	4:FU:116:ASP:OD1	2.17	0.44
2:BV:159:LEU:HB3	3:CV:137:PHE:CE2	2.52	0.44
2:BV:251:LEU:HA	2:BV:254:VAL:HG12	1.98	0.44
3:CV:42:THR:HG22	3:CV:44:ARG:HG3	1.99	0.44
3:CV:89:TYR:HD2	3:CV:195:PRO:HA	1.82	0.44
4:EV:76:LYS:NZ	4:FV:59:ASP:HA	2.32	0.44
2:BX:101:ARG:N	2:BX:101:ARG:HD3	2.32	0.44
2:BX:210:GLN:O	2:BX:214:VAL:HG23	2.17	0.44
2:BY:171:ALA:HB1	3:CY:131:PHE:CE1	2.53	0.44
3:C1:271:ARG:NH2	4:D1:59:ASP:HB2	2.32	0.44
2:B2:242:VAL:O	2:B2:243:ASP:OD1	2.35	0.44
2:B2:245:ARG:NH2	2:B2:321:MET:HB3	2.32	0.44
2:B2:251:LEU:HA	2:B2:254:VAL:HG12	1.97	0.44
4:E4:69:GLY:C	4:E4:70:ARG:HD3	2.38	0.44
2:B5:212:GLU:HA	2:B5:215:ILE:HG12	1.99	0.44
3:C5:271:ARG:HH21	4:D5:59:ASP:HB2	1.83	0.44
4:F5:76:LYS:O	4:F5:79:LEU:HG	2.18	0.44
2:B6:242:VAL:O	2:B6:243:ASP:OD1	2.36	0.44
3:C6:271:ARG:NH2	4:D6:59:ASP:HB2	2.32	0.44
3:C7:53:ALA:HB1	3:C7:172:ILE:HD13	1.99	0.44
3:C7:107:LEU:HD11	3:C7:219:LEU:HD22	1.99	0.44
4:E7:114:VAL:O	4:E7:117:LYS:HB2	2.18	0.44
4:E7:117:LYS:HD2	4:E7:117:LYS:HA	1.71	0.44
2:B8:13:LEU:HD13	2:B8:59:PHE:CD1	2.52	0.44
2:B8:17:ILE:O	2:B8:21:ARG:HD2	2.17	0.44
2:B8:93:LEU:O	2:B8:97:ILE:HG12	2.17	0.44
2:B8:96:ASP:O	2:B8:100:THR:HG23	2.17	0.44
4:F8:100:LEU:HA	4:F8:105:LEU:HA	1.99	0.44
2:BA:13:LEU:HD13	2:BA:59:PHE:CD1	2.52	0.44
4:EC:114:VAL:O	4:EC:117:LYS:HB2	2.18	0.44
2:BD:93:LEU:O	2:BD:97:ILE:HG12	2.17	0.44
2:BE:113:MET:CE	2:BE:117:SER:HB2	2.46	0.44
4:FE:76:LYS:O	4:FE:79:LEU:HG	2.16	0.44
3:CF:108:LYS:O	3:CF:175:LEU:HB2	2.17	0.44
1:AG:548:ALA:HA	2:BG:25:VAL:HG13	1.98	0.44
2:BH:1:MET:HA	2:BH:51:GLN:HE22	1.82	0.44
2:BK:62:GLU:O	2:BK:65:GLN:HG3	2.17	0.44
2:BM:111:ASN:CG	2:BM:138:LYS:H	2.21	0.44
2:BM:161:ILE:HG22	2:BN:199:ALA:HB2	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:107:LEU:HD11	3:CM:219:LEU:HD22	1.98	0.44
3:CN:246:TRP:HZ2	4:FO:122:ILE:HD12	1.82	0.44
3:CO:271:ARG:NH2	4:DO:59:ASP:HB2	2.33	0.44
4:FO:76:LYS:O	4:FO:79:LEU:HG	2.17	0.44
2:BP:253:GLU:HG3	2:BP:315:LEU:HD11	1.99	0.44
4:EP:73:MET:HB3	4:FP:64:LEU:HD23	1.99	0.44
2:BR:98:LEU:HA	2:BR:101:ARG:HH11	1.82	0.44
4:ER:117:LYS:HD2	4:ER:117:LYS:HA	1.71	0.44
2:BT:113:MET:HE1	2:BT:117:SER:HB2	1.99	0.44
2:BT:251:LEU:HA	2:BT:254:VAL:HG12	1.98	0.44
3:CT:271:ARG:HH21	4:DT:59:ASP:HB2	1.82	0.44
3:CU:272:LEU:HB2	4:DU:60:ILE:HB	1.99	0.44
4:FV:132:MET:HE3	4:FV:135:LEU:HB3	1.98	0.44
2:BY:174:GLU:OE2	3:CY:149:THR:HA	2.17	0.44
1:A1:547:VAL:HG13	2:B1:25:VAL:HG22	1.98	0.44
3:C1:112:GLY:HA3	3:C1:223:MET:CE	2.47	0.44
4:E1:114:VAL:O	4:E1:117:LYS:HB2	2.17	0.44
3:C2:271:ARG:HH21	4:D2:59:ASP:HB2	1.81	0.44
4:D2:64:LEU:HD13	4:D2:101:ILE:HB	2.00	0.44
4:E2:76:LYS:NZ	4:F2:59:ASP:HA	2.32	0.44
1:A4:532:MET:O	1:A4:536:ILE:HG12	2.17	0.44
2:B4:242:VAL:O	2:B4:243:ASP:OD1	2.36	0.44
3:C4:42:THR:HG22	3:C4:44:ARG:HG3	1.99	0.44
2:B5:48:SER:HB3	2:B6:66:PHE:CD1	2.52	0.44
3:C6:238:ASN:ND2	3:C7:112:GLY:HA2	2.32	0.44
1:A7:522:ARG:HD3	2:B8:64:GLU:HG3	1.99	0.44
3:C7:302:LEU:HD13	3:C7:317:VAL:HG13	2.00	0.44
2:B8:113:MET:SD	2:B8:118:ALA:HB2	2.57	0.44
2:BA:245:ARG:NH2	2:BA:321:MET:HB3	2.30	0.44
2:BD:43:ASN:O	2:BD:45:ARG:NH1	2.48	0.44
2:BD:113:MET:CE	2:BD:117:SER:HB2	2.47	0.44
2:BE:81:LEU:HD12	2:BE:94:LEU:HG	1.98	0.44
2:BE:135:VAL:HG11	2:BF:194:GLY:HA3	1.98	0.44
2:BE:196:VAL:C	2:BE:198:THR:H	2.20	0.44
4:EE:76:LYS:NZ	4:FE:59:ASP:HA	2.33	0.44
4:FF:134:ARG:HA	4:FF:137:ARG:NH1	2.32	0.44
2:BG:96:ASP:O	2:BG:100:THR:HG23	2.16	0.44
3:CG:89:TYR:HD2	3:CG:195:PRO:HA	1.83	0.44
4:EG:131:ARG:HA	4:EG:134:ARG:HH11	1.81	0.44
3:CI:89:TYR:HD2	3:CI:195:PRO:HA	1.83	0.44
3:CI:299:VAL:HA	4:FI:132:MET:HE2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:107:LEU:HD11	3:CJ:219:LEU:HD22	1.99	0.44
3:CJ:125:ILE:HG12	3:CJ:211:LEU:HD13	1.98	0.44
4:FK:76:LYS:O	4:FK:79:LEU:HG	2.17	0.44
2:BL:84:ALA:HB3	2:BL:85:LEU:HD12	1.99	0.44
3:CL:89:TYR:HD2	3:CL:195:PRO:HA	1.82	0.44
4:FL:133:ARG:HH12	4:FL:137:ARG:NH1	2.14	0.44
1:AM:532:MET:O	1:AM:536:ILE:HG12	2.17	0.44
3:CM:272:LEU:HB2	4:DM:60:ILE:HB	2.00	0.44
4:FN:70:ARG:HH21	4:FN:137:ARG:HH22	1.63	0.44
2:BO:17:ILE:O	2:BO:21:ARG:HD2	2.17	0.44
2:BO:246:SER:O	2:BO:250:LEU:HD23	2.17	0.44
4:EP:69:GLY:C	4:EP:70:ARG:HD3	2.38	0.44
2:BQ:139:ARG:HH12	2:BR:198:THR:HA	1.82	0.44
3:CQ:274:GLN:O	3:CQ:278:LEU:HB2	2.18	0.44
3:CR:247:ARG:CZ	4:ES:79:LEU:HB3	2.48	0.44
4:ER:69:GLY:C	4:ER:70:ARG:HD3	2.38	0.44
4:DS:104:TYR:HB3	4:DS:131:ARG:NH2	2.31	0.44
3:CU:293:ILE:HD12	3:CU:302:LEU:O	2.17	0.44
4:EU:106:ILE:HD12	4:EU:125:ILE:HD11	1.99	0.44
4:FV:106:ILE:O	4:FV:126:ILE:HG12	2.18	0.44
2:BW:253:GLU:OE1	2:BW:314:ARG:NH2	2.50	0.44
3:CW:271:ARG:NH2	4:DW:59:ASP:HB2	2.32	0.44
2:BY:93:LEU:O	2:BY:97:ILE:HG12	2.16	0.44
2:BY:159:LEU:HB3	3:CY:137:PHE:CE2	2.52	0.44
3:CY:42:THR:HG22	3:CY:44:ARG:HG3	2.00	0.44
2:B1:242:VAL:O	2:B1:243:ASP:OD1	2.36	0.44
3:C2:299:VAL:HA	4:F2:132:MET:CE	2.43	0.44
2:B3:46:GLN:HG2	1:A4:549:LEU:HD13	1.99	0.44
4:F3:100:LEU:HA	4:F3:105:LEU:HA	1.99	0.44
2:B5:62:GLU:O	2:B5:65:GLN:HG3	2.16	0.44
2:B5:171:ALA:HB1	3:C5:131:PHE:CE1	2.53	0.44
3:C5:251:VAL:O	3:C5:255:GLN:HG3	2.17	0.44
4:E6:58:MET:HG2	4:F6:75:ILE:HD11	1.99	0.44
2:B8:113:MET:CE	2:B8:117:SER:HB2	2.47	0.44
2:B8:207:LYS:HG3	2:B8:209:GLN:H	1.82	0.44
2:B8:246:SER:O	2:B8:250:LEU:HD23	2.16	0.44
2:B8:308:ILE:O	2:B8:312:VAL:HG23	2.18	0.44
4:E8:58:MET:SD	4:F8:75:ILE:HG13	2.57	0.44
3:C9:271:ARG:NH2	4:D9:59:ASP:HB2	2.32	0.44
3:C9:274:GLN:O	3:C9:278:LEU:HB2	2.16	0.44
3:CA:271:ARG:NH2	4:DA:59:ASP:HB2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:302:LEU:HD13	3:CA:317:VAL:HG13	2.00	0.44
4:EB:114:VAL:O	4:EB:117:LYS:HB2	2.18	0.44
2:BE:161:ILE:HG22	2:BF:199:ALA:HB2	1.99	0.44
2:BF:113:MET:CE	2:BF:117:SER:HB2	2.47	0.44
4:DF:102:ASN:ND2	4:EF:61:PRO:O	2.42	0.44
2:BG:93:LEU:O	2:BG:97:ILE:HG12	2.16	0.44
3:CG:146:PHE:HA	3:CG:150:GLU:OE1	2.17	0.44
4:FG:77:GLU:O	4:FG:81:LEU:HG	2.18	0.44
2:BH:10:SER:O	2:BH:14:LEU:HD23	2.16	0.44
2:BK:21:ARG:O	2:BK:25:VAL:HG23	2.16	0.44
4:EK:75:ILE:O	4:EK:79:LEU:HG	2.17	0.44
4:FK:134:ARG:HA	4:FK:137:ARG:HH12	1.82	0.44
2:BL:212:GLU:HA	2:BL:215:ILE:HG12	1.99	0.44
2:BM:17:ILE:O	2:BM:21:ARG:HD2	2.17	0.44
2:BM:166:GLY:O	3:CM:132:GLY:HA2	2.17	0.44
2:BN:229:ILE:O	2:BN:233:MET:HG2	2.18	0.44
2:BO:43:ASN:HB3	2:BP:101:ARG:NH2	2.32	0.44
2:BP:159:LEU:HB3	3:CP:137:PHE:CE2	2.52	0.44
3:CP:125:ILE:HG12	3:CP:211:LEU:HD13	1.99	0.44
2:BQ:171:ALA:HB1	3:CQ:131:PHE:CE1	2.53	0.44
2:BR:253:GLU:HG3	2:BR:315:LEU:HD11	1.99	0.44
3:CS:234:PRO:O	3:CS:236:LEU:N	2.46	0.44
3:CS:272:LEU:HB2	4:DS:60:ILE:HB	2.00	0.44
2:BT:113:MET:CE	2:BT:117:SER:HB2	2.46	0.44
1:AU:547:VAL:HG13	2:BU:25:VAL:HG22	1.98	0.44
2:BU:166:GLY:O	2:BV:190:ARG:NE	2.32	0.44
2:BU:212:GLU:HA	2:BU:215:ILE:HG12	1.99	0.44
3:CV:107:LEU:HD11	3:CV:219:LEU:HD22	2.00	0.44
3:CW:42:THR:HG22	3:CW:44:ARG:HG3	1.98	0.44
3:CY:53:ALA:HB1	3:CY:172:ILE:HD13	1.99	0.44
2:B1:239:LEU:HD23	2:B1:239:LEU:HA	1.85	0.44
3:C1:299:VAL:HA	4:F1:132:MET:HE3	2.00	0.44
3:C2:108:LYS:O	3:C2:175:LEU:HB2	2.17	0.44
2:B3:196:VAL:C	2:B3:198:THR:H	2.21	0.44
3:C3:260:GLU:HA	4:D3:72:ARG:NH2	2.33	0.44
3:C4:302:LEU:HD13	3:C4:317:VAL:HG13	2.00	0.44
4:E4:76:LYS:NZ	4:F4:59:ASP:HA	2.32	0.44
1:A6:540:SER:OG	2:B6:21:ARG:HD3	2.17	0.44
2:B6:212:GLU:HA	2:B6:215:ILE:HG12	1.99	0.44
3:C6:253:GLN:HG3	4:F7:125:ILE:HD11	2.00	0.44
2:B7:13:LEU:HD13	2:B7:59:PHE:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D7:130:GLU:HG3	4:D7:134:ARG:HD2	1.99	0.44
2:B8:26:PHE:HD1	2:B8:29:LEU:HD12	1.82	0.44
2:B8:78:ARG:HA	2:B8:94:LEU:HD11	1.99	0.44
3:C8:53:ALA:HB1	3:C8:172:ILE:HD13	1.99	0.44
4:E8:114:VAL:O	4:E8:117:LYS:HB2	2.18	0.44
3:C9:293:ILE:HD12	3:C9:302:LEU:O	2.17	0.44
4:DA:129:SER:O	4:DA:133:ARG:HD3	2.18	0.44
2:BB:245:ARG:NH2	2:BB:321:MET:HB3	2.32	0.44
3:CB:42:THR:HG22	3:CB:44:ARG:HG3	1.99	0.44
2:BC:139:ARG:CD	2:BD:201:GLU:HG3	2.48	0.44
3:CE:234:PRO:O	3:CE:236:LEU:N	2.46	0.44
2:BF:113:MET:SD	2:BF:118:ALA:HB2	2.57	0.44
3:CF:271:ARG:NH2	4:DF:59:ASP:HB2	2.32	0.44
1:AG:540:SER:OG	2:BG:21:ARG:HD3	2.16	0.44
2:BG:212:GLU:HA	2:BG:215:ILE:HG12	1.98	0.44
3:CG:258:GLU:HA	4:DG:74:THR:HA	1.99	0.44
3:CH:271:ARG:NH2	4:DH:59:ASP:HB2	2.33	0.44
2:BK:135:VAL:HG11	2:BL:194:GLY:HA3	1.98	0.44
2:BK:273:LYS:HA	2:BK:276:ARG:NH1	2.33	0.44
2:BM:113:MET:HE1	2:BM:117:SER:HB2	2.00	0.44
2:BN:212:GLU:HA	2:BN:215:ILE:HG12	1.99	0.44
3:CN:260:GLU:HA	4:DN:72:ARG:HH22	1.82	0.44
3:CO:42:THR:HG22	3:CO:44:ARG:HG3	2.00	0.44
3:CO:274:GLN:O	3:CO:278:LEU:HB2	2.18	0.44
1:AP:549:LEU:HA	1:AP:552:ARG:HB2	1.98	0.44
2:BP:38:SER:HB3	2:BQ:97:ILE:HD11	1.98	0.44
3:CQ:259:LEU:HD21	4:FR:60:ILE:HG21	2.00	0.44
2:BS:273:LYS:HA	2:BS:276:ARG:NH1	2.33	0.44
3:CS:259:LEU:HD21	4:FT:60:ILE:HG21	1.99	0.44
4:ET:75:ILE:HB	4:ET:76:LYS:NZ	2.33	0.44
1:AU:540:SER:OG	2:BU:21:ARG:HD3	2.17	0.44
2:BV:13:LEU:HD13	2:BV:59:PHE:CD1	2.53	0.44
2:BV:171:ALA:HB1	3:CV:131:PHE:CE1	2.52	0.44
4:DW:130:GLU:HG3	4:DW:134:ARG:HD2	1.99	0.44
2:BX:37:LEU:O	2:BX:41:MET:HG2	2.18	0.44
2:BX:273:LYS:HA	2:BX:276:ARG:NH1	2.32	0.44
3:CX:260:GLU:HA	4:DX:72:ARG:NH2	2.33	0.44
3:CY:70:PHE:HA	3:CY:75:ARG:O	2.18	0.44
2:B1:166:GLY:O	2:B2:190:ARG:NE	2.29	0.44
3:C1:299:VAL:HA	4:F1:132:MET:CE	2.48	0.44
1:A2:532:MET:O	1:A2:536:ILE:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E2:114:VAL:O	4:E2:117:LYS:HB2	2.18	0.44
2:B3:158:MET:CE	2:B4:214:VAL:HG13	2.48	0.44
2:B3:212:GLU:HA	2:B3:215:ILE:HG12	2.00	0.44
3:C3:89:TYR:HD2	3:C3:195:PRO:HA	1.82	0.44
3:C3:229:GLU:HG2	3:C3:230:LEU:N	2.33	0.44
1:A5:532:MET:O	1:A5:536:ILE:HG12	2.17	0.44
2:B6:159:LEU:HB3	3:C6:137:PHE:CE2	2.52	0.44
2:B6:171:ALA:HB1	3:C6:131:PHE:CE1	2.53	0.44
3:C6:112:GLY:HA3	3:C6:223:MET:CE	2.48	0.44
4:E6:58:MET:SD	4:F6:76:LYS:NZ	2.83	0.44
4:E6:114:VAL:O	4:E6:117:LYS:HB2	2.18	0.44
3:C7:229:GLU:HG2	3:C7:230:LEU:N	2.33	0.44
3:C7:271:ARG:NH2	4:D7:59:ASP:HB2	2.33	0.44
2:B9:56:LEU:HD12	2:B9:57:SER:N	2.33	0.44
3:C9:271:ARG:HH21	4:D9:59:ASP:HB2	1.81	0.44
2:BB:212:GLU:HA	2:BB:215:ILE:HG12	1.98	0.44
3:CB:258:GLU:HA	4:DB:74:THR:HA	1.99	0.44
2:BC:10:SER:HA	2:BC:13:LEU:HD12	1.99	0.44
3:CC:299:VAL:HG21	4:FD:61:PRO:CD	2.47	0.44
4:EC:75:ILE:O	4:EC:79:LEU:HG	2.17	0.44
4:ED:117:LYS:HD2	4:ED:117:LYS:HA	1.71	0.44
2:BE:13:LEU:HD13	2:BE:59:PHE:CD1	2.53	0.44
1:AF:522:ARG:HD3	2:BG:64:GLU:HG3	1.99	0.44
2:BH:93:LEU:O	2:BH:97:ILE:HG12	2.16	0.44
4:EH:106:ILE:HD12	4:EH:125:ILE:HD11	1.99	0.44
4:FH:134:ARG:HA	4:FH:137:ARG:NH1	2.33	0.44
3:CI:271:ARG:NH2	4:DI:59:ASP:HB2	2.33	0.44
4:EJ:121:ARG:NH1	4:FJ:86:VAL:HA	2.31	0.44
2:BK:72:ASN:HB3	2:BK:76:TYR:HB2	1.99	0.44
2:BK:157:VAL:O	2:BK:161:ILE:HG12	2.18	0.44
3:CK:302:LEU:HD13	3:CK:317:VAL:HG13	1.99	0.44
2:BL:113:MET:SD	2:BL:118:ALA:HB2	2.57	0.44
3:CM:125:ILE:HG12	3:CM:211:LEU:HD13	1.98	0.44
4:DM:129:SER:O	4:DM:133:ARG:HD3	2.17	0.44
4:FM:100:LEU:HA	4:FM:105:LEU:HA	2.00	0.44
2:BN:207:LYS:HG3	2:BN:209:GLN:H	1.83	0.44
3:CN:293:ILE:HD12	3:CN:302:LEU:O	2.17	0.44
2:BO:174:GLU:OE2	3:CO:149:THR:HA	2.17	0.44
4:EP:74:THR:O	4:EP:78:LEU:HG	2.17	0.44
4:FP:105:LEU:HD22	4:FP:126:ILE:HD13	2.00	0.44
1:AQ:532:MET:SD	1:AQ:532:MET:C	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EQ:75:ILE:HG13	4:FQ:58:MET:HG2	1.99	0.44
4:FQ:100:LEU:HA	4:FQ:105:LEU:HA	1.99	0.44
4:DR:102:ASN:ND2	4:ER:61:PRO:O	2.42	0.44
2:BS:196:VAL:C	2:BS:198:THR:H	2.21	0.44
3:CS:260:GLU:HA	4:DS:72:ARG:HH22	1.82	0.44
4:ET:58:MET:SD	4:FT:75:ILE:HG13	2.58	0.44
1:AV:532:MET:SD	1:AV:532:MET:C	2.95	0.44
3:CW:260:GLU:HA	4:DW:72:ARG:HH22	1.83	0.44
4:EW:76:LYS:NZ	4:FW:59:ASP:HA	2.32	0.44
3:CX:179:TYR:OH	3:CX:182:SER:OG	2.25	0.44
4:FX:133:ARG:HH12	4:FX:137:ARG:HH11	1.65	0.44
3:CY:271:ARG:NH2	4:DY:59:ASP:HB2	2.32	0.44
4:DY:67:GLU:HG3	4:DY:98:ASP:HB3	1.99	0.44
3:C1:229:GLU:HG2	3:C1:230:LEU:N	2.33	0.44
3:C1:258:GLU:HA	4:D1:74:THR:HA	2.00	0.44
4:F1:60:ILE:HG21	3:CY:259:LEU:HD21	1.99	0.44
3:C2:107:LEU:HD11	3:C2:219:LEU:HD22	1.99	0.44
4:D2:104:TYR:HB3	4:D2:131:ARG:NH2	2.33	0.44
1:A3:532:MET:C	1:A3:532:MET:SD	2.96	0.44
4:D3:101:ILE:HD13	4:E3:60:ILE:HD13	1.99	0.44
3:C5:229:GLU:HG2	3:C5:230:LEU:N	2.33	0.44
2:B7:146:LEU:O	2:B7:154:ARG:NE	2.50	0.44
3:C8:42:THR:HG22	3:C8:44:ARG:HG3	1.99	0.44
2:B9:113:MET:CE	2:B9:117:SER:HB2	2.47	0.44
2:B9:171:ALA:HB1	3:C9:131:PHE:CE1	2.53	0.44
3:CA:107:LEU:HD11	3:CA:219:LEU:HD22	2.00	0.44
3:CA:246:TRP:HZ2	4:FB:122:ILE:HD12	1.83	0.44
2:BB:26:PHE:HA	2:BB:29:LEU:HD12	1.99	0.44
2:BB:43:ASN:O	2:BB:45:ARG:NH1	2.49	0.44
3:CB:293:ILE:HD12	3:CB:302:LEU:O	2.18	0.44
4:FB:100:LEU:HA	4:FB:105:LEU:HA	2.00	0.44
2:BC:96:ASP:O	2:BC:100:THR:HG23	2.18	0.44
3:CC:229:GLU:HG2	3:CC:230:LEU:N	2.33	0.44
4:DC:130:GLU:HG3	4:DC:134:ARG:HD2	1.99	0.44
4:ED:114:VAL:O	4:ED:117:LYS:HB2	2.18	0.44
3:CE:112:GLY:HA3	3:CE:223:MET:CE	2.48	0.44
4:EG:59:ASP:HA	4:FG:76:LYS:HZ1	1.83	0.44
1:AH:536:ILE:HD13	1:AH:539:MET:HE3	2.00	0.44
2:BH:245:ARG:NH1	2:BH:249:ARG:HB2	2.32	0.44
4:FH:133:ARG:HH12	4:FH:137:ARG:NH1	2.16	0.44
3:CI:260:GLU:HA	4:DI:72:ARG:NH2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:89:TYR:HD2	3:CJ:195:PRO:HA	1.82	0.44
2:BK:171:ALA:HB1	3:CK:131:PHE:CE1	2.53	0.44
4:FK:96:PRO:HB2	4:FK:108:GLN:HB3	1.99	0.44
3:CL:271:ARG:NH2	4:DL:59:ASP:HB2	2.32	0.44
2:BM:43:ASN:O	2:BM:45:ARG:NH1	2.49	0.44
2:BM:110:LEU:HA	2:BM:113:MET:HG3	1.98	0.44
3:CM:42:THR:HG22	3:CM:44:ARG:HG3	1.99	0.44
3:CM:246:TRP:HZ2	4:FN:122:ILE:HD12	1.82	0.44
2:BN:246:SER:O	2:BN:250:LEU:HD23	2.17	0.44
3:CN:260:GLU:HA	4:DN:72:ARG:NH2	2.33	0.44
2:BQ:247:ILE:HD11	2:BQ:273:LYS:HG3	1.99	0.44
2:BS:113:MET:HE1	2:BS:117:SER:HB2	2.00	0.44
4:DT:129:SER:O	4:DT:133:ARG:HD3	2.18	0.44
2:BU:308:ILE:O	2:BU:312:VAL:HG23	2.17	0.44
3:CU:247:ARG:CZ	4:EV:79:LEU:HB3	2.48	0.44
3:CU:251:VAL:O	3:CU:255:GLN:HG3	2.18	0.44
4:FV:134:ARG:HA	4:FV:137:ARG:NH1	2.33	0.44
2:BY:224:GLU:OE2	2:BY:228:LYS:HE3	2.18	0.44
4:EY:76:LYS:NZ	4:FY:59:ASP:HA	2.33	0.44
1:A2:536:ILE:HD13	1:A2:539:MET:HE3	1.99	0.44
2:B2:139:ARG:HG2	2:B3:201:GLU:OE1	2.17	0.44
2:B2:171:ALA:HB1	3:C2:131:PHE:CE1	2.53	0.44
2:B2:203:ILE:HG22	2:B2:211:GLU:HB2	2.00	0.44
3:C2:259:LEU:HD21	4:F3:60:ILE:HG21	2.00	0.44
3:C2:302:LEU:HD13	3:C2:317:VAL:HG13	2.00	0.44
2:B3:13:LEU:HD13	2:B3:59:PHE:CD1	2.53	0.44
2:B3:72:ASN:O	2:B3:76:TYR:HB2	2.17	0.44
3:C3:302:LEU:HD13	3:C3:317:VAL:HG13	2.00	0.44
2:B4:139:ARG:HG3	2:B5:205:LEU:CD1	2.48	0.44
3:C4:299:VAL:HA	4:F4:132:MET:HE2	2.00	0.44
2:B5:26:PHE:CE2	2:B6:84:ALA:HB1	2.53	0.44
3:C5:234:PRO:O	3:C5:236:LEU:N	2.47	0.44
2:B6:93:LEU:O	2:B6:97:ILE:HG12	2.18	0.44
3:C6:246:TRP:HZ2	4:F7:122:ILE:HD12	1.83	0.44
3:C7:42:THR:HG22	3:C7:44:ARG:HG3	2.00	0.44
2:BC:166:GLY:O	3:CC:132:GLY:HA2	2.18	0.44
4:EC:118:TYR:CG	4:FC:68:LEU:HD21	2.53	0.44
2:BE:17:ILE:O	2:BE:21:ARG:HD2	2.17	0.44
3:CE:253:GLN:HG3	4:FF:125:ILE:HD11	2.00	0.44
2:BF:43:ASN:O	2:BF:45:ARG:NH1	2.50	0.44
2:BG:81:LEU:HD13	2:BG:93:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:98:LEU:HA	2:BG:101:ARG:NH2	2.33	0.44
2:BH:212:GLU:HA	2:BH:215:ILE:HG12	1.99	0.44
3:CH:246:TRP:HZ2	4:FI:122:ILE:HD12	1.83	0.44
3:CI:42:THR:HG22	3:CI:44:ARG:HG3	1.99	0.44
1:AJ:532:MET:O	1:AJ:536:ILE:HG12	2.17	0.44
2:BL:171:ALA:HB1	3:CL:131:PHE:CE1	2.53	0.44
3:CL:64:GLN:O	3:CL:67:MET:HG3	2.18	0.44
3:CL:293:ILE:HD12	3:CL:302:LEU:O	2.17	0.44
4:DL:104:TYR:HB3	4:DL:131:ARG:NH2	2.33	0.44
2:BM:171:ALA:HB1	3:CM:131:PHE:CE1	2.53	0.44
2:BN:93:LEU:O	2:BN:97:ILE:HG12	2.17	0.44
4:DO:104:TYR:CD2	4:EO:61:PRO:HG3	2.53	0.44
2:BP:246:SER:O	2:BP:250:LEU:HD23	2.17	0.44
4:DQ:68:LEU:HA	4:DQ:97:LEU:HD23	2.00	0.44
1:AR:547:VAL:HG23	2:BR:59:PHE:CZ	2.44	0.44
2:BS:96:ASP:O	2:BS:100:THR:HG23	2.18	0.44
3:CS:271:ARG:HH21	4:DS:59:ASP:HB2	1.81	0.44
2:BU:273:LYS:HA	2:BU:276:ARG:NH1	2.33	0.44
2:BV:273:LYS:HA	2:BV:276:ARG:NH1	2.32	0.44
3:CV:271:ARG:NH2	4:DV:59:ASP:HB2	2.32	0.44
3:CW:260:GLU:HA	4:DW:72:ARG:NH2	2.32	0.44
1:AX:532:MET:O	1:AX:536:ILE:HG12	2.18	0.44
2:BY:273:LYS:HA	2:BY:276:ARG:NH1	2.33	0.44
2:B1:98:LEU:HA	2:B1:101:ARG:NH2	2.33	0.44
4:D3:130:GLU:HG3	4:D3:134:ARG:HD2	2.00	0.44
3:C5:247:ARG:CZ	4:E6:79:LEU:HB3	2.47	0.44
1:A6:532:MET:O	1:A6:536:ILE:HG12	2.18	0.44
4:E6:71:THR:HA	4:E6:90:ASP:OD2	2.18	0.44
4:E6:76:LYS:HE2	4:F6:59:ASP:HA	1.99	0.44
2:B7:46:GLN:HE22	2:B8:68:ALA:C	2.21	0.44
4:E8:130:GLU:OE1	4:E8:130:GLU:N	2.49	0.44
1:A9:540:SER:OG	2:B9:21:ARG:HD3	2.18	0.44
1:A9:549:LEU:HA	1:A9:552:ARG:HB2	1.99	0.44
3:C9:229:GLU:HG2	3:C9:230:LEU:N	2.33	0.44
3:C9:258:GLU:HA	4:D9:74:THR:HA	2.00	0.44
4:D9:102:ASN:ND2	4:E9:61:PRO:O	2.40	0.44
4:E9:76:LYS:NZ	4:F9:59:ASP:HA	2.33	0.44
2:BA:246:SER:O	2:BA:250:LEU:HD23	2.17	0.44
4:DA:106:ILE:HD13	4:EA:60:ILE:HD11	1.98	0.44
1:AB:549:LEU:HA	1:AB:552:ARG:HB2	1.99	0.44
3:CB:229:GLU:HG2	3:CB:230:LEU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EB:74:THR:O	4:EB:78:LEU:HG	2.18	0.44
3:CC:293:ILE:HD12	3:CC:302:LEU:O	2.18	0.44
2:BE:125:GLU:HA	3:CE:147:THR:HG21	2.00	0.44
3:CE:229:GLU:HG2	3:CE:230:LEU:N	2.33	0.44
3:CE:260:GLU:HA	4:DE:72:ARG:NH2	2.32	0.44
4:EE:69:GLY:C	4:EE:70:ARG:HD3	2.38	0.44
3:CF:70:PHE:HA	3:CF:75:ARG:O	2.18	0.44
3:CF:279:LYS:HA	3:CF:279:LYS:HD3	1.83	0.44
1:AH:551:ILE:O	1:AH:555:MET:HE2	2.17	0.44
2:BH:98:LEU:HA	2:BH:101:ARG:NH2	2.32	0.44
4:EH:114:VAL:O	4:EH:117:LYS:HB2	2.18	0.44
1:AI:532:MET:O	1:AI:536:ILE:HG12	2.17	0.44
1:AI:540:SER:OG	2:BI:21:ARG:HD3	2.18	0.44
2:BI:46:GLN:HE22	2:BJ:67:ALA:HA	1.83	0.44
2:BI:171:ALA:HB1	3:CI:131:PHE:CE1	2.53	0.44
2:BI:250:LEU:O	2:BI:254:VAL:HG12	2.18	0.44
3:CI:234:PRO:O	3:CI:236:LEU:N	2.46	0.44
4:EI:114:VAL:O	4:EI:117:LYS:HB2	2.18	0.44
3:CJ:260:GLU:HA	4:DJ:72:ARG:NH2	2.32	0.44
4:EJ:75:ILE:O	4:EJ:79:LEU:HG	2.17	0.44
2:BK:96:ASP:O	2:BK:100:THR:HG23	2.18	0.44
3:CK:260:GLU:HA	4:DK:72:ARG:NH2	2.33	0.44
4:EK:114:VAL:O	4:EK:117:LYS:HB2	2.18	0.44
2:BL:11:VAL:O	2:BL:15:MET:HG2	2.18	0.44
2:BL:207:LYS:HG3	2:BL:209:GLN:H	1.82	0.44
3:CM:302:LEU:HD13	3:CM:317:VAL:HG13	1.99	0.44
4:FM:76:LYS:O	4:FM:79:LEU:HG	2.17	0.44
1:AN:532:MET:O	1:AN:536:ILE:HG12	2.17	0.44
4:EN:75:ILE:HG12	4:FN:60:ILE:O	2.18	0.44
3:CO:229:GLU:HG2	3:CO:230:LEU:N	2.33	0.44
2:BP:239:LEU:HD23	2:BP:239:LEU:HA	1.86	0.44
2:BQ:135:VAL:HG11	2:BR:194:GLY:HA3	2.00	0.44
4:DS:129:SER:O	4:DS:133:ARG:HD3	2.18	0.44
4:ES:74:THR:HG22	4:ES:75:ILE:N	2.33	0.44
4:ES:114:VAL:O	4:ES:117:LYS:HB2	2.17	0.44
4:ES:118:TYR:CG	4:FS:68:LEU:HD21	2.53	0.44
2:BT:174:GLU:HA	2:BT:177:GLU:HG2	2.00	0.44
2:BT:239:LEU:HD23	2:BT:239:LEU:HA	1.86	0.44
2:BU:68:ALA:O	2:BU:70:ASN:ND2	2.51	0.44
2:BV:62:GLU:O	2:BV:65:GLN:HG3	2.18	0.44
3:CV:246:TRP:HZ2	4:FW:122:ILE:HD12	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EV:114:VAL:O	4:EV:117:LYS:HB2	2.18	0.44
4:FV:76:LYS:O	4:FV:79:LEU:HG	2.17	0.44
3:CW:101:ASN:HB3	3:CW:118:PHE:HB2	2.00	0.44
4:DW:129:SER:O	4:DW:133:ARG:HD3	2.18	0.44
2:BX:93:LEU:O	2:BX:97:ILE:HG12	2.18	0.44
4:EX:75:ILE:HB	4:EX:76:LYS:NZ	2.33	0.44
1:AY:532:MET:SD	1:AY:532:MET:C	2.96	0.44
2:BY:196:VAL:C	2:BY:198:THR:H	2.20	0.44
3:CY:299:VAL:HA	4:FY:132:MET:CE	2.42	0.44
4:DY:101:ILE:HG22	4:DY:106:ILE:HB	1.99	0.44
4:FY:76:LYS:O	4:FY:79:LEU:HG	2.17	0.44
2:B1:166:GLY:HA3	2:B2:190:ARG:HG2	1.99	0.43
2:B2:81:LEU:HD13	2:B2:93:LEU:HB2	1.99	0.43
3:C2:42:THR:HG22	3:C2:44:ARG:HG3	2.00	0.43
2:B3:166:GLY:O	3:C3:132:GLY:HA2	2.18	0.43
4:E3:69:GLY:C	4:E3:70:ARG:HD3	2.38	0.43
4:E3:114:VAL:O	4:E3:117:LYS:HB2	2.18	0.43
3:C4:293:ILE:HD12	3:C4:302:LEU:O	2.18	0.43
2:B5:11:VAL:O	2:B5:15:MET:HG2	2.18	0.43
3:C5:70:PHE:HA	3:C5:75:ARG:O	2.19	0.43
3:C5:89:TYR:HD2	3:C5:195:PRO:HA	1.82	0.43
2:B6:207:LYS:HG3	2:B6:209:GLN:H	1.83	0.43
3:C6:229:GLU:HG2	3:C6:230:LEU:N	2.33	0.43
4:D6:64:LEU:HD13	4:D6:101:ILE:HB	2.00	0.43
4:D7:101:ILE:HG22	4:D7:106:ILE:HB	1.99	0.43
2:B9:113:MET:SD	2:B9:118:ALA:HB2	2.57	0.43
3:C9:70:PHE:HA	3:C9:75:ARG:O	2.18	0.43
3:C9:250:LEU:HD21	4:EA:78:LEU:O	2.18	0.43
4:EA:128:PRO:HG3	4:EA:131:ARG:HH21	1.82	0.43
2:BB:103:THR:HG21	2:BB:109:THR:CG2	2.48	0.43
3:CC:42:THR:HG22	3:CC:44:ARG:HG3	1.99	0.43
3:CC:108:LYS:O	3:CC:175:LEU:HB2	2.17	0.43
4:EC:75:ILE:HA	4:EC:78:LEU:HD12	2.00	0.43
1:AE:544:PRO:HA	1:AE:547:VAL:HG12	2.00	0.43
2:BE:113:MET:HE2	2:BE:117:SER:HB2	2.01	0.43
3:CF:42:THR:HG22	3:CF:44:ARG:HG3	1.98	0.43
4:FF:76:LYS:O	4:FF:79:LEU:HG	2.18	0.43
4:EG:75:ILE:HB	4:EG:76:LYS:NZ	2.33	0.43
4:EG:114:VAL:O	4:EG:117:LYS:HB2	2.18	0.43
1:AH:532:MET:O	1:AH:536:ILE:HG12	2.18	0.43
2:BH:273:LYS:HA	2:BH:276:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:212:GLU:HA	2:BI:215:ILE:HG12	1.99	0.43
2:BI:242:VAL:O	2:BI:243:ASP:OD1	2.36	0.43
3:CI:258:GLU:HA	4:DI:74:THR:HA	2.00	0.43
4:EI:69:GLY:C	4:EI:70:ARG:HD3	2.38	0.43
4:EJ:58:MET:SD	4:FJ:75:ILE:HG13	2.58	0.43
2:BK:4:LEU:HD23	2:BK:4:LEU:HA	1.90	0.43
4:DK:99:ILE:HD12	4:DK:107:ALA:HB3	2.00	0.43
4:DL:101:ILE:HG22	4:DL:106:ILE:HB	1.98	0.43
4:EL:114:VAL:O	4:EL:117:LYS:HB2	2.18	0.43
1:AM:540:SER:OG	2:BM:21:ARG:HD3	2.18	0.43
1:AO:547:VAL:HG23	2:BO:59:PHE:CZ	2.45	0.43
4:EP:117:LYS:HD2	4:EP:117:LYS:HA	1.71	0.43
4:ER:58:MET:SD	4:FR:75:ILE:HG13	2.58	0.43
2:BS:207:LYS:HG3	2:BS:209:GLN:H	1.82	0.43
2:BT:158:MET:CE	2:BU:214:VAL:HG13	2.47	0.43
2:BU:81:LEU:HD13	2:BU:93:LEU:HB2	2.00	0.43
2:BU:113:MET:SD	2:BU:118:ALA:HB2	2.58	0.43
3:CU:184:MET:H	3:CU:188:PHE:HD2	1.66	0.43
3:CU:246:TRP:HZ2	4:FV:122:ILE:HD12	1.81	0.43
4:EU:114:VAL:O	4:EU:117:LYS:HB2	2.18	0.43
2:BV:166:GLY:O	2:BW:190:ARG:NE	2.33	0.43
2:BV:239:LEU:HD23	2:BV:239:LEU:HA	1.86	0.43
3:CV:112:GLY:HA3	3:CV:223:MET:CE	2.48	0.43
2:BW:251:LEU:HA	2:BW:254:VAL:HG12	1.99	0.43
2:BW:273:LYS:HA	2:BW:276:ARG:NH1	2.32	0.43
3:CW:247:ARG:CZ	4:EX:79:LEU:HB3	2.48	0.43
4:EW:117:LYS:HA	4:EW:117:LYS:HD2	1.71	0.43
4:FW:76:LYS:O	4:FW:79:LEU:HG	2.18	0.43
2:BX:113:MET:SD	2:BX:118:ALA:HB2	2.57	0.43
3:CX:259:LEU:HD21	4:FY:60:ILE:HG21	2.00	0.43
3:CX:260:GLU:HA	4:DX:72:ARG:HH22	1.83	0.43
3:CX:271:ARG:NH2	4:DX:59:ASP:HB2	2.32	0.43
1:AY:544:PRO:HA	1:AY:547:VAL:HG12	2.00	0.43
2:BY:96:ASP:O	2:BY:100:THR:HG23	2.18	0.43
4:DY:104:TYR:CD2	4:EY:61:PRO:HG3	2.53	0.43
2:B2:96:ASP:O	2:B2:100:THR:HG23	2.19	0.43
2:B3:245:ARG:NH1	2:B3:249:ARG:HB2	2.33	0.43
3:C3:42:THR:HG22	3:C3:44:ARG:HG3	1.99	0.43
2:B4:10:SER:O	2:B4:14:LEU:HD23	2.18	0.43
3:C4:271:ARG:NH2	4:D4:59:ASP:HB2	2.32	0.43
4:E5:114:VAL:O	4:E5:117:LYS:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:196:VAL:C	2:B6:198:THR:H	2.20	0.43
2:B7:166:GLY:O	2:B8:190:ARG:NE	2.31	0.43
3:C7:259:LEU:HD21	4:F8:60:ILE:HG21	2.00	0.43
3:C7:274:GLN:O	3:C7:278:LEU:HB2	2.18	0.43
2:B8:72:ASN:O	2:B8:76:TYR:HB2	2.18	0.43
4:E8:118:TYR:CG	4:F8:68:LEU:HD21	2.53	0.43
2:B9:30:SER:O	2:B9:34:VAL:HG23	2.18	0.43
2:B9:53:THR:HA	2:B9:56:LEU:HD21	2.00	0.43
2:BA:166:GLY:HA2	2:BB:191:SER:O	2.19	0.43
4:EB:75:ILE:HG12	4:FB:60:ILE:O	2.19	0.43
3:CC:246:TRP:HZ2	4:FD:122:ILE:HD12	1.83	0.43
4:DC:106:ILE:HD13	4:EC:60:ILE:HD11	2.00	0.43
2:BD:103:THR:HG21	2:BD:109:THR:CG2	2.48	0.43
3:CD:229:GLU:HG2	3:CD:230:LEU:N	2.33	0.43
3:CD:230:LEU:HD23	3:CD:230:LEU:HA	1.90	0.43
4:DF:101:ILE:HG22	4:DF:106:ILE:HB	1.99	0.43
2:BG:242:VAL:O	2:BG:243:ASP:OD1	2.36	0.43
2:BG:273:LYS:HA	2:BG:276:ARG:NH1	2.33	0.43
3:CG:42:THR:HG22	3:CG:44:ARG:HG3	1.99	0.43
4:FG:132:MET:HE2	4:FG:136:SER:HB3	1.99	0.43
4:FG:134:ARG:HA	4:FG:137:ARG:NH1	2.33	0.43
3:CH:42:THR:HG22	3:CH:44:ARG:HG3	1.99	0.43
4:FI:100:LEU:HA	4:FI:105:LEU:HA	2.00	0.43
2:BJ:81:LEU:HD13	2:BJ:93:LEU:HB2	2.00	0.43
4:EJ:118:TYR:CG	4:FJ:68:LEU:HD21	2.53	0.43
3:CK:271:ARG:NH2	4:DK:59:ASP:HB2	2.33	0.43
4:EK:74:THR:HA	4:FK:61:PRO:HA	2.00	0.43
4:EL:76:LYS:NZ	4:FL:59:ASP:HA	2.33	0.43
3:CM:112:GLY:HA3	3:CM:223:MET:CE	2.48	0.43
4:DN:99:ILE:HD12	4:DN:107:ALA:HB3	2.00	0.43
4:EN:69:GLY:C	4:EN:70:ARG:HD3	2.38	0.43
4:EO:75:ILE:HG12	4:FO:60:ILE:O	2.18	0.43
1:AP:547:VAL:HG13	2:BP:25:VAL:HG22	2.00	0.43
2:BP:268:PRO:HG3	2:BP:271:ARG:HH21	1.81	0.43
3:CP:254:VAL:O	4:DP:75:ILE:HD13	2.18	0.43
4:EP:73:MET:CE	4:EP:78:LEU:HD23	2.48	0.43
2:BQ:113:MET:SD	2:BQ:118:ALA:HB2	2.58	0.43
2:BQ:161:ILE:O	2:BR:195:GLY:HA2	2.19	0.43
3:CQ:42:THR:HG22	3:CQ:44:ARG:HG3	1.99	0.43
3:CQ:70:PHE:HA	3:CQ:75:ARG:O	2.18	0.43
3:CQ:127:VAL:HG22	3:CQ:153:VAL:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CQ:234:PRO:O	3:CQ:236:LEU:N	2.44	0.43
4:EQ:69:GLY:C	4:EQ:70:ARG:HD3	2.39	0.43
3:CR:53:ALA:HB1	3:CR:172:ILE:HD13	2.00	0.43
4:ER:75:ILE:O	4:ER:79:LEU:HG	2.18	0.43
4:ER:114:VAL:O	4:ER:117:LYS:HB2	2.18	0.43
2:BS:139:ARG:NH2	2:BT:202:ILE:O	2.51	0.43
4:ET:114:VAL:O	4:ET:117:LYS:HB2	2.18	0.43
2:BU:76:TYR:CE2	2:BU:80:VAL:HG21	2.53	0.43
2:BU:171:ALA:HB1	3:CU:131:PHE:CE1	2.53	0.43
4:FV:100:LEU:HA	4:FV:105:LEU:HA	2.00	0.43
2:BW:212:GLU:HA	2:BW:215:ILE:HG12	1.99	0.43
4:EW:75:ILE:HB	4:EW:76:LYS:NZ	2.33	0.43
2:BX:11:VAL:O	2:BX:15:MET:HG2	2.19	0.43
3:CX:101:ASN:HB3	3:CX:118:PHE:HB2	2.00	0.43
4:EY:114:VAL:O	4:EY:117:LYS:HB2	2.18	0.43
3:C1:56:ILE:HD11	3:C2:188:PHE:CD1	2.53	0.43
3:C1:89:TYR:HD2	3:C1:195:PRO:HA	1.82	0.43
3:C1:260:GLU:HA	4:D1:72:ARG:HH22	1.83	0.43
3:C1:293:ILE:HD12	3:C1:302:LEU:O	2.18	0.43
4:E3:76:LYS:NZ	4:F3:59:ASP:HA	2.33	0.43
1:A4:540:SER:OG	2:B4:21:ARG:HD3	2.18	0.43
1:A4:555:MET:HA	1:A4:558:ASP:OD2	2.18	0.43
2:B4:171:ALA:HB1	3:C4:131:PHE:CE1	2.53	0.43
4:E4:118:TYR:CG	4:F4:68:LEU:HD21	2.54	0.43
4:E5:76:LYS:NZ	4:F5:59:ASP:HA	2.33	0.43
2:B6:17:ILE:O	2:B6:21:ARG:HD2	2.18	0.43
2:B6:68:ALA:O	2:B6:70:ASN:ND2	2.51	0.43
3:C6:53:ALA:HB1	3:C6:172:ILE:HD13	1.99	0.43
4:D6:56:LEU:HD23	4:D6:56:LEU:H	1.84	0.43
2:B8:171:ALA:HB1	3:C8:131:PHE:CE1	2.53	0.43
3:C8:229:GLU:HG2	3:C8:230:LEU:N	2.33	0.43
3:C8:260:GLU:HA	4:D8:72:ARG:HH22	1.84	0.43
4:E8:75:ILE:HG13	4:F8:58:MET:HG2	2.01	0.43
2:B9:308:ILE:O	2:B9:312:VAL:HG23	2.18	0.43
3:C9:42:THR:HG22	3:C9:44:ARG:HG3	1.99	0.43
4:DA:64:LEU:HD13	4:DA:101:ILE:HB	2.00	0.43
4:EA:75:ILE:O	4:EA:79:LEU:HG	2.18	0.43
4:EA:114:VAL:O	4:EA:117:LYS:HB2	2.18	0.43
3:CB:70:PHE:HA	3:CB:75:ARG:O	2.19	0.43
1:AC:532:MET:O	1:AC:536:ILE:HG12	2.18	0.43
2:BC:196:VAL:C	2:BC:198:THR:H	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DC:64:LEU:HD13	4:DC:101:ILE:HB	2.00	0.43
4:EC:75:ILE:HG13	4:FC:58:MET:HG2	2.00	0.43
3:CD:234:PRO:O	3:CD:236:LEU:N	2.44	0.43
4:DD:56:LEU:HD23	4:DD:56:LEU:H	1.82	0.43
4:ED:75:ILE:O	4:ED:79:LEU:HG	2.17	0.43
4:FD:104:TYR:CE2	4:FD:106:ILE:HG22	2.54	0.43
3:CE:246:TRP:HZ2	4:FF:122:ILE:HD12	1.83	0.43
2:BF:139:ARG:HD2	2:BG:202:ILE:CA	2.44	0.43
3:CG:229:GLU:HG2	3:CG:230:LEU:N	2.33	0.43
3:CG:299:VAL:HG22	4:FG:132:MET:HE2	2.01	0.43
2:BH:15:MET:HB3	2:BI:69:LEU:HD11	2.00	0.43
2:BI:46:GLN:NE2	2:BJ:66:PHE:O	2.50	0.43
2:BI:207:LYS:HG3	2:BI:209:GLN:H	1.82	0.43
3:CI:112:GLY:HA3	3:CI:223:MET:CE	2.48	0.43
3:CI:229:GLU:HG2	3:CI:230:LEU:N	2.33	0.43
3:CI:246:TRP:HZ2	4:FJ:122:ILE:HD12	1.83	0.43
2:BJ:139:ARG:HD2	2:BK:202:ILE:CG1	2.48	0.43
2:BJ:212:GLU:HA	2:BJ:215:ILE:HG12	1.99	0.43
3:CJ:112:GLY:HA3	3:CJ:223:MET:CE	2.49	0.43
3:CJ:179:TYR:OH	3:CJ:182:SER:OG	2.23	0.43
3:CJ:273:SER:OG	4:DJ:58:MET:O	2.15	0.43
4:DJ:129:SER:O	4:DJ:133:ARG:HD3	2.18	0.43
4:EJ:114:VAL:O	4:EJ:117:LYS:HB2	2.18	0.43
1:AK:532:MET:O	1:AK:536:ILE:HG12	2.18	0.43
1:AL:532:MET:O	1:AL:536:ILE:HG12	2.17	0.43
3:CL:42:THR:HG22	3:CL:44:ARG:HG3	1.99	0.43
3:CM:260:GLU:HA	4:DM:72:ARG:NH2	2.33	0.43
3:CM:273:SER:OG	4:DM:58:MET:O	2.12	0.43
4:DM:56:LEU:HD23	4:DM:56:LEU:H	1.84	0.43
4:EM:69:GLY:C	4:EM:70:ARG:HD3	2.38	0.43
2:BN:17:ILE:O	2:BN:21:ARG:HD2	2.18	0.43
2:BN:196:VAL:C	2:BN:198:THR:H	2.21	0.43
4:DP:56:LEU:HD23	4:DP:56:LEU:H	1.84	0.43
4:DP:66:VAL:HG12	4:DP:99:ILE:HG12	2.00	0.43
4:FP:134:ARG:HA	4:FP:137:ARG:NH1	2.33	0.43
3:CQ:229:GLU:HG2	3:CQ:230:LEU:N	2.33	0.43
4:DQ:129:SER:O	4:DQ:133:ARG:HD3	2.17	0.43
1:AR:547:VAL:HG13	2:BR:25:VAL:HG22	2.00	0.43
3:CR:246:TRP:HZ2	4:FS:122:ILE:HD12	1.82	0.43
3:CS:53:ALA:HB1	3:CS:172:ILE:HD13	1.99	0.43
3:CS:260:GLU:HA	4:DS:72:ARG:NH2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ES:69:GLY:C	4:ES:70:ARG:HD3	2.39	0.43
1:AT:532:MET:O	1:AT:536:ILE:HG12	2.17	0.43
3:CT:89:TYR:HD2	3:CT:195:PRO:HA	1.81	0.43
3:CT:260:GLU:HA	4:DT:72:ARG:NH2	2.32	0.43
4:FT:100:LEU:HA	4:FT:105:LEU:HA	2.00	0.43
2:BV:196:VAL:C	2:BV:198:THR:H	2.21	0.43
3:CW:246:TRP:HZ2	4:FX:122:ILE:HD12	1.82	0.43
3:CW:293:ILE:HD12	3:CW:302:LEU:O	2.17	0.43
4:DW:106:ILE:HD13	4:EW:60:ILE:HD11	2.00	0.43
4:EW:114:VAL:O	4:EW:117:LYS:HB2	2.18	0.43
2:BX:166:GLY:O	2:BY:190:ARG:NE	2.30	0.43
3:CX:89:TYR:HD2	3:CX:195:PRO:HA	1.83	0.43
2:BY:17:ILE:O	2:BY:21:ARG:HD2	2.18	0.43
2:B3:11:VAL:O	2:B3:15:MET:HG2	2.19	0.43
3:C3:258:GLU:HA	4:D3:74:THR:HA	2.01	0.43
3:C3:271:ARG:NH2	4:D3:59:ASP:HB2	2.32	0.43
4:D3:105:LEU:HB2	4:D3:131:ARG:HE	1.84	0.43
3:C4:229:GLU:HG2	3:C4:230:LEU:N	2.33	0.43
3:C4:247:ARG:CZ	4:E5:79:LEU:HB3	2.49	0.43
4:D5:64:LEU:HD13	4:D5:101:ILE:HB	2.00	0.43
1:A7:532:MET:O	1:A7:536:ILE:HG12	2.18	0.43
2:B7:212:GLU:HA	2:B7:215:ILE:HG12	2.00	0.43
3:C7:230:LEU:HD23	3:C7:230:LEU:HA	1.91	0.43
3:C7:260:GLU:HA	4:D7:72:ARG:HH22	1.83	0.43
3:C8:125:ILE:HG12	3:C8:211:LEU:HD13	1.99	0.43
3:C8:259:LEU:HD21	4:F9:60:ILE:HG21	2.00	0.43
1:A9:532:MET:CE	2:B9:56:LEU:HD22	2.45	0.43
3:C9:64:GLN:O	3:C9:67:MET:HG3	2.19	0.43
4:E9:114:VAL:O	4:E9:117:LYS:HB2	2.18	0.43
2:BA:171:ALA:HB1	3:CA:131:PHE:CE1	2.54	0.43
3:CA:296:VAL:HG23	3:CA:301:VAL:HG21	2.00	0.43
1:AB:532:MET:O	1:AB:536:ILE:HG12	2.17	0.43
3:CB:53:ALA:HB1	3:CB:172:ILE:HD13	2.00	0.43
4:FB:76:LYS:O	4:FB:79:LEU:HG	2.18	0.43
1:AC:555:MET:SD	2:BC:33:GLU:HB3	2.59	0.43
3:CC:53:ALA:HB1	3:CC:172:ILE:HD13	1.99	0.43
4:DC:56:LEU:HD23	4:DC:56:LEU:H	1.84	0.43
2:BD:139:ARG:HH12	2:BE:198:THR:HG23	1.83	0.43
2:BD:171:ALA:HB1	3:CD:131:PHE:CE1	2.53	0.43
4:ED:75:ILE:HG12	4:FD:60:ILE:O	2.18	0.43
4:EE:114:VAL:O	4:EE:117:LYS:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:112:GLY:HA3	3:CF:223:MET:CE	2.48	0.43
3:CF:253:GLN:HE22	4:FG:126:ILE:HG13	1.83	0.43
3:CF:258:GLU:HA	4:DF:74:THR:HA	2.01	0.43
4:EF:93:ALA:HB3	4:FF:116:ASP:OD2	2.18	0.43
1:AG:532:MET:O	1:AG:536:ILE:HG12	2.17	0.43
2:BG:103:THR:HG21	2:BG:109:THR:CG2	2.49	0.43
1:AH:547:VAL:HG23	2:BH:59:PHE:CZ	2.44	0.43
2:BH:17:ILE:O	2:BH:21:ARG:HD2	2.17	0.43
2:BH:166:GLY:O	3:CH:132:GLY:HA2	2.19	0.43
3:CH:70:PHE:HA	3:CH:75:ARG:O	2.18	0.43
2:BI:41:MET:HE1	2:BJ:77:LEU:HB2	2.00	0.43
2:BJ:42:ALA:HB2	2:BK:97:ILE:HG23	1.99	0.43
3:CJ:42:THR:HG22	3:CJ:44:ARG:HG3	1.99	0.43
3:CJ:64:GLN:O	3:CJ:67:MET:HG3	2.19	0.43
4:DJ:105:LEU:HB2	4:DJ:131:ARG:HE	1.84	0.43
3:CK:229:GLU:HG2	3:CK:230:LEU:N	2.33	0.43
1:AL:540:SER:OG	2:BL:21:ARG:HD3	2.18	0.43
3:CM:64:GLN:O	3:CM:67:MET:HG3	2.19	0.43
3:CM:229:GLU:HG2	3:CM:230:LEU:N	2.33	0.43
4:EM:73:MET:CE	4:EM:78:LEU:HD23	2.48	0.43
2:BO:13:LEU:HD13	2:BO:59:PHE:CD1	2.54	0.43
3:CO:260:GLU:HA	4:DO:72:ARG:HH22	1.83	0.43
3:CP:247:ARG:CZ	4:EQ:79:LEU:HB3	2.49	0.43
4:DP:78:LEU:HA	4:DP:81:LEU:HD23	1.99	0.43
1:AQ:540:SER:OG	2:BQ:21:ARG:HD3	2.18	0.43
4:DR:106:ILE:HD13	4:ER:60:ILE:HD11	2.00	0.43
3:CT:272:LEU:HB2	4:DT:60:ILE:HB	1.99	0.43
2:BU:93:LEU:O	2:BU:97:ILE:HG12	2.18	0.43
2:BU:134:LEU:HD13	2:BU:146:LEU:HD11	2.00	0.43
2:BW:171:ALA:HB1	3:CW:131:PHE:CE1	2.53	0.43
3:CW:258:GLU:HA	4:DW:74:THR:HA	2.00	0.43
3:CX:246:TRP:HZ2	4:FY:122:ILE:HD12	1.83	0.43
4:EX:118:TYR:CG	4:FX:68:LEU:HD21	2.53	0.43
2:BY:308:ILE:O	2:BY:312:VAL:HG23	2.19	0.43
3:CY:260:GLU:HA	4:DY:72:ARG:NH2	2.33	0.43
4:EY:58:MET:SD	4:FY:75:ILE:HG13	2.59	0.43
4:E1:93:ALA:HB3	4:F1:116:ASP:OD2	2.17	0.43
1:A2:547:VAL:HG23	2:B2:59:PHE:CZ	2.46	0.43
2:B2:239:LEU:HD23	2:B2:239:LEU:HA	1.82	0.43
2:B3:96:ASP:O	2:B3:100:THR:HG23	2.18	0.43
3:C3:259:LEU:HD21	4:F4:60:ILE:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E3:130:GLU:HA	4:E3:133:ARG:HE	1.82	0.43
2:B4:146:LEU:O	2:B4:154:ARG:NE	2.49	0.43
3:C4:69:LEU:HB2	3:C4:77:PRO:HG3	2.01	0.43
3:C4:260:GLU:HA	4:D4:72:ARG:HH22	1.84	0.43
2:B5:13:LEU:HD13	2:B5:59:PHE:CD1	2.53	0.43
4:D5:102:ASN:ND2	4:E5:61:PRO:O	2.40	0.43
4:E5:118:TYR:CG	4:F5:68:LEU:HD21	2.54	0.43
3:C6:107:LEU:HD11	3:C6:219:LEU:HD22	1.99	0.43
4:E6:69:GLY:C	4:E6:70:ARG:HD3	2.39	0.43
2:B7:171:ALA:HB1	3:C7:131:PHE:CE1	2.54	0.43
3:C7:70:PHE:HA	3:C7:75:ARG:O	2.18	0.43
4:E7:128:PRO:HG3	4:E7:131:ARG:HH21	1.83	0.43
2:B8:14:LEU:O	2:B9:76:TYR:OH	2.21	0.43
3:C8:64:GLN:O	3:C8:67:MET:HG3	2.19	0.43
4:D8:130:GLU:HG3	4:D8:134:ARG:HD2	2.01	0.43
4:E8:69:GLY:C	4:E8:70:ARG:HD3	2.39	0.43
2:B9:96:ASP:O	2:B9:100:THR:HG23	2.19	0.43
3:C9:238:ASN:ND2	3:CA:112:GLY:HA2	2.33	0.43
4:D9:56:LEU:HD23	4:D9:56:LEU:H	1.84	0.43
1:AA:532:MET:O	1:AA:536:ILE:HG12	2.18	0.43
4:DB:129:SER:O	4:DB:133:ARG:HD3	2.19	0.43
2:BC:103:THR:HG21	2:BC:109:THR:CG2	2.49	0.43
4:FC:105:LEU:HD22	4:FC:126:ILE:HD13	2.00	0.43
1:AD:540:SER:OG	2:BD:21:ARG:HD3	2.18	0.43
2:BD:207:LYS:HG3	2:BD:209:GLN:H	1.82	0.43
2:BF:26:PHE:HA	2:BF:29:LEU:HD12	2.00	0.43
3:CF:246:TRP:HZ2	4:FG:122:ILE:HD12	1.83	0.43
4:DF:64:LEU:HD13	4:DF:101:ILE:HB	2.00	0.43
4:EF:114:VAL:O	4:EF:117:LYS:HB2	2.18	0.43
2:BG:166:GLY:O	3:CG:132:GLY:HA2	2.18	0.43
3:CG:271:ARG:NH2	4:DG:59:ASP:HB2	2.33	0.43
4:FG:76:LYS:O	4:FG:79:LEU:HG	2.19	0.43
2:BH:30:SER:O	2:BH:34:VAL:HG23	2.19	0.43
4:DH:106:ILE:HD13	4:EH:60:ILE:HD11	2.00	0.43
2:BJ:93:LEU:O	2:BJ:97:ILE:HG12	2.18	0.43
2:BK:174:GLU:OE2	3:CK:149:THR:HA	2.18	0.43
3:CK:64:GLN:O	3:CK:67:MET:HG3	2.19	0.43
4:EK:118:TYR:CG	4:FK:68:LEU:HD21	2.54	0.43
2:BL:93:LEU:O	2:BL:97:ILE:HG12	2.17	0.43
3:CL:69:LEU:HB2	3:CL:77:PRO:HG3	2.00	0.43
4:EL:75:ILE:HG13	4:FL:58:MET:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:4:LEU:HD23	2:BM:4:LEU:HA	1.90	0.43
4:EM:114:VAL:O	4:EM:117:LYS:HB2	2.18	0.43
3:CN:271:ARG:HH21	4:DN:59:ASP:HB2	1.81	0.43
4:FN:134:ARG:HA	4:FN:137:ARG:NH1	2.33	0.43
3:CO:271:ARG:O	3:CO:275:ILE:HG12	2.19	0.43
1:AP:546:VAL:HG22	2:BP:70:ASN:HD21	1.84	0.43
2:BP:11:VAL:O	2:BP:15:MET:HG2	2.17	0.43
2:BP:161:ILE:HG22	2:BQ:199:ALA:HB2	2.00	0.43
4:EP:75:ILE:O	4:EP:79:LEU:HG	2.18	0.43
3:CQ:112:GLY:HA3	3:CQ:223:MET:CE	2.49	0.43
4:EQ:118:TYR:CG	4:FQ:68:LEU:HD21	2.53	0.43
2:BR:4:LEU:HD23	2:BR:4:LEU:HA	1.91	0.43
3:CR:101:ASN:HB3	3:CR:118:PHE:HB2	2.00	0.43
3:CS:246:TRP:HZ2	4:FT:122:ILE:HD12	1.83	0.43
3:CS:302:LEU:HD13	3:CS:317:VAL:HG13	2.00	0.43
4:DS:56:LEU:HD23	4:DS:56:LEU:H	1.84	0.43
4:FS:76:LYS:O	4:FS:79:LEU:HG	2.17	0.43
2:BT:96:ASP:O	2:BT:100:THR:HG23	2.18	0.43
3:CU:260:GLU:HA	4:DU:72:ARG:NH2	2.33	0.43
4:EV:71:THR:O	4:FV:64:LEU:HD23	2.18	0.43
2:BW:166:GLY:O	2:BX:190:ARG:NE	2.31	0.43
3:CW:108:LYS:O	3:CW:175:LEU:HB2	2.17	0.43
4:DW:64:LEU:HD13	4:DW:101:ILE:HB	2.00	0.43
3:CX:70:PHE:HA	3:CX:75:ARG:O	2.19	0.43
4:DY:56:LEU:HD23	4:DY:56:LEU:H	1.84	0.43
3:C2:293:ILE:HD12	3:C2:302:LEU:O	2.17	0.43
4:E2:69:GLY:C	4:E2:70:ARG:HD3	2.39	0.43
1:A3:549:LEU:HD23	1:A3:552:ARG:HG3	2.00	0.43
3:C3:70:PHE:HA	3:C3:75:ARG:O	2.18	0.43
3:C4:260:GLU:HA	4:D4:72:ARG:NH2	2.33	0.43
3:C4:313:TYR:HB3	4:D4:68:LEU:HD21	2.01	0.43
4:D5:129:SER:O	4:D5:133:ARG:HD3	2.18	0.43
3:C7:64:GLN:O	3:C7:67:MET:HG3	2.19	0.43
3:C8:70:PHE:HA	3:C8:75:ARG:O	2.19	0.43
3:C8:279:LYS:HA	3:C8:279:LYS:HD3	1.85	0.43
4:D8:56:LEU:HD23	4:D8:56:LEU:H	1.84	0.43
4:E8:75:ILE:HG12	4:F8:60:ILE:O	2.19	0.43
2:B9:245:ARG:NH1	2:B9:249:ARG:HB2	2.33	0.43
3:C9:69:LEU:HB2	3:C9:77:PRO:HG3	2.01	0.43
2:BB:26:PHE:CE2	2:BC:84:ALA:HB1	2.53	0.43
4:DB:56:LEU:HD23	4:DB:56:LEU:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DB:105:LEU:HB2	4:DB:131:ARG:HE	1.83	0.43
3:CC:64:GLN:O	3:CC:67:MET:HG3	2.18	0.43
3:CC:107:LEU:HD11	3:CC:219:LEU:HD22	2.00	0.43
2:BG:43:ASN:O	2:BG:45:ARG:NH1	2.51	0.43
3:CG:260:GLU:HA	4:DG:72:ARG:HH22	1.83	0.43
3:CH:112:GLY:HA3	3:CH:223:MET:CE	2.48	0.43
3:CH:260:GLU:HA	4:DH:72:ARG:NH2	2.33	0.43
2:BJ:41:MET:HE1	2:BK:77:LEU:HD22	2.00	0.43
2:BJ:171:ALA:HB1	3:CJ:131:PHE:CE1	2.53	0.43
1:AK:552:ARG:HH11	1:AK:555:MET:HE3	1.83	0.43
2:BK:10:SER:O	2:BK:14:LEU:HD23	2.18	0.43
3:CK:42:THR:HG22	3:CK:44:ARG:HG3	1.99	0.43
4:EK:69:GLY:C	4:EK:70:ARG:HD3	2.39	0.43
4:FK:134:ARG:HA	4:FK:137:ARG:NH1	2.33	0.43
2:BL:273:LYS:HA	2:BL:276:ARG:NH1	2.34	0.43
3:CL:107:LEU:HD11	3:CL:219:LEU:HD22	2.00	0.43
3:CL:273:SER:OG	4:DL:58:MET:O	2.12	0.43
4:FL:134:ARG:HA	4:FL:137:ARG:NH1	2.33	0.43
1:AM:549:LEU:O	1:AM:552:ARG:HB3	2.19	0.43
2:BM:245:ARG:NH1	2:BM:249:ARG:HB2	2.32	0.43
3:CM:234:PRO:O	3:CM:236:LEU:N	2.46	0.43
2:BN:9:LYS:HA	2:BN:12:ILE:HD12	2.00	0.43
3:CN:64:GLN:O	3:CN:67:MET:HG3	2.19	0.43
4:DN:130:GLU:HG3	4:DN:134:ARG:HD2	1.99	0.43
4:FN:76:LYS:O	4:FN:79:LEU:HG	2.19	0.43
4:FN:134:ARG:HG3	4:FN:137:ARG:HH22	1.84	0.43
2:BO:171:ALA:HB1	3:CO:131:PHE:CE1	2.53	0.43
2:BP:17:ILE:O	2:BP:21:ARG:HD2	2.19	0.43
4:EQ:75:ILE:HB	4:EQ:76:LYS:NZ	2.34	0.43
3:CR:125:ILE:HG12	3:CR:211:LEU:HD13	1.99	0.43
3:CR:293:ILE:HD12	3:CR:302:LEU:O	2.19	0.43
4:ER:71:THR:HB	4:FR:64:LEU:HD21	1.99	0.43
4:ER:118:TYR:CG	4:FR:68:LEU:HD21	2.53	0.43
4:FR:71:THR:HG1	4:FR:89:LEU:HA	1.84	0.43
3:CS:159:LYS:O	3:CS:162:LEU:HG	2.19	0.43
3:CS:229:GLU:HG2	3:CS:230:LEU:N	2.33	0.43
2:BT:196:VAL:C	2:BT:198:THR:H	2.22	0.43
3:CT:229:GLU:HG2	3:CT:230:LEU:N	2.33	0.43
4:DT:64:LEU:HD13	4:DT:101:ILE:HB	1.99	0.43
2:BU:98:LEU:HA	2:BU:101:ARG:NH2	2.34	0.43
3:CU:230:LEU:HD23	3:CU:230:LEU:HA	1.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CU:260:GLU:HA	4:DU:72:ARG:HH22	1.84	0.43
3:CU:313:TYR:HB3	4:DU:68:LEU:HD21	2.01	0.43
4:EU:58:MET:SD	4:FU:75:ILE:HG13	2.58	0.43
4:EV:118:TYR:CG	4:FV:68:LEU:HD21	2.54	0.43
1:AW:547:VAL:HG13	2:BW:25:VAL:HG22	2.01	0.43
4:DW:104:TYR:HB3	4:DW:131:ARG:NH2	2.34	0.43
2:BX:171:ALA:HB1	3:CX:131:PHE:CE1	2.54	0.43
3:CX:293:ILE:HD12	3:CX:302:LEU:O	2.18	0.43
3:CX:302:LEU:HD13	3:CX:317:VAL:HG13	2.01	0.43
4:EX:114:VAL:O	4:EX:117:LYS:HB2	2.18	0.43
4:DY:66:VAL:HG12	4:DY:99:ILE:HG12	1.99	0.43
2:B1:81:LEU:HD12	2:B1:94:LEU:HG	1.99	0.43
3:C1:53:ALA:HB1	3:C1:172:ILE:HD13	2.01	0.43
3:C1:260:GLU:HA	4:D1:72:ARG:NH2	2.33	0.43
3:C2:112:GLY:HA3	3:C2:223:MET:CE	2.49	0.43
3:C2:260:GLU:HA	4:D2:72:ARG:NH2	2.34	0.43
3:C3:271:ARG:O	3:C3:275:ILE:HG12	2.19	0.43
4:F3:76:LYS:O	4:F3:79:LEU:HG	2.18	0.43
2:B4:166:GLY:O	3:C4:132:GLY:HA2	2.19	0.43
4:E5:69:GLY:C	4:E5:70:ARG:HD3	2.39	0.43
2:B6:135:VAL:HG11	2:B7:194:GLY:HA3	2.01	0.43
4:D6:78:LEU:HA	4:D6:81:LEU:HD23	2.01	0.43
4:E6:118:TYR:CG	4:F6:68:LEU:HD21	2.53	0.43
3:C8:302:LEU:HD13	3:C8:317:VAL:HG13	2.01	0.43
4:D8:64:LEU:HD13	4:D8:101:ILE:HB	2.01	0.43
4:F8:122:ILE:O	4:F8:122:ILE:HG13	2.19	0.43
3:C9:89:TYR:HD2	3:C9:195:PRO:HA	1.83	0.43
4:F9:76:LYS:O	4:F9:79:LEU:HG	2.18	0.43
3:CA:64:GLN:O	3:CA:67:MET:HG3	2.19	0.43
4:EA:58:MET:SD	4:FA:75:ILE:HG13	2.59	0.43
3:CB:159:LYS:O	3:CB:162:LEU:HG	2.19	0.43
3:CB:294:ALA:O	3:CB:301:VAL:N	2.33	0.43
2:BC:85:LEU:HB3	2:BC:89:ARG:HB2	2.01	0.43
3:CC:70:PHE:HA	3:CC:75:ARG:O	2.19	0.43
3:CD:42:THR:HG22	3:CD:44:ARG:HG3	1.99	0.43
4:ED:71:THR:O	4:FD:64:LEU:HD23	2.19	0.43
3:CE:42:THR:HG22	3:CE:44:ARG:HG3	1.99	0.43
3:CF:247:ARG:CZ	4:EG:79:LEU:HB3	2.48	0.43
2:BG:171:ALA:HB1	3:CG:131:PHE:CE1	2.53	0.43
2:BH:171:ALA:HB1	3:CH:131:PHE:CE1	2.53	0.43
3:CI:260:GLU:HA	4:DI:72:ARG:HH22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:38:TYR:H	4:EJ:112:VAL:HA	1.83	0.43
3:CJ:152:ARG:HA	3:CJ:152:ARG:HD2	1.84	0.43
2:BK:212:GLU:HA	2:BK:215:ILE:HG12	1.99	0.43
3:CK:247:ARG:CZ	4:EL:79:LEU:HB3	2.49	0.43
4:FK:100:LEU:HA	4:FK:105:LEU:HA	2.00	0.43
2:BL:98:LEU:HA	2:BL:101:ARG:NH2	2.33	0.43
2:BL:245:ARG:HH12	2:BL:249:ARG:HB2	1.83	0.43
3:CM:69:LEU:HB2	3:CM:77:PRO:HG3	2.01	0.43
3:CM:271:ARG:HH21	4:DM:59:ASP:HB2	1.82	0.43
2:BN:247:ILE:HD11	2:BN:273:LYS:HG3	2.00	0.43
3:CN:53:ALA:HB1	3:CN:172:ILE:HD13	2.00	0.43
4:EP:131:ARG:HA	4:EP:134:ARG:NH1	2.34	0.43
1:AR:532:MET:O	1:AR:536:ILE:HG12	2.18	0.43
3:CS:112:GLY:HA3	3:CS:223:MET:CE	2.48	0.43
3:CS:247:ARG:CZ	4:ET:79:LEU:HB3	2.49	0.43
4:ES:118:TYR:CE2	4:FS:93:ALA:HA	2.54	0.43
4:FT:76:LYS:O	4:FT:79:LEU:HG	2.19	0.43
2:BV:96:ASP:O	2:BV:100:THR:HG23	2.18	0.43
4:FV:110:GLU:HG3	4:FV:123:THR:OG1	2.18	0.43
2:BW:96:ASP:O	2:BW:100:THR:HG23	2.19	0.43
2:BW:158:MET:SD	2:BW:159:LEU:N	2.92	0.43
3:CW:112:GLY:HA3	3:CW:223:MET:CE	2.49	0.43
4:FW:100:LEU:HA	4:FW:105:LEU:HA	2.00	0.43
2:BX:11:VAL:HG13	2:BX:41:MET:HB3	2.01	0.43
2:BX:12:ILE:HD11	2:BX:47:ILE:HG12	2.00	0.43
2:BX:81:LEU:HD13	2:BX:93:LEU:HB2	2.01	0.43
3:CX:313:TYR:HB3	4:DX:68:LEU:HD21	2.01	0.43
4:DX:98:ASP:OD1	4:DX:99:ILE:N	2.52	0.43
3:C1:313:TYR:HB3	4:D1:68:LEU:HD21	2.01	0.43
2:B2:113:MET:HE1	2:B2:117:SER:HB2	2.00	0.43
2:B2:196:VAL:C	2:B2:198:THR:H	2.22	0.43
3:C2:271:ARG:NH2	4:D2:59:ASP:HB2	2.33	0.43
3:C2:279:LYS:HA	3:C2:279:LYS:HD3	1.83	0.43
3:C2:313:TYR:HB3	4:D2:68:LEU:HD21	2.01	0.43
3:C3:247:ARG:CZ	4:E4:79:LEU:HB3	2.49	0.43
3:C4:234:PRO:O	3:C4:236:LEU:N	2.46	0.43
3:C4:246:TRP:HZ2	4:F5:122:ILE:HD12	1.84	0.43
4:E4:114:VAL:O	4:E4:117:LYS:HB2	2.18	0.43
2:B5:166:GLY:O	3:C5:132:GLY:HA2	2.19	0.43
3:C7:260:GLU:HA	4:D7:72:ARG:NH2	2.33	0.43
3:C7:313:TYR:HB3	4:D7:68:LEU:HD21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E7:75:ILE:O	4:E7:79:LEU:HG	2.17	0.43
2:BA:78:ARG:HA	2:BA:94:LEU:HD11	2.00	0.43
4:EA:69:GLY:C	4:EA:70:ARG:HD3	2.39	0.43
3:CB:64:GLN:O	3:CB:67:MET:HG3	2.19	0.43
4:DB:64:LEU:HD13	4:DB:101:ILE:HB	2.01	0.43
4:DC:96:PRO:HB2	4:DC:108:GLN:HG3	2.01	0.43
2:BD:166:GLY:O	3:CD:132:GLY:HA2	2.19	0.43
4:ED:126:ILE:O	4:ED:128:PRO:HD3	2.19	0.43
3:CE:64:GLN:O	3:CE:67:MET:HG3	2.19	0.43
2:BF:171:ALA:HB1	3:CF:131:PHE:CE1	2.53	0.43
2:BH:21:ARG:O	2:BH:25:VAL:HG23	2.19	0.43
2:BH:85:LEU:HD23	2:BH:89:ARG:HE	1.83	0.43
3:CH:64:GLN:O	3:CH:67:MET:HG3	2.19	0.43
3:CH:146:PHE:H	3:CH:184:MET:HE1	1.84	0.43
1:AI:555:MET:SD	2:BI:33:GLU:HB3	2.59	0.43
2:BJ:166:GLY:O	3:CJ:132:GLY:HA2	2.19	0.43
3:CK:69:LEU:HB2	3:CK:77:PRO:HG3	2.01	0.43
2:BL:13:LEU:HD13	2:BL:59:PHE:CD1	2.54	0.43
3:CL:108:LYS:O	3:CL:175:LEU:HB2	2.19	0.43
4:EL:118:TYR:CG	4:FL:68:LEU:HD21	2.54	0.43
4:EL:131:ARG:HG3	4:EL:134:ARG:HH11	1.83	0.43
4:EM:131:ARG:HA	4:EM:134:ARG:NH1	2.33	0.43
4:FM:134:ARG:HA	4:FM:137:ARG:NH1	2.33	0.43
2:BN:46:GLN:HB2	1:AO:549:LEU:HD22	2.01	0.43
2:BO:11:VAL:O	2:BO:15:MET:HG2	2.18	0.43
3:CO:260:GLU:HA	4:DO:72:ARG:NH2	2.33	0.43
3:CP:272:LEU:HB2	4:DP:60:ILE:HB	2.01	0.43
3:CP:302:LEU:HD13	3:CP:317:VAL:HG13	2.00	0.43
4:DP:74:THR:O	4:DP:78:LEU:HB2	2.17	0.43
1:AQ:517:GLN:O	1:AQ:520:GLN:HG3	2.19	0.43
4:EQ:114:VAL:O	4:EQ:117:LYS:HB2	2.18	0.43
3:CR:69:LEU:HB2	3:CR:77:PRO:HG3	2.01	0.43
2:BS:21:ARG:O	2:BS:25:VAL:HG23	2.19	0.43
2:BS:245:ARG:NH2	2:BS:321:MET:HB3	2.33	0.43
2:BT:13:LEU:HD13	2:BT:59:PHE:CD1	2.53	0.43
3:CT:112:GLY:HA3	3:CT:223:MET:CE	2.49	0.43
4:DT:96:PRO:HB2	4:DT:108:GLN:HG3	2.01	0.43
4:ET:118:TYR:CG	4:FT:68:LEU:HD21	2.54	0.43
1:AV:517:GLN:O	1:AV:520:GLN:HG3	2.19	0.43
3:CV:234:PRO:O	3:CV:236:LEU:N	2.46	0.43
3:CV:247:ARG:CZ	4:EW:79:LEU:HB3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DV:129:SER:O	4:DV:133:ARG:HD3	2.19	0.43
3:CW:313:TYR:HB3	4:DW:68:LEU:HD21	2.01	0.43
2:BX:13:LEU:HD13	2:BX:59:PHE:CD1	2.53	0.43
4:DX:64:LEU:HD13	4:DX:101:ILE:HB	2.01	0.43
3:CY:64:GLN:O	3:CY:67:MET:HG3	2.19	0.43
3:CY:112:GLY:HA3	3:CY:223:MET:CE	2.49	0.43
3:CY:313:TYR:HB3	4:DY:68:LEU:HD21	1.99	0.43
2:B1:166:GLY:O	3:C1:132:GLY:HA2	2.18	0.43
3:C1:70:PHE:HA	3:C1:75:ARG:O	2.19	0.43
3:C1:247:ARG:CZ	4:E2:79:LEU:HB3	2.49	0.43
4:E1:69:GLY:C	4:E1:70:ARG:HD3	2.39	0.43
2:B2:9:LYS:HA	2:B2:12:ILE:HD12	2.01	0.43
2:B2:166:GLY:O	3:C2:132:GLY:HA2	2.18	0.43
3:C2:272:LEU:HB2	4:D2:60:ILE:HB	2.01	0.43
4:E2:118:TYR:CG	4:F2:68:LEU:HD21	2.54	0.43
4:E2:127:THR:HG23	4:E2:130:GLU:OE2	2.19	0.43
3:C3:246:TRP:HZ2	4:F4:122:ILE:HD12	1.83	0.43
4:D5:56:LEU:HD23	4:D5:56:LEU:H	1.84	0.43
1:A6:558:ASP:OD1	2:B6:6:GLY:HA3	2.19	0.43
3:C6:260:GLU:HA	4:D6:72:ARG:NH2	2.34	0.43
4:F6:104:TYR:CE2	4:F6:106:ILE:HG22	2.53	0.43
3:C7:272:LEU:HB2	4:D7:60:ILE:HB	2.01	0.43
2:B8:251:LEU:HB2	2:B8:278:MET:HE2	1.99	0.43
4:D8:129:SER:O	4:D8:133:ARG:HD3	2.18	0.43
2:BA:62:GLU:O	2:BA:65:GLN:HG3	2.18	0.43
2:BB:78:ARG:HA	2:BB:94:LEU:HD11	2.01	0.43
3:CB:89:TYR:HD2	3:CB:195:PRO:HA	1.83	0.43
3:CB:272:LEU:HB2	4:DB:60:ILE:HB	2.01	0.43
2:BC:146:LEU:O	2:BC:154:ARG:NE	2.51	0.43
3:CC:112:GLY:HA3	3:CC:223:MET:CE	2.49	0.43
4:DC:129:SER:O	4:DC:133:ARG:HD3	2.19	0.43
2:BD:17:ILE:O	2:BD:21:ARG:HD2	2.18	0.43
3:CD:302:LEU:HD13	3:CD:317:VAL:HG13	2.01	0.43
2:BE:46:GLN:HE22	2:BF:68:ALA:C	2.22	0.43
2:BE:62:GLU:O	2:BE:65:GLN:HG3	2.18	0.43
4:DE:66:VAL:HG12	4:DE:99:ILE:HG12	2.01	0.43
3:CF:38:TYR:HB2	4:EF:113:VAL:HB	2.01	0.43
3:CF:127:VAL:HG22	3:CF:153:VAL:HG21	2.00	0.43
3:CF:229:GLU:HG2	3:CF:230:LEU:N	2.33	0.43
2:BG:300:GLN:O	2:BG:304:GLU:HG2	2.19	0.43
4:EG:118:TYR:CE2	4:FG:93:ALA:HA	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:118:TYR:CG	4:FG:68:LEU:HD21	2.53	0.43
4:DH:56:LEU:HD23	4:DH:56:LEU:H	1.84	0.43
2:BI:146:LEU:O	2:BI:154:ARG:NE	2.46	0.43
4:DI:96:PRO:HB2	4:DI:108:GLN:HG3	2.01	0.43
1:AJ:547:VAL:HG23	2:BJ:59:PHE:CZ	2.43	0.43
2:BK:17:ILE:O	2:BK:21:ARG:HD2	2.19	0.43
4:EK:117:LYS:HD2	4:EK:117:LYS:HA	1.71	0.43
4:DL:96:PRO:HB2	4:DL:108:GLN:HG3	2.01	0.43
2:BM:113:MET:SD	2:BM:118:ALA:HB2	2.58	0.43
2:BM:196:VAL:C	2:BM:198:THR:H	2.22	0.43
1:AN:547:VAL:HG23	2:BN:59:PHE:CZ	2.45	0.43
3:CN:54:LEU:HB2	3:CN:231:LEU:HD23	2.01	0.43
4:EN:114:VAL:O	4:EN:117:LYS:HB2	2.18	0.43
2:BO:4:LEU:HD23	2:BO:4:LEU:HA	1.90	0.43
3:CO:64:GLN:O	3:CO:67:MET:HG3	2.19	0.43
3:CO:108:LYS:O	3:CO:175:LEU:HB2	2.19	0.43
4:EO:114:VAL:O	4:EO:117:LYS:HB2	2.18	0.43
2:BQ:13:LEU:HD13	2:BQ:59:PHE:CD1	2.54	0.43
3:CQ:258:GLU:OE1	4:DQ:72:ARG:HA	2.19	0.43
1:AR:549:LEU:HA	1:AR:552:ARG:HB2	2.01	0.43
2:BR:196:VAL:C	2:BR:198:THR:H	2.22	0.43
2:BS:151:GLU:HG2	2:BS:155:HIS:CE1	2.54	0.43
3:CT:54:LEU:HB2	3:CT:231:LEU:HD23	2.00	0.43
3:CT:267:ASP:OD1	4:DT:63:LYS:HD2	2.19	0.43
4:ET:69:GLY:C	4:ET:70:ARG:HD3	2.39	0.43
2:BU:111:ASN:CG	2:BU:138:LYS:H	2.22	0.43
2:BU:207:LYS:HG3	2:BU:209:GLN:H	1.83	0.43
4:DU:56:LEU:HD23	4:DU:56:LEU:H	1.84	0.43
4:DV:105:LEU:HB2	4:DV:131:ARG:HE	1.84	0.43
4:DV:132:MET:HE1	4:DV:135:LEU:HD23	2.00	0.43
4:EV:118:TYR:CE2	4:FV:93:ALA:HA	2.54	0.43
4:FV:133:ARG:HH12	4:FV:137:ARG:NH1	2.15	0.43
3:CW:69:LEU:HB2	3:CW:77:PRO:HG3	2.01	0.43
4:EW:118:TYR:CG	4:FW:68:LEU:HD21	2.54	0.43
4:EX:117:LYS:HD2	4:EX:117:LYS:HA	1.71	0.43
4:EX:118:TYR:CE2	4:FX:93:ALA:HA	2.54	0.43
4:FX:116:ASP:OD1	4:FX:116:ASP:O	2.37	0.43
4:FY:95:GLU:OE1	4:FY:95:GLU:N	2.51	0.43
1:A1:517:GLN:O	1:A1:520:GLN:HG3	2.19	0.43
1:A1:532:MET:O	1:A1:536:ILE:HG12	2.19	0.43
4:D1:64:LEU:HD13	4:D1:101:ILE:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F1:95:GLU:OE1	4:F1:95:GLU:N	2.51	0.43
2:B2:166:GLY:O	2:B3:190:ARG:NE	2.30	0.43
4:D2:106:ILE:HD13	4:E2:60:ILE:HD11	2.00	0.43
2:B3:43:ASN:HB3	2:B4:101:ARG:NH2	2.33	0.43
3:C3:260:GLU:HA	4:D3:72:ARG:HH22	1.83	0.43
4:E3:118:TYR:CG	4:F3:68:LEU:HD21	2.54	0.43
2:B4:159:LEU:HB3	3:C4:137:PHE:CE2	2.53	0.43
2:B5:103:THR:HG21	2:B5:109:THR:CG2	2.49	0.43
3:C5:313:TYR:HB3	4:D5:68:LEU:HD21	2.01	0.43
1:A6:551:ILE:HD13	2:B6:14:LEU:HD21	2.00	0.43
2:B6:308:ILE:O	2:B6:312:VAL:HG23	2.19	0.43
3:C6:64:GLN:O	3:C6:67:MET:HG3	2.19	0.43
2:B7:103:THR:HG21	2:B7:109:THR:CG2	2.49	0.43
2:B7:139:ARG:NH2	2:B8:198:THR:HG23	2.34	0.43
3:C7:108:LYS:O	3:C7:175:LEU:HB2	2.19	0.43
2:B8:166:GLY:O	2:B9:190:ARG:NE	2.31	0.43
4:D8:102:ASN:ND2	4:E8:61:PRO:O	2.41	0.43
4:D9:105:LEU:HB2	4:D9:131:ARG:HE	1.83	0.43
4:D9:129:SER:O	4:D9:133:ARG:HD3	2.19	0.43
4:E9:75:ILE:HB	4:E9:76:LYS:NZ	2.34	0.43
4:E9:117:LYS:HD2	4:E9:117:LYS:HA	1.71	0.43
3:CB:108:LYS:O	3:CB:175:LEU:HB2	2.19	0.43
1:AC:540:SER:OG	2:BC:21:ARG:HD3	2.18	0.43
3:CD:246:TRP:HZ2	4:FE:122:ILE:HD12	1.84	0.43
4:DD:129:SER:O	4:DD:133:ARG:HD3	2.19	0.43
3:CF:159:LYS:O	3:CF:162:LEU:HG	2.18	0.43
3:CG:259:LEU:HD21	4:FH:60:ILE:HG21	2.01	0.43
3:CG:260:GLU:HA	4:DG:72:ARG:NH2	2.33	0.43
4:FG:71:THR:HG1	4:FG:89:LEU:HA	1.84	0.43
2:BH:196:VAL:C	2:BH:198:THR:H	2.21	0.43
1:AI:547:VAL:HG23	2:BI:59:PHE:CZ	2.44	0.43
3:CI:64:GLN:O	3:CI:67:MET:HG3	2.19	0.43
3:CJ:229:GLU:HG2	3:CJ:230:LEU:N	2.33	0.43
3:CJ:302:LEU:HD13	3:CJ:317:VAL:HG13	2.00	0.43
4:DJ:64:LEU:HD13	4:DJ:101:ILE:HB	2.00	0.43
4:DJ:106:ILE:HD13	4:EJ:60:ILE:HD11	1.99	0.43
1:AL:549:LEU:O	1:AL:552:ARG:HB2	2.19	0.43
4:DL:66:VAL:HG12	4:DL:99:ILE:HG12	2.01	0.43
4:DM:101:ILE:HD13	4:EM:60:ILE:HD13	2.01	0.43
2:BN:78:ARG:HA	2:BN:94:LEU:HD11	2.01	0.43
3:CN:152:ARG:HA	3:CN:152:ARG:HD2	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CO:302:LEU:HD13	3:CO:317:VAL:HG13	2.00	0.43
2:BP:273:LYS:HA	2:BP:276:ARG:NH1	2.34	0.43
3:CP:267:ASP:OD1	4:DP:63:LYS:HD2	2.19	0.43
4:DP:105:LEU:HB2	4:DP:131:ARG:HE	1.84	0.43
2:BQ:5:SER:O	2:BQ:9:LYS:HG3	2.19	0.43
2:BQ:261:ILE:HG22	2:BQ:301:VAL:HA	2.01	0.43
3:CQ:57:ILE:HG21	3:CQ:169:TRP:CD1	2.54	0.43
2:BR:2:SER:H	2:BR:51:GLN:NE2	2.17	0.43
4:DR:56:LEU:HD23	4:DR:56:LEU:H	1.84	0.43
2:BS:12:ILE:HD11	2:BS:47:ILE:HG12	2.00	0.43
1:AU:517:GLN:O	1:AU:520:GLN:HG3	2.19	0.43
3:CU:112:GLY:HA3	3:CU:223:MET:CE	2.49	0.43
1:AV:558:ASP:OD1	2:BV:6:GLY:HA3	2.19	0.43
2:BW:13:LEU:HD13	2:BW:59:PHE:CD1	2.54	0.43
3:CW:274:GLN:O	3:CW:278:LEU:HB2	2.19	0.43
4:FW:95:GLU:OE1	4:FW:95:GLU:N	2.51	0.43
3:CX:169:TRP:HH2	3:CX:231:LEU:HD11	1.83	0.43
4:EX:106:ILE:HD12	4:EX:125:ILE:HD11	2.01	0.43
2:BY:53:THR:HA	2:BY:56:LEU:HD21	2.00	0.43
1:A1:549:LEU:O	1:A1:552:ARG:HB3	2.18	0.42
2:B1:26:PHE:HD2	2:B1:34:VAL:HG22	1.84	0.42
2:B1:41:MET:CE	2:B2:77:LEU:HB2	2.48	0.42
2:B1:93:LEU:O	2:B1:97:ILE:HG12	2.18	0.42
3:C1:246:TRP:HZ2	4:F2:122:ILE:HD12	1.84	0.42
2:B2:207:LYS:HG3	2:B2:209:GLN:H	1.83	0.42
3:C2:229:GLU:HG2	3:C2:230:LEU:N	2.33	0.42
3:C3:159:LYS:O	3:C3:162:LEU:HG	2.19	0.42
3:C4:64:GLN:O	3:C4:67:MET:HG3	2.18	0.42
3:C4:107:LEU:HD11	3:C4:219:LEU:HD22	2.00	0.42
4:E4:58:MET:SD	4:F4:75:ILE:HG13	2.59	0.42
3:C5:69:LEU:HB2	3:C5:77:PRO:HG3	2.01	0.42
3:C5:220:PRO:HD2	3:C5:223:MET:HG3	2.01	0.42
3:C5:299:VAL:HA	4:F5:132:MET:CE	2.49	0.42
4:E6:74:THR:HA	4:F6:61:PRO:HA	1.99	0.42
1:A7:555:MET:SD	2:B7:33:GLU:HB3	2.59	0.42
2:B7:96:ASP:O	2:B7:100:THR:HG23	2.19	0.42
2:B7:239:LEU:HD23	2:B7:239:LEU:HA	1.87	0.42
4:E7:69:GLY:C	4:E7:70:ARG:HD3	2.39	0.42
3:C9:56:ILE:HD11	3:CA:188:PHE:CD1	2.53	0.42
2:BA:26:PHE:HA	2:BA:29:LEU:HD12	2.01	0.42
3:CA:229:GLU:HG2	3:CA:230:LEU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FA:134:ARG:HA	4:FA:137:ARG:NH1	2.34	0.42
2:BB:75:GLU:O	2:BB:78:ARG:HG3	2.19	0.42
2:BB:171:ALA:HB1	3:CB:131:PHE:CE1	2.53	0.42
2:BD:12:ILE:HD11	2:BD:47:ILE:HG12	2.01	0.42
2:BD:43:ASN:HB3	2:BE:101:ARG:NH2	2.34	0.42
2:BD:166:GLY:O	2:BE:190:ARG:NE	2.30	0.42
3:CD:64:GLN:O	3:CD:67:MET:HG3	2.19	0.42
4:DD:64:LEU:HD13	4:DD:101:ILE:HB	2.01	0.42
3:CE:272:LEU:HB2	4:DE:60:ILE:HB	2.01	0.42
4:FE:67:GLU:HG2	4:FE:100:LEU:HD13	2.01	0.42
2:BF:62:GLU:O	2:BF:65:GLN:HG3	2.18	0.42
2:BF:166:GLY:O	3:CF:132:GLY:HA2	2.19	0.42
3:CF:296:VAL:HG23	3:CF:301:VAL:HG21	2.00	0.42
2:BG:4:LEU:HD23	2:BG:4:LEU:HA	1.90	0.42
3:CG:302:LEU:HD13	3:CG:317:VAL:HG13	2.01	0.42
4:DH:64:LEU:HD13	4:DH:101:ILE:HB	2.00	0.42
2:BI:273:LYS:HA	2:BI:276:ARG:NH1	2.34	0.42
4:DI:98:ASP:OD1	4:DI:99:ILE:N	2.51	0.42
2:BJ:17:ILE:O	2:BJ:21:ARG:HD2	2.18	0.42
4:DK:56:LEU:HD23	4:DK:56:LEU:H	1.84	0.42
3:CL:302:LEU:HD13	3:CL:317:VAL:HG13	2.00	0.42
1:AM:552:ARG:HA	1:AM:555:MET:HE3	2.01	0.42
3:CN:70:PHE:HA	3:CN:75:ARG:O	2.19	0.42
3:CO:313:TYR:HB3	4:DO:68:LEU:HD21	2.01	0.42
2:BP:207:LYS:HG3	2:BP:209:GLN:H	1.84	0.42
2:BP:262:ALA:HA	2:BP:301:VAL:HG13	2.01	0.42
2:BP:297:ARG:CZ	2:BP:297:ARG:HA	2.48	0.42
2:BP:308:ILE:O	2:BP:312:VAL:HG23	2.17	0.42
3:CP:101:ASN:HB3	3:CP:118:PHE:HB2	2.01	0.42
4:DP:104:TYR:HD2	4:EP:61:PRO:HG3	1.82	0.42
2:BQ:242:VAL:O	2:BQ:246:SER:OG	2.30	0.42
3:CQ:258:GLU:HA	4:DQ:74:THR:HG22	2.01	0.42
2:BR:11:VAL:O	2:BR:15:MET:HG2	2.19	0.42
2:BR:166:GLY:O	2:BS:190:ARG:NE	2.32	0.42
3:CR:299:VAL:HA	4:FR:132:MET:CE	2.43	0.42
4:DR:68:LEU:HA	4:DR:97:LEU:HD23	2.01	0.42
1:AS:552:ARG:HH11	1:AS:555:MET:HE3	1.83	0.42
2:BS:139:ARG:HG3	2:BT:201:GLU:CD	2.39	0.42
3:CS:64:GLN:O	3:CS:67:MET:HG3	2.19	0.42
3:CS:293:ILE:HD12	3:CS:302:LEU:O	2.18	0.42
4:DS:101:ILE:HD13	4:ES:60:ILE:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BU:161:ILE:HG21	2:BV:202:ILE:HD12	2.00	0.42
4:EU:69:GLY:C	4:EU:70:ARG:HD3	2.39	0.42
3:CV:229:GLU:HG2	3:CV:230:LEU:N	2.33	0.42
4:DV:96:PRO:HB2	4:DV:108:GLN:HG3	2.01	0.42
2:BX:41:MET:CE	2:BY:77:LEU:HB2	2.49	0.42
4:DX:56:LEU:HD23	4:DX:56:LEU:H	1.84	0.42
4:EX:74:THR:HG22	4:EX:75:ILE:N	2.34	0.42
4:FX:95:GLU:OE1	4:FX:95:GLU:N	2.51	0.42
2:B1:190:ARG:NE	2:BY:166:GLY:O	2.32	0.42
4:D1:129:SER:O	4:D1:133:ARG:HD3	2.18	0.42
2:B2:62:GLU:O	2:B2:65:GLN:HG3	2.18	0.42
4:F2:95:GLU:OE1	4:F2:95:GLU:N	2.51	0.42
2:B3:239:LEU:HD23	2:B3:239:LEU:HA	1.88	0.42
3:C3:69:LEU:HB2	3:C3:77:PRO:HG3	2.01	0.42
2:B4:212:GLU:HA	2:B4:215:ILE:HG12	2.00	0.42
2:B4:308:ILE:O	2:B4:312:VAL:HG23	2.19	0.42
3:C4:299:VAL:HA	4:F4:132:MET:CE	2.49	0.42
4:E4:75:ILE:HB	4:E4:76:LYS:NZ	2.34	0.42
1:A6:549:LEU:O	1:A6:552:ARG:HB3	2.19	0.42
3:C8:247:ARG:CZ	4:E9:79:LEU:HB3	2.49	0.42
3:C8:260:GLU:HA	4:D8:72:ARG:NH2	2.33	0.42
3:C8:272:LEU:HB2	4:D8:60:ILE:HB	2.01	0.42
3:C9:53:ALA:HB1	3:C9:172:ILE:HD13	2.01	0.42
2:BA:212:GLU:HA	2:BA:215:ILE:HG12	2.00	0.42
3:CA:234:PRO:O	3:CA:236:LEU:N	2.48	0.42
2:BB:72:ASN:O	2:BB:76:TYR:HB2	2.18	0.42
4:EC:119:GLY:HA2	4:FC:89:LEU:HD13	2.01	0.42
3:CD:53:ALA:HB1	3:CD:172:ILE:HD13	2.01	0.42
3:CD:70:PHE:HA	3:CD:75:ARG:O	2.19	0.42
3:CD:112:GLY:HA3	3:CD:223:MET:CE	2.49	0.42
4:ED:127:THR:HG23	4:ED:130:GLU:OE2	2.18	0.42
3:CE:313:TYR:HB3	4:DE:68:LEU:HD21	2.00	0.42
3:CF:69:LEU:HB2	3:CF:77:PRO:HG3	2.02	0.42
2:BG:261:ILE:HG22	2:BG:301:VAL:HA	2.01	0.42
3:CG:64:GLN:O	3:CG:67:MET:HG3	2.19	0.42
4:DG:56:LEU:HD23	4:DG:56:LEU:H	1.84	0.42
4:FG:126:ILE:HD11	4:FG:131:ARG:HH21	1.85	0.42
3:CH:54:LEU:HB2	3:CH:231:LEU:HD23	2.01	0.42
2:BI:161:ILE:HG22	2:BJ:199:ALA:HB2	2.00	0.42
4:DI:106:ILE:HD13	4:EI:60:ILE:HD11	2.01	0.42
1:AJ:529:ALA:O	1:AJ:533:SER:OG	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BJ:96:ASP:O	2:BJ:100:THR:HG23	2.19	0.42
2:BL:62:GLU:O	2:BL:65:GLN:HG3	2.18	0.42
3:CL:229:GLU:HG2	3:CL:230:LEU:N	2.33	0.42
3:CL:246:TRP:HZ2	4:FM:122:ILE:HD12	1.83	0.42
3:CM:70:PHE:HA	3:CM:75:ARG:O	2.19	0.42
1:AN:549:LEU:HA	1:AN:552:ARG:HB2	2.01	0.42
4:EN:117:LYS:HA	4:EN:117:LYS:HD2	1.71	0.42
4:EN:127:THR:HG23	4:EN:130:GLU:OE2	2.19	0.42
4:FN:71:THR:HG1	4:FN:89:LEU:HA	1.84	0.42
2:BO:146:LEU:O	2:BO:154:ARG:NE	2.47	0.42
4:EO:73:MET:CE	4:EO:78:LEU:HD23	2.49	0.42
3:CP:260:GLU:HA	4:DP:72:ARG:NH2	2.34	0.42
4:EP:114:VAL:O	4:EP:117:LYS:HB2	2.18	0.42
4:EP:118:TYR:CG	4:FP:68:LEU:HD21	2.54	0.42
4:FP:100:LEU:HA	4:FP:105:LEU:HA	2.01	0.42
4:DQ:74:THR:O	4:DQ:78:LEU:HB2	2.19	0.42
1:AT:547:VAL:HG23	2:BT:59:PHE:CZ	2.45	0.42
1:AT:549:LEU:HA	1:AT:552:ARG:HB2	2.01	0.42
3:CT:246:TRP:HZ2	4:FU:122:ILE:HD12	1.83	0.42
1:AU:547:VAL:HG23	2:BU:59:PHE:CZ	2.43	0.42
4:EW:69:GLY:C	4:EW:70:ARG:HD3	2.39	0.42
3:CX:64:GLN:O	3:CX:67:MET:HG3	2.19	0.42
4:EX:69:GLY:C	4:EX:70:ARG:HD3	2.39	0.42
4:EX:99:ILE:HG12	4:EX:120:VAL:HG21	2.01	0.42
1:AY:549:LEU:O	1:AY:552:ARG:HB3	2.19	0.42
3:CY:229:GLU:HG2	3:CY:230:LEU:N	2.33	0.42
2:B1:12:ILE:HD11	2:B1:47:ILE:HG12	2.01	0.42
2:B1:81:LEU:HD13	2:B1:93:LEU:HB2	2.00	0.42
2:B1:308:ILE:O	2:B1:312:VAL:HG23	2.19	0.42
4:E1:77:GLU:HG3	4:E1:80:ARG:NH2	2.33	0.42
1:A3:549:LEU:HA	1:A3:552:ARG:HB2	2.01	0.42
2:B3:5:SER:O	2:B3:9:LYS:HG3	2.19	0.42
3:C3:293:ILE:HD12	3:C3:302:LEU:O	2.19	0.42
2:B4:17:ILE:O	2:B4:21:ARG:HD2	2.19	0.42
3:C5:260:GLU:HA	4:D5:72:ARG:NH2	2.34	0.42
4:F5:106:ILE:O	4:F5:126:ILE:HG12	2.19	0.42
1:A6:547:VAL:HG23	2:B6:59:PHE:CZ	2.43	0.42
3:C6:70:PHE:HA	3:C6:75:ARG:O	2.19	0.42
4:D7:104:TYR:HB3	4:D7:131:ARG:NH2	2.34	0.42
4:E7:118:TYR:CG	4:F7:68:LEU:HD21	2.54	0.42
2:B8:158:MET:SD	2:B8:159:LEU:N	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:166:GLY:O	3:C8:132:GLY:HA2	2.19	0.42
3:C9:112:GLY:HA3	3:C9:223:MET:CE	2.49	0.42
3:C9:247:ARG:CZ	4:EA:79:LEU:HB3	2.48	0.42
4:FA:134:ARG:HA	4:FA:137:ARG:HH12	1.83	0.42
2:BB:17:ILE:O	2:BB:21:ARG:HD2	2.18	0.42
4:DB:106:ILE:HD13	4:EB:60:ILE:HD11	2.01	0.42
4:FB:106:ILE:O	4:FB:126:ILE:HG12	2.19	0.42
4:DC:98:ASP:OD1	4:DC:99:ILE:N	2.52	0.42
2:BD:85:LEU:HD22	2:BD:89:ARG:CZ	2.49	0.42
4:ED:75:ILE:HA	4:ED:78:LEU:HD12	2.01	0.42
4:FD:133:ARG:HH12	4:FD:137:ARG:NH1	2.16	0.42
1:AE:540:SER:OG	2:BE:21:ARG:HD3	2.19	0.42
4:DE:56:LEU:HD23	4:DE:56:LEU:H	1.85	0.42
4:EF:59:ASP:HA	4:FF:76:LYS:HZ1	1.83	0.42
4:EF:127:THR:HG23	4:EF:130:GLU:OE2	2.19	0.42
2:BG:46:GLN:HB3	2:BH:66:PHE:CE2	2.54	0.42
2:BG:196:VAL:C	2:BG:198:THR:H	2.22	0.42
2:BH:46:GLN:CG	2:BI:70:ASN:HD22	2.32	0.42
4:FH:110:GLU:OE1	4:FH:121:ARG:HB3	2.19	0.42
3:CJ:70:PHE:HA	3:CJ:75:ARG:O	2.18	0.42
4:DJ:56:LEU:HD23	4:DJ:56:LEU:H	1.84	0.42
4:DJ:66:VAL:HG12	4:DJ:99:ILE:HG12	2.02	0.42
4:EJ:75:ILE:HG12	4:FJ:60:ILE:O	2.19	0.42
3:CK:159:LYS:O	3:CK:162:LEU:HG	2.19	0.42
3:CK:258:GLU:HA	4:DK:74:THR:HA	2.01	0.42
4:DK:104:TYR:HB3	4:DK:131:ARG:NH2	2.35	0.42
2:BL:251:LEU:HB2	2:BL:278:MET:HE2	2.01	0.42
3:CL:70:PHE:HA	3:CL:75:ARG:O	2.19	0.42
4:EL:69:GLY:C	4:EL:70:ARG:HD3	2.40	0.42
2:BM:212:GLU:HA	2:BM:215:ILE:HG12	1.99	0.42
4:DM:130:GLU:HG3	4:DM:134:ARG:HD2	2.01	0.42
2:BN:249:ARG:NH1	2:BN:252:GLN:HB2	2.35	0.42
2:BO:98:LEU:HA	2:BO:101:ARG:NH2	2.35	0.42
3:CO:293:ILE:HD12	3:CO:302:LEU:O	2.19	0.42
1:AP:517:GLN:O	1:AP:520:GLN:HG3	2.20	0.42
2:BP:42:ALA:HB2	2:BQ:97:ILE:HG23	2.01	0.42
2:BP:46:GLN:HE22	2:BQ:68:ALA:C	2.23	0.42
4:EP:118:TYR:CE2	4:FP:93:ALA:HA	2.55	0.42
3:CQ:101:ASN:HB3	3:CQ:118:PHE:HB2	2.01	0.42
3:CS:247:ARG:HH12	4:ET:79:LEU:HD22	1.84	0.42
2:BT:11:VAL:O	2:BT:15:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:532:MET:O	1:AU:536:ILE:HG12	2.19	0.42
2:BV:5:SER:O	2:BV:9:LYS:HG3	2.19	0.42
3:CV:64:GLN:O	3:CV:67:MET:HG3	2.19	0.42
4:FV:95:GLU:OE1	4:FV:95:GLU:N	2.51	0.42
2:BW:4:LEU:HD23	2:BW:4:LEU:HA	1.92	0.42
2:BX:196:VAL:C	2:BX:198:THR:H	2.23	0.42
4:DX:106:ILE:O	4:DX:126:ILE:HG12	2.19	0.42
1:AY:517:GLN:O	1:AY:520:GLN:HG3	2.19	0.42
2:BY:103:THR:HG21	2:BY:109:THR:CG2	2.49	0.42
3:C1:259:LEU:HD21	4:F2:60:ILE:HG21	2.01	0.42
4:E1:118:TYR:CE2	4:F1:93:ALA:HA	2.54	0.42
4:D2:56:LEU:HD23	4:D2:56:LEU:H	1.84	0.42
3:C3:230:LEU:HD23	3:C3:230:LEU:HA	1.90	0.42
4:D3:56:LEU:HD23	4:D3:56:LEU:H	1.84	0.42
4:F3:71:THR:HG1	4:F3:89:LEU:HA	1.84	0.42
2:B4:96:ASP:O	2:B4:100:THR:HG23	2.19	0.42
2:B4:166:GLY:O	2:B5:190:ARG:NE	2.30	0.42
2:B4:239:LEU:HD23	2:B4:239:LEU:HA	1.86	0.42
3:C4:108:LYS:O	3:C4:175:LEU:HB2	2.19	0.42
3:C4:118:PHE:CZ	3:C4:157:MET:HG3	2.55	0.42
2:B5:12:ILE:HD11	2:B5:47:ILE:HG12	2.01	0.42
4:E5:58:MET:SD	4:F5:75:ILE:HG13	2.59	0.42
1:A6:552:ARG:HA	1:A6:555:MET:HE3	2.00	0.42
2:B6:9:LYS:HA	2:B6:12:ILE:HD12	2.00	0.42
2:B6:166:GLY:O	3:C6:132:GLY:HA2	2.19	0.42
4:D7:96:PRO:HB2	4:D7:108:GLN:HG3	2.02	0.42
2:B8:273:LYS:HA	2:B8:276:ARG:NH1	2.34	0.42
2:B9:166:GLY:O	3:C9:132:GLY:HA2	2.20	0.42
3:C9:57:ILE:HG21	3:C9:169:TRP:CD1	2.54	0.42
4:E9:71:THR:O	4:F9:64:LEU:HD23	2.19	0.42
3:CA:69:LEU:HB2	3:CA:77:PRO:HG3	2.02	0.42
3:CA:70:PHE:HA	3:CA:75:ARG:O	2.20	0.42
4:FA:133:ARG:HH12	4:FA:137:ARG:NH1	2.16	0.42
2:BB:161:ILE:HG22	2:BC:199:ALA:HB2	2.01	0.42
3:CB:220:PRO:HD2	3:CB:223:MET:HG3	2.02	0.42
4:EB:75:ILE:O	4:EB:79:LEU:HG	2.20	0.42
2:BC:46:GLN:CG	2:BD:70:ASN:HD22	2.33	0.42
2:BC:85:LEU:HD22	2:BC:89:ARG:CZ	2.49	0.42
3:CC:272:LEU:HB2	4:DC:60:ILE:HB	2.00	0.42
4:FC:132:MET:CE	4:FC:136:SER:HB3	2.49	0.42
2:BD:21:ARG:O	2:BD:25:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ED:93:ALA:HB3	4:FD:116:ASP:OD1	2.20	0.42
2:BE:131:ALA:HB1	2:BE:161:ILE:HD13	2.01	0.42
2:BE:207:LYS:HG3	2:BE:209:GLN:H	1.84	0.42
3:CE:69:LEU:HB2	3:CE:77:PRO:HG3	2.02	0.42
4:DE:129:SER:O	4:DE:133:ARG:HD3	2.19	0.42
4:FE:71:THR:HG1	4:FE:89:LEU:HA	1.84	0.42
2:BF:312:VAL:HG13	2:BF:321:MET:SD	2.60	0.42
3:CF:64:GLN:O	3:CF:67:MET:HG3	2.19	0.42
2:BG:139:ARG:HD3	2:BG:139:ARG:HA	1.79	0.42
3:CG:70:PHE:HA	3:CG:75:ARG:O	2.20	0.42
3:CG:247:ARG:CZ	4:EH:79:LEU:HB3	2.49	0.42
4:DG:98:ASP:OD1	4:DG:99:ILE:N	2.52	0.42
2:BH:308:ILE:O	2:BH:312:VAL:HG23	2.18	0.42
4:DH:66:VAL:HG12	4:DH:99:ILE:HG12	2.02	0.42
4:EH:75:ILE:HB	4:EH:76:LYS:NZ	2.35	0.42
2:BI:166:GLY:O	3:CI:132:GLY:HA2	2.19	0.42
3:CI:53:ALA:HB1	3:CI:172:ILE:HD13	2.01	0.42
4:EI:118:TYR:CG	4:FI:68:LEU:HD21	2.54	0.42
2:BJ:21:ARG:O	2:BJ:25:VAL:HG23	2.19	0.42
2:BJ:154:ARG:HD3	2:BK:206:MET:HE1	2.01	0.42
4:EJ:69:GLY:C	4:EJ:70:ARG:HD3	2.40	0.42
1:AK:549:LEU:HA	1:AK:552:ARG:HB2	2.01	0.42
2:BK:5:SER:O	2:BK:9:LYS:HG3	2.19	0.42
3:CK:70:PHE:HA	3:CK:75:ARG:O	2.19	0.42
3:CK:260:GLU:HA	4:DK:72:ARG:HH22	1.84	0.42
3:CL:296:VAL:HG23	3:CL:301:VAL:HG21	2.01	0.42
4:EM:118:TYR:CG	4:FM:68:LEU:HD21	2.54	0.42
2:BN:146:LEU:O	2:BN:154:ARG:NE	2.47	0.42
4:DN:105:LEU:HB2	4:DN:131:ARG:HE	1.84	0.42
2:BO:161:ILE:HG22	2:BP:199:ALA:HB2	2.00	0.42
4:DO:105:LEU:HB2	4:DO:131:ARG:HE	1.84	0.42
2:BQ:166:GLY:O	2:BR:190:ARG:NE	2.31	0.42
2:BQ:273:LYS:HA	2:BQ:276:ARG:NH1	2.34	0.42
2:BQ:308:ILE:O	2:BQ:312:VAL:HG23	2.18	0.42
4:EQ:59:ASP:HA	4:FQ:76:LYS:HZ1	1.85	0.42
1:AR:522:ARG:HD3	2:BS:64:GLU:HG3	2.01	0.42
1:AR:540:SER:OG	2:BR:21:ARG:HD3	2.19	0.42
3:CR:70:PHE:HA	3:CR:75:ARG:O	2.19	0.42
3:CS:70:PHE:HA	3:CS:75:ARG:O	2.19	0.42
2:BT:46:GLN:OE1	1:AU:549:LEU:HD11	2.20	0.42
2:BT:103:THR:HG21	2:BT:109:THR:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:64:GLN:O	3:CT:67:MET:HG3	2.19	0.42
3:CT:70:PHE:HA	3:CT:75:ARG:O	2.19	0.42
3:CT:247:ARG:CZ	4:EU:79:LEU:HB3	2.49	0.42
3:CU:240:ARG:N	3:CU:242:GLU:OE1	2.43	0.42
4:EU:74:THR:HG22	4:EU:75:ILE:N	2.34	0.42
4:FU:95:GLU:OE1	4:FU:95:GLU:N	2.51	0.42
1:AV:547:VAL:HG13	2:BV:25:VAL:HG22	2.01	0.42
1:AW:540:SER:OG	2:BW:21:ARG:HD3	2.19	0.42
1:AW:549:LEU:HA	1:AW:552:ARG:HB2	2.01	0.42
2:BW:103:THR:HG21	2:BW:109:THR:CG2	2.49	0.42
3:CW:159:LYS:O	3:CW:162:LEU:HG	2.20	0.42
3:CW:229:GLU:HG2	3:CW:230:LEU:N	2.33	0.42
1:AX:549:LEU:HA	1:AX:552:ARG:HB2	2.01	0.42
1:AY:532:MET:CE	2:BY:56:LEU:HD22	2.49	0.42
1:AY:534:GLN:O	1:AY:538:GLU:HG2	2.19	0.42
2:BY:207:LYS:HG3	2:BY:209:GLN:H	1.83	0.42
4:DY:105:LEU:HB2	4:DY:131:ARG:HH21	1.84	0.42
4:EY:130:GLU:OE1	4:EY:130:GLU:N	2.51	0.42
4:E2:74:THR:HA	4:F2:61:PRO:HA	2.02	0.42
2:B3:103:THR:HG21	2:B3:109:THR:CG2	2.49	0.42
4:D3:68:LEU:HA	4:D3:97:LEU:HD23	2.02	0.42
4:E3:71:THR:O	4:F3:64:LEU:HG	2.19	0.42
4:F3:95:GLU:OE1	4:F3:95:GLU:N	2.51	0.42
2:B4:62:GLU:O	2:B4:65:GLN:HG3	2.19	0.42
3:C5:64:GLN:O	3:C5:67:MET:HG3	2.19	0.42
2:B6:250:LEU:O	2:B6:254:VAL:HG12	2.19	0.42
3:C6:69:LEU:HB2	3:C6:77:PRO:HG3	2.01	0.42
3:C7:89:TYR:HD2	3:C7:195:PRO:HA	1.84	0.42
3:C7:253:GLN:OE1	4:F8:106:ILE:HB	2.20	0.42
3:C8:101:ASN:HB3	3:C8:118:PHE:HB2	2.00	0.42
3:C8:103:ASN:OD1	3:C8:182:SER:OG	2.22	0.42
3:C8:313:TYR:HB3	4:D8:68:LEU:HD21	2.01	0.42
4:E8:118:TYR:CE2	4:F8:93:ALA:HA	2.55	0.42
3:C9:101:ASN:HB3	3:C9:118:PHE:HB2	2.01	0.42
3:C9:233:ASN:HA	3:C9:234:PRO:HD3	1.93	0.42
4:D9:66:VAL:HG12	4:D9:99:ILE:HG12	2.00	0.42
1:AA:547:VAL:HG23	2:BA:59:PHE:CZ	2.45	0.42
3:CA:258:GLU:HA	4:DA:74:THR:HA	2.02	0.42
4:DA:96:PRO:HB2	4:DA:108:GLN:HG3	2.02	0.42
4:DA:98:ASP:OD1	4:DA:99:ILE:N	2.52	0.42
3:CB:253:GLN:HE22	4:FC:126:ILE:HG13	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:260:GLU:HA	4:DB:72:ARG:HH22	1.85	0.42
2:BC:211:GLU:HA	2:BC:214:VAL:HB	2.01	0.42
1:AD:532:MET:O	1:AD:536:ILE:HG12	2.18	0.42
2:BD:239:LEU:HD23	2:BD:239:LEU:HA	1.87	0.42
3:CD:259:LEU:HD21	4:FE:60:ILE:HG21	2.02	0.42
2:BE:158:MET:SD	2:BE:159:LEU:N	2.92	0.42
4:DE:64:LEU:HD13	4:DE:101:ILE:HB	2.01	0.42
2:BF:12:ILE:HD11	2:BF:47:ILE:HG12	2.01	0.42
4:DF:96:PRO:HB2	4:DF:108:GLN:HG3	2.02	0.42
4:EF:69:GLY:C	4:EF:70:ARG:HD3	2.39	0.42
3:CH:229:GLU:HG2	3:CH:230:LEU:N	2.33	0.42
3:CH:230:LEU:HD23	3:CH:230:LEU:HA	1.90	0.42
3:CH:260:GLU:HA	4:DH:72:ARG:HH22	1.84	0.42
4:EH:69:GLY:C	4:EH:70:ARG:HD3	2.39	0.42
4:EH:76:LYS:NZ	4:FH:59:ASP:HA	2.34	0.42
2:BJ:5:SER:O	2:BJ:9:LYS:HG3	2.20	0.42
3:CJ:271:ARG:O	3:CJ:275:ILE:HG12	2.19	0.42
4:EJ:71:THR:O	4:FJ:64:LEU:HD23	2.19	0.42
1:AK:517:GLN:O	1:AK:520:GLN:HG3	2.20	0.42
2:BK:166:GLY:O	3:CK:132:GLY:HA2	2.19	0.42
3:CL:54:LEU:HB2	3:CL:231:LEU:HD23	2.02	0.42
4:DN:101:ILE:HG22	4:DN:106:ILE:HB	2.00	0.42
1:AO:549:LEU:HA	1:AO:552:ARG:HB2	2.01	0.42
4:DO:56:LEU:HD23	4:DO:56:LEU:H	1.84	0.42
4:EO:71:THR:HA	4:EO:90:ASP:OD2	2.20	0.42
1:AP:548:ALA:HA	2:BP:25:VAL:HG13	2.00	0.42
3:CP:53:ALA:HB1	3:CP:172:ILE:HD13	2.02	0.42
3:CP:229:GLU:HG2	3:CP:230:LEU:N	2.33	0.42
2:BQ:96:ASP:O	2:BQ:100:THR:HG23	2.19	0.42
4:DQ:78:LEU:HA	4:DQ:81:LEU:HD23	2.00	0.42
3:CR:107:LEU:HD11	3:CR:219:LEU:HD22	2.00	0.42
3:CR:302:LEU:HD13	3:CR:317:VAL:HG13	2.01	0.42
3:CS:240:ARG:N	3:CS:242:GLU:OE1	2.44	0.42
4:FS:106:ILE:O	4:FS:126:ILE:HG12	2.19	0.42
3:CT:53:ALA:HB1	3:CT:172:ILE:HD13	2.01	0.42
3:CT:260:GLU:HA	4:DT:72:ARG:HH22	1.84	0.42
4:DT:98:ASP:OD1	4:DT:99:ILE:N	2.52	0.42
3:CU:64:GLN:O	3:CU:67:MET:HG3	2.19	0.42
4:DU:96:PRO:HB2	4:DU:108:GLN:HG3	2.02	0.42
4:DU:98:ASP:OD1	4:DU:99:ILE:N	2.52	0.42
4:EU:75:ILE:HA	4:EU:78:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EU:127:THR:HG23	4:EU:130:GLU:OE2	2.19	0.42
4:EV:75:ILE:HB	4:EV:76:LYS:NZ	2.35	0.42
2:BW:166:GLY:O	3:CW:132:GLY:HA2	2.19	0.42
2:BX:14:LEU:HD13	2:BX:17:ILE:HD11	2.01	0.42
3:CX:229:GLU:HG2	3:CX:230:LEU:N	2.33	0.42
3:CX:234:PRO:O	3:CX:236:LEU:N	2.47	0.42
3:CX:247:ARG:CZ	4:EY:79:LEU:HB3	2.49	0.42
4:DX:96:PRO:HB2	4:DX:108:GLN:HG3	2.02	0.42
2:BY:5:SER:O	2:BY:9:LYS:HG3	2.19	0.42
4:FY:71:THR:HG1	4:FY:89:LEU:HA	1.84	0.42
3:C1:272:LEU:HB2	4:D1:60:ILE:HB	2.02	0.42
4:D1:96:PRO:HB2	4:D1:108:GLN:HG3	2.02	0.42
4:E1:75:ILE:HG12	4:F1:60:ILE:O	2.19	0.42
1:A2:517:GLN:O	1:A2:520:GLN:HG3	2.20	0.42
4:D3:98:ASP:OD1	4:D3:99:ILE:N	2.52	0.42
4:D3:129:SER:O	4:D3:133:ARG:HD3	2.19	0.42
4:E3:58:MET:SD	4:F3:75:ILE:HG13	2.60	0.42
3:C4:70:PHE:HA	3:C4:75:ARG:O	2.20	0.42
4:E4:118:TYR:CE2	4:F4:93:ALA:HA	2.54	0.42
4:E5:75:ILE:HB	4:E5:76:LYS:NZ	2.34	0.42
2:B6:161:ILE:HG22	2:B7:199:ALA:HB2	2.01	0.42
2:B7:245:ARG:NH1	2:B7:249:ARG:HB2	2.34	0.42
3:C7:258:GLU:HA	4:D7:74:THR:HA	2.01	0.42
3:C7:271:ARG:O	3:C7:275:ILE:HG12	2.19	0.42
2:B8:196:VAL:C	2:B8:198:THR:H	2.22	0.42
4:E9:118:TYR:CG	4:F9:68:LEU:HD21	2.54	0.42
3:CA:53:ALA:HB1	3:CA:172:ILE:HD13	2.02	0.42
4:DB:98:ASP:OD1	4:DB:99:ILE:N	2.52	0.42
4:EB:58:MET:SD	4:FB:75:ILE:HG13	2.59	0.42
4:EB:131:ARG:HA	4:EB:134:ARG:HH11	1.82	0.42
2:BC:171:ALA:HB1	3:CC:131:PHE:CE1	2.54	0.42
3:CC:260:GLU:HA	4:DC:72:ARG:NH2	2.33	0.42
4:EC:71:THR:O	4:FC:64:LEU:HD23	2.19	0.42
1:AD:558:ASP:OD1	2:BD:6:GLY:HA3	2.19	0.42
3:CD:56:ILE:HD11	3:CE:188:PHE:CD1	2.54	0.42
1:AE:551:ILE:HD11	2:BE:29:LEU:HD11	2.01	0.42
4:EE:118:TYR:CE2	4:FE:93:ALA:HA	2.55	0.42
3:CF:313:TYR:HB3	4:DF:68:LEU:HD21	2.01	0.42
3:CG:38:TYR:HB2	4:EG:113:VAL:HB	2.02	0.42
3:CG:169:TRP:HH2	3:CG:231:LEU:HD11	1.83	0.42
4:DG:64:LEU:HD13	4:DG:101:ILE:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:69:GLY:C	4:EG:70:ARG:HD3	2.39	0.42
4:EG:74:THR:HG22	4:EG:75:ILE:N	2.34	0.42
4:DH:129:SER:O	4:DH:133:ARG:HD3	2.19	0.42
4:EH:118:TYR:CG	4:FH:68:LEU:HD21	2.55	0.42
1:AI:555:MET:HA	1:AI:558:ASP:OD2	2.19	0.42
2:BI:46:GLN:HE21	2:BJ:68:ALA:H	1.65	0.42
2:BI:98:LEU:HA	2:BI:101:ARG:NH2	2.34	0.42
3:CI:259:LEU:HD21	4:FJ:60:ILE:HG21	2.02	0.42
1:AJ:555:MET:SD	2:BJ:33:GLU:HB3	2.60	0.42
3:CK:108:LYS:O	3:CK:175:LEU:HB2	2.19	0.42
4:DK:130:GLU:HG3	4:DK:134:ARG:HD2	2.00	0.42
4:FK:110:GLU:OE1	4:FK:121:ARG:HB3	2.20	0.42
2:BL:246:SER:O	2:BL:250:LEU:HD23	2.20	0.42
4:DL:56:LEU:H	4:DL:56:LEU:HD23	1.84	0.42
3:CM:260:GLU:HA	4:DM:72:ARG:HH22	1.84	0.42
1:AN:532:MET:HE1	2:BN:56:LEU:HB2	2.01	0.42
2:BN:103:THR:HG21	2:BN:109:THR:CG2	2.49	0.42
4:DN:56:LEU:HD23	4:DN:56:LEU:H	1.84	0.42
1:AO:540:SER:OG	2:BO:21:ARG:HD3	2.19	0.42
2:BO:41:MET:CE	2:BP:77:LEU:HB2	2.50	0.42
3:CO:38:TYR:HB2	4:EO:113:VAL:HB	2.02	0.42
3:CO:247:ARG:HH22	4:EP:79:LEU:HD13	1.84	0.42
4:DO:104:TYR:HB3	4:DO:131:ARG:NH2	2.34	0.42
3:CP:279:LYS:HA	3:CP:279:LYS:HD3	1.84	0.42
4:EP:130:GLU:OE1	4:EP:130:GLU:N	2.52	0.42
3:CQ:247:ARG:HH12	4:ER:79:LEU:HD22	1.84	0.42
2:BR:26:PHE:HD1	2:BR:29:LEU:HD12	1.84	0.42
4:DR:96:PRO:HB2	4:DR:108:GLN:HG3	2.02	0.42
2:BT:81:LEU:HD12	2:BT:94:LEU:HG	2.01	0.42
4:DT:79:LEU:HD23	4:DT:80:ARG:HH21	1.84	0.42
4:ET:117:LYS:HA	4:ET:117:LYS:HD2	1.71	0.42
2:BU:26:PHE:HD1	2:BU:29:LEU:HD12	1.85	0.42
3:CU:229:GLU:HG2	3:CU:230:LEU:N	2.33	0.42
3:CU:267:ASP:OD1	4:DU:63:LYS:HD2	2.20	0.42
4:EU:117:LYS:HD2	4:EU:117:LYS:HA	1.71	0.42
3:CV:260:GLU:HA	4:DV:72:ARG:HH22	1.84	0.42
4:DV:101:ILE:HG22	4:DV:106:ILE:HB	2.01	0.42
4:DW:98:ASP:OD1	4:DW:99:ILE:N	2.53	0.42
3:C1:230:LEU:HD23	3:C1:230:LEU:HA	1.90	0.42
4:E2:118:TYR:CE2	4:F2:93:ALA:HA	2.55	0.42
1:A3:517:GLN:O	1:A3:520:GLN:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E3:68:LEU:HD12	4:E3:97:LEU:HD21	2.01	0.42
4:E3:75:ILE:HB	4:E3:76:LYS:NZ	2.35	0.42
2:B4:75:GLU:CD	2:B4:75:GLU:H	2.23	0.42
4:D4:98:ASP:OD1	4:D4:99:ILE:N	2.53	0.42
2:B5:43:ASN:HB3	2:B6:101:ARG:NH2	2.34	0.42
3:C5:57:ILE:HG21	3:C5:169:TRP:CD1	2.55	0.42
4:D5:98:ASP:OD1	4:D5:99:ILE:N	2.53	0.42
4:F5:95:GLU:OE1	4:F5:95:GLU:N	2.51	0.42
2:B6:26:PHE:CD2	2:B7:84:ALA:HB1	2.55	0.42
4:F6:116:ASP:OD2	4:F6:116:ASP:O	2.38	0.42
2:B7:250:LEU:O	2:B7:254:VAL:HG12	2.20	0.42
3:C7:250:LEU:HD21	4:E8:78:LEU:O	2.19	0.42
4:D7:98:ASP:OD1	4:D7:99:ILE:N	2.53	0.42
4:E7:74:THR:HG22	4:E7:75:ILE:N	2.35	0.42
4:F7:95:GLU:OE1	4:F7:95:GLU:N	2.51	0.42
1:A8:523:ALA:HA	1:A8:526:ARG:HG2	2.02	0.42
3:C9:127:VAL:HG22	3:C9:153:VAL:HG21	2.01	0.42
4:D9:64:LEU:HD13	4:D9:101:ILE:HB	2.02	0.42
4:E9:69:GLY:C	4:E9:70:ARG:HD3	2.40	0.42
4:F9:95:GLU:OE1	4:F9:95:GLU:N	2.51	0.42
2:BA:4:LEU:HD23	2:BA:4:LEU:HA	1.90	0.42
3:CA:101:ASN:HB3	3:CA:118:PHE:HB2	2.00	0.42
3:CA:313:TYR:HB3	4:DA:68:LEU:HD21	2.01	0.42
1:AB:540:SER:OG	2:BB:21:ARG:HD3	2.19	0.42
4:EC:69:GLY:C	4:EC:70:ARG:HD3	2.40	0.42
4:EC:131:ARG:HA	4:EC:134:ARG:NH1	2.35	0.42
2:BD:10:SER:HA	2:BD:13:LEU:HD12	2.02	0.42
3:CD:260:GLU:HA	4:DD:72:ARG:HH22	1.85	0.42
4:DD:108:GLN:HB3	4:DD:124:ASP:OD1	2.20	0.42
2:BE:21:ARG:O	2:BE:25:VAL:HG23	2.20	0.42
4:DF:56:LEU:HD23	4:DF:56:LEU:H	1.84	0.42
4:DF:129:SER:O	4:DF:133:ARG:HD3	2.20	0.42
3:CH:259:LEU:HD21	4:FI:60:ILE:HG21	2.02	0.42
4:DH:105:LEU:HB2	4:DH:131:ARG:HE	1.84	0.42
4:EI:76:LYS:HA	4:EI:76:LYS:HD3	1.91	0.42
3:CJ:38:TYR:HB2	4:EJ:113:VAL:HB	2.02	0.42
4:DK:66:VAL:HG12	4:DK:99:ILE:HG12	2.02	0.42
4:DK:101:ILE:HG22	4:DK:106:ILE:HB	2.01	0.42
4:EK:73:MET:SD	4:EK:77:GLU:HB2	2.60	0.42
3:CL:267:ASP:OD1	4:DL:63:LYS:HD2	2.20	0.42
3:CL:274:GLN:HG3	3:CL:277:LYS:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DL:105:LEU:HB2	4:DL:131:ARG:HE	1.85	0.42
4:FL:71:THR:HG1	4:FL:89:LEU:HA	1.84	0.42
1:AN:522:ARG:HD3	2:BO:64:GLU:HG3	2.00	0.42
2:BN:158:MET:HG3	2:BN:159:LEU:N	2.34	0.42
3:CN:229:GLU:HG2	3:CN:230:LEU:N	2.33	0.42
4:EN:73:MET:CE	4:EN:78:LEU:HD23	2.50	0.42
4:DO:98:ASP:OD1	4:DO:99:ILE:N	2.52	0.42
4:EO:75:ILE:O	4:EO:78:LEU:HB2	2.20	0.42
3:CP:69:LEU:HB2	3:CP:77:PRO:HG3	2.01	0.42
2:BQ:4:LEU:HD11	2:BQ:51:GLN:HB3	2.01	0.42
3:CQ:64:GLN:O	3:CQ:67:MET:HG3	2.18	0.42
3:CQ:69:LEU:HB2	3:CQ:77:PRO:HG3	2.01	0.42
2:BR:103:THR:HG21	2:BR:109:THR:CG2	2.49	0.42
2:BR:167:VAL:HG13	2:BR:172:LEU:HD23	2.02	0.42
4:DR:64:LEU:HD13	4:DR:101:ILE:HB	2.00	0.42
3:CS:69:LEU:HB2	3:CS:77:PRO:HG3	2.02	0.42
4:DS:64:LEU:HD13	4:DS:101:ILE:HB	2.01	0.42
4:ET:74:THR:HG22	4:ET:75:ILE:N	2.35	0.42
4:FT:108:GLN:OE1	4:FT:134:ARG:NH2	2.52	0.42
1:AV:532:MET:CE	2:BV:56:LEU:HD22	2.49	0.42
2:BV:10:SER:O	2:BV:14:LEU:HD23	2.20	0.42
3:CV:70:PHE:HA	3:CV:75:ARG:O	2.19	0.42
3:CV:302:LEU:HD13	3:CV:317:VAL:HG13	2.01	0.42
3:CV:313:TYR:HB3	4:DV:68:LEU:HD21	2.01	0.42
4:DV:56:LEU:H	4:DV:56:LEU:HD23	1.85	0.42
4:DV:98:ASP:OD1	4:DV:99:ILE:N	2.53	0.42
3:CW:271:ARG:O	3:CW:275:ILE:HG12	2.20	0.42
2:BX:17:ILE:O	2:BX:21:ARG:HD2	2.20	0.42
2:BX:250:LEU:HD21	2:BX:321:MET:SD	2.59	0.42
4:FY:106:ILE:O	4:FY:126:ILE:HG12	2.19	0.42
2:B1:11:VAL:O	2:B1:15:MET:HG2	2.19	0.42
4:D1:98:ASP:OD1	4:D1:99:ILE:N	2.53	0.42
4:E1:75:ILE:O	4:E1:79:LEU:HG	2.19	0.42
4:E1:79:LEU:HD22	3:CY:247:ARG:HH12	1.84	0.42
2:B2:244:ASP:HA	2:B2:247:ILE:HD12	2.02	0.42
3:C2:271:ARG:O	3:C2:275:ILE:HG12	2.20	0.42
1:A3:522:ARG:HD3	2:B4:64:GLU:HG3	2.01	0.42
2:B3:158:MET:O	2:B3:161:ILE:HB	2.20	0.42
2:B3:273:LYS:HA	2:B3:276:ARG:NH1	2.35	0.42
3:C3:101:ASN:HB3	3:C3:118:PHE:HB2	2.02	0.42
4:E3:75:ILE:HA	4:E3:78:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E4:130:GLU:OE1	4:E4:130:GLU:N	2.53	0.42
2:B5:41:MET:SD	2:B6:77:LEU:HD13	2.60	0.42
4:D5:66:VAL:HG12	4:D5:99:ILE:HG12	2.01	0.42
3:C6:111:ARG:O	3:C6:223:MET:HE1	2.20	0.42
3:C6:169:TRP:HH2	3:C6:231:LEU:HD11	1.84	0.42
3:C6:313:TYR:HB3	4:D6:68:LEU:HD21	2.00	0.42
4:D6:130:GLU:HG3	4:D6:134:ARG:HD2	2.01	0.42
3:C7:38:TYR:HB2	4:E7:113:VAL:HB	2.02	0.42
3:C8:69:LEU:HB2	3:C8:77:PRO:HG3	2.01	0.42
4:D8:66:VAL:HG12	4:D8:99:ILE:HG12	2.01	0.42
4:D8:98:ASP:OD1	4:D8:99:ILE:N	2.53	0.42
2:B9:146:LEU:O	2:B9:154:ARG:NE	2.45	0.42
2:B9:207:LYS:HG3	2:B9:209:GLN:H	1.83	0.42
4:E9:106:ILE:HD12	4:E9:125:ILE:HD11	2.01	0.42
2:BA:273:LYS:HA	2:BA:276:ARG:NH1	2.35	0.42
4:DA:66:VAL:HG12	4:DA:99:ILE:HG12	2.00	0.42
4:DA:106:ILE:O	4:DA:126:ILE:HG12	2.20	0.42
1:AB:544:PRO:HA	1:AB:547:VAL:HG12	2.02	0.42
2:BB:5:SER:O	2:BB:9:LYS:HG3	2.20	0.42
2:BB:166:GLY:O	3:CB:132:GLY:HA2	2.20	0.42
4:DB:66:VAL:HG12	4:DB:99:ILE:HG12	2.01	0.42
4:FC:133:ARG:HH12	4:FC:137:ARG:NH1	2.18	0.42
4:ED:69:GLY:C	4:ED:70:ARG:HD3	2.40	0.42
3:CE:70:PHE:HA	3:CE:75:ARG:O	2.20	0.42
2:BF:5:SER:O	2:BF:9:LYS:HG3	2.20	0.42
2:BF:26:PHE:CD2	2:BG:84:ALA:HB1	2.55	0.42
3:CF:259:LEU:HD21	4:FG:60:ILE:HG21	2.02	0.42
4:DF:98:ASP:OD1	4:DF:99:ILE:N	2.52	0.42
2:BG:161:ILE:O	2:BH:195:GLY:HA2	2.20	0.42
3:CG:313:TYR:HB3	4:DG:68:LEU:HD21	2.01	0.42
2:BH:242:VAL:O	2:BH:246:SER:OG	2.31	0.42
3:CH:56:ILE:HD11	3:CI:188:PHE:CD1	2.54	0.42
3:CH:279:LYS:HD3	3:CH:279:LYS:HA	1.83	0.42
3:CH:302:LEU:HD13	3:CH:317:VAL:HG13	2.01	0.42
2:BI:11:VAL:O	2:BI:15:MET:HG2	2.18	0.42
4:EJ:75:ILE:HG13	4:FJ:58:MET:HG2	2.01	0.42
3:CK:169:TRP:HH2	3:CK:231:LEU:HD11	1.84	0.42
1:AL:517:GLN:O	1:AL:520:GLN:HG3	2.20	0.42
2:BL:17:ILE:O	2:BL:21:ARG:HD2	2.20	0.42
3:CL:169:TRP:HH2	3:CL:231:LEU:HD11	1.85	0.42
4:EL:118:TYR:CE2	4:FL:93:ALA:HA	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:38:TYR:HB2	4:EM:113:VAL:HB	2.02	0.42
1:AN:548:ALA:HA	2:BN:25:VAL:HG13	2.02	0.42
2:BN:5:SER:O	2:BN:9:LYS:HG3	2.20	0.42
4:EN:74:THR:HA	4:FN:61:PRO:HA	2.01	0.42
4:EN:93:ALA:HB3	4:FN:116:ASP:OD1	2.19	0.42
4:FN:95:GLU:OE1	4:FN:95:GLU:N	2.51	0.42
3:CO:169:TRP:HH2	3:CO:231:LEU:HD11	1.85	0.42
3:CO:267:ASP:OD1	4:DO:63:LYS:HD2	2.20	0.42
3:CP:64:GLN:O	3:CP:67:MET:HG3	2.19	0.42
4:DP:98:ASP:OD1	4:DP:99:ILE:N	2.52	0.42
4:DP:101:ILE:HD13	4:EP:60:ILE:HD13	2.02	0.42
1:AQ:549:LEU:HA	1:AQ:552:ARG:HB2	2.02	0.42
3:CQ:53:ALA:HB1	3:CQ:172:ILE:HD13	2.02	0.42
4:EQ:118:TYR:CE2	4:FQ:93:ALA:HA	2.55	0.42
4:DR:98:ASP:OD1	4:DR:99:ILE:N	2.53	0.42
4:FR:95:GLU:OE1	4:FR:95:GLU:N	2.51	0.42
2:BS:139:ARG:HD3	2:BS:139:ARG:C	2.40	0.42
4:ES:73:MET:SD	4:ES:77:GLU:HB2	2.60	0.42
4:DT:56:LEU:H	4:DT:56:LEU:HD23	1.84	0.42
4:ET:68:LEU:HD12	4:ET:97:LEU:HD21	2.01	0.42
4:ET:71:THR:O	4:FT:64:LEU:HG	2.20	0.42
4:ET:118:TYR:CE2	4:FT:93:ALA:HA	2.55	0.42
2:BV:41:MET:HA	2:BV:44:VAL:HB	2.01	0.42
3:CV:112:GLY:HA3	3:CV:223:MET:HE3	2.02	0.42
3:CV:260:GLU:HA	4:DV:72:ARG:NH2	2.33	0.42
1:AW:517:GLN:O	1:AW:520:GLN:HG3	2.19	0.42
3:CW:64:GLN:O	3:CW:67:MET:HG3	2.19	0.42
3:CY:54:LEU:HD23	3:CY:84:ILE:HD13	2.01	0.42
4:DY:130:GLU:HG3	4:DY:134:ARG:HD2	2.02	0.42
4:EY:69:GLY:C	4:EY:70:ARG:HD3	2.39	0.42
4:EY:71:THR:O	4:FY:64:LEU:HD23	2.19	0.42
4:F1:64:LEU:HD23	4:F1:64:LEU:H	1.85	0.42
3:C2:70:PHE:HA	3:C2:75:ARG:O	2.19	0.42
3:C2:101:ASN:HB3	3:C2:118:PHE:HB2	2.02	0.42
3:C3:64:GLN:O	3:C3:67:MET:HG3	2.19	0.42
3:C3:108:LYS:O	3:C3:175:LEU:HB2	2.19	0.42
3:C3:152:ARG:HA	3:C3:152:ARG:HD2	1.84	0.42
2:B4:19:GLU:OE1	2:B5:80:VAL:HG23	2.20	0.42
4:F4:95:GLU:OE1	4:F4:95:GLU:N	2.52	0.42
3:C5:54:LEU:HB2	3:C5:231:LEU:HD23	2.01	0.42
3:C6:54:LEU:HB2	3:C6:231:LEU:HD23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C6:233:ASN:HA	3:C6:234:PRO:HD3	1.93	0.42
4:D6:98:ASP:OD1	4:D6:99:ILE:N	2.53	0.42
4:D6:129:SER:O	4:D6:133:ARG:HD3	2.19	0.42
2:BA:41:MET:HE1	2:BB:77:LEU:HD23	2.01	0.42
4:DA:56:LEU:HD23	4:DA:56:LEU:H	1.84	0.42
3:CB:253:GLN:NE2	4:FC:126:ILE:O	2.52	0.42
4:EB:118:TYR:CE2	4:FB:93:ALA:HA	2.55	0.42
2:BC:5:SER:O	2:BC:9:LYS:HG3	2.20	0.42
4:FC:64:LEU:HD23	4:FC:64:LEU:H	1.85	0.42
3:CD:260:GLU:HA	4:DD:72:ARG:NH2	2.34	0.42
1:AE:517:GLN:O	1:AE:520:GLN:HG3	2.19	0.42
2:BE:167:VAL:HG13	2:BE:172:LEU:HD23	2.02	0.42
4:EE:75:ILE:HB	4:EE:76:LYS:NZ	2.35	0.42
4:DG:66:VAL:HG12	4:DG:99:ILE:HG12	2.02	0.42
4:DG:129:SER:O	4:DG:133:ARG:HD3	2.20	0.42
1:AH:523:ALA:HA	1:AH:526:ARG:HG2	2.02	0.42
3:CI:38:TYR:HB2	4:EI:113:VAL:HB	2.02	0.42
3:CI:302:LEU:HD13	3:CI:317:VAL:HG13	2.02	0.42
3:CJ:250:LEU:HD21	4:EK:78:LEU:O	2.19	0.42
4:EK:127:THR:HG23	4:EK:130:GLU:OE2	2.20	0.42
3:CL:260:GLU:HA	4:DL:72:ARG:NH2	2.34	0.42
4:EL:75:ILE:HB	4:EL:76:LYS:NZ	2.35	0.42
2:BM:5:SER:O	2:BM:9:LYS:HG3	2.20	0.42
3:CM:233:ASN:HA	3:CM:234:PRO:HD3	1.93	0.42
4:EM:118:TYR:CE2	4:FM:93:ALA:HA	2.55	0.42
2:BN:159:LEU:HB3	3:CN:137:PHE:CE2	2.54	0.42
4:DN:104:TYR:HB3	4:DN:131:ARG:NH2	2.34	0.42
4:EN:118:TYR:CG	4:FN:68:LEU:HD21	2.54	0.42
2:BO:245:ARG:NH1	2:BO:249:ARG:HB2	2.34	0.42
4:FO:95:GLU:OE1	4:FO:95:GLU:N	2.51	0.42
2:BP:234:PHE:CE2	2:BP:309:LEU:HD22	2.55	0.42
3:CP:70:PHE:HA	3:CP:75:ARG:O	2.19	0.42
2:BQ:10:SER:HA	2:BQ:13:LEU:HD12	2.02	0.42
3:CR:64:GLN:O	3:CR:67:MET:HG3	2.19	0.42
3:CR:260:GLU:HA	4:DR:72:ARG:NH2	2.34	0.42
4:ER:118:TYR:CE2	4:FR:93:ALA:HA	2.54	0.42
1:AT:517:GLN:O	1:AT:520:GLN:HG3	2.20	0.42
3:CT:258:GLU:HA	4:DT:74:THR:HG22	2.02	0.42
2:BV:167:VAL:HG13	2:BV:172:LEU:HD23	2.01	0.42
3:CW:179:TYR:OH	3:CW:182:SER:OG	2.25	0.42
4:EW:118:TYR:CE2	4:FW:93:ALA:HA	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:547:VAL:HG13	2:BX:25:VAL:HG22	2.01	0.42
3:CX:267:ASP:OD1	4:DX:63:LYS:HD2	2.20	0.42
4:DX:66:VAL:HG12	4:DX:99:ILE:HG12	2.01	0.42
4:FX:106:ILE:O	4:FX:126:ILE:HG12	2.19	0.42
2:B1:253:GLU:HG3	2:B1:315:LEU:HD11	2.02	0.42
3:C1:64:GLN:O	3:C1:67:MET:HG3	2.19	0.42
3:C1:179:TYR:OH	3:C1:182:SER:OG	2.25	0.42
3:C1:279:LYS:HA	3:C1:279:LYS:HD3	1.82	0.42
3:C1:302:LEU:HD13	3:C1:317:VAL:HG13	2.02	0.42
4:D1:56:LEU:HD23	4:D1:56:LEU:H	1.84	0.42
4:D2:102:ASN:HB2	4:E2:61:PRO:HG2	2.01	0.42
4:E2:117:LYS:HD2	4:E2:117:LYS:HA	1.71	0.42
3:C4:258:GLU:HA	4:D4:74:THR:HA	2.02	0.42
3:C4:271:ARG:O	3:C4:275:ILE:HG12	2.20	0.42
3:C5:38:TYR:HB2	4:E5:113:VAL:HB	2.02	0.42
4:D5:96:PRO:HB2	4:D5:108:GLN:HG3	2.02	0.42
2:B6:13:LEU:HD13	2:B6:59:PHE:CD1	2.55	0.42
3:C6:247:ARG:CZ	4:E7:79:LEU:HB3	2.50	0.42
2:B7:166:GLY:O	3:C7:132:GLY:HA2	2.19	0.42
3:C8:38:TYR:HB2	4:E8:113:VAL:HB	2.02	0.42
1:A9:523:ALA:HA	1:A9:526:ARG:HG2	2.02	0.42
1:A9:558:ASP:OD1	2:B9:6:GLY:HA3	2.19	0.42
2:B9:103:THR:HG21	2:B9:109:THR:CG2	2.49	0.42
4:D9:98:ASP:OD1	4:D9:99:ILE:N	2.53	0.42
2:BA:1:MET:HA	2:BA:51:GLN:HE22	1.85	0.42
2:BA:15:MET:HE3	2:BA:41:MET:HG3	2.02	0.42
2:BA:113:MET:HE2	2:BA:117:SER:HB2	2.01	0.42
4:EA:118:TYR:CG	4:FA:68:LEU:HD21	2.54	0.42
4:FA:106:ILE:O	4:FA:126:ILE:HG12	2.20	0.42
1:AB:516:GLU:HA	1:AB:519:GLN:HG2	2.02	0.42
2:BB:97:ILE:HG22	2:BB:101:ARG:HH12	1.84	0.42
3:CB:69:LEU:HB2	3:CB:77:PRO:HG3	2.02	0.42
3:CB:136:ARG:HG3	3:CB:137:PHE:HD1	1.85	0.42
3:CB:260:GLU:HA	4:DB:72:ARG:NH2	2.34	0.42
3:CB:286:ILE:HG13	3:CB:287:GLU:O	2.20	0.42
1:AC:523:ALA:HA	1:AC:526:ARG:HG2	2.02	0.42
2:BC:166:GLY:O	2:BD:190:ARG:NE	2.31	0.42
3:CC:260:GLU:HA	4:DC:72:ARG:HH22	1.84	0.42
2:BD:97:ILE:HG22	2:BD:101:ARG:HH12	1.85	0.42
4:DD:101:ILE:HG22	4:DD:106:ILE:HB	2.01	0.42
4:EE:127:THR:HG23	4:EE:130:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:272:LEU:HB2	4:DF:60:ILE:HB	2.00	0.42
3:CF:302:LEU:HD13	3:CF:317:VAL:HG13	2.02	0.42
4:DF:105:LEU:HB2	4:DF:131:ARG:HE	1.85	0.42
3:CG:69:LEU:HB2	3:CG:77:PRO:HG3	2.02	0.42
4:EG:71:THR:O	4:FG:64:LEU:HD23	2.20	0.42
4:FG:116:ASP:O	4:FG:116:ASP:OD1	2.38	0.42
1:AH:516:GLU:HA	1:AH:519:GLN:HG2	2.02	0.42
2:BH:5:SER:O	2:BH:9:LYS:HG3	2.20	0.42
3:CH:57:ILE:HG21	3:CH:169:TRP:CD1	2.55	0.42
4:DH:98:ASP:OD1	4:DH:99:ILE:N	2.52	0.42
4:EH:74:THR:HG22	4:EH:75:ILE:N	2.35	0.42
1:AI:552:ARG:HH11	1:AI:555:MET:HE3	1.85	0.42
3:CI:70:PHE:HA	3:CI:75:ARG:O	2.19	0.42
3:CI:247:ARG:CZ	4:EJ:79:LEU:HB3	2.49	0.42
4:EI:93:ALA:HB3	4:FI:116:ASP:OD1	2.19	0.42
1:AJ:517:GLN:O	1:AJ:520:GLN:HG3	2.20	0.42
2:BK:26:PHE:HD1	2:BK:29:LEU:HD12	1.84	0.42
2:BK:207:LYS:HG3	2:BK:209:GLN:N	2.35	0.42
2:BL:113:MET:HE2	2:BL:117:SER:HB2	2.01	0.42
2:BL:166:GLY:O	3:CL:132:GLY:HA2	2.19	0.42
3:CL:118:PHE:CZ	3:CL:157:MET:HG3	2.55	0.42
3:CM:159:LYS:O	3:CM:162:LEU:HG	2.20	0.42
4:EN:118:TYR:CE2	4:FN:93:ALA:HA	2.55	0.42
1:AO:517:GLN:O	1:AO:520:GLN:HG3	2.20	0.42
3:CO:258:GLU:HA	4:DO:74:THR:HA	2.01	0.42
2:BP:134:LEU:HD23	2:BP:134:LEU:HA	1.89	0.42
2:BP:167:VAL:HG13	2:BP:172:LEU:HD23	2.02	0.42
3:CP:57:ILE:HG21	3:CP:169:TRP:CD1	2.55	0.42
4:EP:68:LEU:HD12	4:EP:97:LEU:HD21	2.02	0.42
2:BQ:134:LEU:HD13	2:BQ:146:LEU:HD11	2.02	0.42
3:CQ:246:TRP:HZ2	4:FR:122:ILE:HD12	1.83	0.42
4:FQ:95:GLU:OE1	4:FQ:95:GLU:N	2.51	0.42
1:AR:517:GLN:O	1:AR:520:GLN:HG3	2.20	0.42
2:BR:166:GLY:O	3:CR:132:GLY:HA2	2.19	0.42
2:BT:200:ALA:HB2	2:BT:229:ILE:HG23	2.01	0.42
4:FT:95:GLU:OE1	4:FT:95:GLU:N	2.51	0.42
2:BU:17:ILE:O	2:BU:21:ARG:HD2	2.19	0.42
2:BU:139:ARG:HG3	2:BV:205:LEU:CD1	2.50	0.42
3:CU:247:ARG:HH12	4:EV:79:LEU:HD22	1.85	0.42
2:BV:17:ILE:O	2:BV:21:ARG:HD2	2.19	0.42
3:CV:271:ARG:O	3:CV:275:ILE:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BW:245:ARG:NH1	2:BW:249:ARG:HB2	2.35	0.42
3:CW:70:PHE:HA	3:CW:75:ARG:O	2.20	0.42
3:CY:260:GLU:HA	4:DY:72:ARG:HH22	1.83	0.42
3:CY:267:ASP:OD1	4:DY:63:LYS:HD2	2.20	0.42
1:A1:555:MET:SD	2:B1:33:GLU:HB3	2.60	0.41
3:C1:101:ASN:HB3	3:C1:118:PHE:HB2	2.02	0.41
2:B2:264:LYS:NZ	2:B2:294:GLY:O	2.48	0.41
4:D2:96:PRO:HB2	4:D2:108:GLN:HG3	2.02	0.41
4:D2:98:ASP:OD1	4:D2:99:ILE:N	2.53	0.41
4:E2:71:THR:O	4:F2:64:LEU:HG	2.20	0.41
4:D4:56:LEU:HD23	4:D4:56:LEU:H	1.84	0.41
4:D4:96:PRO:HB2	4:D4:108:GLN:HG3	2.02	0.41
1:A5:516:GLU:HA	1:A5:519:GLN:HG2	2.02	0.41
1:A5:549:LEU:HA	1:A5:552:ARG:HB2	2.01	0.41
3:C5:53:ALA:HB1	3:C5:172:ILE:HD13	2.01	0.41
3:C5:233:ASN:HA	3:C5:234:PRO:HD3	1.93	0.41
4:E5:118:TYR:CE2	4:F5:93:ALA:HA	2.55	0.41
2:B6:78:ARG:HA	2:B6:94:LEU:HD11	2.02	0.41
2:B6:230:ILE:O	2:B6:233:MET:HB2	2.20	0.41
3:C6:259:LEU:HD21	4:F7:60:ILE:HG21	2.02	0.41
1:A7:540:SER:OG	2:B7:21:ARG:HD3	2.20	0.41
3:C7:265:PHE:HA	3:C7:292:ILE:HD12	2.02	0.41
4:E7:118:TYR:CE2	4:F7:93:ALA:HA	2.55	0.41
2:B8:14:LEU:HD13	2:B8:17:ILE:HD11	2.01	0.41
2:B8:139:ARG:NH1	2:B9:198:THR:HG23	2.33	0.41
3:C8:265:PHE:HA	3:C8:292:ILE:HD12	2.02	0.41
4:F8:71:THR:HG1	4:F8:89:LEU:HA	1.85	0.41
1:A9:534:GLN:O	1:A9:538:GLU:HG2	2.20	0.41
2:B9:161:ILE:O	2:BA:195:GLY:HA2	2.20	0.41
3:C9:234:PRO:O	3:C9:236:LEU:N	2.47	0.41
1:AA:517:GLN:O	1:AA:520:GLN:HG3	2.19	0.41
4:FA:110:GLU:OE1	4:FA:121:ARG:HB3	2.20	0.41
1:AB:522:ARG:HD3	2:BC:64:GLU:HG3	2.00	0.41
3:CB:313:TYR:HB3	4:DB:68:LEU:HD21	2.01	0.41
4:EB:68:LEU:HD12	4:EB:97:LEU:HD21	2.02	0.41
1:AC:536:ILE:HD13	1:AC:539:MET:HE3	2.02	0.41
2:BC:161:ILE:O	2:BD:195:GLY:HA2	2.20	0.41
3:CC:54:LEU:HB2	3:CC:231:LEU:HD23	2.01	0.41
3:CC:69:LEU:HB2	3:CC:77:PRO:HG3	2.01	0.41
3:CC:258:GLU:HA	4:DC:74:THR:HG22	2.02	0.41
4:EC:118:TYR:CE2	4:FC:93:ALA:HA	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FC:76:LYS:O	4:FC:79:LEU:HG	2.20	0.41
3:CD:247:ARG:CZ	4:EE:79:LEU:HB3	2.49	0.41
4:DD:66:VAL:HG12	4:DD:99:ILE:HG12	2.01	0.41
4:DD:98:ASP:OD1	4:DD:99:ILE:N	2.53	0.41
3:CE:112:GLY:HA3	3:CE:223:MET:HE3	2.01	0.41
3:CE:169:TRP:HH2	3:CE:231:LEU:HD11	1.85	0.41
4:EE:71:THR:O	4:FE:64:LEU:HG	2.20	0.41
4:EF:118:TYR:CE2	4:FF:93:ALA:HA	2.55	0.41
4:EF:119:GLY:HA2	4:FF:89:LEU:HD13	2.02	0.41
3:CH:258:GLU:HA	4:DH:74:THR:HA	2.01	0.41
3:CH:271:ARG:O	3:CH:275:ILE:HG12	2.19	0.41
3:CH:313:TYR:HB3	4:DH:68:LEU:HD21	2.01	0.41
4:DH:96:PRO:HB2	4:DH:108:GLN:HG3	2.02	0.41
1:AI:516:GLU:HA	1:AI:519:GLN:HG2	2.02	0.41
2:BI:30:SER:O	2:BI:34:VAL:HG23	2.20	0.41
3:CJ:230:LEU:HD23	3:CJ:230:LEU:HA	1.90	0.41
2:BK:103:THR:HG21	2:BK:109:THR:CG2	2.49	0.41
3:CK:259:LEU:HD21	4:FL:60:ILE:HG21	2.02	0.41
4:FK:64:LEU:HD23	4:FK:64:LEU:H	1.85	0.41
1:AM:517:GLN:O	1:AM:520:GLN:HG3	2.20	0.41
1:AM:547:VAL:HG13	2:BM:25:VAL:HG22	2.02	0.41
4:EM:58:MET:SD	4:FM:75:ILE:HG13	2.60	0.41
2:BN:74:ASN:O	2:BN:77:LEU:HB2	2.20	0.41
3:CN:302:LEU:HD13	3:CN:317:VAL:HG13	2.01	0.41
4:DN:96:PRO:HB2	4:DN:108:GLN:HG3	2.02	0.41
4:EN:71:THR:HB	4:FN:64:LEU:HD21	2.01	0.41
4:DO:66:VAL:HG12	4:DO:99:ILE:HG12	2.02	0.41
4:DO:96:PRO:HB2	4:DO:108:GLN:HG3	2.02	0.41
3:CP:38:TYR:HB2	4:EP:113:VAL:HB	2.02	0.41
3:CP:234:PRO:O	3:CP:236:LEU:N	2.44	0.41
3:CP:313:TYR:HB3	4:DP:68:LEU:HD21	2.00	0.41
4:EP:86:VAL:HA	4:FP:120:VAL:O	2.20	0.41
4:FP:95:GLU:OE1	4:FP:95:GLU:N	2.51	0.41
3:CQ:237:GLU:OE2	3:CR:190:ASN:HB2	2.20	0.41
3:CQ:271:ARG:O	3:CQ:275:ILE:HG12	2.20	0.41
4:EQ:76:LYS:NZ	4:FQ:59:ASP:HA	2.34	0.41
2:BR:207:LYS:HG3	2:BR:209:GLN:H	1.85	0.41
3:CR:229:GLU:HG2	3:CR:230:LEU:N	2.34	0.41
3:CS:101:ASN:HB3	3:CS:118:PHE:HB2	2.02	0.41
4:DS:102:ASN:HB2	4:ES:61:PRO:HG2	2.02	0.41
2:BT:10:SER:O	2:BT:14:LEU:HD23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BT:250:LEU:O	2:BT:254:VAL:HG12	2.20	0.41
2:BU:113:MET:HE1	2:BU:117:SER:HB2	2.02	0.41
4:EU:76:LYS:HZ1	4:FU:58:MET:C	2.19	0.41
2:BV:161:ILE:O	2:BW:195:GLY:HA2	2.20	0.41
4:EX:71:THR:HA	4:EX:90:ASP:OD2	2.20	0.41
4:EX:71:THR:O	4:FX:64:LEU:HD23	2.20	0.41
3:CY:69:LEU:HB2	3:CY:77:PRO:HG3	2.02	0.41
3:CY:271:ARG:O	3:CY:275:ILE:HG12	2.19	0.41
4:EY:74:THR:HG22	4:EY:75:ILE:N	2.35	0.41
4:EY:75:ILE:HB	4:EY:76:LYS:NZ	2.34	0.41
1:A1:558:ASP:OD1	2:B1:6:GLY:HA3	2.20	0.41
2:B1:146:LEU:O	2:B1:154:ARG:NE	2.48	0.41
2:B1:161:ILE:O	2:B2:195:GLY:HA2	2.20	0.41
3:C1:54:LEU:HB2	3:C1:231:LEU:HD23	2.00	0.41
3:C1:159:LYS:O	3:C1:162:LEU:HG	2.20	0.41
4:D1:66:VAL:HG12	4:D1:99:ILE:HG12	2.01	0.41
2:B2:5:SER:O	2:B2:9:LYS:HG3	2.20	0.41
2:B2:103:THR:HG21	2:B2:109:THR:CG2	2.49	0.41
3:C2:64:GLN:O	3:C2:67:MET:HG3	2.19	0.41
4:E2:75:ILE:HB	4:E2:76:LYS:NZ	2.35	0.41
3:C3:169:TRP:HH2	3:C3:231:LEU:HD11	1.85	0.41
3:C3:234:PRO:O	3:C3:236:LEU:N	2.45	0.41
4:E3:118:TYR:CE2	4:F3:93:ALA:HA	2.55	0.41
1:A4:549:LEU:O	1:A4:552:ARG:HB2	2.20	0.41
4:E4:74:THR:HG22	4:E4:75:ILE:N	2.35	0.41
2:B5:245:ARG:HH12	2:B5:249:ARG:HB2	1.86	0.41
3:C5:56:ILE:HD11	3:C6:188:PHE:CD1	2.54	0.41
3:C5:253:GLN:HE22	4:F6:126:ILE:HG13	1.85	0.41
3:C5:271:ARG:O	3:C5:275:ILE:HG12	2.20	0.41
1:A6:523:ALA:HA	1:A6:526:ARG:HG2	2.02	0.41
2:B6:30:SER:O	2:B6:34:VAL:HG23	2.21	0.41
2:B7:48:SER:HB3	2:B8:66:PHE:CD1	2.55	0.41
4:D7:129:SER:O	4:D7:133:ARG:HD3	2.19	0.41
4:F8:110:GLU:OE1	4:F8:121:ARG:HB3	2.20	0.41
2:B9:167:VAL:HG13	2:B9:172:LEU:HD23	2.03	0.41
4:F9:60:ILE:HD12	4:F9:60:ILE:HA	1.97	0.41
1:AA:516:GLU:HA	1:AA:519:GLN:HG2	2.02	0.41
4:EA:86:VAL:HB	4:FA:121:ARG:HB2	2.02	0.41
1:AB:517:GLN:O	1:AB:520:GLN:HG3	2.20	0.41
4:EB:71:THR:HA	4:EB:90:ASP:OD2	2.19	0.41
4:EB:118:TYR:CG	4:FB:68:LEU:HD21	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:547:VAL:HG23	2:BC:59:PHE:CZ	2.43	0.41
3:CC:38:TYR:HB2	4:EC:113:VAL:HB	2.02	0.41
3:CD:313:TYR:HB3	4:DD:68:LEU:HD21	2.01	0.41
4:DE:98:ASP:OD1	4:DE:99:ILE:N	2.53	0.41
3:CF:54:LEU:HB2	3:CF:231:LEU:HD23	2.02	0.41
4:DF:66:VAL:HG12	4:DF:99:ILE:HG12	2.01	0.41
4:EH:71:THR:O	4:FH:64:LEU:HG	2.20	0.41
3:CI:313:TYR:HB3	4:DI:68:LEU:HD21	2.01	0.41
4:EI:118:TYR:CE2	4:FI:93:ALA:HA	2.54	0.41
3:CJ:247:ARG:HH12	4:EK:79:LEU:HD22	1.85	0.41
3:CK:246:TRP:HZ2	4:FL:122:ILE:HD12	1.84	0.41
3:CK:271:ARG:O	3:CK:275:ILE:HG12	2.19	0.41
4:EK:118:TYR:CE2	4:FK:93:ALA:HA	2.55	0.41
3:CL:260:GLU:HA	4:DL:72:ARG:HH22	1.85	0.41
4:DL:129:SER:O	4:DL:133:ARG:HD3	2.20	0.41
1:AM:516:GLU:HA	1:AM:519:GLN:HG2	2.02	0.41
1:AM:532:MET:HE1	2:BM:56:LEU:HB2	2.02	0.41
3:CM:267:ASP:OD1	4:DM:63:LYS:HD2	2.20	0.41
1:AN:547:VAL:HG13	2:BN:25:VAL:HG22	2.01	0.41
2:BN:250:LEU:O	2:BN:254:VAL:HG12	2.21	0.41
3:CN:169:TRP:HH2	3:CN:231:LEU:HD11	1.85	0.41
2:BO:41:MET:HA	2:BO:44:VAL:HB	2.02	0.41
3:CO:230:LEU:HD23	3:CO:230:LEU:HA	1.91	0.41
2:BP:300:GLN:O	2:BP:304:GLU:HG2	2.20	0.41
3:CP:220:PRO:HD2	3:CP:223:MET:HG3	2.02	0.41
3:CP:274:GLN:O	3:CP:278:LEU:HB2	2.21	0.41
2:BQ:53:THR:HA	2:BQ:56:LEU:HD21	2.02	0.41
2:BQ:103:THR:HG21	2:BQ:109:THR:CG2	2.49	0.41
2:BQ:249:ARG:NH1	2:BQ:252:GLN:HB2	2.35	0.41
3:CQ:247:ARG:HH22	4:ER:79:LEU:HD13	1.84	0.41
2:BR:46:GLN:NE2	2:BR:47:ILE:O	2.38	0.41
3:CR:108:LYS:O	3:CR:175:LEU:HB2	2.20	0.41
3:CR:179:TYR:OH	3:CR:182:SER:OG	2.25	0.41
3:CR:272:LEU:HB2	4:DR:60:ILE:HB	2.02	0.41
4:ER:74:THR:HA	4:FR:61:PRO:HA	2.02	0.41
3:CS:267:ASP:OD1	4:DS:63:LYS:HD2	2.21	0.41
3:CS:313:TYR:HB3	4:DS:68:LEU:HD21	2.01	0.41
4:DS:66:VAL:HG12	4:DS:99:ILE:HG12	2.02	0.41
4:ES:59:ASP:HA	4:FS:76:LYS:HZ1	1.84	0.41
4:DT:102:ASN:HB2	4:ET:61:PRO:HG2	2.02	0.41
2:BU:166:GLY:O	3:CU:132:GLY:HA2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BU:209:GLN:HA	2:BU:212:GLU:CD	2.40	0.41
3:CU:234:PRO:O	3:CU:236:LEU:N	2.44	0.41
2:BV:253:GLU:HG3	2:BV:315:LEU:HD11	2.02	0.41
3:CV:267:ASP:OD1	4:DV:63:LYS:HD2	2.21	0.41
4:EV:69:GLY:C	4:EV:70:ARG:HD3	2.40	0.41
2:BW:250:LEU:O	2:BW:254:VAL:HG12	2.20	0.41
4:DW:56:LEU:H	4:DW:56:LEU:HD23	1.84	0.41
2:BX:212:GLU:HA	2:BX:215:ILE:HG12	2.02	0.41
3:CX:69:LEU:HB2	3:CX:77:PRO:HG3	2.03	0.41
3:CX:271:ARG:O	3:CX:275:ILE:HG12	2.20	0.41
3:CY:107:LEU:HD11	3:CY:219:LEU:HD22	2.01	0.41
1:A1:555:MET:HA	1:A1:558:ASP:OD2	2.20	0.41
2:B1:46:GLN:CD	2:B2:70:ASN:HD22	2.23	0.41
3:C1:253:GLN:HG3	4:F2:125:ILE:HD11	2.02	0.41
3:C1:267:ASP:OD1	4:D1:63:LYS:HD2	2.20	0.41
2:B2:250:LEU:O	2:B2:254:VAL:HG12	2.21	0.41
3:C2:260:GLU:HA	4:D2:72:ARG:HH22	1.85	0.41
4:E2:74:THR:HG22	4:E2:75:ILE:N	2.35	0.41
2:B3:17:ILE:O	2:B3:21:ARG:HD2	2.20	0.41
2:B3:167:VAL:HG13	2:B3:172:LEU:HD23	2.03	0.41
1:A4:516:GLU:HA	1:A4:519:GLN:HG2	2.02	0.41
4:D4:66:VAL:HG12	4:D4:99:ILE:HG12	2.01	0.41
1:A5:549:LEU:O	1:A5:552:ARG:HB2	2.21	0.41
2:B5:113:MET:HE2	2:B5:117:SER:HB2	2.03	0.41
3:C6:86:ILE:HD13	3:C6:200:VAL:HG22	2.02	0.41
4:F6:95:GLU:OE1	4:F6:95:GLU:N	2.51	0.41
1:A7:517:GLN:O	1:A7:520:GLN:HG3	2.20	0.41
3:C7:247:ARG:CZ	4:E8:79:LEU:HB3	2.50	0.41
3:C7:293:ILE:HD12	3:C7:302:LEU:O	2.19	0.41
4:E7:71:THR:HA	4:E7:90:ASP:OD2	2.19	0.41
3:C8:258:GLU:HA	4:D8:74:THR:HA	2.02	0.41
2:B9:5:SER:O	2:B9:9:LYS:HG3	2.20	0.41
3:C9:179:TYR:OH	3:C9:182:SER:OG	2.25	0.41
2:BA:249:ARG:NH1	2:BA:252:GLN:HB2	2.35	0.41
3:CA:247:ARG:HH22	4:EB:79:LEU:HD13	1.85	0.41
3:CB:38:TYR:HB2	4:EB:113:VAL:HB	2.03	0.41
4:FB:95:GLU:OE1	4:FB:95:GLU:N	2.51	0.41
4:DC:66:VAL:HG12	4:DC:99:ILE:HG12	2.02	0.41
1:AD:517:GLN:O	1:AD:520:GLN:HG3	2.19	0.41
1:AD:523:ALA:HA	1:AD:526:ARG:HG2	2.03	0.41
3:CD:69:LEU:HB2	3:CD:77:PRO:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DD:96:PRO:HB2	4:DD:108:GLN:HG3	2.02	0.41
3:CE:107:LEU:HD11	3:CE:219:LEU:HD22	2.01	0.41
4:DE:96:PRO:HB2	4:DE:108:GLN:HG3	2.01	0.41
4:EE:118:TYR:CG	4:FE:68:LEU:HD21	2.55	0.41
1:AF:536:ILE:HA	1:AF:539:MET:HE3	2.02	0.41
3:CG:108:LYS:O	3:CG:175:LEU:HB2	2.21	0.41
3:CH:38:TYR:HB2	4:EH:113:VAL:HB	2.03	0.41
4:EH:58:MET:SD	4:FH:75:ILE:HG13	2.61	0.41
4:EH:68:LEU:HD12	4:EH:97:LEU:HD21	2.02	0.41
3:CI:57:ILE:HG21	3:CI:169:TRP:CD1	2.55	0.41
2:BJ:167:VAL:HG13	2:BJ:172:LEU:HD23	2.02	0.41
3:CJ:313:TYR:HB3	4:DJ:68:LEU:HD21	2.01	0.41
4:DJ:98:ASP:OD1	4:DJ:99:ILE:N	2.53	0.41
3:CK:313:TYR:HB3	4:DK:68:LEU:HD21	2.01	0.41
4:EK:77:GLU:HG3	4:EK:80:ARG:NH2	2.35	0.41
2:BL:134:LEU:HD13	2:BL:146:LEU:HD11	2.02	0.41
3:CL:38:TYR:HB2	4:EL:113:VAL:HB	2.03	0.41
3:CM:258:GLU:HA	4:DM:74:THR:HA	2.01	0.41
2:BN:167:VAL:HG13	2:BN:172:LEU:HD23	2.02	0.41
3:CN:69:LEU:HB2	3:CN:77:PRO:HG3	2.02	0.41
4:EN:75:ILE:O	4:EN:79:LEU:HG	2.20	0.41
4:EN:76:LYS:NZ	4:FN:58:MET:O	2.44	0.41
2:BO:250:LEU:O	2:BO:254:VAL:HG12	2.20	0.41
2:BP:133:ILE:HD11	2:BP:175:LEU:HD11	2.02	0.41
1:AQ:547:VAL:HG13	2:BQ:25:VAL:HG22	2.01	0.41
3:CR:169:TRP:HH2	3:CR:231:LEU:HD11	1.85	0.41
2:BS:167:VAL:HG13	2:BS:172:LEU:HD23	2.02	0.41
1:AT:522:ARG:HD3	2:BU:64:GLU:HG3	2.02	0.41
2:BT:150:ASP:OD1	2:BT:153:LEU:HB3	2.21	0.41
2:BT:166:GLY:O	3:CT:132:GLY:HA2	2.19	0.41
3:CT:279:LYS:HD3	3:CT:279:LYS:HA	1.83	0.41
4:DT:101:ILE:HG22	4:DT:106:ILE:HB	2.01	0.41
3:CU:112:GLY:HA3	3:CU:223:MET:HE3	2.02	0.41
3:CU:271:ARG:O	3:CU:275:ILE:HG12	2.20	0.41
1:AV:540:SER:OG	2:BV:21:ARG:HD3	2.20	0.41
3:CV:69:LEU:HB2	3:CV:77:PRO:HG3	2.02	0.41
3:CX:108:LYS:O	3:CX:175:LEU:HB2	2.20	0.41
4:EY:106:ILE:HD12	4:EY:125:ILE:HD11	2.03	0.41
3:C1:57:ILE:HG21	3:C1:169:TRP:CD1	2.55	0.41
4:E1:74:THR:HG22	4:E1:75:ILE:N	2.35	0.41
1:A2:540:SER:OG	2:B2:21:ARG:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:113:MET:SD	2:B2:118:ALA:HB2	2.61	0.41
3:C2:247:ARG:CZ	4:E3:79:LEU:HB3	2.50	0.41
3:C2:267:ASP:OD1	4:D2:63:LYS:HD2	2.20	0.41
2:B3:53:THR:HA	2:B3:56:LEU:HD21	2.01	0.41
2:B3:81:LEU:HD13	2:B3:93:LEU:HB2	2.02	0.41
2:B3:201:GLU:HA	2:B3:204:ASN:ND2	2.31	0.41
3:C3:134:ASP:OD1	3:C3:136:ARG:HG2	2.19	0.41
3:C3:240:ARG:N	3:C3:242:GLU:OE1	2.44	0.41
2:B4:158:MET:HG3	2:B4:159:LEU:N	2.35	0.41
3:C4:267:ASP:OD1	4:D4:63:LYS:HD2	2.20	0.41
4:E4:119:GLY:HA2	4:F4:89:LEU:HD13	2.02	0.41
1:A5:558:ASP:OD1	2:B5:6:GLY:HA3	2.20	0.41
2:B6:4:LEU:HD23	2:B6:4:LEU:HA	1.91	0.41
2:B6:167:VAL:HG13	2:B6:172:LEU:HD23	2.03	0.41
3:C6:271:ARG:O	3:C6:275:ILE:HG12	2.20	0.41
4:D6:66:VAL:HG12	4:D6:99:ILE:HG12	2.01	0.41
4:E6:75:ILE:HG12	4:F6:60:ILE:O	2.21	0.41
1:A7:532:MET:HE1	2:B7:56:LEU:HB2	2.01	0.41
4:D7:56:LEU:H	4:D7:56:LEU:HD23	1.84	0.41
4:E7:76:LYS:HA	4:E7:76:LYS:HD3	1.95	0.41
3:C8:179:TYR:OH	3:C8:182:SER:OG	2.25	0.41
4:F8:95:GLU:OE1	4:F8:95:GLU:N	2.51	0.41
3:C9:38:TYR:HB2	4:E9:113:VAL:HB	2.03	0.41
3:C9:313:TYR:HB3	4:D9:68:LEU:HD21	2.01	0.41
4:F9:64:LEU:HD23	4:F9:64:LEU:H	1.85	0.41
2:BA:250:LEU:O	2:BA:254:VAL:HG12	2.19	0.41
3:CA:38:TYR:HB2	4:EA:113:VAL:HB	2.03	0.41
3:CA:179:TYR:OH	3:CA:182:SER:OG	2.25	0.41
3:CA:260:GLU:HA	4:DA:72:ARG:NH2	2.36	0.41
1:AB:523:ALA:HA	1:AB:526:ARG:HG2	2.03	0.41
3:CB:101:ASN:HB3	3:CB:118:PHE:HB2	2.01	0.41
2:BD:46:GLN:CD	2:BE:70:ASN:HD22	2.24	0.41
2:BD:250:LEU:O	2:BD:254:VAL:HG12	2.21	0.41
3:CD:249:ASN:HB3	4:FE:125:ILE:HD13	2.02	0.41
4:ED:118:TYR:CE2	4:FD:93:ALA:HA	2.56	0.41
1:AF:517:GLN:O	1:AF:520:GLN:HG3	2.20	0.41
1:AG:516:GLU:HA	1:AG:519:GLN:HG2	2.03	0.41
2:BG:203:ILE:HG22	2:BG:211:GLU:HB2	2.02	0.41
2:BG:308:ILE:O	2:BG:312:VAL:HG23	2.19	0.41
4:EG:99:ILE:HG12	4:EG:120:VAL:HG21	2.02	0.41
2:BH:253:GLU:HG3	2:BH:315:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:179:TYR:OH	3:CH:182:SER:OG	2.23	0.41
4:DI:56:LEU:H	4:DI:56:LEU:HD23	1.84	0.41
2:BJ:46:GLN:NE2	2:BK:68:ALA:O	2.33	0.41
3:CJ:101:ASN:HB3	3:CJ:118:PHE:HB2	2.02	0.41
3:CK:247:ARG:HH12	4:EL:79:LEU:HD22	1.85	0.41
3:CK:267:ASP:OD1	4:DK:63:LYS:HD2	2.20	0.41
2:BL:135:VAL:HG11	2:BM:194:GLY:HA3	2.02	0.41
3:CL:313:TYR:HB3	4:DL:68:LEU:HD21	2.02	0.41
4:DL:98:ASP:OD1	4:DL:99:ILE:N	2.53	0.41
4:EL:74:THR:HG22	4:EL:75:ILE:N	2.35	0.41
4:EM:74:THR:HA	4:FM:61:PRO:HA	2.02	0.41
4:EM:75:ILE:O	4:EM:79:LEU:HG	2.20	0.41
4:FN:134:ARG:HA	4:FN:137:ARG:HH12	1.84	0.41
2:BO:48:SER:HB3	2:BP:66:PHE:HD1	1.85	0.41
4:FO:67:GLU:HG2	4:FO:100:LEU:HD13	2.02	0.41
2:BP:5:SER:O	2:BP:9:LYS:HG3	2.21	0.41
2:BP:13:LEU:HD13	2:BP:59:PHE:CD1	2.56	0.41
3:CP:271:ARG:O	3:CP:275:ILE:HG12	2.21	0.41
2:BQ:212:GLU:HA	2:BQ:215:ILE:HG12	2.00	0.41
2:BQ:239:LEU:HD23	2:BQ:239:LEU:HA	1.85	0.41
2:BQ:250:LEU:O	2:BQ:254:VAL:HG12	2.20	0.41
2:BQ:300:GLN:O	2:BQ:304:GLU:HG2	2.20	0.41
3:CQ:38:TYR:HB2	4:EQ:113:VAL:HB	2.02	0.41
3:CQ:302:LEU:HD13	3:CQ:317:VAL:HG13	2.01	0.41
4:DQ:56:LEU:H	4:DQ:56:LEU:HD23	1.84	0.41
2:BR:13:LEU:HD13	2:BR:59:PHE:CD1	2.55	0.41
2:BR:245:ARG:NH2	2:BR:321:MET:HB3	2.32	0.41
2:BR:261:ILE:HG22	2:BR:301:VAL:HA	2.03	0.41
3:CR:38:TYR:HB2	4:ER:113:VAL:HB	2.02	0.41
3:CR:271:ARG:O	3:CR:275:ILE:HG12	2.20	0.41
4:ES:71:THR:O	4:FS:64:LEU:HG	2.20	0.41
4:ES:130:GLU:OE1	4:ES:130:GLU:N	2.52	0.41
3:CT:69:LEU:HB2	3:CT:77:PRO:HG3	2.02	0.41
3:CV:179:TYR:OH	3:CV:182:SER:OG	2.25	0.41
4:DV:66:VAL:HG12	4:DV:99:ILE:HG12	2.02	0.41
4:EV:99:ILE:HG12	4:EV:120:VAL:HG21	2.02	0.41
3:CW:279:LYS:HA	3:CW:279:LYS:HD3	1.83	0.41
4:EX:127:THR:HG23	4:EX:130:GLU:OE2	2.20	0.41
2:BY:13:LEU:HD13	2:BY:59:PHE:CD1	2.56	0.41
2:BY:30:SER:O	2:BY:34:VAL:HG23	2.20	0.41
4:EY:118:TYR:CE2	4:FY:93:ALA:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:265:PHE:HA	3:C2:292:ILE:HD12	2.03	0.41
2:B3:300:GLN:O	2:B3:304:GLU:HG2	2.21	0.41
3:C3:233:ASN:HA	3:C3:234:PRO:HD3	1.93	0.41
3:C3:313:TYR:HB3	4:D3:68:LEU:HD21	2.01	0.41
2:B4:250:LEU:O	2:B4:254:VAL:HG12	2.20	0.41
3:C4:101:ASN:HB3	3:C4:118:PHE:HB2	2.03	0.41
4:E5:128:PRO:HB3	4:E5:131:ARG:HE	1.86	0.41
1:A6:516:GLU:HA	1:A6:519:GLN:HG2	2.03	0.41
3:C7:54:LEU:HB2	3:C7:231:LEU:HD23	2.01	0.41
1:A8:517:GLN:O	1:A8:520:GLN:HG3	2.20	0.41
3:C8:230:LEU:HD23	3:C8:230:LEU:HA	1.91	0.41
2:B9:166:GLY:O	2:BA:190:ARG:NE	2.32	0.41
3:C9:260:GLU:HA	4:D9:72:ARG:NH2	2.35	0.41
1:AA:555:MET:SD	2:BA:33:GLU:HB3	2.60	0.41
4:DA:108:GLN:HB3	4:DA:124:ASP:OD1	2.21	0.41
4:EA:118:TYR:CE2	4:FA:93:ALA:HA	2.56	0.41
2:BB:207:LYS:HG3	2:BB:209:GLN:H	1.85	0.41
2:BC:167:VAL:HG13	2:BC:172:LEU:HD23	2.03	0.41
4:FC:95:GLU:OE1	4:FC:95:GLU:N	2.51	0.41
4:FC:105:LEU:CD2	4:FC:126:ILE:HD13	2.51	0.41
4:ED:75:ILE:HG13	4:FD:58:MET:HG2	2.03	0.41
2:BE:4:LEU:HD23	2:BE:4:LEU:HA	1.90	0.41
3:CE:233:ASN:HA	3:CE:234:PRO:HD3	1.93	0.41
4:FE:108:GLN:OE1	4:FE:134:ARG:NH2	2.54	0.41
1:AF:523:ALA:HA	1:AF:526:ARG:HG2	2.03	0.41
2:BF:201:GLU:HA	2:BF:204:ASN:HD22	1.85	0.41
4:EF:106:ILE:HD12	4:EF:125:ILE:HD11	2.03	0.41
4:DG:96:PRO:HB2	4:DG:108:GLN:HG3	2.02	0.41
4:DG:106:ILE:O	4:DG:126:ILE:HG12	2.19	0.41
4:EG:93:ALA:HB3	4:FG:116:ASP:OD1	2.21	0.41
4:EG:119:GLY:HA2	4:FG:89:LEU:HD13	2.02	0.41
3:CH:53:ALA:HB1	3:CH:172:ILE:HD13	2.02	0.41
4:DI:64:LEU:HD13	4:DI:101:ILE:HB	2.01	0.41
2:BJ:253:GLU:HG3	2:BJ:315:LEU:HD11	2.01	0.41
3:CJ:69:LEU:HB2	3:CJ:77:PRO:HG3	2.02	0.41
3:CJ:267:ASP:OD1	4:DJ:63:LYS:HD2	2.20	0.41
4:EJ:117:LYS:HA	4:EJ:117:LYS:HD2	1.71	0.41
1:AK:549:LEU:O	1:AK:552:ARG:HB2	2.21	0.41
3:CK:38:TYR:HB2	4:EK:113:VAL:HB	2.03	0.41
1:AL:516:GLU:HA	1:AL:519:GLN:HG2	2.02	0.41
4:EL:71:THR:O	4:FL:64:LEU:HD23	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DM:66:VAL:HG12	4:DM:99:ILE:HG12	2.03	0.41
4:DM:96:PRO:HB2	4:DM:108:GLN:HG3	2.02	0.41
1:AN:516:GLU:HA	1:AN:519:GLN:HG2	2.03	0.41
3:CN:313:TYR:HB3	4:DN:68:LEU:HD21	2.01	0.41
2:BO:251:LEU:HD22	2:BO:278:MET:HG2	2.03	0.41
4:EO:58:MET:SD	4:FO:75:ILE:HG13	2.60	0.41
2:BP:249:ARG:NH1	2:BP:252:GLN:HB2	2.36	0.41
4:DP:79:LEU:HD23	4:DP:80:ARG:HH21	1.86	0.41
2:BQ:139:ARG:HA	2:BQ:139:ARG:HD3	1.78	0.41
2:BQ:166:GLY:O	3:CQ:132:GLY:HA2	2.19	0.41
4:EQ:99:ILE:HG12	4:EQ:120:VAL:HG21	2.01	0.41
4:ER:128:PRO:HB3	4:ER:131:ARG:HE	1.86	0.41
2:BS:308:ILE:O	2:BS:312:VAL:HG23	2.20	0.41
3:CS:96:LEU:HD23	3:CS:96:LEU:HA	1.93	0.41
4:DS:104:TYR:CD2	4:ES:61:PRO:HG3	2.56	0.41
4:FS:95:GLU:OE1	4:FS:95:GLU:N	2.51	0.41
2:BT:200:ALA:HA	2:BT:203:ILE:HD12	2.03	0.41
3:CT:38:TYR:HB2	4:ET:113:VAL:HB	2.02	0.41
3:CT:247:ARG:HH12	4:EU:79:LEU:HD22	1.84	0.41
1:AW:529:ALA:O	1:AW:533:SER:OG	2.33	0.41
2:BW:312:VAL:HG13	2:BW:321:MET:SD	2.60	0.41
4:DW:96:PRO:HB2	4:DW:108:GLN:HG3	2.02	0.41
1:AX:516:GLU:HA	1:AX:519:GLN:HG2	2.02	0.41
1:AX:522:ARG:HD3	2:BY:64:GLU:HG3	2.03	0.41
2:BX:5:SER:O	2:BX:9:LYS:HG3	2.21	0.41
2:BX:167:VAL:HG13	2:BX:172:LEU:HD23	2.02	0.41
2:BY:123:ARG:HE	2:BY:123:ARG:HB2	1.75	0.41
3:CY:153:VAL:HG12	3:CY:157:MET:HE2	2.02	0.41
4:DY:104:TYR:CE2	4:EY:61:PRO:HG3	2.54	0.41
3:C2:69:LEU:HB2	3:C2:77:PRO:HG3	2.02	0.41
3:C2:246:TRP:HZ2	4:F3:122:ILE:HD12	1.84	0.41
2:B4:4:LEU:HD23	2:B4:4:LEU:HA	1.90	0.41
3:C4:38:TYR:HB2	4:E4:113:VAL:HB	2.02	0.41
3:C4:159:LYS:O	3:C4:162:LEU:HG	2.21	0.41
3:C4:240:ARG:N	3:C4:242:GLU:OE1	2.44	0.41
3:C4:272:LEU:HB2	4:D4:60:ILE:HB	2.03	0.41
4:D4:108:GLN:HB3	4:D4:124:ASP:OD1	2.21	0.41
4:E4:99:ILE:HG12	4:E4:120:VAL:HG21	2.03	0.41
3:C5:259:LEU:HD21	4:F6:60:ILE:HG21	2.02	0.41
4:E5:71:THR:O	4:F5:64:LEU:HD23	2.20	0.41
1:A6:517:GLN:O	1:A6:520:GLN:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C6:272:LEU:HD12	3:C6:272:LEU:HA	1.94	0.41
4:F6:71:THR:HG1	4:F6:89:LEU:HA	1.85	0.41
1:A7:523:ALA:HA	1:A7:526:ARG:HG2	2.03	0.41
2:B7:167:VAL:HG13	2:B7:172:LEU:HD23	2.03	0.41
3:C7:69:LEU:HB2	3:C7:77:PRO:HG3	2.01	0.41
4:D7:64:LEU:HD13	4:D7:101:ILE:HB	2.03	0.41
2:B8:249:ARG:NH1	2:B8:252:GLN:HB2	2.35	0.41
2:B8:250:LEU:O	2:B8:254:VAL:HG12	2.21	0.41
3:C8:169:TRP:HH2	3:C8:231:LEU:HD11	1.84	0.41
4:D8:106:ILE:HD13	4:E8:60:ILE:HD11	2.01	0.41
1:A9:517:GLN:O	1:A9:520:GLN:HG3	2.19	0.41
3:C9:57:ILE:HD12	3:C9:168:ALA:O	2.21	0.41
3:C9:112:GLY:HA3	3:C9:223:MET:HE3	2.02	0.41
3:C9:247:ARG:HH12	4:EA:79:LEU:HD22	1.86	0.41
4:E9:118:TYR:CE2	4:F9:93:ALA:HA	2.55	0.41
1:AA:523:ALA:HA	1:AA:526:ARG:HG2	2.03	0.41
4:FA:95:GLU:OE1	4:FA:95:GLU:N	2.52	0.41
4:EC:99:ILE:HG12	4:EC:120:VAL:HG21	2.03	0.41
2:BD:78:ARG:HA	2:BD:94:LEU:HD11	2.03	0.41
2:BD:126:HIS:HB3	2:BD:129:ILE:HG12	2.03	0.41
3:CD:54:LEU:HB2	3:CD:231:LEU:HD23	2.02	0.41
4:ED:58:MET:C	4:FD:76:LYS:HZ1	2.24	0.41
1:AE:523:ALA:HA	1:AE:526:ARG:HG2	2.03	0.41
2:BE:78:ARG:HA	2:BE:94:LEU:HD11	2.02	0.41
2:BE:158:MET:O	2:BE:161:ILE:HB	2.21	0.41
4:EE:74:THR:HG22	4:EE:75:ILE:N	2.35	0.41
4:EE:74:THR:HA	4:FE:61:PRO:HA	2.02	0.41
3:CF:179:TYR:OH	3:CF:182:SER:OG	2.26	0.41
2:BG:201:GLU:HA	2:BG:204:ASN:ND2	2.28	0.41
3:CH:153:VAL:HG12	3:CH:157:MET:HE2	2.02	0.41
4:EH:118:TYR:CE2	4:FH:93:ALA:HA	2.56	0.41
1:AI:558:ASP:OD1	2:BI:6:GLY:HA3	2.21	0.41
2:BI:103:THR:HG21	2:BI:109:THR:CG2	2.50	0.41
2:BI:133:ILE:HD13	2:BI:133:ILE:HA	1.93	0.41
2:BK:158:MET:CE	2:BL:214:VAL:HG13	2.51	0.41
4:DK:96:PRO:HB2	4:DK:108:GLN:HG3	2.02	0.41
4:DK:105:LEU:HB2	4:DK:131:ARG:HE	1.85	0.41
4:DK:129:SER:O	4:DK:133:ARG:HD3	2.21	0.41
4:FK:101:ILE:O	4:FK:102:ASN:OD1	2.38	0.41
1:AL:523:ALA:HA	1:AL:526:ARG:HG2	2.03	0.41
1:AL:547:VAL:HG23	2:BL:59:PHE:CZ	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:103:THR:HG21	2:BL:109:THR:CG2	2.49	0.41
2:BM:253:GLU:HG3	2:BM:315:LEU:HD11	2.01	0.41
1:AN:517:GLN:O	1:AN:520:GLN:HG3	2.19	0.41
1:AN:549:LEU:O	1:AN:552:ARG:HB2	2.21	0.41
2:BN:230:ILE:O	2:BN:233:MET:HB2	2.20	0.41
3:CN:286:ILE:HG13	3:CN:287:GLU:O	2.21	0.41
3:CO:70:PHE:HA	3:CO:75:ARG:O	2.19	0.41
3:CO:101:ASN:HB3	3:CO:118:PHE:HB2	2.02	0.41
3:CO:234:PRO:O	3:CO:236:LEU:N	2.46	0.41
3:CP:54:LEU:HB2	3:CP:231:LEU:HD23	2.02	0.41
3:CP:56:ILE:HD11	3:CQ:188:PHE:CD1	2.54	0.41
3:CQ:279:LYS:HA	4:DQ:125:ILE:HD11	2.01	0.41
4:EQ:127:THR:HG23	4:EQ:130:GLU:OE2	2.21	0.41
2:BR:5:SER:O	2:BR:9:LYS:HG3	2.21	0.41
2:BR:300:GLN:O	2:BR:304:GLU:HG2	2.20	0.41
1:AS:516:GLU:HA	1:AS:519:GLN:HG2	2.02	0.41
2:BS:13:LEU:HD13	2:BS:59:PHE:CD1	2.56	0.41
2:BS:46:GLN:HG2	1:AT:549:LEU:HD13	2.01	0.41
3:CS:314:ALA:HA	4:DS:88:ALA:HA	2.03	0.41
4:ES:117:LYS:HA	4:ES:117:LYS:HD2	1.71	0.41
2:BT:300:GLN:O	2:BT:304:GLU:HG2	2.20	0.41
3:CT:230:LEU:HD23	3:CT:230:LEU:HA	1.90	0.41
4:EU:99:ILE:HG12	4:EU:120:VAL:HG21	2.02	0.41
2:BV:42:ALA:CB	2:BW:97:ILE:HG23	2.51	0.41
2:BW:161:ILE:HG22	2:BX:199:ALA:HB2	2.03	0.41
4:EW:68:LEU:HD12	4:EW:97:LEU:HD21	2.02	0.41
1:AX:537:ARG:HG2	2:BX:17:ILE:O	2.20	0.41
2:BX:166:GLY:O	3:CX:132:GLY:HA2	2.19	0.41
2:BX:245:ARG:NH1	2:BX:249:ARG:HB2	2.36	0.41
4:DX:129:SER:O	4:DX:133:ARG:HD3	2.20	0.41
4:FX:65:THR:HG23	4:FX:100:LEU:HB2	2.02	0.41
3:CY:152:ARG:HA	3:CY:152:ARG:HD2	1.93	0.41
4:EY:118:TYR:CG	4:FY:68:LEU:HD21	2.55	0.41
3:C1:38:TYR:HB2	4:E1:113:VAL:HB	2.02	0.41
4:D1:68:LEU:HA	4:D1:97:LEU:HD23	2.03	0.41
2:B2:17:ILE:O	2:B2:21:ARG:HD2	2.20	0.41
3:C2:240:ARG:N	3:C2:242:GLU:OE1	2.44	0.41
4:D2:101:ILE:HG22	4:D2:106:ILE:HB	2.03	0.41
4:E2:68:LEU:HD12	4:E2:97:LEU:HD21	2.01	0.41
2:B3:150:ASP:OD1	2:B3:153:LEU:HB3	2.21	0.41
3:C3:272:LEU:HB2	4:D3:60:ILE:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:279:LYS:HA	3:C3:279:LYS:HD3	1.83	0.41
4:E3:74:THR:HG22	4:E3:75:ILE:N	2.35	0.41
4:D4:105:LEU:HB2	4:D4:131:ARG:HE	1.86	0.41
1:A5:522:ARG:HD3	2:B6:64:GLU:HG3	2.03	0.41
4:E5:71:THR:HA	4:E5:90:ASP:OD2	2.20	0.41
1:A6:544:PRO:HA	1:A6:547:VAL:HG12	2.03	0.41
2:B6:42:ALA:CB	2:B7:97:ILE:HG23	2.50	0.41
2:B7:48:SER:HB3	2:B8:66:PHE:HD1	1.85	0.41
2:B7:251:LEU:HD22	2:B7:278:MET:HG2	2.03	0.41
2:B8:5:SER:O	2:B8:9:LYS:HG3	2.21	0.41
2:B8:167:VAL:HG13	2:B8:172:LEU:HD23	2.03	0.41
2:B9:161:ILE:HG22	2:BA:199:ALA:HB2	2.03	0.41
2:B9:263:LEU:O	2:B9:271:ARG:HD3	2.21	0.41
3:C9:86:ILE:HD13	3:C9:200:VAL:HG22	2.03	0.41
4:D9:68:LEU:HA	4:D9:97:LEU:HD23	2.03	0.41
4:D9:108:GLN:HB3	4:D9:124:ASP:OD1	2.21	0.41
4:E9:127:THR:HG23	4:E9:130:GLU:OE2	2.20	0.41
1:AC:516:GLU:HA	1:AC:519:GLN:HG2	2.03	0.41
2:BC:30:SER:O	2:BC:34:VAL:HG23	2.21	0.41
2:BC:207:LYS:HG3	2:BC:209:GLN:H	1.85	0.41
2:BC:250:LEU:O	2:BC:254:VAL:HG12	2.21	0.41
3:CC:159:LYS:O	3:CC:162:LEU:HG	2.20	0.41
3:CC:253:GLN:HE22	4:FD:126:ILE:HG13	1.86	0.41
2:BD:13:LEU:HD13	2:BD:59:PHE:CD1	2.56	0.41
2:BD:30:SER:O	2:BD:34:VAL:HG23	2.21	0.41
2:BD:167:VAL:HG13	2:BD:172:LEU:HD23	2.03	0.41
2:BD:263:LEU:O	2:BD:271:ARG:HD3	2.21	0.41
2:BE:166:GLY:O	3:CE:132:GLY:HA2	2.21	0.41
4:DE:75:ILE:H	4:DE:75:ILE:HD12	1.85	0.41
1:AF:555:MET:SD	2:BF:33:GLU:HB3	2.61	0.41
2:BF:11:VAL:O	2:BF:15:MET:HG2	2.20	0.41
3:CF:253:GLN:NE2	4:FG:126:ILE:HG13	2.36	0.41
4:EF:71:THR:O	4:FF:64:LEU:HD23	2.20	0.41
1:AG:517:GLN:O	1:AG:520:GLN:HG3	2.19	0.41
1:AG:523:ALA:HA	1:AG:526:ARG:HG2	2.03	0.41
4:DG:105:LEU:HB2	4:DG:131:ARG:HE	1.86	0.41
4:EG:58:MET:O	4:EG:58:MET:SD	2.79	0.41
4:EH:74:THR:HA	4:FH:61:PRO:HA	2.03	0.41
4:EH:127:THR:HG23	4:EH:130:GLU:OE2	2.20	0.41
1:AI:517:GLN:O	1:AI:520:GLN:HG3	2.19	0.41
2:BI:249:ARG:NH1	2:BI:252:GLN:HB2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:267:ASP:OD1	4:DI:63:LYS:HD2	2.21	0.41
4:DI:66:VAL:HG12	4:DI:99:ILE:HG12	2.02	0.41
3:CJ:260:GLU:HA	4:DJ:72:ARG:HH22	1.85	0.41
4:DJ:96:PRO:HB2	4:DJ:108:GLN:HG3	2.02	0.41
2:BL:245:ARG:NH1	2:BL:249:ARG:HB2	2.35	0.41
4:FL:95:GLU:OE1	4:FL:95:GLU:N	2.51	0.41
2:BM:93:LEU:O	2:BM:97:ILE:HG12	2.19	0.41
2:BM:239:LEU:HA	2:BM:239:LEU:HD23	1.82	0.41
3:CM:239:SER:HB3	3:CM:243:ASP:CG	2.41	0.41
3:CM:313:TYR:HB3	4:DM:68:LEU:HD21	2.01	0.41
4:DM:64:LEU:HD13	4:DM:101:ILE:HB	2.02	0.41
4:FM:95:GLU:OE1	4:FM:95:GLU:N	2.51	0.41
3:CN:38:TYR:HB2	4:EN:113:VAL:HB	2.03	0.41
3:CN:271:ARG:O	3:CN:275:ILE:HG12	2.20	0.41
4:EN:58:MET:SD	4:FN:75:ILE:HG13	2.61	0.41
4:FN:100:LEU:HA	4:FN:105:LEU:HA	2.03	0.41
2:BO:166:GLY:O	3:CO:132:GLY:HA2	2.20	0.41
2:BP:4:LEU:HD23	2:BP:4:LEU:HA	1.90	0.41
2:BP:96:ASP:O	2:BP:100:THR:HG23	2.21	0.41
1:AQ:534:GLN:O	1:AQ:538:GLU:HG2	2.21	0.41
3:CQ:54:LEU:HD23	3:CQ:84:ILE:HD13	2.03	0.41
2:BR:230:ILE:O	2:BR:233:MET:HB2	2.21	0.41
4:DS:98:ASP:OD1	4:DS:99:ILE:N	2.53	0.41
4:DS:108:GLN:HB3	4:DS:124:ASP:OD1	2.21	0.41
4:FS:71:THR:HG1	4:FS:89:LEU:HA	1.85	0.41
3:CT:313:TYR:HB3	4:DT:68:LEU:HD21	2.03	0.41
4:ET:127:THR:HG23	4:ET:130:GLU:OE2	2.20	0.41
3:CU:69:LEU:HB2	3:CU:77:PRO:HG3	2.01	0.41
4:DU:129:SER:O	4:DU:133:ARG:HD3	2.21	0.41
4:EU:118:TYR:CE2	4:FU:93:ALA:HA	2.56	0.41
1:AV:536:ILE:HD13	1:AV:539:MET:CE	2.51	0.41
2:BW:239:LEU:HD23	2:BW:239:LEU:HA	1.86	0.41
2:BW:263:LEU:O	2:BW:271:ARG:HD3	2.21	0.41
3:CW:38:TYR:HB2	4:EW:113:VAL:HB	2.02	0.41
1:AX:517:GLN:O	1:AX:520:GLN:HG3	2.20	0.41
3:CX:222:SER:HA	3:CX:225:GLU:CG	2.51	0.41
2:BY:113:MET:HE1	2:BY:117:SER:HB2	2.03	0.41
2:BY:234:PHE:CE2	2:BY:309:LEU:HD22	2.56	0.41
3:CY:258:GLU:HA	4:DY:74:THR:HA	2.02	0.41
4:FY:65:THR:HG23	4:FY:100:LEU:HB2	2.03	0.41
1:A1:554:TRP:HA	1:A1:557:ASN:HD21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:250:LEU:O	2:B1:254:VAL:HG12	2.21	0.41
4:D1:106:ILE:HD13	4:E1:60:ILE:HD11	2.01	0.41
4:D1:106:ILE:O	4:D1:126:ILE:HG12	2.21	0.41
4:E1:79:LEU:HB3	3:CY:247:ARG:CZ	2.51	0.41
3:C3:38:TYR:HB2	4:E3:113:VAL:HB	2.02	0.41
2:B4:167:VAL:HG13	2:B4:172:LEU:HD23	2.03	0.41
3:C4:265:PHE:HA	3:C4:292:ILE:HD12	2.03	0.41
1:A5:523:ALA:HA	1:A5:526:ARG:HG2	2.03	0.41
2:B5:207:LYS:HG3	2:B5:209:GLN:H	1.85	0.41
3:C5:272:LEU:HB2	4:D5:60:ILE:HB	2.03	0.41
2:B6:10:SER:HA	2:B6:13:LEU:HD12	2.03	0.41
2:B6:245:ARG:NH2	2:B6:321:MET:HB3	2.35	0.41
3:C6:274:GLN:O	3:C6:278:LEU:HB2	2.20	0.41
4:D6:68:LEU:HA	4:D6:97:LEU:HD23	2.03	0.41
4:E6:118:TYR:CE2	4:F6:93:ALA:HA	2.55	0.41
1:A7:516:GLU:HA	1:A7:519:GLN:HG2	2.02	0.41
4:E7:71:THR:O	4:F7:64:LEU:HD23	2.20	0.41
3:C8:86:ILE:HD13	3:C8:200:VAL:HG22	2.03	0.41
1:A9:516:GLU:HA	1:A9:519:GLN:HG2	2.03	0.41
4:D9:96:PRO:HB2	4:D9:108:GLN:HG3	2.02	0.41
4:D9:130:GLU:HG3	4:D9:134:ARG:HD2	2.02	0.41
1:AA:540:SER:OG	2:BA:21:ARG:HD3	2.20	0.41
2:BA:47:ILE:O	2:BB:68:ALA:HB3	2.21	0.41
2:BA:103:THR:OG1	2:BA:105:SER:O	2.29	0.41
3:CA:96:LEU:HD23	3:CA:96:LEU:HA	1.92	0.41
2:BB:158:MET:CE	2:BC:214:VAL:HA	2.49	0.41
2:BB:167:VAL:HG13	2:BB:172:LEU:HD23	2.03	0.41
2:BB:201:GLU:O	2:BB:204:ASN:HB2	2.21	0.41
3:CB:86:ILE:HD13	3:CB:200:VAL:HG22	2.03	0.41
3:CB:169:TRP:HH2	3:CB:231:LEU:HD11	1.86	0.41
2:BC:234:PHE:CE2	2:BC:309:LEU:HD22	2.56	0.41
3:CC:169:TRP:HH2	3:CC:231:LEU:HD11	1.86	0.41
3:CC:313:TYR:HB3	4:DC:68:LEU:HD21	2.02	0.41
4:EC:75:ILE:HG12	4:FC:60:ILE:O	2.20	0.41
3:CD:38:TYR:HB2	4:ED:113:VAL:HB	2.03	0.41
2:BE:133:ILE:HD11	2:BE:175:LEU:HD11	2.02	0.41
3:CE:230:LEU:HD23	3:CE:230:LEU:HA	1.90	0.41
3:CE:239:SER:HB3	3:CE:243:ASP:CG	2.41	0.41
4:EE:86:VAL:HA	4:FE:120:VAL:O	2.21	0.41
2:BF:300:GLN:O	2:BF:304:GLU:HG2	2.21	0.41
3:CF:169:TRP:HH2	3:CF:231:LEU:HD11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:274:GLN:O	3:CF:278:LEU:HB2	2.20	0.41
4:EF:75:ILE:HB	4:EF:76:LYS:NZ	2.36	0.41
2:BG:5:SER:O	2:BG:9:LYS:HG3	2.21	0.41
2:BG:97:ILE:HG22	2:BG:101:ARG:HH12	1.84	0.41
2:BG:123:ARG:HE	2:BG:123:ARG:HB2	1.75	0.41
2:BG:297:ARG:CZ	2:BH:328:ASP:HB3	2.51	0.41
4:FG:60:ILE:HD12	4:FG:60:ILE:HA	1.95	0.41
1:AH:517:GLN:O	1:AH:520:GLN:HG3	2.20	0.41
3:CH:54:LEU:HD23	3:CH:84:ILE:HD13	2.02	0.41
3:CH:267:ASP:OD1	4:DH:63:LYS:HD2	2.20	0.41
4:EH:93:ALA:HB3	4:FH:116:ASP:OD2	2.21	0.41
1:AI:523:ALA:HA	1:AI:526:ARG:HG2	2.03	0.41
3:CI:101:ASN:HB3	3:CI:118:PHE:HB2	2.02	0.41
1:AJ:516:GLU:HA	1:AJ:519:GLN:HG2	2.02	0.41
1:AJ:523:ALA:HA	1:AJ:526:ARG:HG2	2.03	0.41
2:BJ:300:GLN:O	2:BJ:304:GLU:HG2	2.21	0.41
3:CJ:54:LEU:HB2	3:CJ:231:LEU:HD23	2.03	0.41
1:AK:523:ALA:HA	1:AK:526:ARG:HG2	2.03	0.41
4:EK:74:THR:HG22	4:EK:75:ILE:N	2.35	0.41
4:FK:71:THR:OG1	4:FK:89:LEU:HA	2.21	0.41
2:BL:139:ARG:HA	2:BL:139:ARG:NE	2.36	0.41
4:EL:106:ILE:HD12	4:EL:125:ILE:HD11	2.03	0.41
3:CM:54:LEU:HB2	3:CM:231:LEU:HD23	2.03	0.41
3:CM:247:ARG:HH12	4:EN:79:LEU:HD22	1.86	0.41
3:CM:300:PRO:HD2	4:FM:132:MET:SD	2.61	0.41
3:CO:299:VAL:HA	4:FO:132:MET:CE	2.44	0.41
4:EO:93:ALA:HB3	4:FO:116:ASP:OD1	2.20	0.41
4:EO:118:TYR:CE2	4:FO:93:ALA:HA	2.55	0.41
2:BP:131:ALA:HB1	2:BP:161:ILE:HD13	2.02	0.41
3:CP:179:TYR:OH	3:CP:182:SER:OG	2.25	0.41
1:AQ:548:ALA:HA	2:BQ:25:VAL:HG13	2.02	0.41
2:BQ:11:VAL:O	2:BQ:15:MET:HG2	2.19	0.41
3:CQ:313:TYR:HB3	4:DQ:68:LEU:HD21	2.02	0.41
4:DQ:66:VAL:HG12	4:DQ:99:ILE:HG12	2.02	0.41
2:BR:14:LEU:HD13	2:BR:17:ILE:HD11	2.02	0.41
1:AS:517:GLN:O	1:AS:520:GLN:HG3	2.20	0.41
2:BS:103:THR:HG21	2:BS:109:THR:CG2	2.50	0.41
4:ES:58:MET:SD	4:FS:75:ILE:HG13	2.61	0.41
2:BT:17:ILE:O	2:BT:21:ARG:HD2	2.20	0.41
3:CT:240:ARG:N	3:CT:242:GLU:OE1	2.45	0.41
3:CT:271:ARG:O	3:CT:275:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FT:106:ILE:O	4:FT:126:ILE:HG12	2.20	0.41
3:CU:70:PHE:HA	3:CU:75:ARG:O	2.20	0.41
4:DU:78:LEU:HA	4:DU:81:LEU:HD23	2.02	0.41
2:BV:245:ARG:NH1	2:BV:249:ARG:HB2	2.36	0.41
2:BV:300:GLN:O	2:BV:304:GLU:HG2	2.21	0.41
3:CV:136:ARG:HG3	3:CV:137:PHE:HD1	1.85	0.41
4:EV:74:THR:HG22	4:EV:75:ILE:N	2.35	0.41
2:BW:146:LEU:O	2:BW:154:ARG:NE	2.46	0.41
3:CW:54:LEU:HB2	3:CW:231:LEU:HD23	2.01	0.41
3:CX:274:GLN:HG3	3:CX:277:LYS:HE3	2.03	0.41
1:AY:516:GLU:HA	1:AY:519:GLN:HG2	2.03	0.41
2:BY:166:GLY:O	3:CY:132:GLY:HA2	2.20	0.41
3:CY:233:ASN:HA	3:CY:234:PRO:HD3	1.93	0.41
4:DY:68:LEU:HA	4:DY:97:LEU:HD23	2.03	0.41
4:FY:71:THR:OG1	4:FY:89:LEU:HA	2.21	0.41
1:A1:516:GLU:HA	1:A1:519:GLN:HG2	2.02	0.41
1:A1:523:ALA:HA	1:A1:526:ARG:HG2	2.02	0.41
2:B1:103:THR:HG21	2:B1:109:THR:CG2	2.50	0.41
2:B1:263:LEU:O	2:B1:271:ARG:HD3	2.21	0.41
3:C1:69:LEU:HB2	3:C1:77:PRO:HG3	2.02	0.41
4:E1:71:THR:HA	4:E1:90:ASP:OD2	2.20	0.41
4:E1:71:THR:O	4:F1:64:LEU:HD23	2.21	0.41
4:F1:106:ILE:O	4:F1:126:ILE:HG12	2.20	0.41
2:B2:263:LEU:O	2:B2:271:ARG:HD3	2.21	0.41
3:C2:169:TRP:HH2	3:C2:231:LEU:HD11	1.85	0.41
4:D2:129:SER:O	4:D2:133:ARG:HD3	2.20	0.41
2:B3:41:MET:SD	2:B4:77:LEU:HD13	2.61	0.41
2:B3:85:LEU:HD22	2:B3:89:ARG:CZ	2.51	0.41
2:B3:113:MET:SD	2:B3:118:ALA:HB2	2.61	0.41
2:B3:158:MET:SD	2:B3:159:LEU:N	2.94	0.41
2:B3:242:VAL:O	2:B3:243:ASP:OD1	2.39	0.41
4:D3:108:GLN:HB3	4:D3:124:ASP:OD1	2.21	0.41
1:A4:517:GLN:O	1:A4:520:GLN:HG3	2.20	0.41
2:B4:209:GLN:HA	2:B4:212:GLU:CD	2.41	0.41
3:C4:314:ALA:HA	4:D4:88:ALA:HA	2.03	0.41
2:B5:167:VAL:HG13	2:B5:172:LEU:HD23	2.03	0.41
3:C5:267:ASP:OD1	4:D5:63:LYS:HD2	2.20	0.41
4:D5:78:LEU:HA	4:D5:81:LEU:HD23	2.03	0.41
4:D5:106:ILE:HD13	4:E5:60:ILE:HD11	2.01	0.41
1:A6:532:MET:CG	2:B6:56:LEU:HD13	2.51	0.41
2:B6:5:SER:O	2:B6:9:LYS:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:300:GLN:O	2:B6:304:GLU:HG2	2.21	0.41
3:C6:38:TYR:HB2	4:E6:113:VAL:HB	2.03	0.41
3:C6:253:GLN:NE2	4:F7:126:ILE:HG13	2.36	0.41
3:C6:267:ASP:OD1	4:D6:63:LYS:HD2	2.20	0.41
3:C6:286:ILE:HG13	3:C6:287:GLU:O	2.21	0.41
4:D6:96:PRO:HB2	4:D6:108:GLN:HG3	2.02	0.41
2:B7:30:SER:O	2:B7:34:VAL:HG23	2.21	0.41
2:B7:42:ALA:HB3	2:B8:101:ARG:HH21	1.86	0.41
3:C7:233:ASN:HA	3:C7:234:PRO:HD3	1.93	0.41
3:C7:240:ARG:N	3:C7:242:GLU:OE1	2.44	0.41
3:C7:286:ILE:HG13	3:C7:287:GLU:O	2.20	0.41
2:B8:300:GLN:O	2:B8:304:GLU:HG2	2.21	0.41
3:C8:38:TYR:H	4:E8:112:VAL:HA	1.86	0.41
3:C8:54:LEU:HB2	3:C8:231:LEU:HD23	2.02	0.41
3:C8:271:ARG:O	3:C8:275:ILE:HG12	2.20	0.41
4:D8:96:PRO:HB2	4:D8:108:GLN:HG3	2.02	0.41
4:E8:68:LEU:HD12	4:E8:97:LEU:HD21	2.02	0.41
4:E8:71:THR:HA	4:E8:90:ASP:OD2	2.20	0.41
4:E8:74:THR:HA	4:F8:61:PRO:HA	2.03	0.41
3:C9:272:LEU:HB2	4:D9:60:ILE:HB	2.02	0.41
4:E9:68:LEU:HD12	4:E9:97:LEU:HD21	2.03	0.41
4:E9:74:THR:HG22	4:E9:75:ILE:N	2.35	0.41
4:F9:106:ILE:O	4:F9:126:ILE:HG12	2.20	0.41
2:BA:5:SER:O	2:BA:9:LYS:HG3	2.21	0.41
2:BA:101:ARG:HA	2:BA:101:ARG:HD3	1.89	0.41
2:BA:146:LEU:O	2:BA:154:ARG:NE	2.49	0.41
2:BA:169:PRO:O	2:BA:172:LEU:HG	2.21	0.41
2:BA:200:ALA:HA	2:BA:203:ILE:HD12	2.02	0.41
3:CA:65:PHE:CE1	3:CA:161:ALA:HB2	2.56	0.41
4:EA:71:THR:HA	4:EA:90:ASP:OD2	2.21	0.41
2:BB:13:LEU:HD13	2:BB:59:PHE:CD1	2.56	0.41
2:BB:131:ALA:HB1	2:BB:161:ILE:HD13	2.03	0.41
2:BB:250:LEU:O	2:BB:254:VAL:HG12	2.20	0.41
3:CB:57:ILE:HD12	3:CB:168:ALA:O	2.21	0.41
1:AC:517:GLN:O	1:AC:520:GLN:HG3	2.20	0.41
2:BC:300:GLN:O	2:BC:304:GLU:HG2	2.21	0.41
3:CC:271:ARG:O	3:CC:275:ILE:HG12	2.21	0.41
1:AD:516:GLU:HA	1:AD:519:GLN:HG2	2.02	0.41
2:BD:5:SER:O	2:BD:9:LYS:HG3	2.21	0.41
2:BD:81:LEU:HD13	2:BD:93:LEU:HB2	2.03	0.41
2:BD:245:ARG:NH1	2:BD:249:ARG:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:86:ILE:HD13	3:CD:200:VAL:HG22	2.03	0.41
4:FD:76:LYS:HA	4:FD:76:LYS:HD3	1.92	0.41
4:FD:95:GLU:OE1	4:FD:95:GLU:N	2.51	0.41
3:CE:118:PHE:CZ	3:CE:157:MET:HG3	2.56	0.41
1:AF:516:GLU:HA	1:AF:519:GLN:HG2	2.03	0.41
1:AF:540:SER:OG	2:BF:21:ARG:HD3	2.20	0.41
2:BF:166:GLY:O	2:BG:190:ARG:NE	2.31	0.41
2:BF:263:LEU:O	2:BF:271:ARG:HD3	2.21	0.41
4:EF:76:LYS:NZ	4:FF:59:ASP:HA	2.35	0.41
4:EF:86:VAL:HA	4:FF:120:VAL:O	2.21	0.41
4:FF:101:ILE:N	4:FF:104:TYR:O	2.32	0.41
3:CG:54:LEU:HB2	3:CG:231:LEU:HD23	2.03	0.41
3:CG:247:ARG:HH12	4:EH:79:LEU:HD22	1.85	0.41
3:CG:267:ASP:OD1	4:DG:63:LYS:HD2	2.20	0.41
3:CG:300:PRO:HD2	4:FG:132:MET:SD	2.60	0.41
4:DG:108:GLN:HB3	4:DG:124:ASP:OD1	2.21	0.41
4:EG:106:ILE:HD12	4:EG:125:ILE:HD11	2.03	0.41
4:FG:64:LEU:HD23	4:FG:64:LEU:H	1.86	0.41
1:AH:522:ARG:HD3	2:BI:64:GLU:HG3	2.02	0.41
2:BH:97:ILE:HG22	2:BH:101:ARG:HH12	1.86	0.41
2:BH:103:THR:HG21	2:BH:109:THR:CG2	2.50	0.41
2:BH:166:GLY:O	2:BI:190:ARG:NE	2.30	0.41
2:BH:234:PHE:CE2	2:BH:309:LEU:HD22	2.56	0.41
1:AI:546:VAL:HG22	2:BI:70:ASN:HD21	1.85	0.41
2:BI:13:LEU:HD13	2:BI:59:PHE:CD1	2.56	0.41
2:BI:308:ILE:O	2:BI:312:VAL:HG23	2.20	0.41
3:CI:69:LEU:HB2	3:CI:77:PRO:HG3	2.02	0.41
3:CI:251:VAL:HA	3:CI:254:VAL:HG22	2.03	0.41
4:DI:129:SER:O	4:DI:133:ARG:HD3	2.20	0.41
1:AJ:540:SER:OG	2:BJ:21:ARG:HD3	2.21	0.41
2:BJ:133:ILE:HD13	2:BJ:133:ILE:HA	1.94	0.41
2:BJ:239:LEU:HD23	2:BJ:239:LEU:HA	1.85	0.41
4:EJ:74:THR:HG22	4:EJ:75:ILE:N	2.36	0.41
4:EJ:75:ILE:HA	4:EJ:78:LEU:HD12	2.02	0.41
4:EJ:118:TYR:CE2	4:FJ:93:ALA:HA	2.56	0.41
2:BK:196:VAL:C	2:BK:198:THR:H	2.23	0.41
2:BK:300:GLN:O	2:BK:304:GLU:HG2	2.21	0.41
4:EK:58:MET:SD	4:FK:75:ILE:HG13	2.61	0.41
1:AL:555:MET:HA	1:AL:558:ASP:OD2	2.20	0.41
4:EL:76:LYS:HZ1	4:FL:58:MET:C	2.19	0.41
4:EL:99:ILE:HG12	4:EL:120:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:523:ALA:HA	1:AM:526:ARG:HG2	2.03	0.41
1:AM:555:MET:SD	2:BM:33:GLU:HB3	2.60	0.41
2:BM:300:GLN:O	2:BM:304:GLU:HG2	2.21	0.41
4:DM:98:ASP:OD1	4:DM:99:ILE:N	2.53	0.41
1:AN:523:ALA:HA	1:AN:526:ARG:HG2	2.03	0.41
3:CN:249:ASN:HB3	4:FO:125:ILE:HD13	2.01	0.41
4:DN:98:ASP:OD1	4:DN:99:ILE:N	2.53	0.41
4:EN:68:LEU:HD12	4:EN:97:LEU:HD21	2.02	0.41
4:FN:71:THR:OG1	4:FN:89:LEU:HA	2.21	0.41
1:AO:554:TRP:HA	1:AO:557:ASN:HD21	1.85	0.41
2:BP:196:VAL:C	2:BP:198:THR:H	2.24	0.41
4:DP:96:PRO:HB2	4:DP:108:GLN:HG3	2.02	0.41
2:BQ:46:GLN:HB2	1:AR:549:LEU:HD22	2.03	0.41
3:CQ:265:PHE:HA	3:CQ:292:ILE:HD12	2.02	0.41
4:EQ:71:THR:O	4:FQ:64:LEU:HG	2.21	0.41
4:EQ:106:ILE:HD12	4:EQ:125:ILE:HD11	2.03	0.41
4:FQ:71:THR:OG1	4:FQ:89:LEU:HA	2.21	0.41
1:AR:516:GLU:HA	1:AR:519:GLN:HG2	2.02	0.41
4:ER:59:ASP:HA	4:FR:76:LYS:NZ	2.35	0.41
2:BS:81:LEU:HD12	2:BS:94:LEU:HG	2.02	0.41
2:BS:300:GLN:O	2:BS:304:GLU:HG2	2.21	0.41
3:CS:179:TYR:OH	3:CS:182:SER:OG	2.25	0.41
4:DS:96:PRO:HB2	4:DS:108:GLN:HG3	2.02	0.41
4:DS:101:ILE:HG22	4:DS:106:ILE:HB	2.02	0.41
4:ES:68:LEU:HD12	4:ES:97:LEU:HD21	2.03	0.41
4:ES:131:ARG:HA	4:ES:134:ARG:NH1	2.36	0.41
1:AT:516:GLU:HA	1:AT:519:GLN:HG2	2.02	0.41
2:BT:263:LEU:O	2:BT:271:ARG:HD3	2.21	0.41
3:CT:272:LEU:HD12	3:CT:272:LEU:HA	1.93	0.41
1:AU:549:LEU:O	1:AU:552:ARG:HB3	2.21	0.41
2:BU:5:SER:O	2:BU:9:LYS:HG3	2.20	0.41
2:BU:123:ARG:HE	2:BU:123:ARG:HB2	1.75	0.41
3:CU:38:TYR:HB2	4:EU:113:VAL:HB	2.03	0.41
3:CU:169:TRP:HH2	3:CU:231:LEU:HD11	1.85	0.41
4:EU:68:LEU:HD12	4:EU:97:LEU:HD21	2.02	0.41
4:EU:118:TYR:CG	4:FU:68:LEU:HD21	2.55	0.41
4:FU:60:ILE:HD12	4:FU:60:ILE:HA	1.96	0.41
2:BV:134:LEU:HD13	2:BV:146:LEU:HD11	2.02	0.41
2:BV:250:LEU:O	2:BV:254:VAL:HG12	2.20	0.41
3:CV:169:TRP:HH2	3:CV:231:LEU:HD11	1.85	0.41
3:CV:314:ALA:HA	4:DV:88:ALA:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CW:112:GLY:HA3	3:CW:223:MET:HE3	2.02	0.41
4:EW:74:THR:HG22	4:EW:75:ILE:N	2.35	0.41
2:BX:300:GLN:O	2:BX:304:GLU:HG2	2.21	0.41
3:CX:38:TYR:HB2	4:EX:113:VAL:HB	2.02	0.41
3:CX:258:GLU:HA	4:DX:74:THR:HA	2.03	0.41
3:CX:314:ALA:HA	4:DX:88:ALA:HA	2.03	0.41
4:DX:108:GLN:HB3	4:DX:124:ASP:OD1	2.21	0.41
2:BY:10:SER:HA	2:BY:13:LEU:HD12	2.02	0.41
1:A1:532:MET:CG	2:B1:56:LEU:HD13	2.51	0.41
2:B1:17:ILE:O	2:B1:21:ARG:HD2	2.21	0.41
4:D1:108:GLN:HB3	4:D1:124:ASP:OD1	2.21	0.41
3:C2:38:TYR:HB2	4:E2:113:VAL:HB	2.03	0.41
3:C2:65:PHE:CE1	3:C2:161:ALA:HB2	2.56	0.41
4:F2:60:ILE:HD12	4:F2:60:ILE:HA	1.99	0.41
1:A3:516:GLU:HA	1:A3:519:GLN:HG2	2.03	0.41
3:C4:86:ILE:HD13	3:C4:200:VAL:HG22	2.03	0.41
4:D4:68:LEU:HA	4:D4:97:LEU:HD23	2.03	0.41
3:C5:240:ARG:N	3:C5:242:GLU:OE1	2.44	0.41
4:F5:64:LEU:HD23	4:F5:64:LEU:H	1.86	0.41
3:C6:65:PHE:CE1	3:C6:161:ALA:HB2	2.56	0.41
4:D6:108:GLN:HB3	4:D6:124:ASP:OD1	2.21	0.41
4:E6:99:ILE:HG12	4:E6:120:VAL:HG21	2.03	0.41
1:A7:558:ASP:OD1	2:B7:6:GLY:HA3	2.21	0.41
2:B7:139:ARG:HH22	2:B8:198:THR:HG23	1.85	0.41
4:D7:68:LEU:HA	4:D7:97:LEU:HD23	2.03	0.41
4:E7:68:LEU:HD12	4:E7:97:LEU:HD21	2.01	0.41
4:F7:64:LEU:HD23	4:F7:64:LEU:H	1.86	0.41
2:B8:42:ALA:CB	2:B9:97:ILE:HG23	2.51	0.41
4:E8:128:PRO:HB3	4:E8:131:ARG:HE	1.86	0.41
2:B9:234:PHE:CE2	2:B9:309:LEU:HD22	2.55	0.41
1:AA:548:ALA:HA	2:BA:25:VAL:HG13	2.03	0.41
3:CA:57:ILE:HD12	3:CA:168:ALA:O	2.21	0.41
2:BB:38:SER:HA	2:BB:41:MET:SD	2.61	0.41
2:BB:300:GLN:O	2:BB:304:GLU:HG2	2.21	0.41
3:CB:179:TYR:OH	3:CB:182:SER:OG	2.25	0.41
3:CB:247:ARG:CZ	4:EC:79:LEU:HB3	2.51	0.41
3:CB:271:ARG:O	3:CB:275:ILE:HG12	2.21	0.41
4:EB:73:MET:HB3	4:FB:64:LEU:HD23	2.03	0.41
3:CD:240:ARG:N	3:CD:242:GLU:OE1	2.44	0.41
4:FD:64:LEU:HD23	4:FD:64:LEU:H	1.85	0.41
1:AE:558:ASP:OD1	2:BE:6:GLY:HA3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:13:LEU:HD13	2:BF:59:PHE:CD1	2.56	0.41
2:BF:167:VAL:HG13	2:BF:172:LEU:HD23	2.03	0.41
3:CF:56:ILE:HD12	3:CF:56:ILE:HA	1.97	0.41
3:CF:267:ASP:OD1	4:DF:63:LYS:HD2	2.20	0.41
4:FF:64:LEU:HD23	4:FF:64:LEU:H	1.86	0.41
1:AG:555:MET:SD	2:BG:33:GLU:HB3	2.61	0.41
2:BG:48:SER:HB3	2:BH:66:PHE:HD1	1.86	0.41
2:BG:207:LYS:HG3	2:BG:209:GLN:N	2.36	0.41
2:BG:250:LEU:O	2:BG:254:VAL:HG12	2.20	0.41
3:CG:96:LEU:HD23	3:CG:96:LEU:HA	1.92	0.41
2:BH:167:VAL:HG13	2:BH:172:LEU:HD23	2.03	0.41
2:BI:81:LEU:HD12	2:BI:94:LEU:HG	2.03	0.41
3:CI:179:TYR:OH	3:CI:182:SER:OG	2.25	0.41
4:DJ:73:MET:SD	4:DJ:78:LEU:HD12	2.61	0.41
4:DJ:108:GLN:HB3	4:DJ:124:ASP:OD1	2.21	0.41
4:DK:64:LEU:HD13	4:DK:101:ILE:HB	2.02	0.41
2:BL:249:ARG:NH1	2:BL:252:GLN:HB2	2.37	0.41
3:CL:311:GLY:O	4:DL:93:ALA:N	2.36	0.41
4:DL:64:LEU:HD13	4:DL:101:ILE:HB	2.02	0.41
3:CM:249:ASN:HB3	4:FN:125:ILE:HD13	2.02	0.41
2:BN:13:LEU:HD13	2:BN:59:PHE:CD1	2.55	0.41
1:AO:549:LEU:O	1:AO:552:ARG:HB2	2.21	0.41
4:FO:100:LEU:HG	4:FO:105:LEU:CA	2.50	0.41
4:FP:122:ILE:O	4:FP:122:ILE:HG13	2.20	0.41
2:BQ:158:MET:O	2:BQ:161:ILE:HB	2.21	0.41
3:CQ:249:ASN:HB3	4:FR:125:ILE:HD13	2.03	0.41
4:EQ:58:MET:SD	4:FQ:75:ILE:HG13	2.61	0.41
4:DR:108:GLN:HB3	4:DR:124:ASP:OD1	2.21	0.41
4:DR:129:SER:O	4:DR:133:ARG:HD3	2.20	0.41
4:ER:71:THR:HA	4:ER:90:ASP:OD2	2.21	0.41
2:BS:24:GLU:O	2:BS:27:LYS:HB2	2.20	0.41
3:CS:38:TYR:HB2	4:ES:113:VAL:HB	2.03	0.41
3:CS:111:ARG:O	3:CS:223:MET:HE1	2.21	0.41
4:DT:101:ILE:HD13	4:ET:60:ILE:HD13	2.03	0.41
1:AU:554:TRP:HA	1:AU:557:ASN:HD21	1.85	0.41
2:BU:239:LEU:HD23	2:BU:239:LEU:HA	1.83	0.41
4:DU:66:VAL:HG12	4:DU:99:ILE:HG12	2.03	0.41
4:FU:116:ASP:OD1	4:FU:116:ASP:O	2.38	0.41
3:CV:251:VAL:HA	3:CV:254:VAL:HG22	2.03	0.41
3:CW:314:ALA:HA	4:DW:88:ALA:HA	2.03	0.41
2:BX:250:LEU:O	2:BX:254:VAL:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CX:118:PHE:CE2	3:CX:157:MET:HG3	2.56	0.41
1:AY:554:TRP:HA	1:AY:557:ASN:HD21	1.86	0.41
3:CY:146:PHE:H	3:CY:184:MET:HE1	1.86	0.41
2:B2:167:VAL:HG13	2:B2:172:LEU:HD23	2.03	0.40
1:A4:523:ALA:HA	1:A4:526:ARG:HG2	2.03	0.40
2:B4:13:LEU:HD13	2:B4:59:PHE:CD1	2.55	0.40
3:C4:169:TRP:HH2	3:C4:231:LEU:HD11	1.85	0.40
3:C4:179:TYR:OH	3:C4:182:SER:OG	2.26	0.40
1:A5:517:GLN:O	1:A5:520:GLN:HG3	2.20	0.40
2:B5:143:ALA:HB1	2:B6:206:MET:HG3	2.03	0.40
3:C5:57:ILE:HD12	3:C5:168:ALA:O	2.21	0.40
3:C5:86:ILE:HD13	3:C5:200:VAL:HG22	2.03	0.40
3:C5:260:GLU:HA	4:D5:72:ARG:HH22	1.86	0.40
4:E5:76:LYS:HZ1	4:F5:58:MET:C	2.20	0.40
4:D6:105:LEU:HB2	4:D6:131:ARG:HE	1.86	0.40
3:C7:169:TRP:HH2	3:C7:231:LEU:HD11	1.85	0.40
4:D7:66:VAL:HG12	4:D7:99:ILE:HG12	2.01	0.40
4:F7:65:THR:HG23	4:F7:100:LEU:HB2	2.02	0.40
4:E8:71:THR:O	4:F8:64:LEU:HD23	2.20	0.40
2:B9:43:ASN:HB3	2:BA:101:ARG:NH2	2.36	0.40
3:C9:265:PHE:HA	3:C9:292:ILE:HD12	2.03	0.40
3:C9:271:ARG:O	3:C9:275:ILE:HG12	2.21	0.40
4:EA:74:THR:O	4:EA:78:LEU:HG	2.22	0.40
3:CB:300:PRO:HD2	4:FB:132:MET:HE2	2.02	0.40
2:BC:26:PHE:CE2	2:BD:84:ALA:HB1	2.56	0.40
3:CC:57:ILE:HD12	3:CC:168:ALA:O	2.21	0.40
4:EC:71:THR:HA	4:EC:90:ASP:OD2	2.20	0.40
4:FC:71:THR:OG1	4:FC:89:LEU:HA	2.21	0.40
2:BD:38:SER:HA	2:BD:41:MET:HE1	2.01	0.40
2:BD:85:LEU:HB3	2:BD:89:ARG:HB2	2.03	0.40
2:BD:113:MET:HE2	2:BD:117:SER:HB2	2.03	0.40
3:CD:57:ILE:HG21	3:CD:169:TRP:CD1	2.55	0.40
4:ED:118:TYR:CG	4:FD:68:LEU:HD21	2.56	0.40
1:AE:536:ILE:HA	1:AE:539:MET:HG2	2.03	0.40
3:CE:38:TYR:H	4:EE:112:VAL:HA	1.87	0.40
3:CE:38:TYR:HB2	4:EE:113:VAL:HB	2.03	0.40
3:CE:247:ARG:CZ	4:EF:79:LEU:HB3	2.50	0.40
2:BF:42:ALA:CB	2:BG:97:ILE:HG23	2.51	0.40
3:CF:265:PHE:HA	3:CF:292:ILE:HD12	2.02	0.40
4:DF:108:GLN:HB3	4:DF:124:ASP:OD1	2.21	0.40
4:EF:121:ARG:HH12	4:FF:85:SER:N	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CG:251:VAL:HA	3:CG:254:VAL:HG22	2.03	0.40
1:AH:532:MET:CG	2:BH:56:LEU:HD13	2.52	0.40
3:CI:159:LYS:O	3:CI:162:LEU:HG	2.20	0.40
3:CI:239:SER:HB3	3:CI:243:ASP:CG	2.42	0.40
4:DI:68:LEU:HA	4:DI:97:LEU:HD23	2.03	0.40
4:EJ:121:ARG:NH1	4:FJ:85:SER:O	2.54	0.40
2:BK:167:VAL:HG13	2:BK:172:LEU:HD23	2.03	0.40
2:BK:250:LEU:HD21	2:BK:321:MET:SD	2.61	0.40
3:CK:38:TYR:H	4:EK:112:VAL:HA	1.86	0.40
4:DK:98:ASP:OD1	4:DK:99:ILE:N	2.53	0.40
4:DK:108:GLN:HB3	4:DK:124:ASP:OD1	2.21	0.40
2:BL:97:ILE:HG22	2:BL:101:ARG:HH12	1.86	0.40
3:CL:239:SER:HB3	3:CL:243:ASP:CG	2.42	0.40
4:DL:68:LEU:HA	4:DL:97:LEU:HD23	2.04	0.40
4:FL:106:ILE:O	4:FL:126:ILE:HG12	2.21	0.40
4:DM:68:LEU:HA	4:DM:97:LEU:HD23	2.03	0.40
4:EM:86:VAL:HA	4:FM:120:VAL:O	2.22	0.40
2:BN:166:GLY:O	2:BO:190:ARG:NE	2.32	0.40
2:BN:166:GLY:O	3:CN:132:GLY:HA2	2.20	0.40
2:BN:251:LEU:HB2	2:BN:278:MET:HE2	2.03	0.40
4:FN:116:ASP:OD1	4:FN:116:ASP:O	2.38	0.40
1:AO:516:GLU:HA	1:AO:519:GLN:HG2	2.03	0.40
1:AO:523:ALA:HA	1:AO:526:ARG:HG2	2.03	0.40
1:AO:546:VAL:HG22	2:BO:70:ASN:HD21	1.85	0.40
2:BO:103:THR:HG21	2:BO:109:THR:CG2	2.51	0.40
3:CO:69:LEU:HB2	3:CO:77:PRO:HG3	2.02	0.40
3:CP:57:ILE:HD12	3:CP:168:ALA:O	2.21	0.40
4:DP:108:GLN:HB3	4:DP:124:ASP:OD1	2.21	0.40
4:EP:130:GLU:CB	4:EP:133:ARG:HH21	2.34	0.40
4:FP:132:MET:CE	4:FP:136:SER:HB3	2.51	0.40
2:BQ:17:ILE:O	2:BQ:21:ARG:HD2	2.21	0.40
3:CQ:159:LYS:O	3:CQ:162:LEU:HG	2.21	0.40
3:CQ:179:TYR:OH	3:CQ:182:SER:OG	2.26	0.40
4:DR:79:LEU:HD23	4:DR:80:ARG:HH21	1.87	0.40
2:BS:7:THR:O	2:BS:11:VAL:HG23	2.21	0.40
2:BS:126:HIS:HB3	2:BS:129:ILE:HG12	2.02	0.40
3:CS:57:ILE:HD12	3:CS:168:ALA:O	2.21	0.40
3:CS:65:PHE:CE1	3:CS:161:ALA:HB2	2.56	0.40
3:CT:57:ILE:HG21	3:CT:169:TRP:CD1	2.55	0.40
3:CT:179:TYR:OH	3:CT:182:SER:OG	2.25	0.40
3:CT:191:ILE:HD12	3:CT:191:ILE:HA	1.96	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:251:VAL:HA	3:CT:254:VAL:HG22	2.04	0.40
3:CU:65:PHE:CE1	3:CU:161:ALA:HB2	2.56	0.40
4:DU:68:LEU:HA	4:DU:97:LEU:HD23	2.03	0.40
4:EU:58:MET:SD	4:EU:58:MET:O	2.79	0.40
4:FU:71:THR:HG1	4:FU:89:LEU:HA	1.85	0.40
4:FU:71:THR:OG1	4:FU:89:LEU:HA	2.21	0.40
2:BV:166:GLY:O	3:CV:132:GLY:HA2	2.20	0.40
2:BV:234:PHE:CE2	2:BV:309:LEU:HD22	2.56	0.40
4:DV:64:LEU:HD13	4:DV:101:ILE:HB	2.02	0.40
3:CW:36:ARG:HH21	3:CW:44:ARG:HH11	1.69	0.40
3:CW:169:TRP:HH2	3:CW:231:LEU:HD11	1.86	0.40
4:DW:68:LEU:HA	4:DW:97:LEU:HD23	2.03	0.40
4:DW:108:GLN:HB3	4:DW:124:ASP:OD1	2.21	0.40
3:CX:272:LEU:HB2	4:DX:60:ILE:HB	2.03	0.40
4:EX:119:GLY:HA2	4:FX:89:LEU:HD13	2.03	0.40
2:BY:167:VAL:HG13	2:BY:172:LEU:HD23	2.03	0.40
2:BY:263:LEU:O	2:BY:271:ARG:HD3	2.21	0.40
2:BY:300:GLN:O	2:BY:304:GLU:HG2	2.21	0.40
2:B1:13:LEU:HD13	2:B1:59:PHE:CD1	2.56	0.40
2:B1:196:VAL:C	2:B1:198:THR:H	2.23	0.40
4:F1:122:ILE:HD12	3:CY:246:TRP:HZ2	1.86	0.40
1:A2:552:ARG:HD2	1:A2:555:MET:HE1	2.04	0.40
3:C3:36:ARG:HH21	3:C3:44:ARG:HH11	1.69	0.40
3:C4:54:LEU:HB2	3:C4:231:LEU:HD23	2.02	0.40
1:A5:540:SER:OG	2:B5:21:ARG:HD3	2.21	0.40
4:F6:71:THR:OG1	4:F6:89:LEU:HA	2.22	0.40
2:B7:207:LYS:HG3	2:B7:209:GLN:H	1.86	0.40
2:B7:300:GLN:O	2:B7:304:GLU:HG2	2.21	0.40
3:C7:179:TYR:OH	3:C7:182:SER:OG	2.25	0.40
2:B8:239:LEU:HD23	2:B8:239:LEU:HA	1.83	0.40
2:B9:300:GLN:O	2:B9:304:GLU:HG2	2.21	0.40
4:FB:108:GLN:OE1	4:FB:134:ARG:NH2	2.54	0.40
2:BC:26:PHE:HA	2:BC:29:LEU:HD12	2.03	0.40
3:CC:86:ILE:HD13	3:CC:200:VAL:HG22	2.03	0.40
3:CC:267:ASP:OD1	4:DC:63:LYS:HD2	2.20	0.40
4:EC:74:THR:HG22	4:EC:75:ILE:N	2.37	0.40
3:CD:57:ILE:HD12	3:CD:168:ALA:O	2.21	0.40
3:CD:65:PHE:CE1	3:CD:161:ALA:HB2	2.56	0.40
3:CD:271:ARG:O	3:CD:275:ILE:HG12	2.20	0.40
4:DD:68:LEU:HA	4:DD:97:LEU:HD23	2.03	0.40
3:CE:86:ILE:HD13	3:CE:200:VAL:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CE:240:ARG:N	3:CE:242:GLU:OE1	2.44	0.40
2:BG:19:GLU:OE1	2:BH:79:SER:OG	2.33	0.40
2:BG:42:ALA:CB	2:BH:97:ILE:HG23	2.52	0.40
2:BG:48:SER:HB3	2:BH:66:PHE:CD1	2.56	0.40
2:BG:263:LEU:O	2:BG:271:ARG:HD3	2.21	0.40
3:CG:239:SER:HB3	3:CG:243:ASP:CG	2.42	0.40
3:CG:271:ARG:O	3:CG:275:ILE:HG12	2.20	0.40
4:EG:73:MET:SD	4:EG:77:GLU:HB2	2.61	0.40
1:AI:549:LEU:O	1:AI:552:ARG:HB2	2.21	0.40
2:BJ:42:ALA:CB	2:BK:97:ILE:HG23	2.52	0.40
2:BJ:207:LYS:HG3	2:BJ:209:GLN:H	1.87	0.40
3:CJ:54:LEU:HD23	3:CJ:84:ILE:HD13	2.03	0.40
3:CJ:57:ILE:HD12	3:CJ:168:ALA:O	2.22	0.40
3:CJ:86:ILE:HD13	3:CJ:200:VAL:HG22	2.02	0.40
3:CJ:169:TRP:HH2	3:CJ:231:LEU:HD11	1.85	0.40
4:EJ:86:VAL:HA	4:FJ:120:VAL:O	2.22	0.40
2:BK:69:LEU:HB3	2:BK:70:ASN:H	1.79	0.40
3:CK:54:LEU:HD23	3:CK:84:ILE:HD13	2.03	0.40
3:CK:251:VAL:HA	3:CK:254:VAL:HG22	2.03	0.40
4:FK:95:GLU:OE1	4:FK:95:GLU:N	2.51	0.40
3:CL:250:LEU:HD21	4:EM:78:LEU:O	2.21	0.40
4:FL:71:THR:OG1	4:FL:89:LEU:HA	2.21	0.40
4:EN:86:VAL:HA	4:FN:120:VAL:O	2.21	0.40
2:BO:5:SER:O	2:BO:9:LYS:HG3	2.21	0.40
2:BO:207:LYS:HG3	2:BO:209:GLN:H	1.86	0.40
3:CO:118:PHE:CZ	3:CO:157:MET:HG3	2.56	0.40
3:CQ:239:SER:HB3	3:CQ:243:ASP:CG	2.42	0.40
2:BR:126:HIS:HB3	2:BR:129:ILE:HG12	2.03	0.40
2:BR:263:LEU:O	2:BR:271:ARG:HD3	2.21	0.40
2:BU:167:VAL:HG13	2:BU:172:LEU:HD23	2.03	0.40
3:CV:230:LEU:HD23	3:CV:230:LEU:HA	1.90	0.40
2:BW:196:VAL:C	2:BW:198:THR:H	2.25	0.40
3:CW:300:PRO:HD2	4:FW:132:MET:HE2	2.02	0.40
4:DW:105:LEU:HB2	4:DW:131:ARG:HE	1.85	0.40
3:CY:38:TYR:HB2	4:EY:113:VAL:HB	2.03	0.40
2:B1:5:SER:O	2:B1:9:LYS:HG3	2.21	0.40
1:A2:523:ALA:HA	1:A2:526:ARG:HG2	2.03	0.40
3:C2:36:ARG:HH21	3:C2:44:ARG:HH11	1.69	0.40
3:C3:86:ILE:HD13	3:C3:200:VAL:HG22	2.03	0.40
1:A4:554:TRP:HA	1:A4:557:ASN:HD21	1.86	0.40
3:C4:54:LEU:HD23	3:C4:84:ILE:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D4:129:SER:O	4:D4:133:ARG:HD3	2.21	0.40
1:A5:555:MET:SD	2:B5:33:GLU:HB3	2.61	0.40
2:B5:263:LEU:O	2:B5:271:ARG:HD3	2.21	0.40
2:B6:15:MET:HB3	2:B7:69:LEU:HD11	2.03	0.40
2:B6:234:PHE:CE2	2:B6:309:LEU:HD22	2.57	0.40
3:C6:247:ARG:HH12	4:E7:79:LEU:HD22	1.86	0.40
4:E6:86:VAL:HA	4:F6:120:VAL:O	2.22	0.40
4:E6:127:THR:HG23	4:E6:130:GLU:OE2	2.21	0.40
3:C7:118:PHE:CZ	3:C7:157:MET:HG3	2.56	0.40
4:E7:99:ILE:HG12	4:E7:120:VAL:HG21	2.04	0.40
2:B8:101:ARG:N	2:B8:101:ARG:HD3	2.36	0.40
3:C8:57:ILE:HD12	3:C8:168:ALA:O	2.22	0.40
3:C9:38:TYR:H	4:E9:112:VAL:HA	1.86	0.40
3:C9:267:ASP:OD1	4:D9:63:LYS:HD2	2.20	0.40
4:E9:99:ILE:HG12	4:E9:120:VAL:HG21	2.03	0.40
4:FA:71:THR:HG1	4:FA:89:LEU:HA	1.86	0.40
3:CB:234:PRO:O	3:CB:236:LEU:N	2.46	0.40
2:BC:4:LEU:HD23	2:BC:4:LEU:HA	1.91	0.40
2:BC:239:LEU:HD23	2:BC:239:LEU:HA	1.86	0.40
3:CC:65:PHE:CE1	3:CC:161:ALA:HB2	2.57	0.40
4:FC:65:THR:HG23	4:FC:100:LEU:HB2	2.03	0.40
1:AD:546:VAL:HG22	2:BD:70:ASN:HD21	1.85	0.40
3:CD:239:SER:HB3	3:CD:243:ASP:CG	2.41	0.40
3:CD:267:ASP:OD1	4:DD:63:LYS:HD2	2.20	0.40
4:ED:86:VAL:HA	4:FD:120:VAL:O	2.21	0.40
4:ED:99:ILE:HG12	4:ED:120:VAL:HG21	2.03	0.40
2:BE:300:GLN:O	2:BE:304:GLU:HG2	2.21	0.40
3:CE:267:ASP:OD1	4:DE:63:LYS:HD2	2.20	0.40
4:DE:79:LEU:HD23	4:DE:80:ARG:HH21	1.85	0.40
4:FE:100:LEU:HG	4:FE:105:LEU:CA	2.51	0.40
2:BF:46:GLN:HE22	2:BG:70:ASN:HB3	1.85	0.40
2:BF:47:ILE:O	2:BG:68:ALA:HB3	2.22	0.40
2:BF:250:LEU:O	2:BF:254:VAL:HG12	2.20	0.40
3:CF:136:ARG:HG3	3:CF:137:PHE:HD1	1.86	0.40
4:DF:135:LEU:HD12	4:DF:135:LEU:HA	1.89	0.40
2:BG:133:ILE:HD13	2:BG:133:ILE:HA	1.94	0.40
2:BG:167:VAL:HG13	2:BG:172:LEU:HD23	2.03	0.40
3:CG:274:GLN:HG3	3:CG:277:LYS:HE3	2.03	0.40
4:EG:86:VAL:HA	4:FG:120:VAL:O	2.22	0.40
4:EG:130:GLU:HB2	4:EG:133:ARG:NE	2.37	0.40
2:BH:10:SER:HA	2:BH:13:LEU:HD12	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BH:300:GLN:O	2:BH:304:GLU:HG2	2.21	0.40
3:CH:69:LEU:HB2	3:CH:77:PRO:HG3	2.03	0.40
2:BI:47:ILE:HD12	2:BI:47:ILE:HA	1.94	0.40
2:BJ:4:LEU:HD23	2:BJ:4:LEU:HA	1.91	0.40
2:BJ:250:LEU:O	2:BJ:254:VAL:HG12	2.22	0.40
4:FJ:95:GLU:OE1	4:FJ:95:GLU:N	2.51	0.40
2:BL:81:LEU:HD12	2:BL:94:LEU:HG	2.03	0.40
3:CM:96:LEU:HD23	3:CM:96:LEU:HA	1.94	0.40
4:EM:68:LEU:HD12	4:EM:97:LEU:HD21	2.02	0.40
4:EM:130:GLU:N	4:EM:130:GLU:OE1	2.52	0.40
2:BN:113:MET:HE2	2:BN:117:SER:HB2	2.02	0.40
2:BN:123:ARG:HE	2:BN:123:ARG:HB2	1.75	0.40
3:CN:38:TYR:H	4:EN:112:VAL:HA	1.86	0.40
4:DN:64:LEU:HD13	4:DN:101:ILE:HB	2.02	0.40
4:DN:68:LEU:HA	4:DN:97:LEU:HD23	2.03	0.40
4:EN:71:THR:HA	4:EN:90:ASP:OD2	2.21	0.40
2:BO:166:GLY:O	2:BP:190:ARG:NE	2.32	0.40
2:BO:263:LEU:O	2:BO:271:ARG:HD3	2.22	0.40
2:BO:300:GLN:O	2:BO:304:GLU:HG2	2.21	0.40
4:EO:118:TYR:CG	4:FO:68:LEU:HD21	2.55	0.40
1:AP:523:ALA:HA	1:AP:526:ARG:HG2	2.03	0.40
3:CP:251:VAL:HA	3:CP:254:VAL:HG22	2.03	0.40
3:CP:260:GLU:HA	4:DP:72:ARG:HH22	1.86	0.40
2:BQ:167:VAL:HG13	2:BQ:172:LEU:HD23	2.02	0.40
3:CQ:251:VAL:HA	3:CQ:254:VAL:HG22	2.04	0.40
4:DQ:96:PRO:HB2	4:DQ:108:GLN:HG3	2.03	0.40
2:BR:17:ILE:O	2:BR:21:ARG:HD2	2.20	0.40
3:CR:127:VAL:HG22	3:CR:153:VAL:HG21	2.04	0.40
4:ER:73:MET:CE	4:ER:78:LEU:HD23	2.51	0.40
1:AS:523:ALA:HA	1:AS:526:ARG:HG2	2.03	0.40
2:BS:5:SER:O	2:BS:9:LYS:HG3	2.21	0.40
2:BS:206:MET:HE1	2:BS:210:GLN:HB3	2.04	0.40
3:CS:251:VAL:HA	3:CS:254:VAL:HG22	2.03	0.40
3:CS:299:VAL:HA	4:FS:132:MET:CE	2.44	0.40
4:ES:86:VAL:HA	4:FS:120:VAL:O	2.22	0.40
4:FS:71:THR:OG1	4:FS:89:LEU:HA	2.21	0.40
2:BT:5:SER:O	2:BT:9:LYS:HG3	2.22	0.40
2:BT:46:GLN:HE21	2:BU:68:ALA:H	1.69	0.40
2:BT:113:MET:SD	2:BT:118:ALA:HB2	2.61	0.40
1:AU:551:ILE:HD13	2:BU:14:LEU:HD21	2.03	0.40
2:BU:300:GLN:O	2:BU:304:GLU:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:38:TYR:HB2	4:EV:113:VAL:HB	2.03	0.40
3:CV:249:ASN:HB3	4:FW:125:ILE:HD13	2.03	0.40
1:AW:516:GLU:HA	1:AW:519:GLN:HG2	2.03	0.40
4:EW:71:THR:O	4:FW:64:LEU:HG	2.21	0.40
2:BX:126:HIS:HB3	2:BX:129:ILE:HG12	2.03	0.40
3:CX:272:LEU:HD12	3:CX:272:LEU:HA	1.95	0.40
4:EX:58:MET:SD	4:EX:58:MET:O	2.79	0.40
4:FX:64:LEU:HD23	4:FX:64:LEU:H	1.86	0.40
4:DY:79:LEU:HD23	4:DY:80:ARG:HH21	1.86	0.40
4:EY:99:ILE:HG12	4:EY:120:VAL:HG21	2.03	0.40
1:A1:549:LEU:HD11	2:BY:46:GLN:OE1	2.21	0.40
2:B1:21:ARG:O	2:B1:25:VAL:HG23	2.21	0.40
3:C1:86:ILE:HD13	3:C1:200:VAL:HG22	2.03	0.40
3:C1:251:VAL:HA	3:C1:254:VAL:HG22	2.03	0.40
3:C1:265:PHE:HA	3:C1:292:ILE:HD12	2.03	0.40
4:E1:73:MET:SD	4:E1:77:GLU:HB2	2.60	0.40
4:E1:119:GLY:HA2	4:F1:89:LEU:HD13	2.04	0.40
1:A2:529:ALA:O	1:A2:533:SER:OG	2.34	0.40
2:B2:230:ILE:O	2:B2:233:MET:HB2	2.21	0.40
3:C2:86:ILE:HD13	3:C2:200:VAL:HG22	2.03	0.40
4:D2:66:VAL:HG12	4:D2:99:ILE:HG12	2.02	0.40
4:E2:106:ILE:HD12	4:E2:125:ILE:HD11	2.04	0.40
4:F2:71:THR:OG1	4:F2:89:LEU:HA	2.22	0.40
3:C4:57:ILE:HD12	3:C4:168:ALA:O	2.22	0.40
4:F4:106:ILE:O	4:F4:126:ILE:HG12	2.21	0.40
1:A5:516:GLU:HG2	1:A5:517:GLN:N	2.37	0.40
2:B5:300:GLN:O	2:B5:304:GLU:HG2	2.22	0.40
3:C5:191:ILE:HD12	3:C5:191:ILE:HA	1.94	0.40
4:D5:68:LEU:HA	4:D5:97:LEU:HD23	2.03	0.40
4:E6:106:ILE:HD12	4:E6:125:ILE:HD11	2.03	0.40
1:A7:554:TRP:HA	1:A7:557:ASN:HD21	1.86	0.40
3:C8:267:ASP:OD1	4:D8:63:LYS:HD2	2.20	0.40
4:F8:64:LEU:HD23	4:F8:64:LEU:H	1.85	0.40
4:F8:71:THR:OG1	4:F8:89:LEU:HA	2.22	0.40
2:B9:72:ASN:O	2:B9:76:TYR:HB2	2.22	0.40
3:C9:159:LYS:O	3:C9:162:LEU:HG	2.22	0.40
3:CA:267:ASP:OD1	4:DA:63:LYS:HD2	2.20	0.40
3:CA:271:ARG:O	3:CA:275:ILE:HG12	2.21	0.40
4:EA:71:THR:O	4:FA:64:LEU:HD23	2.21	0.40
4:EA:128:PRO:HB3	4:EA:131:ARG:HE	1.86	0.40
3:CB:267:ASP:OD1	4:DB:63:LYS:HD2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DB:96:PRO:HB2	4:DB:108:GLN:HG3	2.02	0.40
2:BC:133:ILE:HD13	2:BC:133:ILE:HA	1.93	0.40
2:BC:263:LEU:O	2:BC:271:ARG:HD3	2.21	0.40
3:CC:152:ARG:HA	3:CC:152:ARG:HD2	1.90	0.40
3:CC:247:ARG:HH12	4:ED:79:LEU:HD22	1.87	0.40
4:FC:126:ILE:HD12	4:FC:131:ARG:HB2	2.03	0.40
1:AE:555:MET:HA	1:AE:558:ASP:OD2	2.21	0.40
2:BE:234:PHE:CE2	2:BE:309:LEU:HD22	2.56	0.40
3:CE:54:LEU:HD23	3:CE:84:ILE:HD13	2.02	0.40
3:CE:286:ILE:HG13	3:CE:287:GLU:O	2.21	0.40
4:FE:106:ILE:O	4:FE:126:ILE:HG12	2.21	0.40
4:FE:133:ARG:HH12	4:FE:137:ARG:NH1	2.20	0.40
2:BF:30:SER:O	2:BF:34:VAL:HG23	2.21	0.40
2:BF:133:ILE:HD13	2:BF:133:ILE:HA	1.93	0.40
2:BF:245:ARG:NH1	2:BF:249:ARG:HB2	2.35	0.40
3:CF:96:LEU:HD23	3:CF:96:LEU:HA	1.94	0.40
3:CF:239:SER:HB3	3:CF:243:ASP:CG	2.42	0.40
4:FF:95:GLU:OE1	4:FF:95:GLU:N	2.51	0.40
3:CG:272:LEU:HB2	4:DG:60:ILE:HB	2.04	0.40
2:BH:13:LEU:HD13	2:BH:59:PHE:CD1	2.56	0.40
3:CH:38:TYR:H	4:EH:112:VAL:HA	1.86	0.40
4:FH:71:THR:OG1	4:FH:89:LEU:HA	2.21	0.40
2:BI:245:ARG:NH2	2:BI:321:MET:HB3	2.36	0.40
2:BI:253:GLU:HG3	2:BI:315:LEU:HD11	2.04	0.40
3:CI:136:ARG:HG3	3:CI:137:PHE:HD1	1.86	0.40
4:EJ:130:GLU:OE1	4:EJ:130:GLU:N	2.54	0.40
4:FJ:71:THR:HG1	4:FJ:89:LEU:HA	1.87	0.40
3:CK:239:SER:HB3	3:CK:243:ASP:CG	2.42	0.40
3:CM:54:LEU:HD23	3:CM:84:ILE:HD13	2.03	0.40
3:CM:169:TRP:HH2	3:CM:231:LEU:HD11	1.86	0.40
2:BO:113:MET:HE1	2:BO:117:SER:HB2	2.04	0.40
2:BO:239:LEU:HD23	2:BO:239:LEU:HA	1.87	0.40
3:CO:220:PRO:HD2	3:CO:223:MET:HG3	2.01	0.40
4:DO:79:LEU:HD23	4:DO:80:ARG:HH21	1.87	0.40
2:BP:34:VAL:O	2:BP:38:SER:OG	2.30	0.40
2:BP:250:LEU:O	2:BP:254:VAL:HG12	2.21	0.40
3:CP:54:LEU:HD23	3:CP:84:ILE:HD13	2.03	0.40
3:CQ:86:ILE:HD13	3:CQ:200:VAL:HG22	2.02	0.40
4:ER:86:VAL:HA	4:FR:120:VAL:O	2.21	0.40
4:ER:119:GLY:HA2	4:FR:89:LEU:HD13	2.02	0.40
2:BS:111:ASN:OD1	2:BS:138:LYS:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BS:166:GLY:O	3:CS:132:GLY:HA2	2.21	0.40
4:ES:99:ILE:HG12	4:ES:120:VAL:HG21	2.03	0.40
1:AT:540:SER:OG	2:BT:21:ARG:HD3	2.22	0.40
2:BT:203:ILE:HA	2:BT:206:MET:CE	2.51	0.40
4:DT:68:LEU:HA	4:DT:97:LEU:HD23	2.03	0.40
1:AU:516:GLU:HA	1:AU:519:GLN:HG2	2.02	0.40
2:BU:134:LEU:HD23	2:BU:134:LEU:HA	1.90	0.40
3:CU:54:LEU:HB2	3:CU:231:LEU:HD23	2.03	0.40
4:FU:106:ILE:O	4:FU:126:ILE:HG12	2.21	0.40
4:FU:132:MET:SD	4:FU:135:LEU:HB3	2.62	0.40
2:BV:312:VAL:HG13	2:BV:321:MET:HE1	2.03	0.40
3:CV:36:ARG:HH21	3:CV:44:ARG:HH11	1.69	0.40
4:FV:71:THR:OG1	4:FV:89:LEU:HA	2.21	0.40
2:BW:19:GLU:OE2	2:BX:80:VAL:HA	2.20	0.40
2:BW:167:VAL:HG13	2:BW:172:LEU:HD23	2.03	0.40
2:BW:300:GLN:O	2:BW:304:GLU:HG2	2.21	0.40
2:BW:308:ILE:O	2:BW:312:VAL:HG23	2.21	0.40
2:BX:230:ILE:O	2:BX:233:MET:HB2	2.20	0.40
4:EX:86:VAL:HA	4:FX:120:VAL:O	2.21	0.40
1:AY:551:ILE:HD13	2:BY:14:LEU:HD21	2.04	0.40
3:CY:86:ILE:HD13	3:CY:200:VAL:HG22	2.03	0.40
4:EY:128:PRO:HG3	4:EY:131:ARG:HH21	1.86	0.40
2:B1:53:THR:HA	2:B1:56:LEU:HG	2.03	0.40
2:B1:300:GLN:O	2:B1:304:GLU:HG2	2.21	0.40
4:E1:86:VAL:HA	4:F1:120:VAL:O	2.22	0.40
4:F1:65:THR:HG23	4:F1:100:LEU:HB2	2.03	0.40
1:A2:516:GLU:HA	1:A2:519:GLN:HG2	2.02	0.40
2:B2:300:GLN:O	2:B2:304:GLU:HG2	2.21	0.40
2:B3:42:ALA:HB3	2:B4:101:ARG:HH21	1.86	0.40
2:B3:207:LYS:HG3	2:B3:209:GLN:N	2.36	0.40
2:B3:250:LEU:O	2:B3:254:VAL:HG12	2.21	0.40
3:C4:247:ARG:HH12	4:E5:79:LEU:HD22	1.87	0.40
3:C4:274:GLN:HG3	3:C4:277:LYS:HE3	2.02	0.40
2:B5:234:PHE:CE2	2:B5:309:LEU:HD22	2.56	0.40
2:B6:85:LEU:HD22	2:B6:89:ARG:CZ	2.52	0.40
2:B6:146:LEU:O	2:B6:154:ARG:NE	2.46	0.40
3:C6:260:GLU:HA	4:D6:72:ARG:HH22	1.85	0.40
4:F6:65:THR:HG23	4:F6:100:LEU:HB2	2.02	0.40
1:A8:516:GLU:HA	1:A8:519:GLN:HG2	2.03	0.40
4:DA:105:LEU:HB2	4:DA:131:ARG:HE	1.86	0.40
2:BB:48:SER:HB3	2:BC:66:PHE:CD1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:95:GLU:HA	2:BB:98:LEU:HG	2.04	0.40
3:CB:65:PHE:CE1	3:CB:161:ALA:HB2	2.57	0.40
3:CB:302:LEU:HD13	3:CB:317:VAL:HG13	2.03	0.40
4:EB:86:VAL:HA	4:FB:120:VAL:O	2.22	0.40
2:BC:13:LEU:HD13	2:BC:59:PHE:CD1	2.56	0.40
2:BC:250:LEU:HD21	2:BC:321:MET:SD	2.61	0.40
3:CD:272:LEU:HD12	3:CD:272:LEU:HA	1.93	0.40
4:DD:130:GLU:HG3	4:DD:134:ARG:HD2	2.04	0.40
4:DE:132:MET:HE1	4:DE:135:LEU:HD23	2.03	0.40
4:FE:95:GLU:OE1	4:FE:95:GLU:N	2.51	0.40
1:AF:549:LEU:O	1:AF:552:ARG:HB2	2.21	0.40
3:CF:314:ALA:HA	4:DF:88:ALA:HA	2.03	0.40
4:EF:131:ARG:HA	4:EF:134:ARG:NH1	2.37	0.40
2:BH:133:ILE:HD13	2:BH:133:ILE:HA	1.94	0.40
3:CH:136:ARG:HG3	3:CH:137:PHE:HD1	1.86	0.40
3:CH:234:PRO:O	3:CH:236:LEU:N	2.46	0.40
3:CH:239:SER:HB3	3:CH:243:ASP:CG	2.42	0.40
2:BI:166:GLY:O	2:BJ:190:ARG:NE	2.31	0.40
2:BI:167:VAL:HG13	2:BI:172:LEU:HD23	2.03	0.40
3:CI:279:LYS:HA	3:CI:279:LYS:HD3	1.83	0.40
3:CJ:136:ARG:HG3	3:CJ:137:PHE:HD1	1.86	0.40
4:FJ:64:LEU:HD23	4:FJ:64:LEU:H	1.86	0.40
4:FJ:106:ILE:O	4:FJ:126:ILE:HG12	2.21	0.40
1:AK:516:GLU:HA	1:AK:519:GLN:HG2	2.03	0.40
2:BK:113:MET:SD	2:BK:118:ALA:HB2	2.62	0.40
2:BK:150:ASP:OD1	2:BK:153:LEU:HB3	2.21	0.40
2:BK:230:ILE:O	2:BK:233:MET:HB2	2.21	0.40
2:BK:250:LEU:O	2:BK:254:VAL:HG12	2.21	0.40
2:BK:263:LEU:O	2:BK:271:ARG:HD3	2.21	0.40
3:CK:54:LEU:HB2	3:CK:231:LEU:HD23	2.04	0.40
3:CL:159:LYS:O	3:CL:162:LEU:HG	2.21	0.40
4:EL:128:PRO:HG3	4:EL:131:ARG:HH21	1.86	0.40
2:BM:167:VAL:HG13	2:BM:172:LEU:HD23	2.03	0.40
3:CM:38:TYR:H	4:EM:112:VAL:HA	1.87	0.40
4:FM:71:THR:OG1	4:FM:89:LEU:HA	2.21	0.40
4:FM:106:ILE:O	4:FM:126:ILE:HG12	2.22	0.40
2:BN:81:LEU:HD13	2:BN:93:LEU:HB2	2.04	0.40
2:BN:158:MET:HE3	2:BO:218:VAL:HG23	2.02	0.40
4:DN:108:GLN:HB3	4:DN:124:ASP:OD1	2.22	0.40
4:FO:116:ASP:OD1	4:FO:116:ASP:O	2.39	0.40
4:DP:129:SER:O	4:DP:133:ARG:HD3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EP:71:THR:HA	4:EP:90:ASP:OD2	2.22	0.40
1:AQ:516:GLU:HA	1:AQ:519:GLN:HG2	2.03	0.40
1:AQ:536:ILE:HA	1:AQ:539:MET:HG2	2.03	0.40
3:CQ:136:ARG:HG3	3:CQ:137:PHE:HD1	1.86	0.40
2:BR:237:GLU:O	2:BR:240:VAL:HG12	2.22	0.40
2:BR:239:LEU:HD23	2:BR:239:LEU:HA	1.82	0.40
2:BR:250:LEU:O	2:BR:254:VAL:HG12	2.20	0.40
4:FR:106:ILE:O	4:FR:126:ILE:HG12	2.21	0.40
1:AS:546:VAL:HG22	2:BS:70:ASN:HD21	1.86	0.40
2:BS:250:LEU:O	2:BS:254:VAL:HG12	2.21	0.40
2:BS:263:LEU:O	2:BS:271:ARG:HD3	2.21	0.40
2:BT:250:LEU:HD21	2:BT:321:MET:SD	2.61	0.40
2:BV:46:GLN:HG2	2:BW:70:ASN:HD22	1.86	0.40
2:BV:134:LEU:HA	2:BV:134:LEU:HD23	1.89	0.40
2:BV:157:VAL:O	2:BV:161:ILE:HG12	2.22	0.40
3:CV:286:ILE:HG13	3:CV:287:GLU:O	2.21	0.40
1:AW:523:ALA:HA	1:AW:526:ARG:HG2	2.03	0.40
2:BW:169:PRO:O	2:BW:172:LEU:HG	2.22	0.40
3:CW:118:PHE:CE2	3:CW:157:MET:HG3	2.57	0.40
4:FW:71:THR:OG1	4:FW:89:LEU:HA	2.22	0.40
4:FW:106:ILE:O	4:FW:126:ILE:HG12	2.21	0.40
1:AX:552:ARG:HH11	1:AX:555:MET:HE3	1.86	0.40
3:CX:57:ILE:HD12	3:CX:168:ALA:O	2.22	0.40
2:BY:203:ILE:HG22	2:BY:211:GLU:HB2	2.04	0.40
3:CY:251:VAL:HA	3:CY:254:VAL:HG22	2.04	0.40
4:DY:64:LEU:HD13	4:DY:101:ILE:HB	2.03	0.40
4:DY:96:PRO:HB2	4:DY:108:GLN:HG3	2.04	0.40
4:EY:86:VAL:HA	4:FY:120:VAL:O	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	A1	45/560 (8%)	45 (100%)	0	0	100	100
1	A2	45/560 (8%)	45 (100%)	0	0	100	100
1	A3	45/560 (8%)	45 (100%)	0	0	100	100
1	A4	45/560 (8%)	45 (100%)	0	0	100	100
1	A5	45/560 (8%)	45 (100%)	0	0	100	100
1	A6	45/560 (8%)	45 (100%)	0	0	100	100
1	A7	45/560 (8%)	45 (100%)	0	0	100	100
1	A8	45/560 (8%)	45 (100%)	0	0	100	100
1	A9	45/560 (8%)	45 (100%)	0	0	100	100
1	AA	45/560 (8%)	45 (100%)	0	0	100	100
1	AB	45/560 (8%)	45 (100%)	0	0	100	100
1	AC	45/560 (8%)	45 (100%)	0	0	100	100
1	AD	45/560 (8%)	45 (100%)	0	0	100	100
1	AE	45/560 (8%)	45 (100%)	0	0	100	100
1	AF	45/560 (8%)	45 (100%)	0	0	100	100
1	AG	45/560 (8%)	44 (98%)	1 (2%)	0	100	100
1	AH	45/560 (8%)	45 (100%)	0	0	100	100
1	AI	45/560 (8%)	45 (100%)	0	0	100	100
1	AJ	45/560 (8%)	45 (100%)	0	0	100	100
1	AK	45/560 (8%)	45 (100%)	0	0	100	100
1	AL	45/560 (8%)	45 (100%)	0	0	100	100
1	AM	45/560 (8%)	45 (100%)	0	0	100	100
1	AN	45/560 (8%)	45 (100%)	0	0	100	100
1	AO	45/560 (8%)	45 (100%)	0	0	100	100
1	AP	45/560 (8%)	45 (100%)	0	0	100	100
1	AQ	45/560 (8%)	45 (100%)	0	0	100	100
1	AR	45/560 (8%)	45 (100%)	0	0	100	100
1	AS	45/560 (8%)	45 (100%)	0	0	100	100
1	AT	45/560 (8%)	45 (100%)	0	0	100	100
1	AU	45/560 (8%)	45 (100%)	0	0	100	100
1	AV	45/560 (8%)	45 (100%)	0	0	100	100
1	AW	45/560 (8%)	45 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AX	45/560 (8%)	44 (98%)	1 (2%)	0	100	100
1	AY	45/560 (8%)	45 (100%)	0	0	100	100
2	B1	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	17	56
2	B2	329/331 (99%)	312 (95%)	15 (5%)	2 (1%)	25	65
2	B3	329/331 (99%)	315 (96%)	12 (4%)	2 (1%)	25	65
2	B4	329/331 (99%)	312 (95%)	14 (4%)	3 (1%)	17	56
2	B5	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	17	56
2	B6	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	17	56
2	B7	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	17	56
2	B8	329/331 (99%)	311 (94%)	15 (5%)	3 (1%)	17	56
2	B9	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	17	56
2	BA	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	17	56
2	BB	329/331 (99%)	312 (95%)	15 (5%)	2 (1%)	25	65
2	BC	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	17	56
2	BD	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	17	56
2	BE	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	17	56
2	BF	329/331 (99%)	311 (94%)	15 (5%)	3 (1%)	17	56
2	BG	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	17	56
2	BH	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	17	56
2	BI	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	17	56
2	BJ	329/331 (99%)	312 (95%)	15 (5%)	2 (1%)	25	65
2	BK	329/331 (99%)	311 (94%)	15 (5%)	3 (1%)	17	56
2	BL	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	17	56
2	BM	329/331 (99%)	310 (94%)	17 (5%)	2 (1%)	25	65
2	BN	329/331 (99%)	314 (95%)	13 (4%)	2 (1%)	25	65
2	BO	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	17	56
2	BP	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	17	56
2	BQ	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	17	56
2	BR	329/331 (99%)	313 (95%)	14 (4%)	2 (1%)	25	65
2	BS	329/331 (99%)	313 (95%)	14 (4%)	2 (1%)	25	65
2	BT	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	17	56

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	BU	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	17	56
2	BV	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	17	56
2	BW	329/331 (99%)	317 (96%)	9 (3%)	3 (1%)	17	56
2	BX	329/331 (99%)	311 (94%)	15 (5%)	3 (1%)	17	56
2	BY	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	17	56
3	C1	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	C2	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	C3	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	C4	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	C5	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	C6	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	C7	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	C8	288/334 (86%)	275 (96%)	13 (4%)	0	100	100
3	C9	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CA	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CB	288/334 (86%)	275 (96%)	13 (4%)	0	100	100
3	CC	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CD	288/334 (86%)	279 (97%)	9 (3%)	0	100	100
3	CE	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CF	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CG	288/334 (86%)	275 (96%)	13 (4%)	0	100	100
3	CH	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CI	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CJ	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CK	288/334 (86%)	276 (96%)	12 (4%)	0	100	100
3	CL	288/334 (86%)	276 (96%)	12 (4%)	0	100	100
3	CM	288/334 (86%)	276 (96%)	12 (4%)	0	100	100
3	CN	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CO	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CP	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CQ	288/334 (86%)	278 (96%)	10 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	CR	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CS	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CT	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CU	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CV	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CW	288/334 (86%)	275 (96%)	13 (4%)	0	100	100
3	CX	288/334 (86%)	276 (96%)	12 (4%)	0	100	100
3	CY	288/334 (86%)	275 (96%)	13 (4%)	0	100	100
4	D1	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D2	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D3	79/137 (58%)	70 (89%)	9 (11%)	0	100	100
4	D4	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D5	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D6	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D7	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D8	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D9	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DA	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DB	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DC	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DD	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DE	79/137 (58%)	72 (91%)	7 (9%)	0	100	100
4	DF	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DG	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DH	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DI	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DJ	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DK	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DL	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DM	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DN	79/137 (58%)	70 (89%)	9 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	DO	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DP	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DQ	79/137 (58%)	70 (89%)	9 (11%)	0	100	100
4	DR	79/137 (58%)	70 (89%)	9 (11%)	0	100	100
4	DS	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DT	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DU	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DV	79/137 (58%)	72 (91%)	7 (9%)	0	100	100
4	DW	79/137 (58%)	70 (89%)	9 (11%)	0	100	100
4	DX	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DY	79/137 (58%)	72 (91%)	7 (9%)	0	100	100
4	E1	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	E2	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	E3	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	E4	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	E5	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	E6	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	12	48
4	E7	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	E8	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	E9	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EA	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EB	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	12	48
4	EC	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	12	48
4	ED	79/137 (58%)	77 (98%)	1 (1%)	1 (1%)	12	48
4	EE	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EF	79/137 (58%)	73 (92%)	5 (6%)	1 (1%)	12	48
4	EG	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EH	79/137 (58%)	73 (92%)	5 (6%)	1 (1%)	12	48
4	EI	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EJ	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EK	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	EL	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EM	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EN	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	12	48
4	EO	79/137 (58%)	73 (92%)	5 (6%)	1 (1%)	12	48
4	EP	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	12	48
4	EQ	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	ER	79/137 (58%)	76 (96%)	2 (2%)	1 (1%)	12	48
4	ES	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	ET	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	12	48
4	EU	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EV	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EW	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EX	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	EY	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	12	48
4	F1	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F2	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F3	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F4	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F5	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F6	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	F7	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	F8	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F9	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FA	79/137 (58%)	77 (98%)	2 (2%)	0	100	100
4	FB	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	FC	79/137 (58%)	74 (94%)	5 (6%)	0	100	100
4	FD	79/137 (58%)	74 (94%)	5 (6%)	0	100	100
4	FE	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FF	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	FG	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FH	79/137 (58%)	77 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	FI	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FJ	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	FK	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FL	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FM	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FN	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FO	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FP	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	FQ	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FR	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FS	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FT	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FU	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FV	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FW	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FX	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FY	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
All	All	30566/55624 (55%)	29108 (95%)	1330 (4%)	128 (0%)	38	72

All (128) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	E1	126	ILE
4	E2	126	ILE
4	E3	126	ILE
4	E4	126	ILE
4	E5	126	ILE
4	E6	126	ILE
4	E7	126	ILE
4	E8	126	ILE
4	E9	126	ILE
4	EA	126	ILE
4	EB	126	ILE
4	EC	126	ILE
4	ED	126	ILE
4	EE	126	ILE

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Mol	Chain	Res	Type
4	EF	126	ILE
4	EG	126	ILE
4	EH	126	ILE
4	EI	126	ILE
4	EJ	126	ILE
4	EK	126	ILE
4	EL	126	ILE
4	EM	126	ILE
4	EN	126	ILE
4	EO	126	ILE
4	EP	126	ILE
4	EQ	126	ILE
4	ER	126	ILE
4	ES	126	ILE
4	ET	126	ILE
4	EU	126	ILE
4	EV	126	ILE
4	EW	126	ILE
4	EX	126	ILE
4	EY	126	ILE
2	B2	235	LEU
2	B3	235	LEU
2	B4	235	LEU
2	B5	235	LEU
2	B6	235	LEU
2	B8	235	LEU
2	BB	235	LEU
2	BC	235	LEU
2	BE	235	LEU
2	BF	235	LEU
2	BG	235	LEU
2	BH	235	LEU
2	BJ	235	LEU
2	BK	235	LEU
2	BL	235	LEU
2	BM	235	LEU
2	BN	235	LEU
2	BO	235	LEU
2	BQ	235	LEU
2	BS	235	LEU
2	BT	235	LEU
2	BW	235	LEU

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Mol	Chain	Res	Type
2	BX	235	LEU
2	BY	235	LEU
2	B1	235	LEU
2	B7	235	LEU
2	B9	235	LEU
2	BA	235	LEU
2	BD	235	LEU
2	BI	235	LEU
2	BP	235	LEU
2	BR	235	LEU
2	BU	235	LEU
2	BV	235	LEU
2	BL	243	ASP
2	BU	243	ASP
2	B1	187	ASN
2	B1	243	ASP
2	B2	187	ASN
2	B3	187	ASN
2	B4	187	ASN
2	B4	243	ASP
2	B5	187	ASN
2	B5	243	ASP
2	B6	187	ASN
2	B6	243	ASP
2	B7	187	ASN
2	B7	243	ASP
2	B8	187	ASN
2	B8	243	ASP
2	B9	187	ASN
2	B9	243	ASP
2	BA	187	ASN
2	BA	243	ASP
2	BB	187	ASN
2	BC	187	ASN
2	BC	243	ASP
2	BD	187	ASN
2	BD	243	ASP
2	BE	187	ASN
2	BE	243	ASP
2	BF	187	ASN
2	BF	243	ASP
2	BG	187	ASN

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Mol	Chain	Res	Type
2	BG	243	ASP
2	BH	187	ASN
2	BH	243	ASP
2	BI	187	ASN
2	BI	243	ASP
2	BJ	187	ASN
2	BK	187	ASN
2	BK	243	ASP
2	BL	187	ASN
2	BM	187	ASN
2	BN	187	ASN
2	BO	187	ASN
2	BO	243	ASP
2	BP	187	ASN
2	BP	243	ASP
2	BQ	187	ASN
2	BQ	243	ASP
2	BR	187	ASN
2	BS	187	ASN
2	BT	187	ASN
2	BT	243	ASP
2	BU	187	ASN
2	BV	187	ASN
2	BV	243	ASP
2	BW	187	ASN
2	BW	243	ASP
2	BX	187	ASN
2	BX	243	ASP
2	BY	187	ASN
2	BY	243	ASP

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	A1	43/467 (9%)	43 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A2	43/467 (9%)	43 (100%)	0	100	100
1	A3	43/467 (9%)	43 (100%)	0	100	100
1	A4	43/467 (9%)	43 (100%)	0	100	100
1	A5	43/467 (9%)	43 (100%)	0	100	100
1	A6	43/467 (9%)	43 (100%)	0	100	100
1	A7	43/467 (9%)	43 (100%)	0	100	100
1	A8	43/467 (9%)	43 (100%)	0	100	100
1	A9	43/467 (9%)	43 (100%)	0	100	100
1	AA	43/467 (9%)	43 (100%)	0	100	100
1	AB	43/467 (9%)	43 (100%)	0	100	100
1	AC	43/467 (9%)	43 (100%)	0	100	100
1	AD	43/467 (9%)	43 (100%)	0	100	100
1	AE	43/467 (9%)	43 (100%)	0	100	100
1	AF	43/467 (9%)	43 (100%)	0	100	100
1	AG	43/467 (9%)	43 (100%)	0	100	100
1	AH	43/467 (9%)	43 (100%)	0	100	100
1	AI	43/467 (9%)	43 (100%)	0	100	100
1	AJ	43/467 (9%)	43 (100%)	0	100	100
1	AK	43/467 (9%)	43 (100%)	0	100	100
1	AL	43/467 (9%)	43 (100%)	0	100	100
1	AM	43/467 (9%)	43 (100%)	0	100	100
1	AN	43/467 (9%)	43 (100%)	0	100	100
1	AO	43/467 (9%)	43 (100%)	0	100	100
1	AP	43/467 (9%)	43 (100%)	0	100	100
1	AQ	43/467 (9%)	43 (100%)	0	100	100
1	AR	43/467 (9%)	43 (100%)	0	100	100
1	AS	43/467 (9%)	43 (100%)	0	100	100
1	AT	43/467 (9%)	43 (100%)	0	100	100
1	AU	43/467 (9%)	43 (100%)	0	100	100
1	AV	43/467 (9%)	43 (100%)	0	100	100
1	AW	43/467 (9%)	43 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AX	43/467 (9%)	43 (100%)	0	100	100
1	AY	43/467 (9%)	43 (100%)	0	100	100
2	B1	282/282 (100%)	280 (99%)	2 (1%)	84	90
2	B2	282/282 (100%)	282 (100%)	0	100	100
2	B3	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	B4	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	B5	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	B6	282/282 (100%)	282 (100%)	0	100	100
2	B7	282/282 (100%)	282 (100%)	0	100	100
2	B8	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	B9	282/282 (100%)	282 (100%)	0	100	100
2	BA	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BB	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BC	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BD	282/282 (100%)	282 (100%)	0	100	100
2	BE	282/282 (100%)	280 (99%)	2 (1%)	84	90
2	BF	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BG	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BH	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BI	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BJ	282/282 (100%)	282 (100%)	0	100	100
2	BK	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BL	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BM	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BN	282/282 (100%)	282 (100%)	0	100	100
2	BO	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BP	282/282 (100%)	282 (100%)	0	100	100
2	BQ	282/282 (100%)	282 (100%)	0	100	100
2	BR	282/282 (100%)	282 (100%)	0	100	100
2	BS	282/282 (100%)	282 (100%)	0	100	100
2	BT	282/282 (100%)	280 (99%)	2 (1%)	84	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	BU	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BV	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BW	282/282 (100%)	281 (100%)	1 (0%)	91	94
2	BX	282/282 (100%)	280 (99%)	2 (1%)	84	90
2	BY	282/282 (100%)	281 (100%)	1 (0%)	91	94
3	C1	263/301 (87%)	261 (99%)	2 (1%)	81	89
3	C2	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	C3	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	C4	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	C5	263/301 (87%)	261 (99%)	2 (1%)	81	89
3	C6	263/301 (87%)	261 (99%)	2 (1%)	81	89
3	C7	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	C8	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	C9	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CA	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CB	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CC	263/301 (87%)	261 (99%)	2 (1%)	81	89
3	CD	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CE	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CF	263/301 (87%)	261 (99%)	2 (1%)	81	89
3	CG	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CH	263/301 (87%)	261 (99%)	2 (1%)	81	89
3	CI	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CJ	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CK	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CL	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CM	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CN	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CO	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CP	263/301 (87%)	261 (99%)	2 (1%)	81	89
3	CQ	263/301 (87%)	262 (100%)	1 (0%)	91	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	CR	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CS	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CT	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CU	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CV	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CW	263/301 (87%)	261 (99%)	2 (1%)	81	89
3	CX	263/301 (87%)	262 (100%)	1 (0%)	91	94
3	CY	263/301 (87%)	262 (100%)	1 (0%)	91	94
4	D1	70/113 (62%)	70 (100%)	0	100	100
4	D2	70/113 (62%)	70 (100%)	0	100	100
4	D3	70/113 (62%)	70 (100%)	0	100	100
4	D4	70/113 (62%)	70 (100%)	0	100	100
4	D5	70/113 (62%)	70 (100%)	0	100	100
4	D6	70/113 (62%)	70 (100%)	0	100	100
4	D7	70/113 (62%)	70 (100%)	0	100	100
4	D8	70/113 (62%)	70 (100%)	0	100	100
4	D9	70/113 (62%)	70 (100%)	0	100	100
4	DA	70/113 (62%)	70 (100%)	0	100	100
4	DB	70/113 (62%)	70 (100%)	0	100	100
4	DC	70/113 (62%)	70 (100%)	0	100	100
4	DD	70/113 (62%)	70 (100%)	0	100	100
4	DE	70/113 (62%)	70 (100%)	0	100	100
4	DF	70/113 (62%)	70 (100%)	0	100	100
4	DG	70/113 (62%)	70 (100%)	0	100	100
4	DH	70/113 (62%)	70 (100%)	0	100	100
4	DI	70/113 (62%)	70 (100%)	0	100	100
4	DJ	70/113 (62%)	70 (100%)	0	100	100
4	DK	70/113 (62%)	70 (100%)	0	100	100
4	DL	70/113 (62%)	70 (100%)	0	100	100
4	DM	70/113 (62%)	70 (100%)	0	100	100
4	DN	70/113 (62%)	70 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	DO	70/113 (62%)	70 (100%)	0	100	100
4	DP	70/113 (62%)	70 (100%)	0	100	100
4	DQ	70/113 (62%)	70 (100%)	0	100	100
4	DR	70/113 (62%)	70 (100%)	0	100	100
4	DS	70/113 (62%)	70 (100%)	0	100	100
4	DT	70/113 (62%)	70 (100%)	0	100	100
4	DU	70/113 (62%)	70 (100%)	0	100	100
4	DV	70/113 (62%)	70 (100%)	0	100	100
4	DW	70/113 (62%)	70 (100%)	0	100	100
4	DX	70/113 (62%)	70 (100%)	0	100	100
4	DY	70/113 (62%)	70 (100%)	0	100	100
4	E1	70/113 (62%)	70 (100%)	0	100	100
4	E2	70/113 (62%)	70 (100%)	0	100	100
4	E3	70/113 (62%)	70 (100%)	0	100	100
4	E4	70/113 (62%)	70 (100%)	0	100	100
4	E5	70/113 (62%)	70 (100%)	0	100	100
4	E6	70/113 (62%)	70 (100%)	0	100	100
4	E7	70/113 (62%)	70 (100%)	0	100	100
4	E8	70/113 (62%)	70 (100%)	0	100	100
4	E9	70/113 (62%)	70 (100%)	0	100	100
4	EA	70/113 (62%)	70 (100%)	0	100	100
4	EB	70/113 (62%)	70 (100%)	0	100	100
4	EC	70/113 (62%)	70 (100%)	0	100	100
4	ED	70/113 (62%)	70 (100%)	0	100	100
4	EE	70/113 (62%)	70 (100%)	0	100	100
4	EF	70/113 (62%)	70 (100%)	0	100	100
4	EG	70/113 (62%)	70 (100%)	0	100	100
4	EH	70/113 (62%)	70 (100%)	0	100	100
4	EI	70/113 (62%)	69 (99%)	1 (1%)	67	81
4	EJ	70/113 (62%)	70 (100%)	0	100	100
4	EK	70/113 (62%)	70 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	EL	70/113 (62%)	70 (100%)	0	100	100
4	EM	70/113 (62%)	70 (100%)	0	100	100
4	EN	70/113 (62%)	70 (100%)	0	100	100
4	EO	70/113 (62%)	70 (100%)	0	100	100
4	EP	70/113 (62%)	70 (100%)	0	100	100
4	EQ	70/113 (62%)	70 (100%)	0	100	100
4	ER	70/113 (62%)	70 (100%)	0	100	100
4	ES	70/113 (62%)	70 (100%)	0	100	100
4	ET	70/113 (62%)	70 (100%)	0	100	100
4	EU	70/113 (62%)	70 (100%)	0	100	100
4	EV	70/113 (62%)	70 (100%)	0	100	100
4	EW	70/113 (62%)	70 (100%)	0	100	100
4	EX	70/113 (62%)	70 (100%)	0	100	100
4	EY	70/113 (62%)	70 (100%)	0	100	100
4	F1	70/113 (62%)	70 (100%)	0	100	100
4	F2	70/113 (62%)	70 (100%)	0	100	100
4	F3	70/113 (62%)	70 (100%)	0	100	100
4	F4	70/113 (62%)	70 (100%)	0	100	100
4	F5	70/113 (62%)	70 (100%)	0	100	100
4	F6	70/113 (62%)	70 (100%)	0	100	100
4	F7	70/113 (62%)	70 (100%)	0	100	100
4	F8	70/113 (62%)	70 (100%)	0	100	100
4	F9	70/113 (62%)	70 (100%)	0	100	100
4	FA	70/113 (62%)	70 (100%)	0	100	100
4	FB	70/113 (62%)	70 (100%)	0	100	100
4	FC	70/113 (62%)	70 (100%)	0	100	100
4	FD	70/113 (62%)	70 (100%)	0	100	100
4	FE	70/113 (62%)	70 (100%)	0	100	100
4	FF	70/113 (62%)	70 (100%)	0	100	100
4	FG	70/113 (62%)	70 (100%)	0	100	100
4	FH	70/113 (62%)	70 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	FI	70/113 (62%)	70 (100%)	0	100	100
4	FJ	70/113 (62%)	70 (100%)	0	100	100
4	FK	70/113 (62%)	70 (100%)	0	100	100
4	FL	70/113 (62%)	70 (100%)	0	100	100
4	FM	70/113 (62%)	70 (100%)	0	100	100
4	FN	70/113 (62%)	70 (100%)	0	100	100
4	FO	70/113 (62%)	70 (100%)	0	100	100
4	FP	70/113 (62%)	70 (100%)	0	100	100
4	FQ	70/113 (62%)	70 (100%)	0	100	100
4	FR	70/113 (62%)	70 (100%)	0	100	100
4	FS	70/113 (62%)	70 (100%)	0	100	100
4	FT	70/113 (62%)	70 (100%)	0	100	100
4	FU	70/113 (62%)	70 (100%)	0	100	100
4	FV	70/113 (62%)	70 (100%)	0	100	100
4	FW	70/113 (62%)	70 (100%)	0	100	100
4	FX	70/113 (62%)	70 (100%)	0	100	100
4	FY	70/113 (62%)	70 (100%)	0	100	100
All	All	27132/47226 (58%)	27062 (100%)	70 (0%)	92	95

All (70) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B1	32	ARG
2	B1	45	ARG
3	C1	36	ARG
3	C1	85	ARG
3	C2	36	ARG
2	B3	32	ARG
3	C3	36	ARG
2	B4	45	ARG
3	C4	36	ARG
2	B5	45	ARG
3	C5	36	ARG
3	C5	277	LYS
3	C6	36	ARG
3	C6	277	LYS

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Mol	Chain	Res	Type
3	C7	36	ARG
2	B8	45	ARG
3	C8	36	ARG
3	C9	36	ARG
2	BA	45	ARG
3	CA	36	ARG
2	BB	45	ARG
3	CB	36	ARG
2	BC	45	ARG
3	CC	36	ARG
3	CC	85	ARG
3	CD	36	ARG
2	BE	32	ARG
2	BE	45	ARG
3	CE	36	ARG
2	BF	45	ARG
3	CF	36	ARG
3	CF	277	LYS
2	BG	45	ARG
3	CG	36	ARG
2	BH	45	ARG
3	CH	36	ARG
3	CH	85	ARG
2	BI	45	ARG
3	CI	36	ARG
4	EI	70	ARG
3	CJ	36	ARG
2	BK	45	ARG
3	CK	36	ARG
2	BL	45	ARG
3	CL	36	ARG
2	BM	45	ARG
3	CM	36	ARG
3	CN	36	ARG
2	BO	45	ARG
3	CO	36	ARG
3	CP	36	ARG
3	CP	277	LYS
3	CQ	36	ARG
3	CR	36	ARG
3	CS	36	ARG
2	BT	32	ARG

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Mol	Chain	Res	Type
2	BT	45	ARG
3	CT	36	ARG
2	BU	32	ARG
3	CU	36	ARG
2	BV	32	ARG
3	CV	36	ARG
2	BW	32	ARG
3	CW	36	ARG
3	CW	277	LYS
2	BX	32	ARG
2	BX	45	ARG
3	CX	36	ARG
2	BY	45	ARG
3	CY	36	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (297) such sidechains are listed below:

Mol	Chain	Res	Type
2	B1	51	GLN
2	B1	70	ASN
2	B1	204	ASN
3	C1	58	ASN
3	C1	106	HIS
3	C1	129	ASN
1	A2	557	ASN
2	B2	51	GLN
2	B2	70	ASN
2	B2	136	HIS
2	B2	204	ASN
3	C2	58	ASN
3	C2	106	HIS
3	C2	129	ASN
3	C2	256	HIS
1	A3	525	GLN
2	B3	51	GLN
2	B3	70	ASN
2	B3	136	HIS
2	B3	155	HIS
3	C3	58	ASN
3	C3	64	GLN
3	C3	106	HIS
3	C3	129	ASN

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Mol	Chain	Res	Type
3	C3	256	HIS
2	B4	51	GLN
2	B4	70	ASN
2	B4	136	HIS
2	B4	155	HIS
2	B4	204	ASN
3	C4	58	ASN
3	C4	64	GLN
3	C4	106	HIS
3	C4	129	ASN
3	C4	256	HIS
2	B5	46	GLN
2	B5	51	GLN
2	B5	70	ASN
2	B5	136	HIS
2	B5	204	ASN
3	C5	58	ASN
3	C5	106	HIS
3	C5	129	ASN
2	B6	46	GLN
2	B6	51	GLN
2	B6	70	ASN
2	B6	136	HIS
2	B6	155	HIS
2	B6	204	ASN
3	C6	58	ASN
3	C6	106	HIS
3	C6	129	ASN
3	C6	256	HIS
2	B7	46	GLN
2	B7	51	GLN
2	B7	70	ASN
2	B7	136	HIS
2	B7	204	ASN
3	C7	58	ASN
3	C7	64	GLN
3	C7	106	HIS
3	C7	129	ASN
3	C7	256	HIS
4	F7	102	ASN
2	B8	51	GLN
2	B8	70	ASN

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Mol	Chain	Res	Type
2	B8	204	ASN
3	C8	58	ASN
3	C8	106	HIS
3	C8	129	ASN
3	C8	256	HIS
2	B9	51	GLN
2	B9	70	ASN
2	B9	136	HIS
2	B9	204	ASN
3	C9	58	ASN
3	C9	106	HIS
3	C9	129	ASN
3	C9	256	HIS
2	BA	51	GLN
2	BA	70	ASN
2	BA	136	HIS
2	BA	204	ASN
3	CA	58	ASN
3	CA	106	HIS
3	CA	129	ASN
3	CA	256	HIS
2	BB	46	GLN
2	BB	51	GLN
2	BB	70	ASN
2	BB	136	HIS
2	BB	155	HIS
2	BB	204	ASN
3	CB	58	ASN
3	CB	106	HIS
3	CB	129	ASN
3	CB	256	HIS
2	BC	46	GLN
2	BC	51	GLN
2	BC	70	ASN
2	BC	136	HIS
2	BC	204	ASN
3	CC	58	ASN
3	CC	106	HIS
3	CC	129	ASN
3	CC	256	HIS
2	BD	51	GLN
2	BD	70	ASN

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Mol	Chain	Res	Type
2	BD	136	HIS
2	BD	204	ASN
3	CD	58	ASN
3	CD	106	HIS
3	CD	129	ASN
3	CD	256	HIS
2	BE	51	GLN
2	BE	70	ASN
2	BE	155	HIS
2	BE	204	ASN
3	CE	58	ASN
3	CE	106	HIS
3	CE	129	ASN
2	BF	51	GLN
2	BF	70	ASN
2	BF	136	HIS
3	CF	58	ASN
3	CF	64	GLN
3	CF	106	HIS
3	CF	129	ASN
3	CF	256	HIS
2	BG	46	GLN
2	BG	51	GLN
2	BG	70	ASN
2	BG	136	HIS
2	BG	204	ASN
3	CG	58	ASN
3	CG	106	HIS
3	CG	129	ASN
3	CG	256	HIS
2	BH	46	GLN
2	BH	51	GLN
2	BH	70	ASN
2	BH	136	HIS
2	BH	204	ASN
3	CH	58	ASN
3	CH	106	HIS
3	CH	129	ASN
3	CH	256	HIS
2	BI	46	GLN
2	BI	51	GLN
2	BI	70	ASN

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Mol	Chain	Res	Type
2	BI	136	HIS
2	BI	204	ASN
3	CI	58	ASN
3	CI	106	HIS
3	CI	129	ASN
3	CI	256	HIS
2	BJ	51	GLN
2	BJ	70	ASN
2	BJ	204	ASN
3	CJ	58	ASN
3	CJ	106	HIS
3	CJ	129	ASN
2	BK	51	GLN
2	BK	70	ASN
2	BK	155	HIS
2	BK	204	ASN
3	CK	58	ASN
3	CK	64	GLN
3	CK	106	HIS
3	CK	129	ASN
3	CK	256	HIS
2	BL	46	GLN
2	BL	51	GLN
2	BL	70	ASN
2	BL	136	HIS
2	BL	204	ASN
3	CL	58	ASN
3	CL	64	GLN
3	CL	106	HIS
3	CL	129	ASN
3	CL	256	HIS
2	BM	51	GLN
2	BM	70	ASN
2	BM	204	ASN
3	CM	58	ASN
3	CM	64	GLN
3	CM	106	HIS
3	CM	129	ASN
3	CM	256	HIS
2	BN	46	GLN
2	BN	51	GLN
2	BN	70	ASN

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Mol	Chain	Res	Type
2	BN	136	HIS
2	BN	155	HIS
2	BN	204	ASN
3	CN	58	ASN
3	CN	106	HIS
3	CN	129	ASN
3	CN	256	HIS
4	FN	102	ASN
2	BO	46	GLN
2	BO	51	GLN
2	BO	70	ASN
3	CO	58	ASN
3	CO	106	HIS
3	CO	129	ASN
3	CO	253	GLN
3	CO	256	HIS
2	BP	46	GLN
2	BP	51	GLN
2	BP	70	ASN
2	BP	204	ASN
3	CP	58	ASN
3	CP	106	HIS
3	CP	129	ASN
3	CP	256	HIS
1	AQ	525	GLN
2	BQ	51	GLN
2	BQ	70	ASN
2	BQ	136	HIS
2	BQ	155	HIS
2	BQ	204	ASN
3	CQ	58	ASN
3	CQ	106	HIS
3	CQ	129	ASN
3	CQ	256	HIS
2	BR	46	GLN
2	BR	51	GLN
2	BR	70	ASN
2	BR	204	ASN
3	CR	58	ASN
3	CR	64	GLN
3	CR	106	HIS
3	CR	129	ASN

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Mol	Chain	Res	Type
3	CR	256	HIS
2	BS	51	GLN
2	BS	70	ASN
2	BS	155	HIS
2	BS	204	ASN
3	CS	58	ASN
3	CS	64	GLN
3	CS	106	HIS
3	CS	129	ASN
3	CS	256	HIS
2	BT	46	GLN
2	BT	51	GLN
2	BT	70	ASN
2	BT	155	HIS
3	CT	58	ASN
3	CT	106	HIS
3	CT	129	ASN
3	CT	256	HIS
1	AU	557	ASN
2	BU	51	GLN
2	BU	70	ASN
2	BU	204	ASN
3	CU	58	ASN
3	CU	106	HIS
3	CU	129	ASN
3	CU	256	HIS
1	AV	525	GLN
2	BV	51	GLN
2	BV	70	ASN
2	BV	204	ASN
3	CV	58	ASN
3	CV	64	GLN
3	CV	106	HIS
3	CV	129	ASN
3	CV	256	HIS
2	BW	51	GLN
2	BW	70	ASN
2	BW	136	HIS
2	BW	155	HIS
3	CW	58	ASN
3	CW	106	HIS
3	CW	129	ASN

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Mol	Chain	Res	Type
3	CW	256	HIS
2	BX	46	GLN
2	BX	51	GLN
2	BX	70	ASN
2	BX	136	HIS
2	BX	204	ASN
3	CX	58	ASN
3	CX	106	HIS
3	CX	129	ASN
3	CX	256	HIS
1	AY	525	GLN
2	BY	46	GLN
2	BY	51	GLN
2	BY	70	ASN
2	BY	136	HIS
2	BY	155	HIS
2	BY	204	ASN
3	CY	58	ASN
3	CY	106	HIS
3	CY	129	ASN
3	CY	256	HIS

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

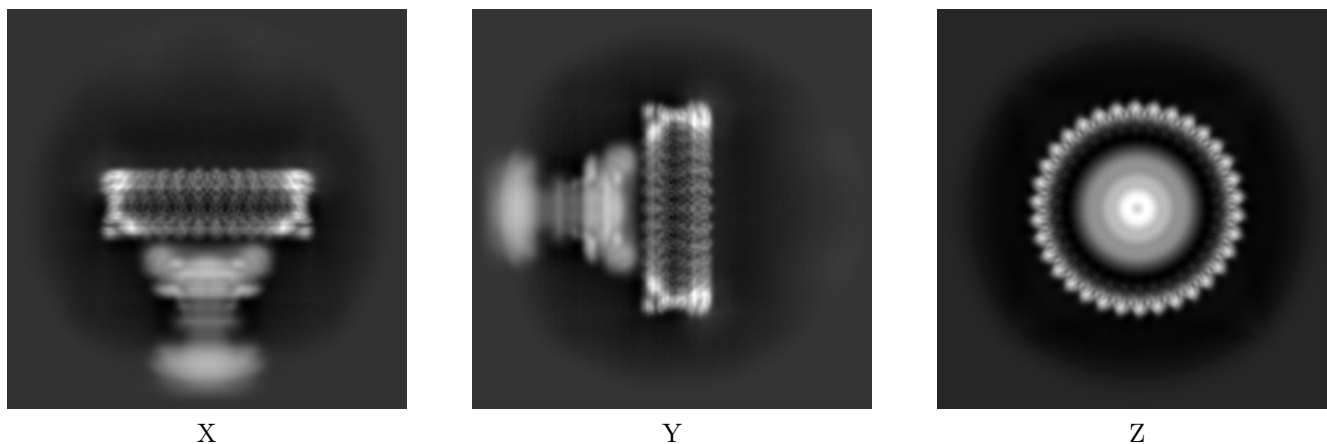
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-42439. These allow visual inspection of the internal detail of the map and identification of artifacts.

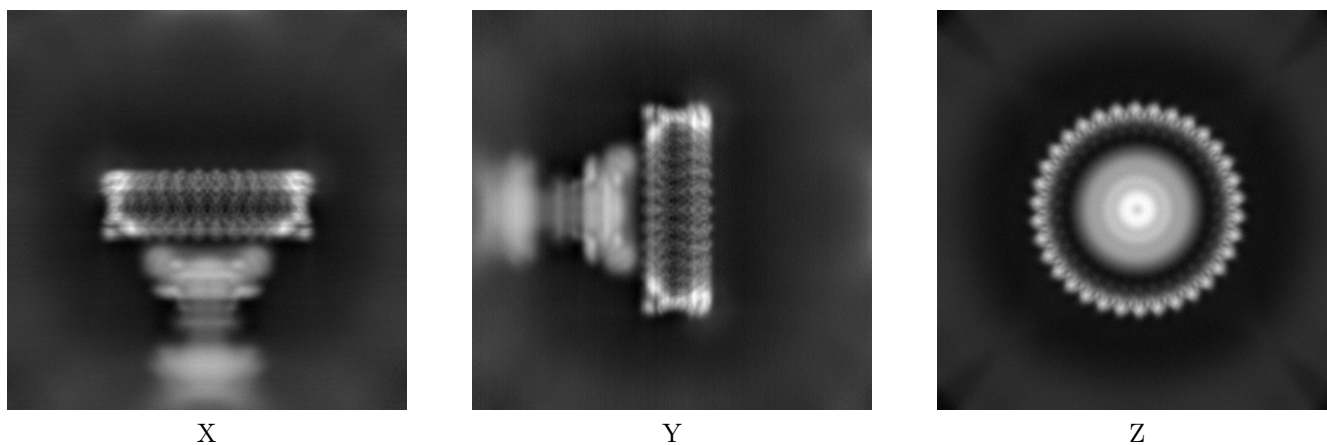
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



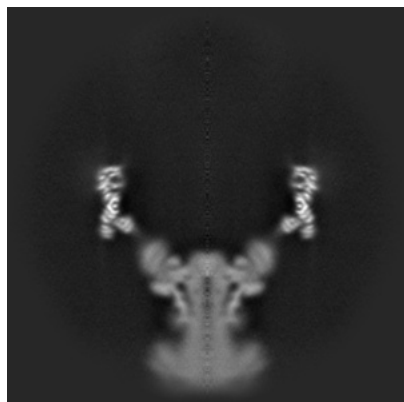
6.1.2 Raw map



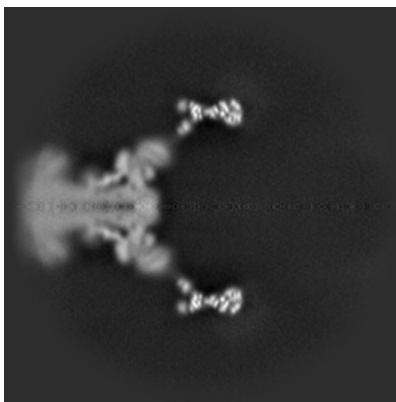
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

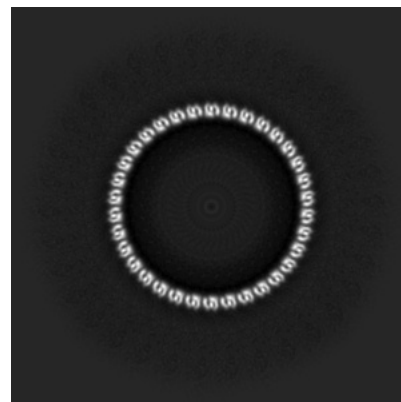
6.2.1 Primary map



X Index: 256



Y Index: 256

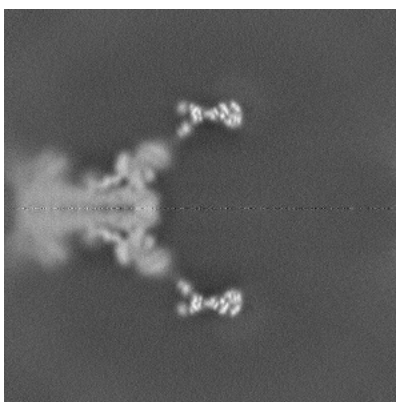


Z Index: 256

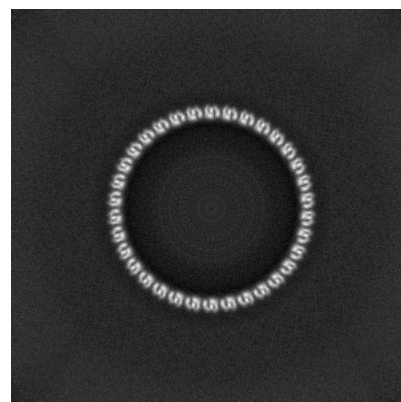
6.2.2 Raw map



X Index: 256



Y Index: 256

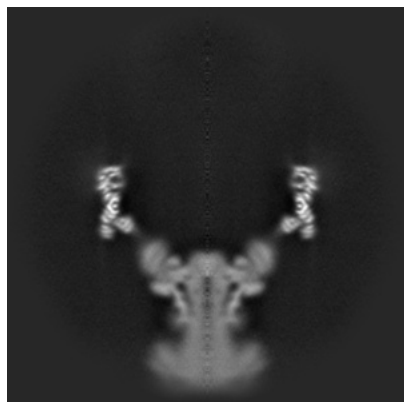


Z Index: 256

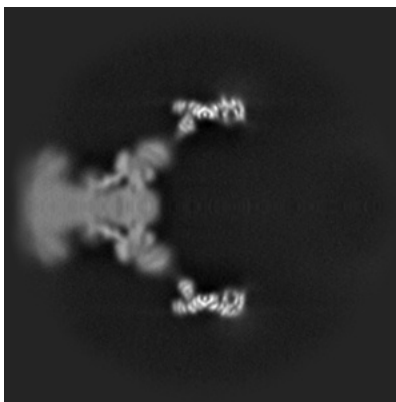
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

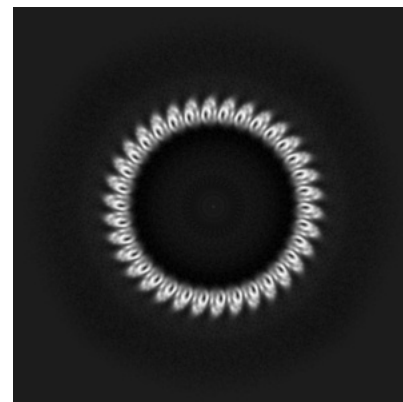
6.3.1 Primary map



X Index: 256



Y Index: 267

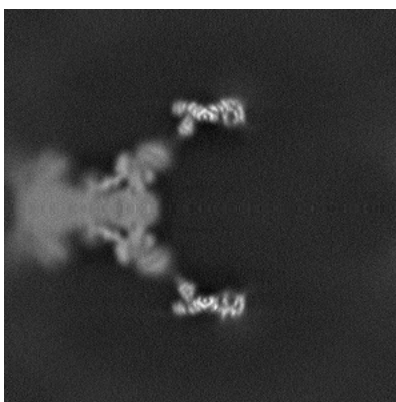


Z Index: 284

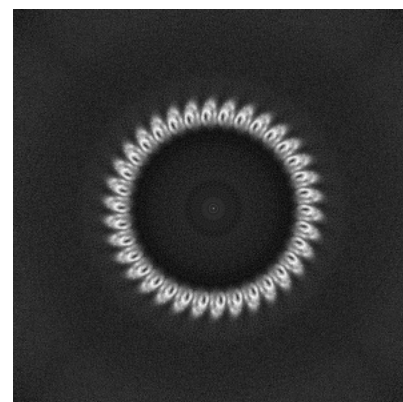
6.3.2 Raw map



X Index: 256



Y Index: 245

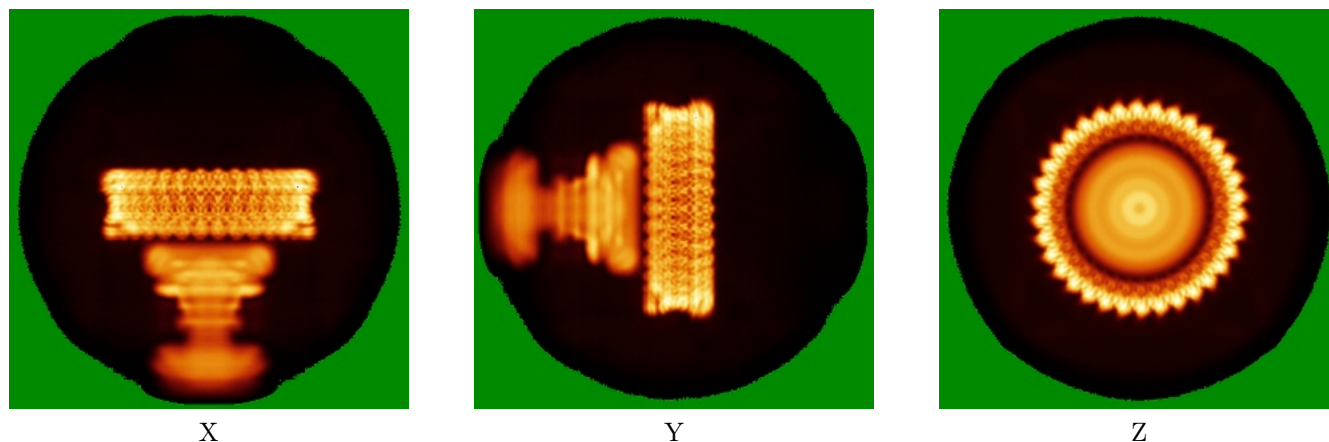


Z Index: 284

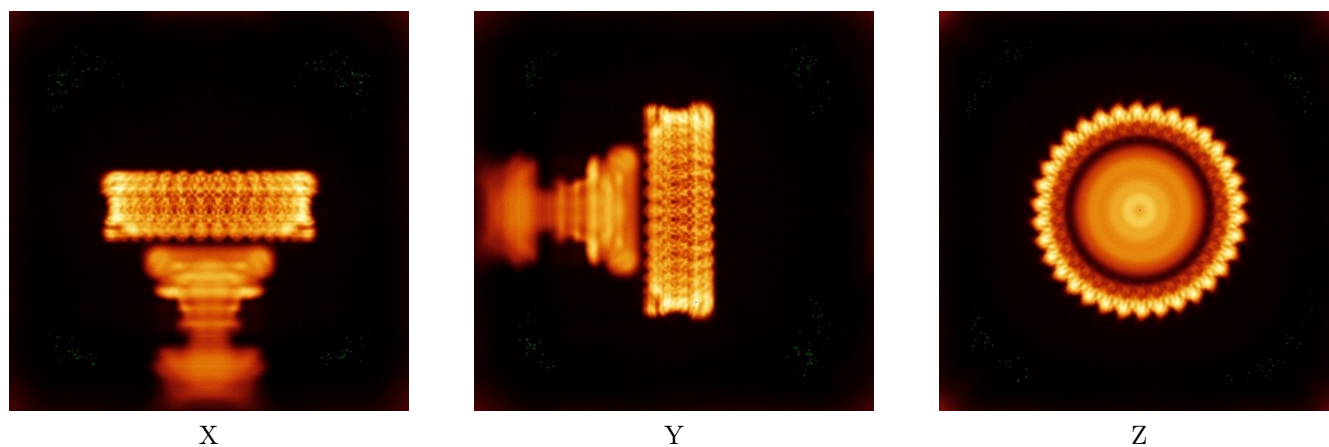
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



6.4.2 Raw map



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

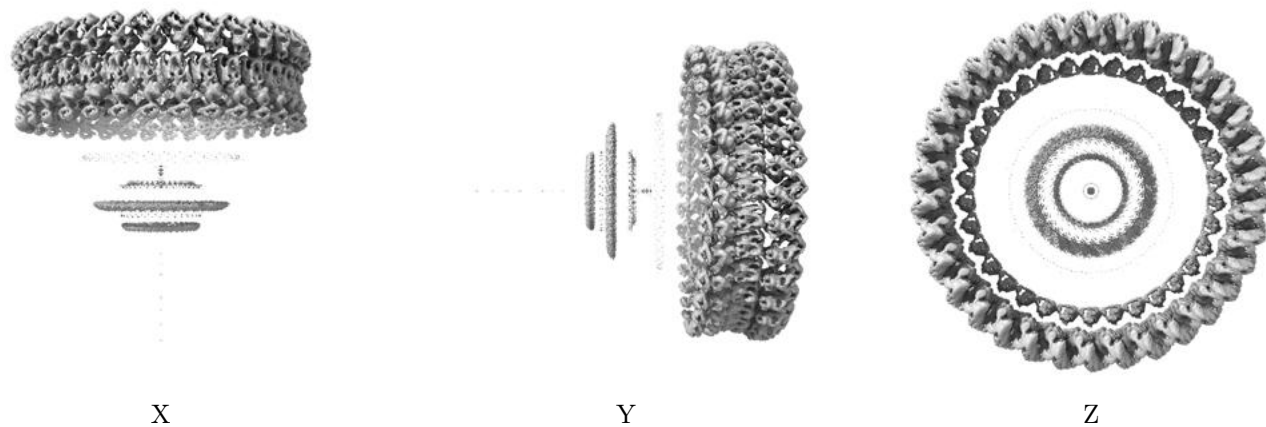
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.7. 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 shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

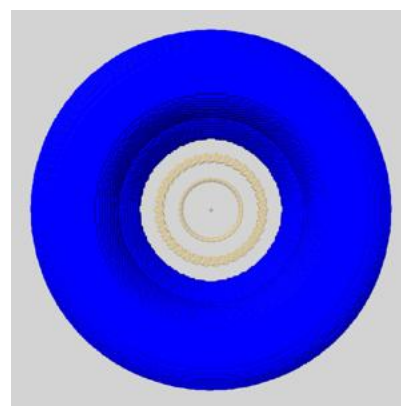
6.6.1 emd_42439_msk_1.map [i](#)



X



Y

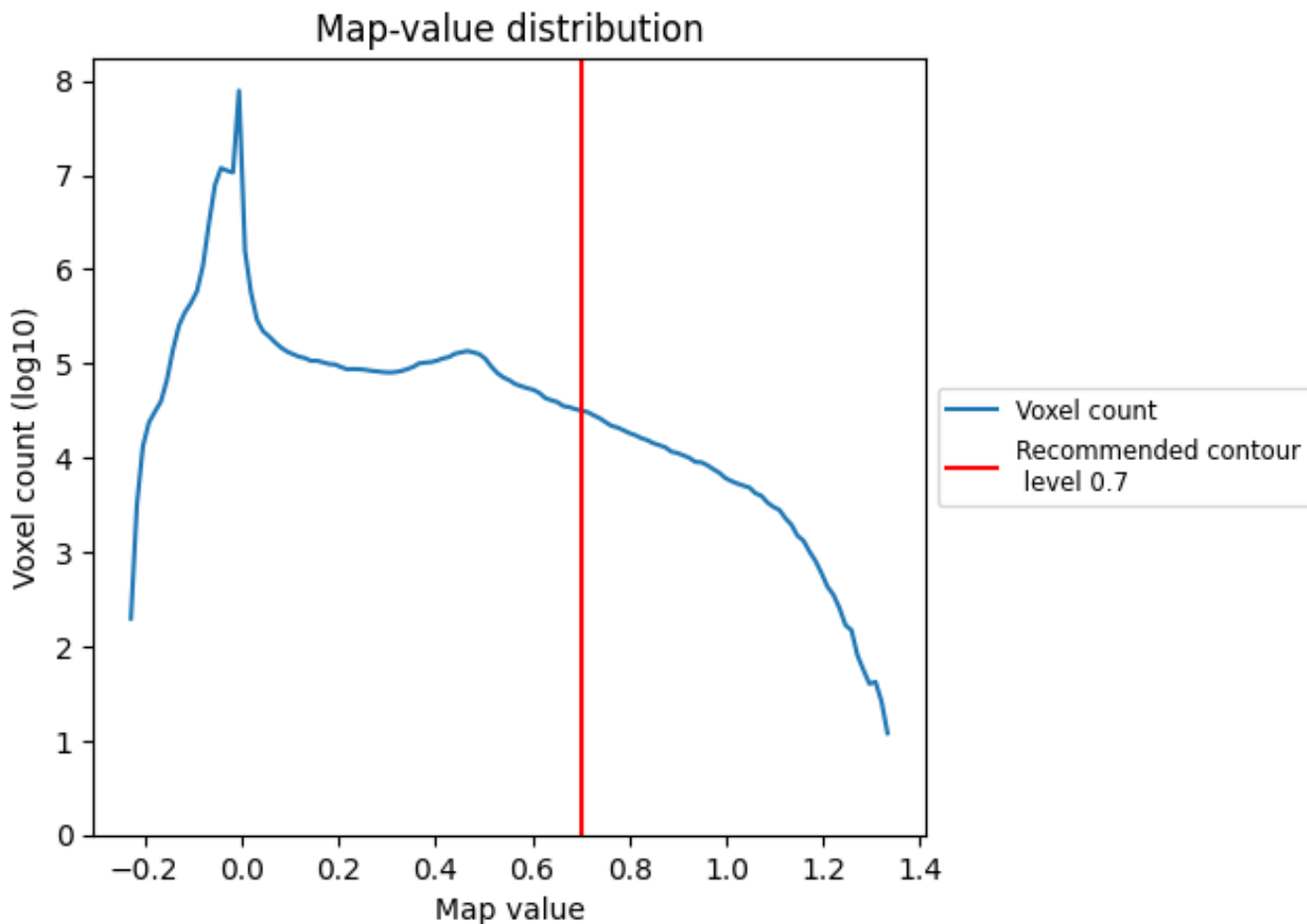


Z

7 Map analysis [i](#)

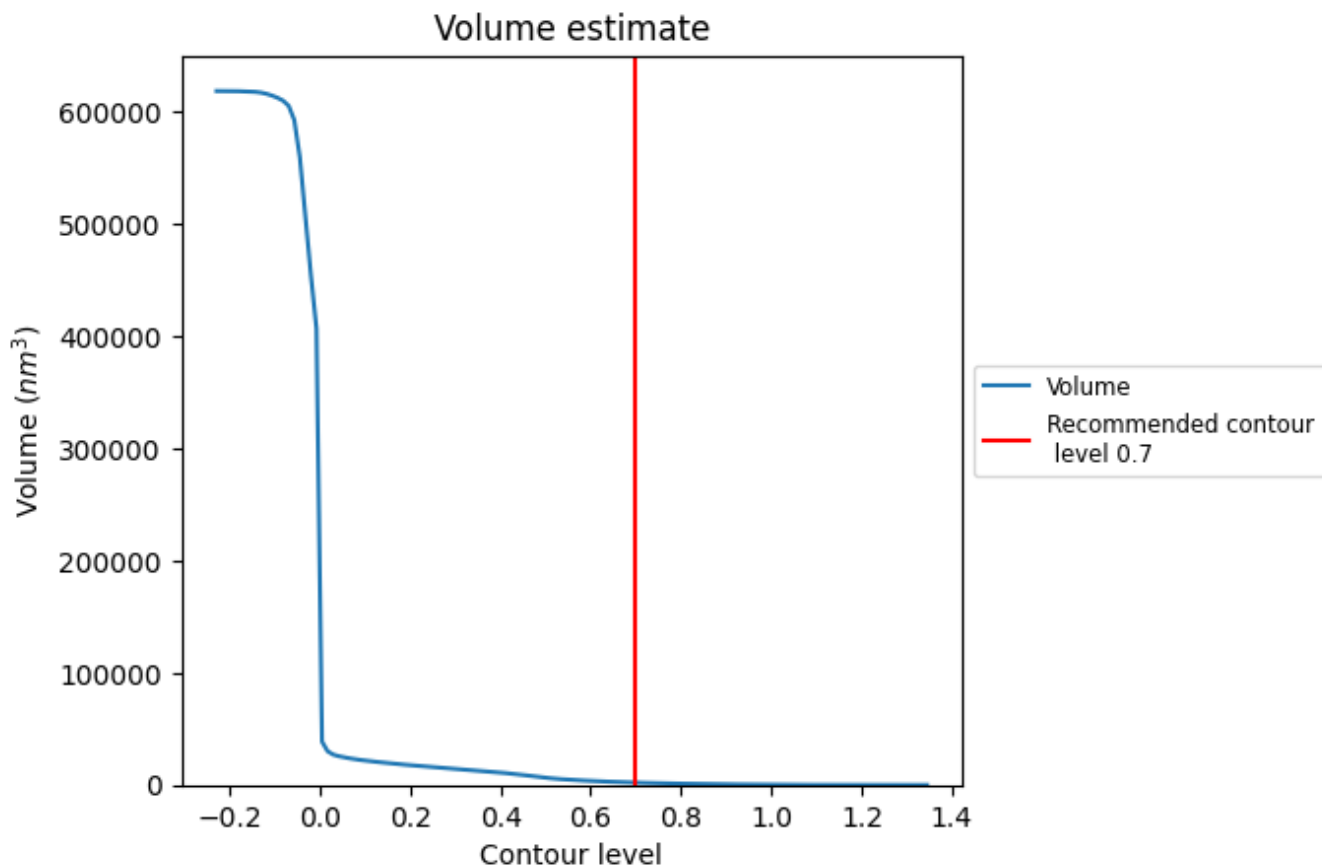
This section contains the results of statistical analysis of the map.

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.

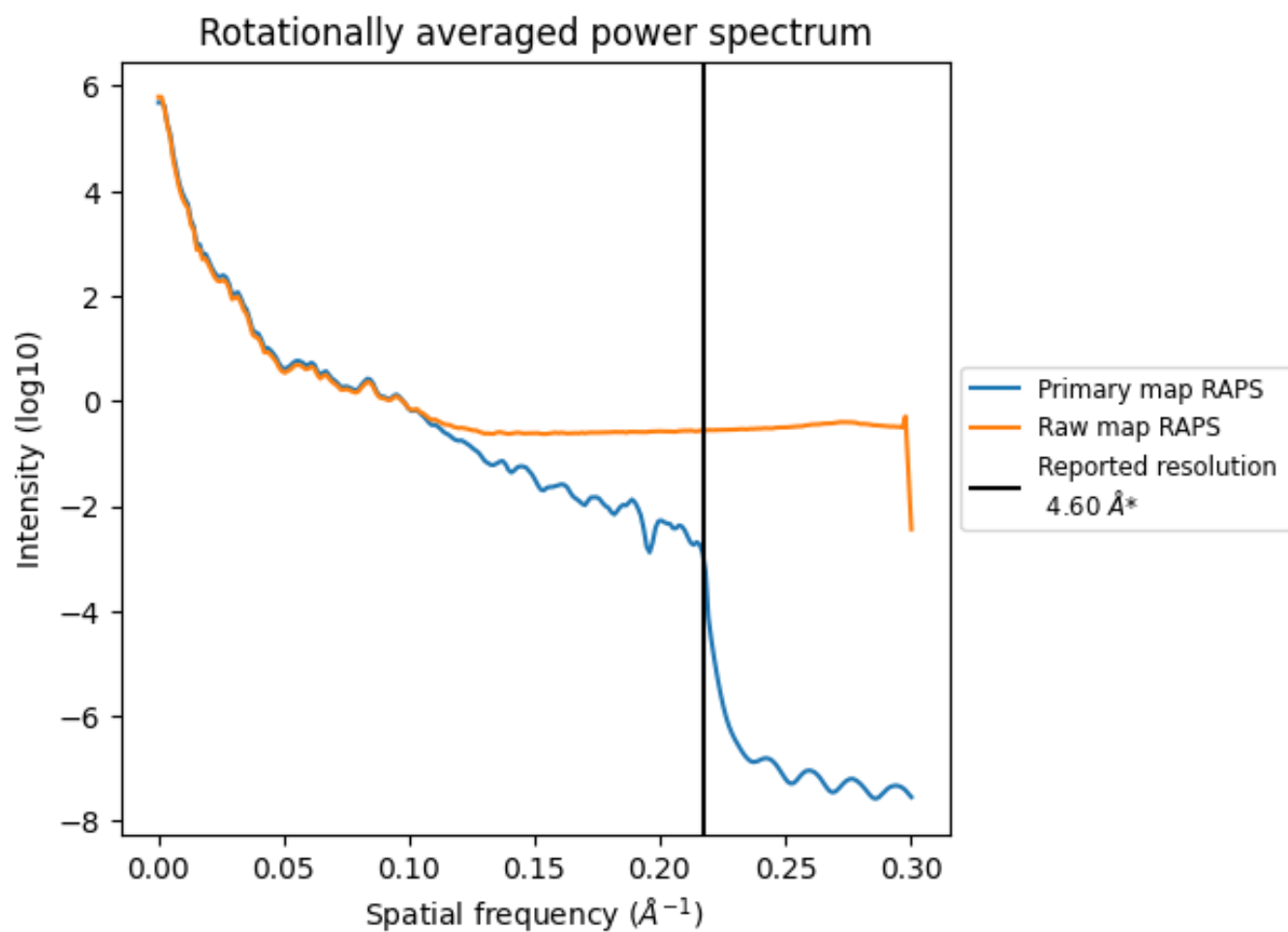
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2092 nm^3 ; this corresponds to an approximate mass of 1890 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

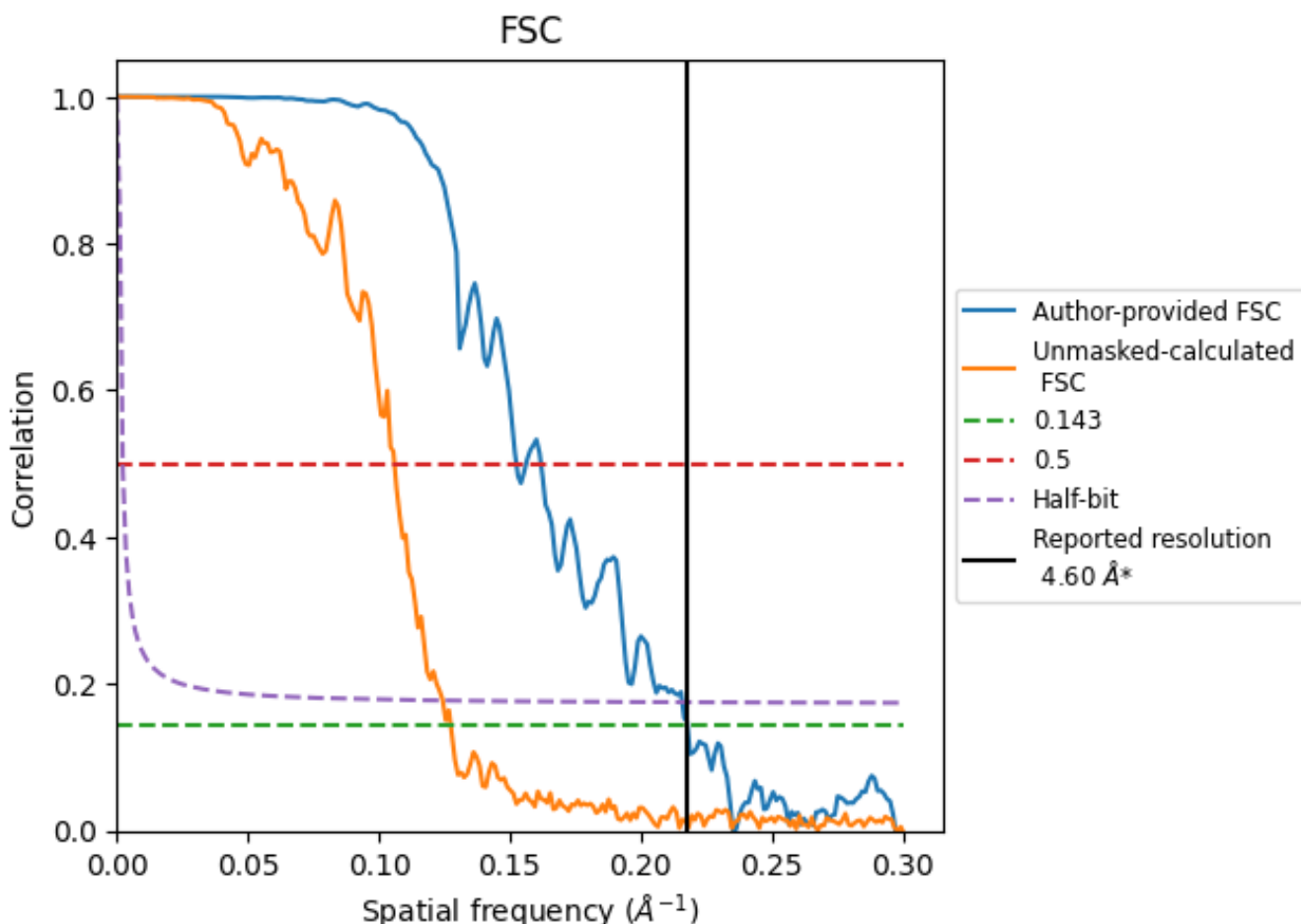


*Reported resolution corresponds to spatial frequency of 0.217 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.217 \AA^{-1}

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.60	-	-
Author-provided FSC curve	4.59	6.56	4.63
Unmasked-calculated*	7.84	9.43	8.03

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 7.84 differs from the reported value 4.6 by more than 10 %

9 Map-model fit [i](#)

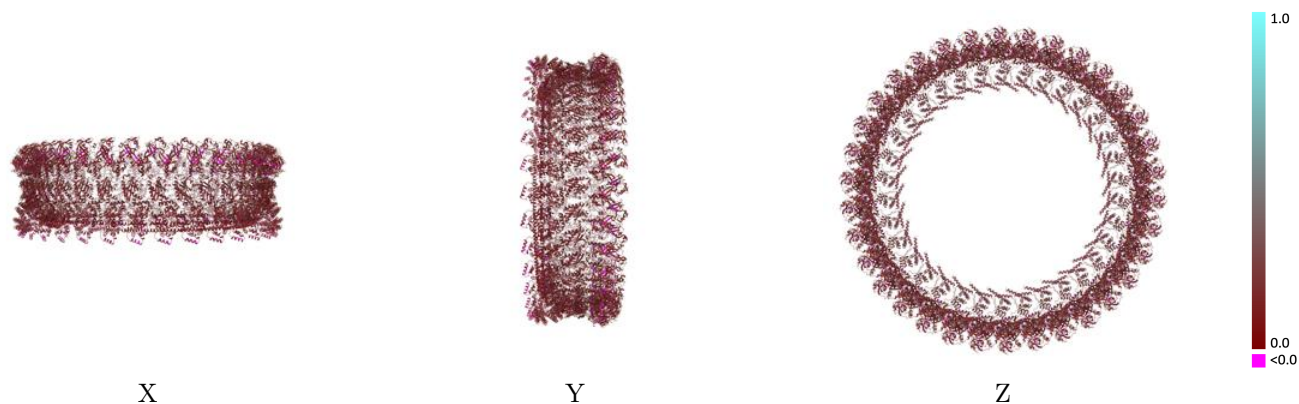
This section contains information regarding the fit between EMDB map EMD-42439 and PDB model 8UOX. Per-residue inclusion information can be found in section [3](#) on page [22](#).

9.1 Map-model overlay [i](#)



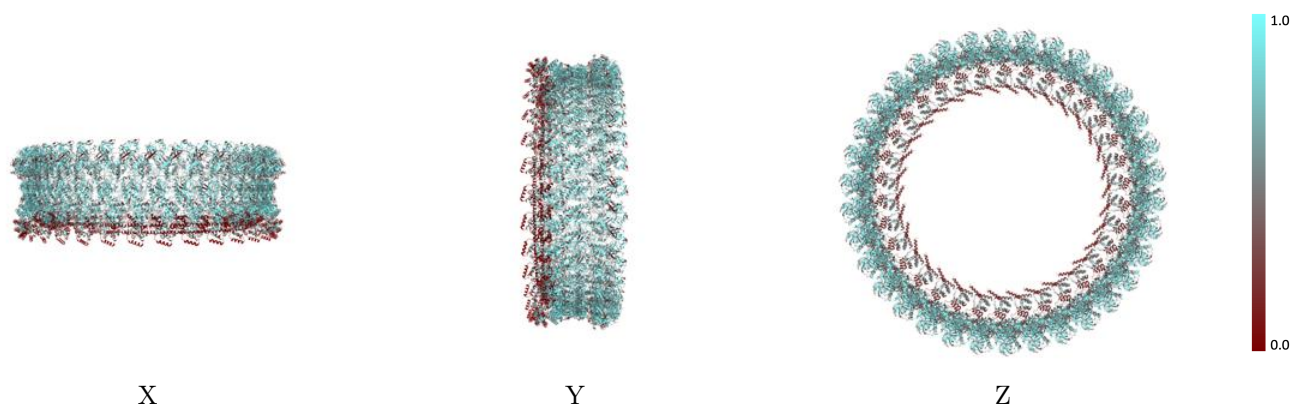
The images above show the 3D surface view of the map at the recommended contour level 0.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



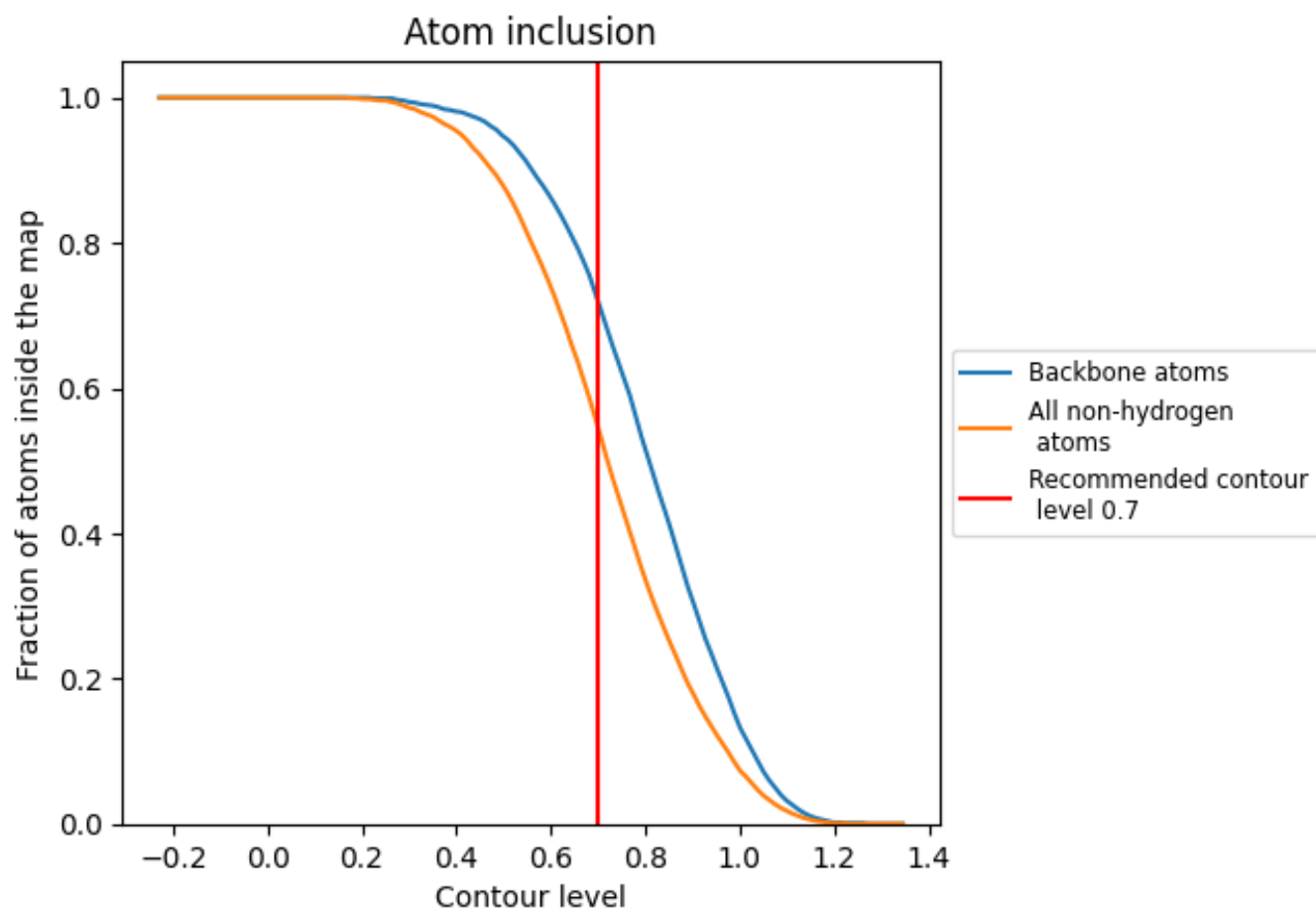
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.7).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 72% of all backbone atoms, 55% 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 (0.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5460	 0.1760
A1	 0.2800	 0.1570
A2	 0.2670	 0.1540
A3	 0.2700	 0.1520
A4	 0.2730	 0.1590
A5	 0.2780	 0.1570
A6	 0.2750	 0.1570
A7	 0.2730	 0.1580
A8	 0.2730	 0.1550
A9	 0.2730	 0.1570
AA	 0.2800	 0.1570
AB	 0.2670	 0.1530
AC	 0.2800	 0.1570
AD	 0.2780	 0.1570
AE	 0.2730	 0.1590
AF	 0.2670	 0.1590
AG	 0.2780	 0.1560
AH	 0.2800	 0.1570
AI	 0.2830	 0.1580
AJ	 0.2700	 0.1590
AK	 0.2730	 0.1600
AL	 0.2730	 0.1610
AM	 0.2730	 0.1580
AN	 0.2730	 0.1550
AO	 0.2730	 0.1600
AP	 0.2800	 0.1620
AQ	 0.2780	 0.1570
AR	 0.2700	 0.1590
AS	 0.2750	 0.1560
AT	 0.2730	 0.1570
AU	 0.2750	 0.1550
AV	 0.2730	 0.1550
AW	 0.2780	 0.1580
AX	 0.2780	 0.1550
AY	 0.2670	 0.1570























































































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Chain	Atom inclusion	Q-score
B1	■ 0.4350	■ 0.1620
B2	■ 0.4350	■ 0.1610
B3	■ 0.4350	■ 0.1610
B4	■ 0.4380	■ 0.1630
B5	■ 0.4330	■ 0.1610
B6	■ 0.4350	■ 0.1620
B7	■ 0.4400	■ 0.1620
B8	■ 0.4360	■ 0.1610
B9	■ 0.4340	■ 0.1630
BA	■ 0.4380	■ 0.1610
BB	■ 0.4430	■ 0.1620
BC	■ 0.4390	■ 0.1640
BD	■ 0.4340	■ 0.1620
BE	■ 0.4350	■ 0.1630
BF	■ 0.4370	■ 0.1600
BG	■ 0.4350	■ 0.1630
BH	■ 0.4350	■ 0.1620
BI	■ 0.4330	■ 0.1620
BJ	■ 0.4380	■ 0.1640
BK	■ 0.4360	■ 0.1620
BL	■ 0.4350	■ 0.1620
BM	■ 0.4330	■ 0.1620
BN	■ 0.4360	■ 0.1620
BO	■ 0.4390	■ 0.1630
BP	■ 0.4360	■ 0.1620
BQ	■ 0.4360	■ 0.1630
BR	■ 0.4350	■ 0.1620
BS	■ 0.4380	■ 0.1610
BT	■ 0.4370	■ 0.1620
BU	■ 0.4350	■ 0.1620
BV	■ 0.4360	■ 0.1610
BW	■ 0.4390	■ 0.1610
BX	■ 0.4370	■ 0.1610
BY	■ 0.4350	■ 0.1620
C1	■ 0.6370	■ 0.1900
C2	■ 0.6370	■ 0.1870
C3	■ 0.6370	■ 0.1890
C4	■ 0.6350	■ 0.1890
C5	■ 0.6340	■ 0.1880
C6	■ 0.6380	■ 0.1870
C7	■ 0.6350	■ 0.1890
C8	■ 0.6360	■ 0.1880





















































































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Chain	Atom inclusion	Q-score
C9	 0.6370	 0.1880
CA	 0.6380	 0.1880
CB	 0.6380	 0.1890
CC	 0.6350	 0.1880
CD	 0.6350	 0.1880
CE	 0.6390	 0.1880
CF	 0.6340	 0.1890
CG	 0.6310	 0.1880
CH	 0.6340	 0.1880
CI	 0.6380	 0.1890
CJ	 0.6350	 0.1880
CK	 0.6350	 0.1880
CL	 0.6350	 0.1880
CM	 0.6360	 0.1870
CN	 0.6370	 0.1880
CO	 0.6370	 0.1890
CP	 0.6340	 0.1870
CQ	 0.6390	 0.1870
CR	 0.6390	 0.1860
CS	 0.6360	 0.1860
CT	 0.6330	 0.1870
CU	 0.6360	 0.1890
CV	 0.6400	 0.1890
CW	 0.6370	 0.1880
CX	 0.6320	 0.1880
CY	 0.6350	 0.1880
D1	 0.6440	 0.1860
D2	 0.6420	 0.1870
D3	 0.6390	 0.1890
D4	 0.6400	 0.1890
D5	 0.6400	 0.1840
D6	 0.6420	 0.1850
D7	 0.6440	 0.1870
D8	 0.6350	 0.1890
D9	 0.6340	 0.1840
DA	 0.6390	 0.1850
DB	 0.6350	 0.1850
DC	 0.6400	 0.1860
DD	 0.6390	 0.1860
DE	 0.6400	 0.1840
DF	 0.6390	 0.1840
DG	 0.6370	 0.1860





















































































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Chain	Atom inclusion	Q-score
DH	 0.6420	 0.1830
DI	 0.6420	 0.1860
DJ	 0.6390	 0.1840
DK	 0.6370	 0.1850
DL	 0.6440	 0.1850
DM	 0.6440	 0.1850
DN	 0.6420	 0.1850
DO	 0.6390	 0.1870
DP	 0.6420	 0.1870
DQ	 0.6400	 0.1840
DR	 0.6420	 0.1880
DS	 0.6350	 0.1870
DT	 0.6440	 0.1860
DU	 0.6370	 0.1890
DV	 0.6400	 0.1890
DW	 0.6420	 0.1880
DX	 0.6390	 0.1890
DY	 0.6400	 0.1850
E1	 0.6320	 0.1770
E2	 0.6440	 0.1760
E3	 0.6340	 0.1780
E4	 0.6320	 0.1750
E5	 0.6390	 0.1740
E6	 0.6350	 0.1750
E7	 0.6260	 0.1710
E8	 0.6290	 0.1750
E9	 0.6240	 0.1760
EA	 0.6420	 0.1760
EB	 0.6420	 0.1770
EC	 0.6290	 0.1760
ED	 0.6270	 0.1790
EE	 0.6350	 0.1760
EF	 0.6270	 0.1800
EG	 0.6270	 0.1800
EH	 0.6260	 0.1790
EI	 0.6340	 0.1820
EJ	 0.6440	 0.1770
EK	 0.6300	 0.1780
EL	 0.6300	 0.1810
EM	 0.6450	 0.1820
EN	 0.6400	 0.1820
EO	 0.6320	 0.1790





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Chain	Atom inclusion	Q-score
EP	 0.6320	 0.1800
EQ	 0.6220	 0.1780
ER	 0.6420	 0.1780
ES	 0.6390	 0.1770
ET	 0.6320	 0.1770
EU	 0.6300	 0.1810
EV	 0.6370	 0.1770
EW	 0.6340	 0.1780
EX	 0.6270	 0.1770
EY	 0.6260	 0.1750
F1	 0.6490	 0.1850
F2	 0.6530	 0.1860
F3	 0.6530	 0.1830
F4	 0.6500	 0.1850
F5	 0.6530	 0.1850
F6	 0.6620	 0.1850
F7	 0.6570	 0.1820
F8	 0.6530	 0.1860
F9	 0.6490	 0.1830
FA	 0.6550	 0.1870
FB	 0.6500	 0.1850
FC	 0.6500	 0.1870
FD	 0.6580	 0.1850
FE	 0.6550	 0.1860
FF	 0.6500	 0.1850
FG	 0.6490	 0.1850
FH	 0.6530	 0.1850
FI	 0.6470	 0.1840
FJ	 0.6530	 0.1820
FK	 0.6550	 0.1840
FL	 0.6490	 0.1850
FM	 0.6530	 0.1860
FN	 0.6500	 0.1840
FO	 0.6570	 0.1840
FP	 0.6490	 0.1840
FQ	 0.6490	 0.1820
FR	 0.6490	 0.1820
FS	 0.6520	 0.1850
FT	 0.6520	 0.1830
FU	 0.6470	 0.1840
FV	 0.6530	 0.1820
FW	 0.6500	 0.1840

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Chain	Atom inclusion	Q-score
FX	 0.6500	 0.1830
FY	 0.6450	 0.1820